

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG042720\  
 Data File : BG045179.D  
 Acq On : 27 Apr 2020 15:15  
 Operator : CG/JU  
 Sample : L2399-09  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP1-B

Quant Time: Apr 27 15:50:43 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 27 12:48:53 2020  
 Response via : Initial Calibration

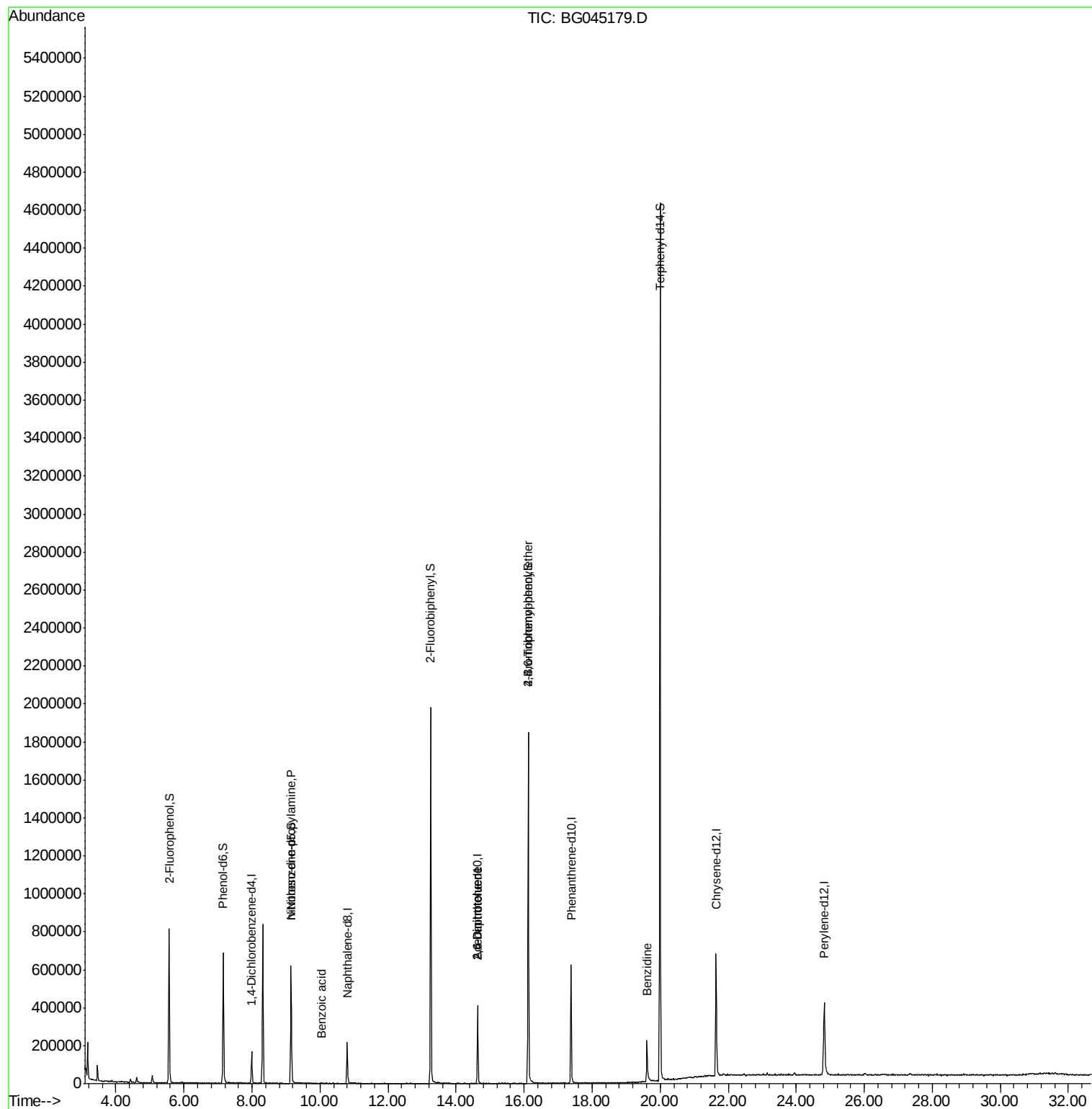
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.99  | 152  | 52289    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.80 | 136  | 203192   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.63 | 164  | 165188   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.38 | 188  | 432421   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 21.65 | 240  | 434013   | 20.00     | ng    | 0.00     |
| 87) Perylene-d12               | 24.82 | 264  | 462323   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.56  | 112  | 404559   | 127.73    | ng    | 0.00     |
| 7) Phenol-d6                   | 7.16  | 99   | 501394   | 106.55    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.15  | 82   | 439821   | 98.77     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.12 | 330  | 405970   | 159.08    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.26 | 172  | 1121488  | 99.55     | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.99 | 244  | 2234954  | 112.24    | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 7.15  | 77   | 1074     | Below Cal | #     | 4        |
| 19) n-Nitroso-di-n-propylamine | 9.15  | 70   | 61002    | 18.331 ng | #     | 79       |
| 32) Benzoic acid               | 10.04 | 122  | 53       | 6.392 ng  | #     | 1        |
| 51) 2,6-Dinitrotoluene         | 14.63 | 165  | 21550    | 7.163 ng  | #     | 24       |
| 57) 2,4-Dinitrotoluene         | 14.63 | 165  | 21550    | 4.902 ng  | #     | 22       |
| 67) 4-Bromophenyl-phenylether  | 16.12 | 248  | 26532    | 4.756 ng  | #     | 1        |
| 69) Atrazine                   | 16.81 | 200  | 68       | Below Cal | #     | 35       |
| 74) Di-n-butylphthalate        | 18.35 | 149  | 1391     | Below Cal | #     | 87       |
| 75) Fluoranthene               | 19.35 | 202  | 62       | Below Cal |       | 62       |
| 77) Benzidine                  | 19.61 | 184  | 185847   | 10.175 ng |       | 95       |

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

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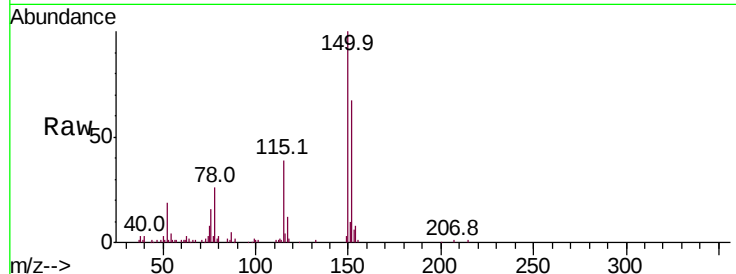


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.99 min Scan# 835  
Delta R.T. 0.00 min  
Lab File: BG045179.D  
Acq: 27 Apr 2020 15:15

Instrument :  
BNA\_G  
ClientSampleId :  
SP1-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.2 | 123.6 | 185.4 |
| 115     | 58.4  | 49.1  | 73.7  |

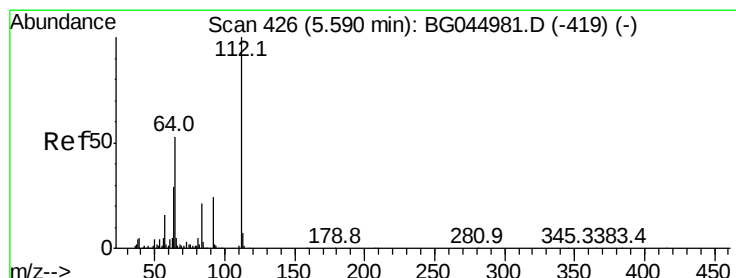
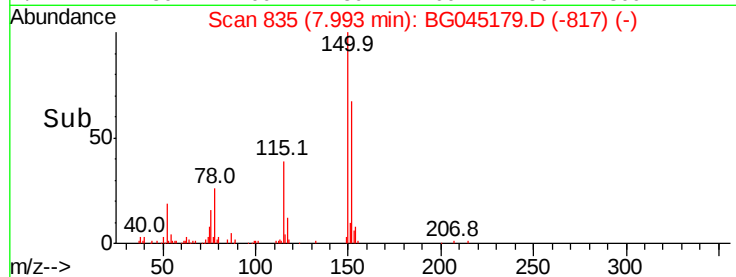
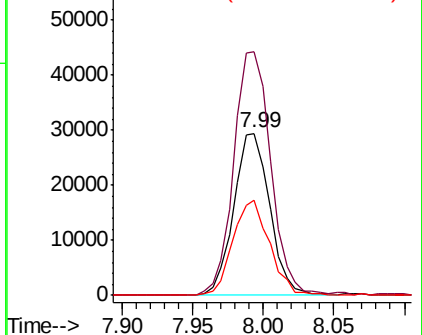


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

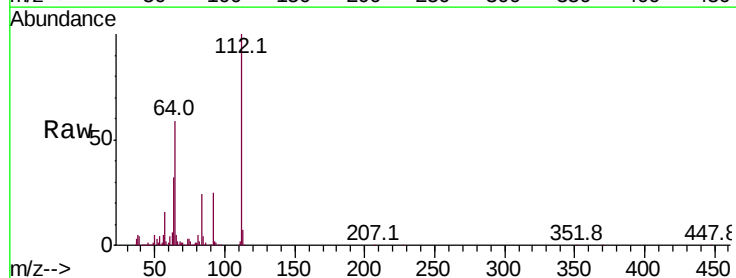
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 127.733 ng  
RT: 5.56 min Scan# 421  
Delta R.T. -0.00 min  
Lab File: BG045179.D  
Acq: 27 Apr 2020 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.6  | 42.4  | 63.6  |
| 63      | 31.6  | 23.1  | 34.7  |

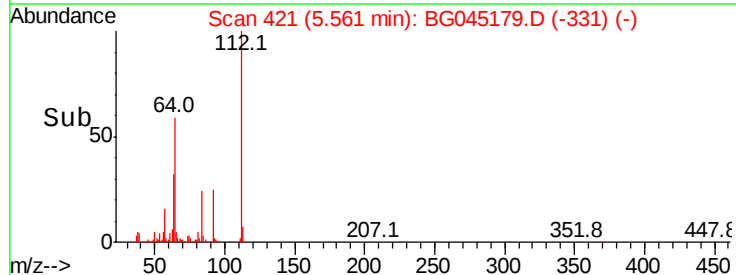
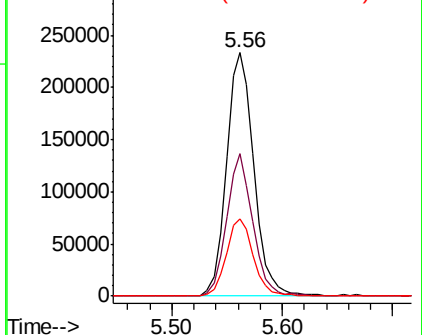


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 106.551 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.00 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

Instrument :

BNA\_G

ClientSampleId :

SP1-B

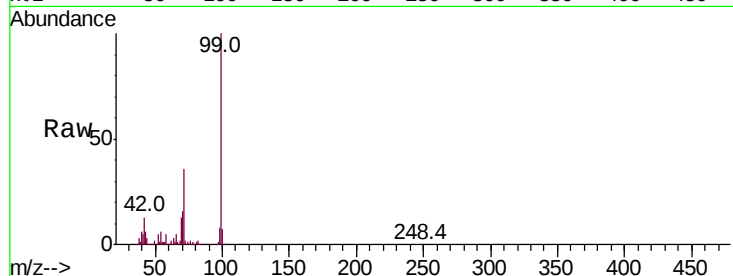
Tot Ion: 99 Resp: 501394

Ion Ratio Lower Upper

99 100

42 13.0 11.3 16.9

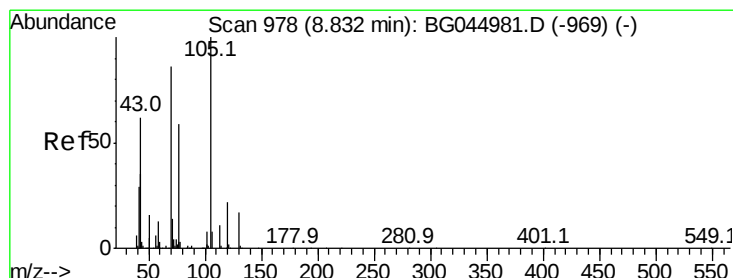
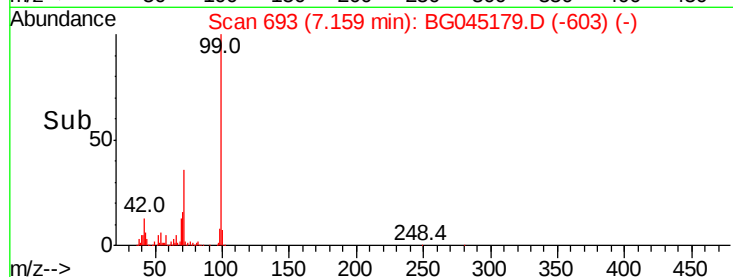
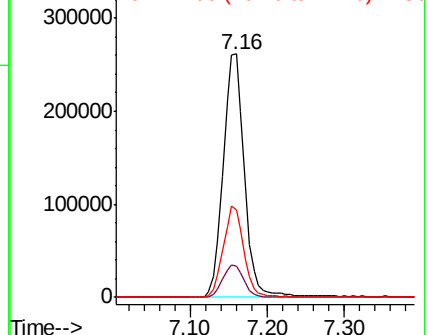
71 35.9 28.3 42.5



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: 18.331 ng

RT: 9.15 min Scan# 1032

Delta R.T. 0.35 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

Tgt Ion: 70 Resp: 61002

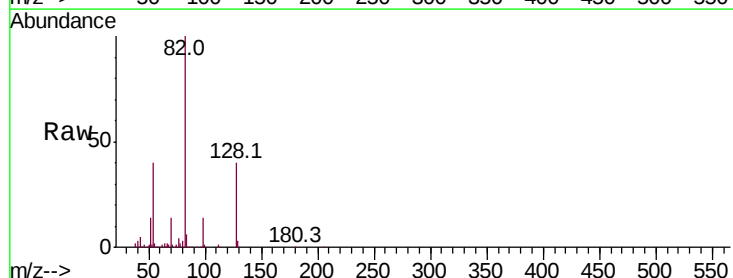
Ion Ratio Lower Upper

70 100

42 34.9 33.3 49.9

101 0.0 7.8 11.8#

130 1.6 15.8 23.6#

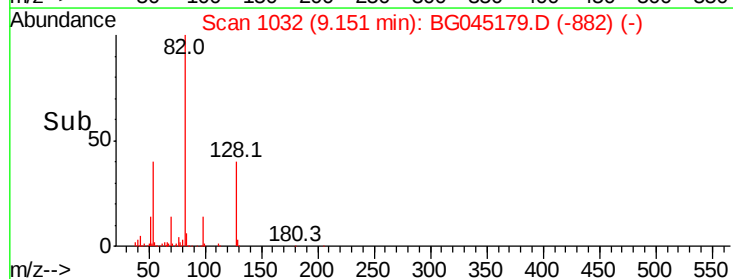
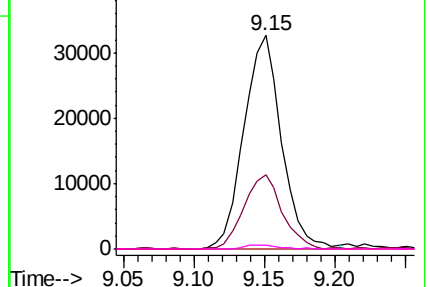


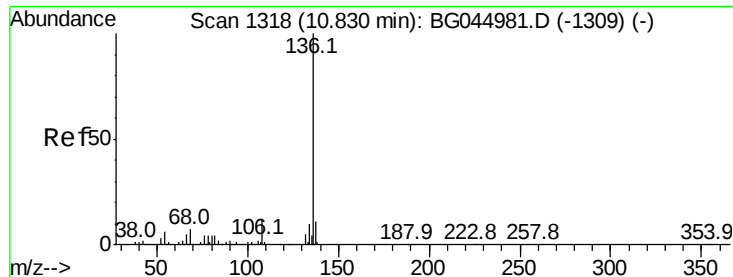
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

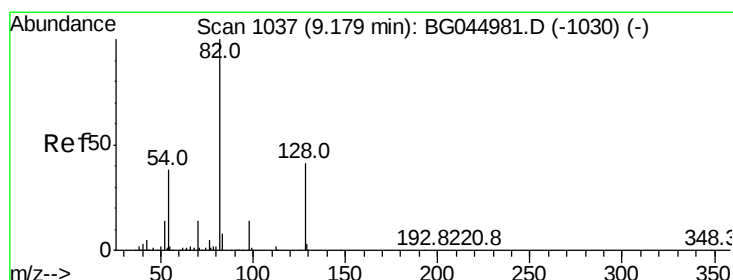
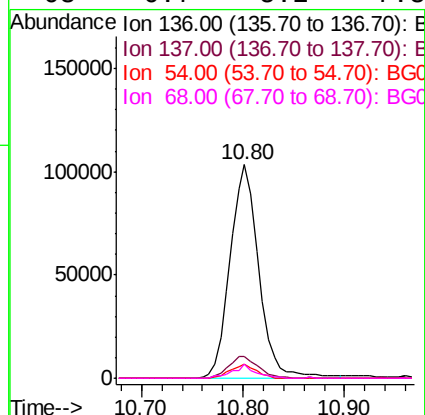
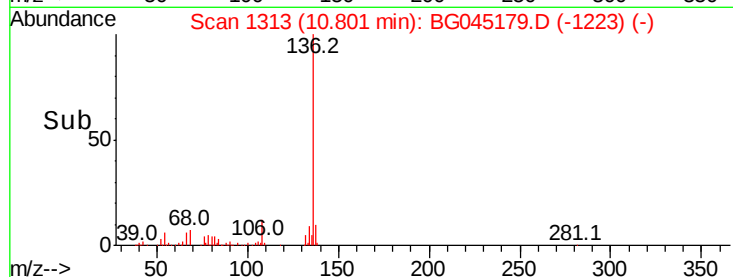
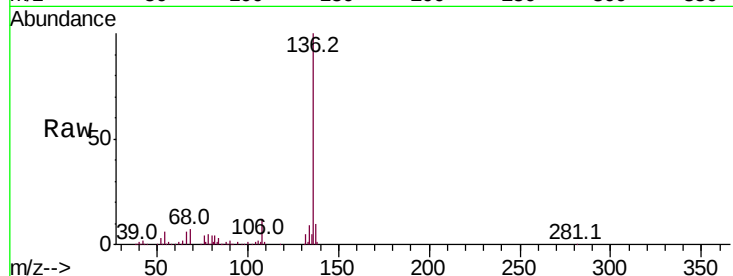




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.80 min Scan# 1313  
Delta R.T. -0.00 min  
Lab File: BG045179.D  
Acq: 27 Apr 2020 15:15

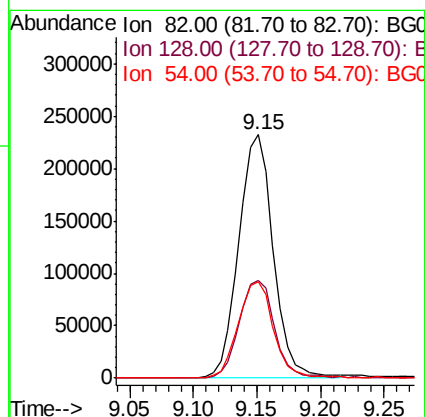
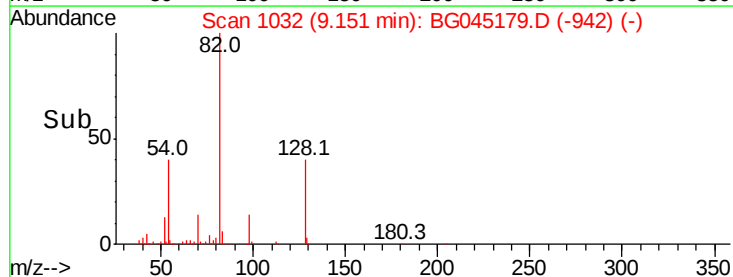
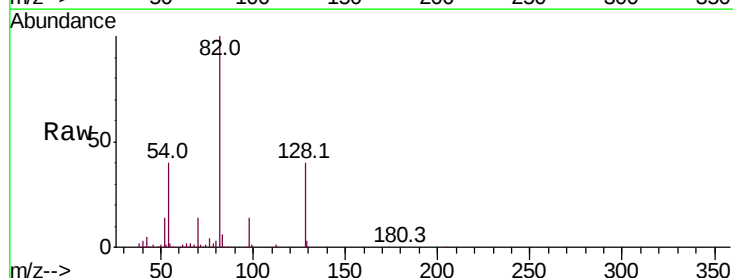
Instrument :  
BNA\_G  
ClientSampleId :  
SP1-B

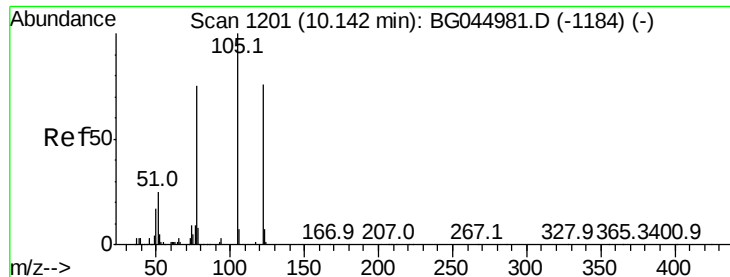
|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 203192 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 10.5    | 8.6 13.0     |
| 54 6.4      | 4.8 7.2      |
| 68 6.7      | 5.2 7.8      |



#23  
Nitrobenzene-d5  
Concen: 98.766 ng  
RT: 9.15 min Scan# 1032  
Delta R.T. -0.00 min  
Lab File: BG045179.D  
Acq: 27 Apr 2020 15:15

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 439821 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 40.0    | 33.0  | 49.4   |
| 54  | 39.6    | 30.4  | 45.6   |





#32

Benzoic acid

Concen: 6.392 ng

RT: 10.04 min Scan# 1184

Delta R.T. -0.08 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

Instrument :

BNA\_G

ClientSampleId :

SP1-B

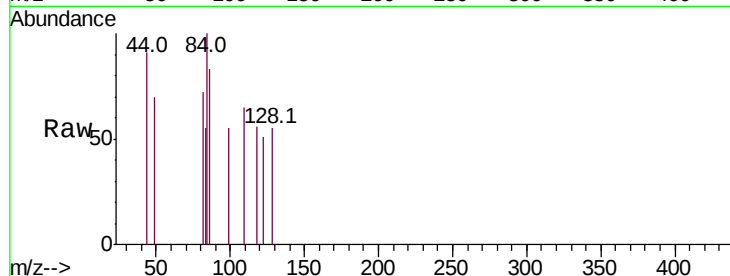
Tot Ion:122 Resp: 53

Ion Ratio Lower Upper

122 100

105 0.0 108.4 148.4#

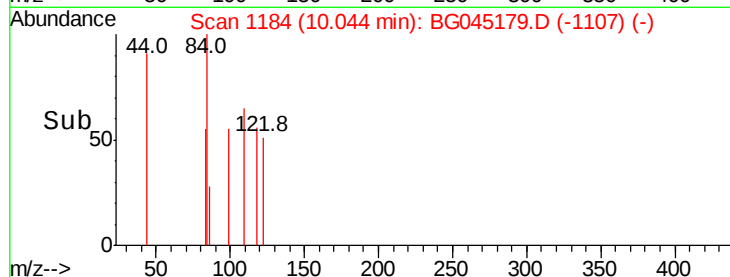
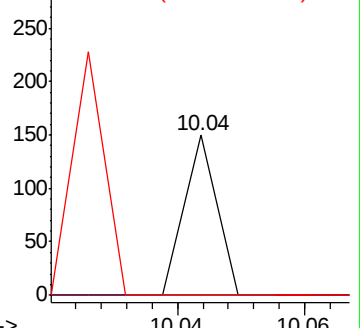
77 0.0 78.8 118.8#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.63 min Scan# 1965

Delta R.T. -0.00 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

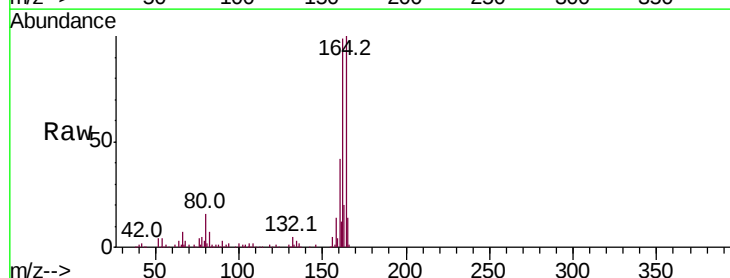
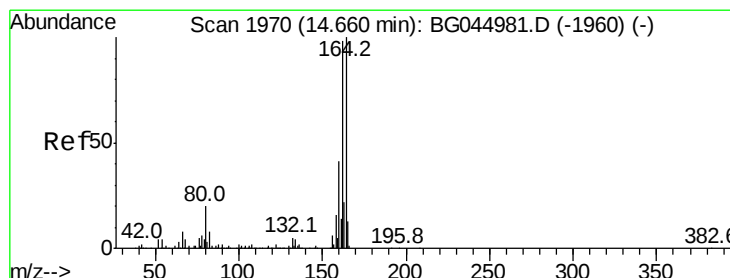
Tgt Ion:164 Resp: 165188

Ion Ratio Lower Upper

164 100

162 99.1 78.7 118.1

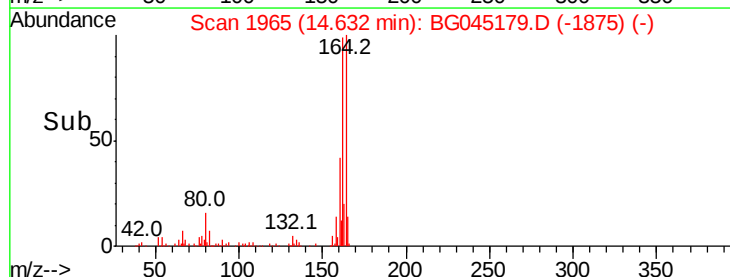
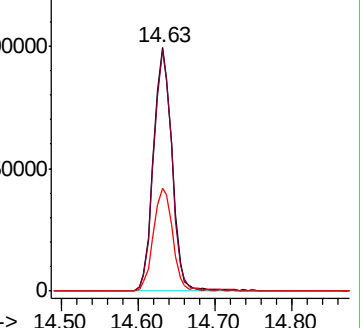
160 42.2 32.8 49.2

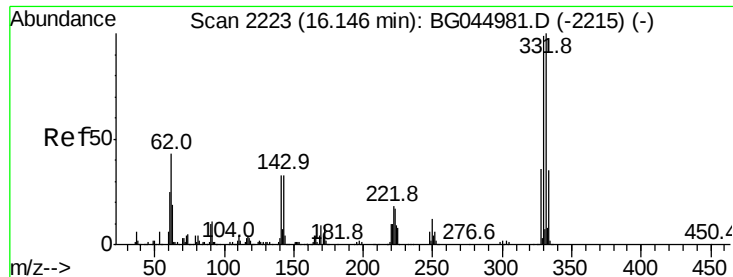


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

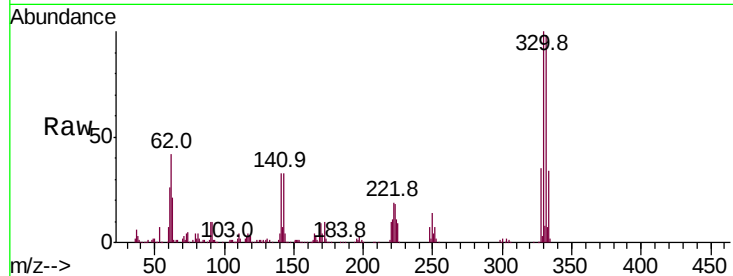




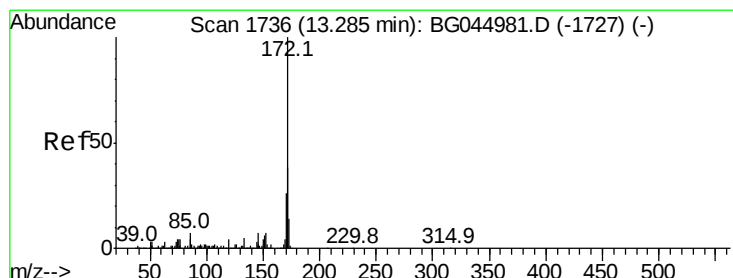
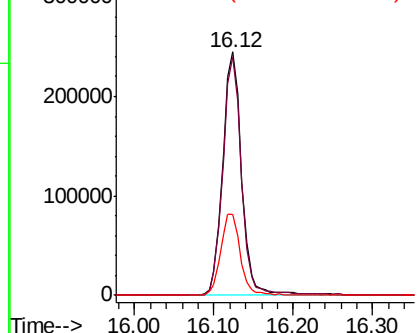
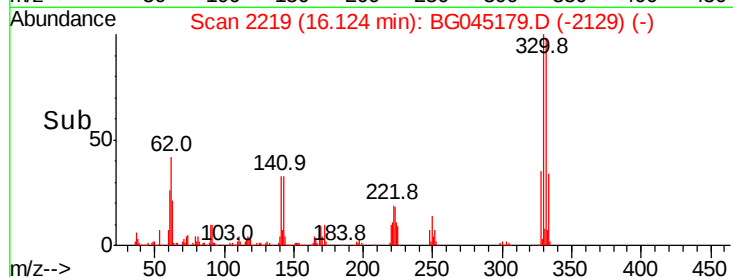
#42  
 2,4,6-Tribromophenol  
 Concen: 159.083 ng  
 RT: 16.12 min Scan# 2219  
 Delta R.T. -0.00 min  
 Lab File: BG045179.D  
 Acq: 27 Apr 2020 15:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP1-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 79.1  | 118.7 |
| 141     | 34.6  | 27.1  | 40.7  |

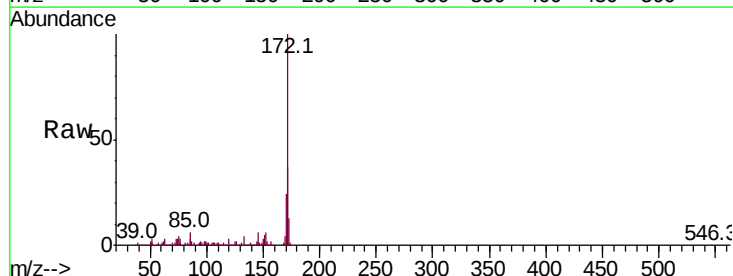


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

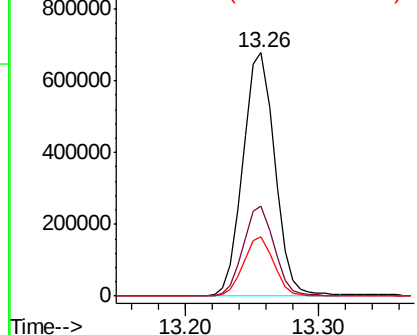
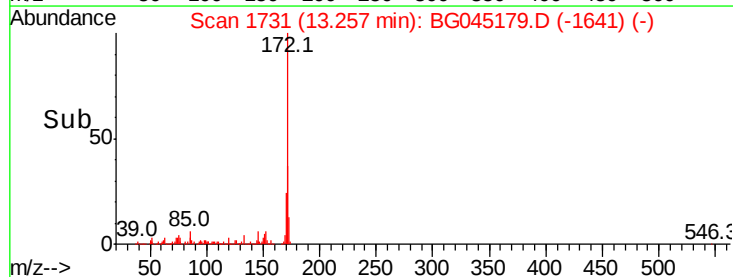


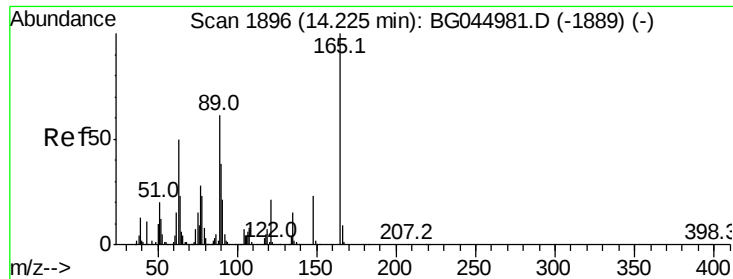
#45  
 2-Fluorobiphenyl  
 Concen: 99.551 ng  
 RT: 13.26 min Scan# 1731  
 Delta R.T. -0.00 min  
 Lab File: BG045179.D  
 Acq: 27 Apr 2020 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 30.6  | 46.0  |
| 170     | 24.1  | 20.5  | 30.7  |



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: 7.163 ng

RT: 14.63 min Scan# 1965

Delta R.T. 0.43 min

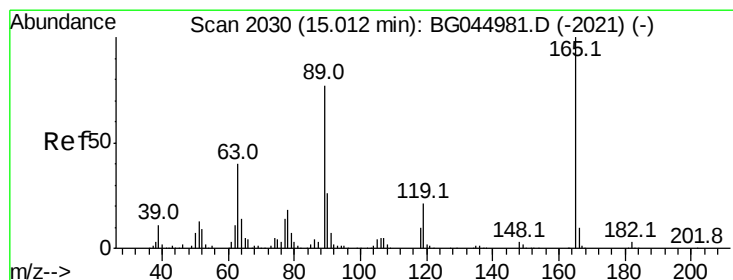
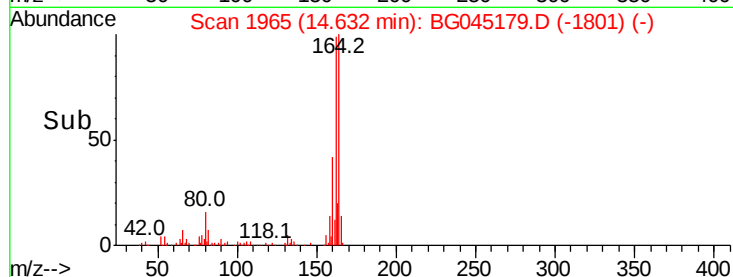
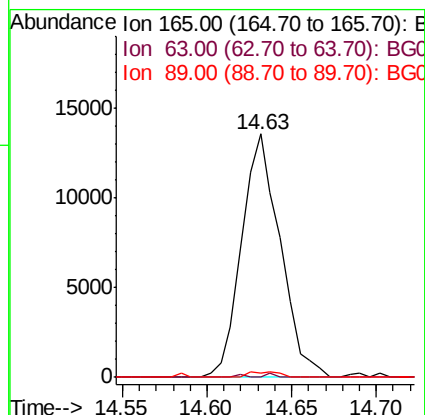
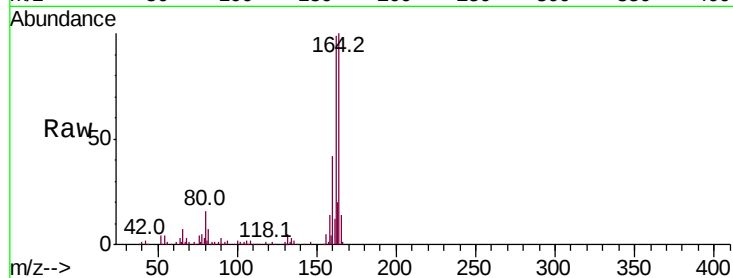
Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

Instrument :  
BNA\_G  
ClientSampleId :  
SP1-B

Tot Ion:165 Resp: 21550

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 0.0   | 40.4  | 60.6# |
| 89  | 1.6   | 49.1  | 73.7# |



#57

2,4-Dinitrotoluene

Concen: 4.902 ng

RT: 14.63 min Scan# 1965

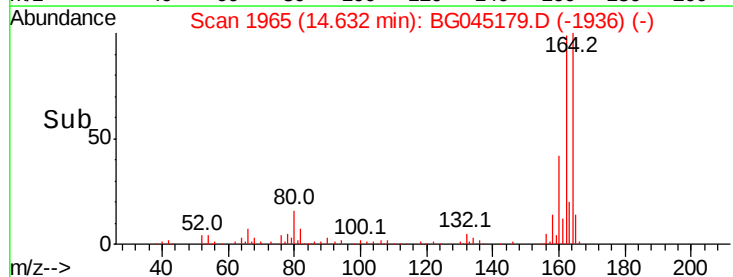
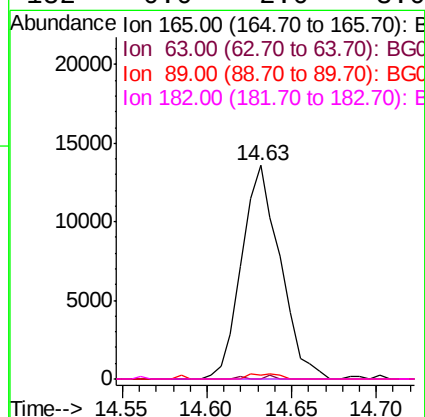
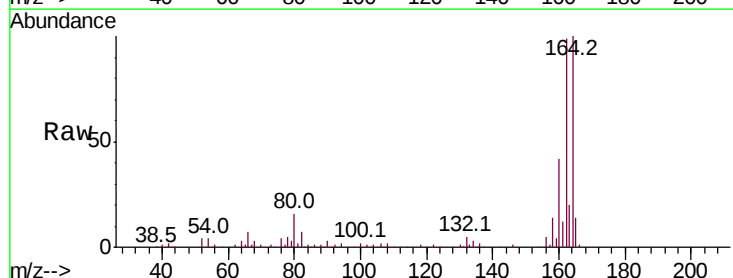
Delta R.T. -0.36 min

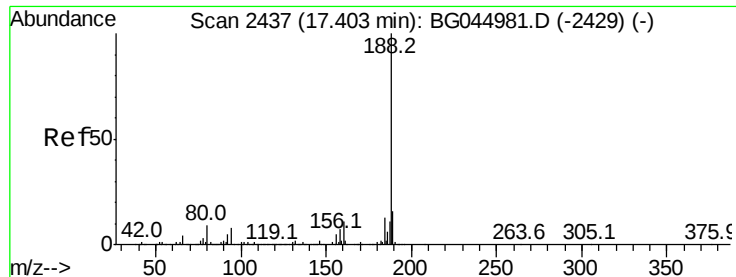
Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

Tgt Ion:165 Resp: 21550

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 0.0   | 32.2  | 48.2# |
| 89  | 1.6   | 61.7  | 92.5# |
| 182 | 0.0   | 2.0   | 3.0#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.38 min Scan# 2433

Delta R.T. -0.00 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

Instrument :

BNA\_G

ClientSampleId :

SP1-B

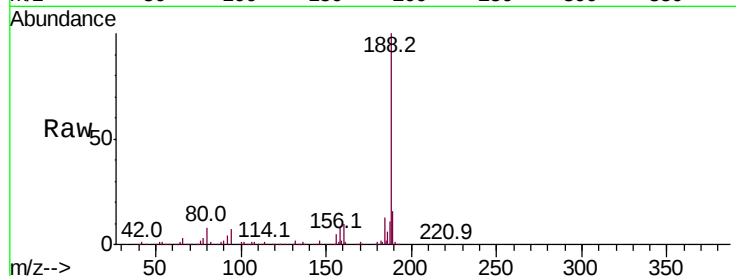
Tot Ion:188 Resp: 432421

Ion Ratio Lower Upper

188 100

94 6.6 6.2 9.4

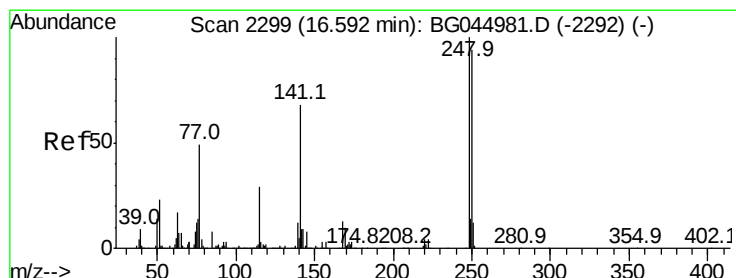
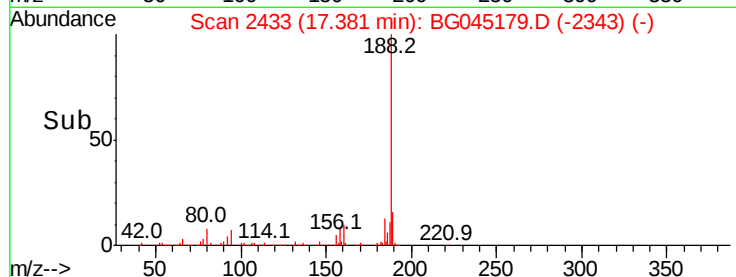
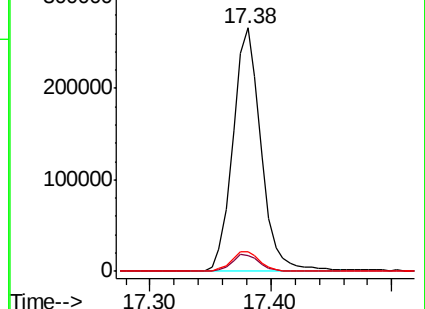
80 8.1 7.0 10.6



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



#67

4-Bromophenyl-phenylether

Concen: 4.756 ng

RT: 16.12 min Scan# 2219

Delta R.T. -0.45 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

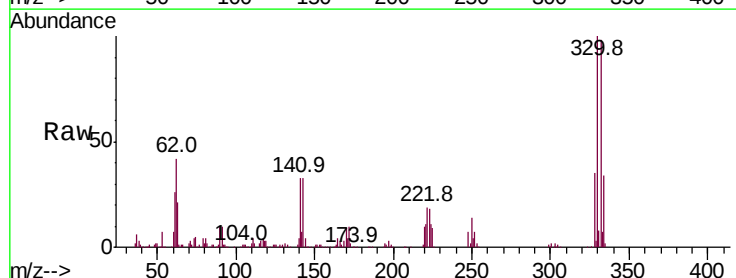
Tgt Ion:248 Resp: 26532

Ion Ratio Lower Upper

248 100

250 202.0 75.4 113.2#

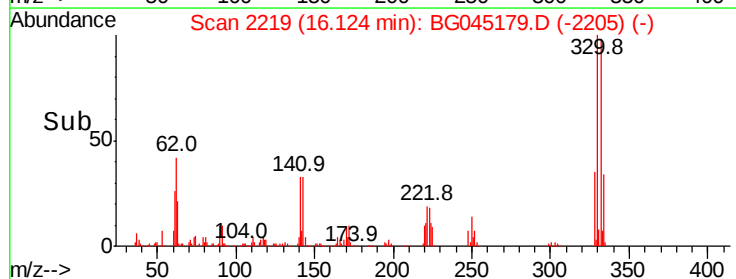
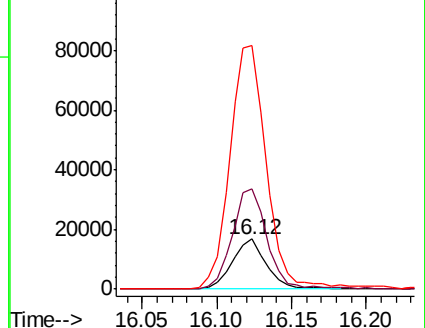
141 489.6 54.4 81.6#

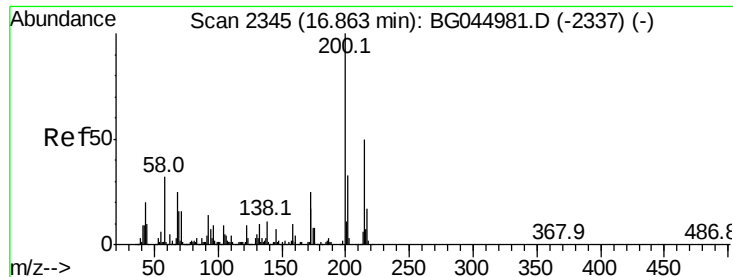


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#69

Atrazine

Concen: Below Cal

RT: 16.81 min Scan# 2335

Delta R.T. -0.04 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

Instrument :

BNA\_G

ClientSampleId :

SP1-B

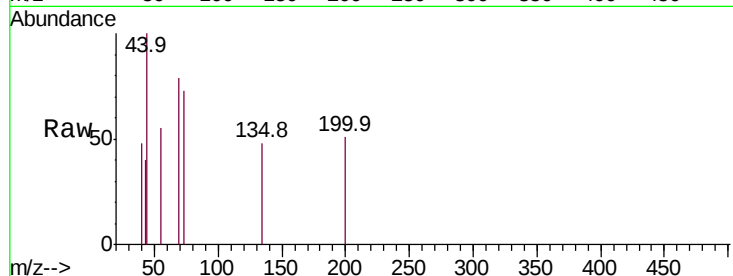
Tot Ion:200 Resp: 68

Ion Ratio Lower Upper

200 100

173 0.0 4.5 44.5#

215 0.0 30.0 70.0#

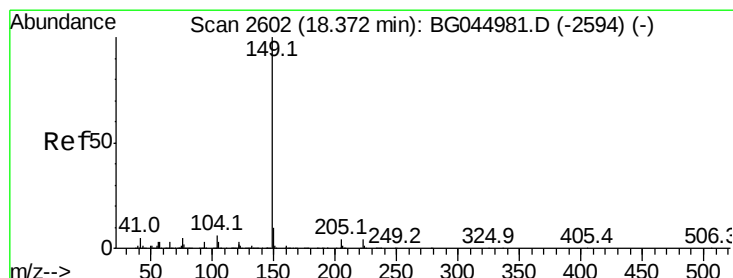
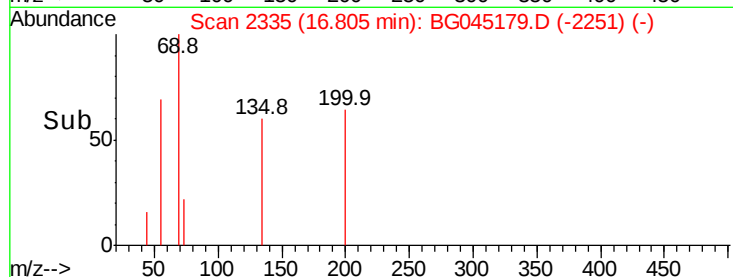
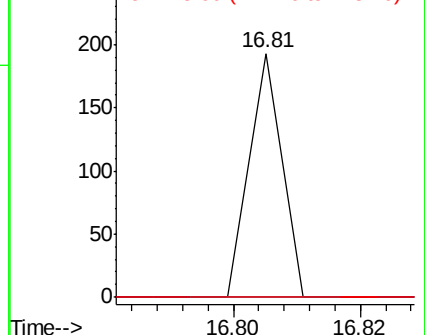


Abundance

Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#74

Di-n-butylphthalate

Concen: Below Cal

RT: 18.35 min Scan# 2598

Delta R.T. 0.00 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

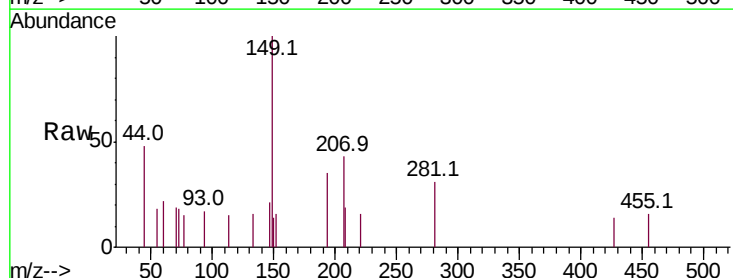
Tgt Ion:149 Resp: 1391

Ion Ratio Lower Upper

149 100

150 14.0 8.2 12.2#

104 0.0 4.8 7.2#

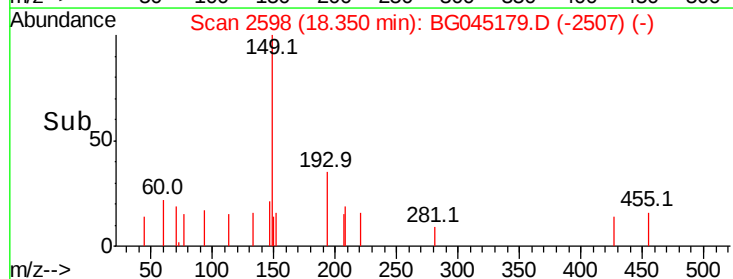
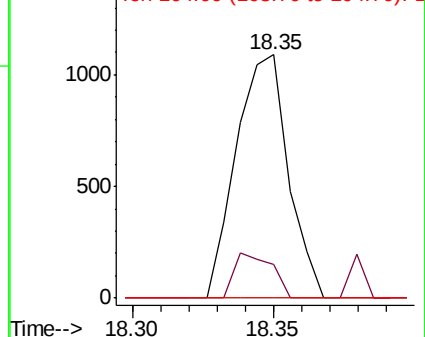


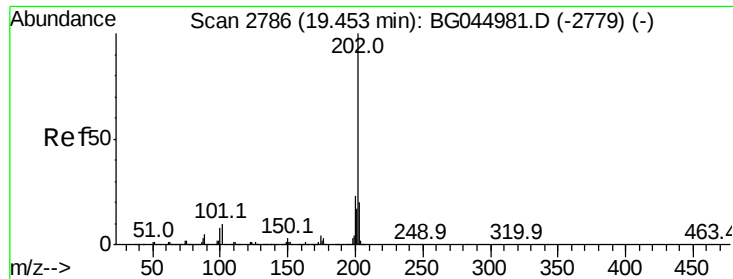
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

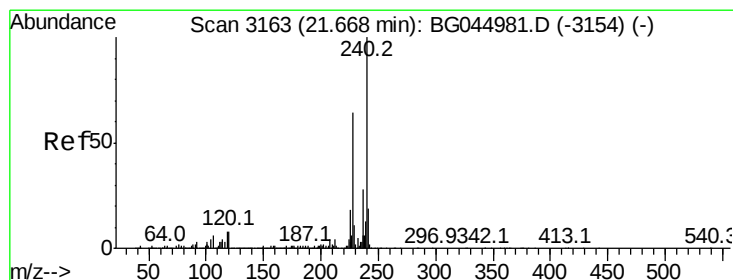
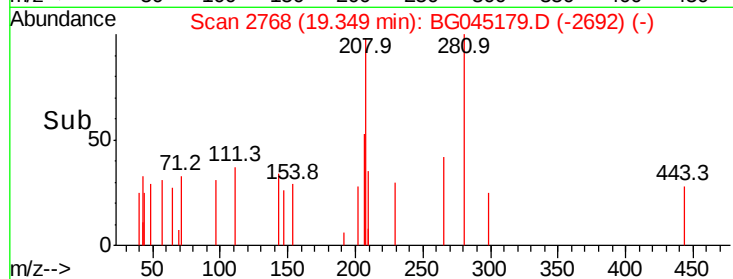
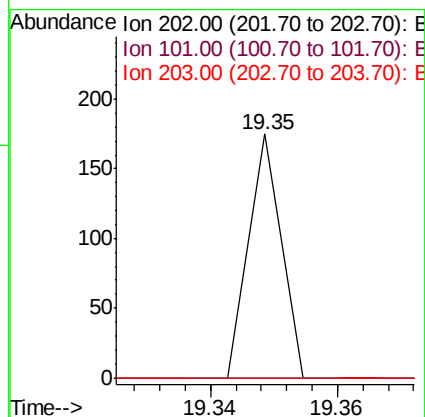
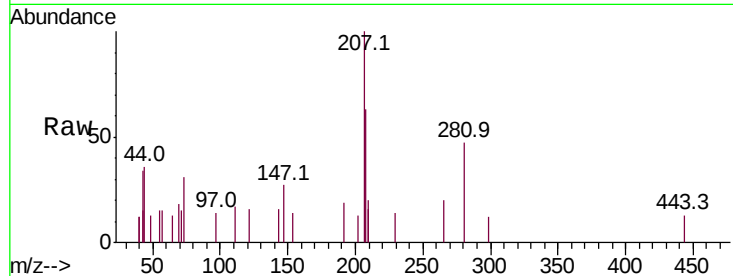




#75  
 Fluoranthene  
 Concen: Below Cal  
 RT: 19.35 min Scan# 2768  
 Delta R.T. -0.09 min  
 Lab File: BG045179.D  
 Acq: 27 Apr 2020 15:15

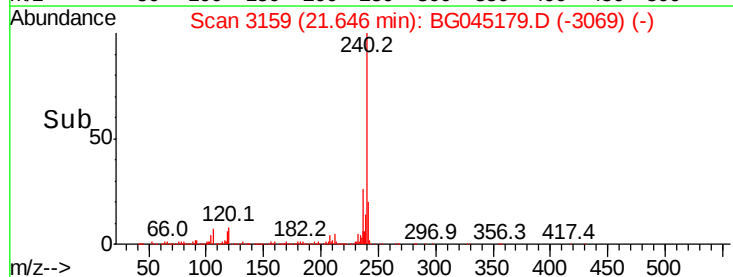
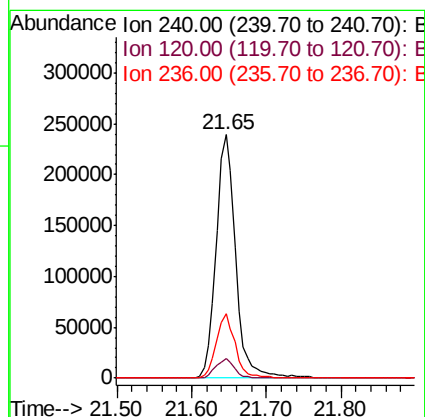
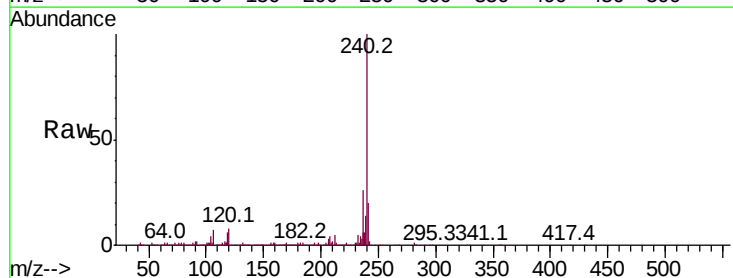
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP1-B

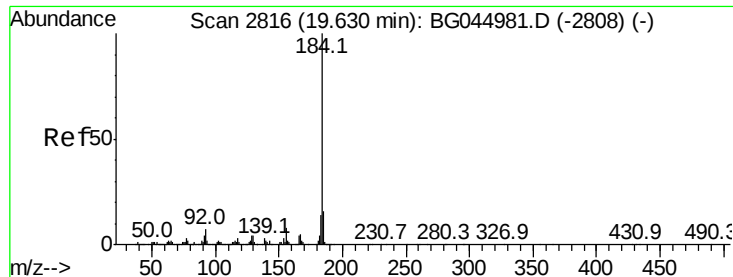
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 202   | Resp: | 62    |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 0.0   | 0.0   | 29.6  |
| 203      | 0.0   | 0.0   | 39.7  |



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.65 min Scan# 3159  
 Delta R.T. -0.00 min  
 Lab File: BG045179.D  
 Acq: 27 Apr 2020 15:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 434013 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 8.1   | 6.6   | 10.0   |
| 236      | 26.4  | 22.2  | 33.2   |





#77

Benzidine

Concen: 10.175 ng

RT: 19.61 min Scan# 2813

Delta R.T. 0.00 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

Instrument :

BNA\_G

ClientSampleId :

SP1-B

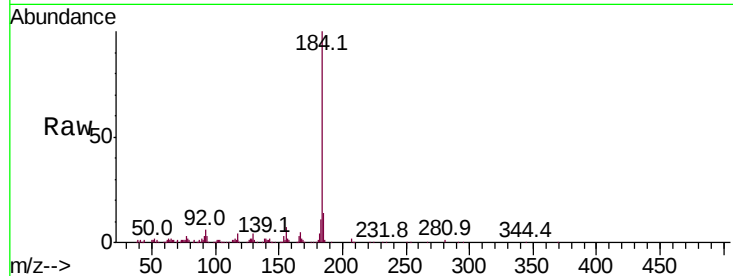
Tot Ion:184 Resp: 185847

Ion Ratio Lower Upper

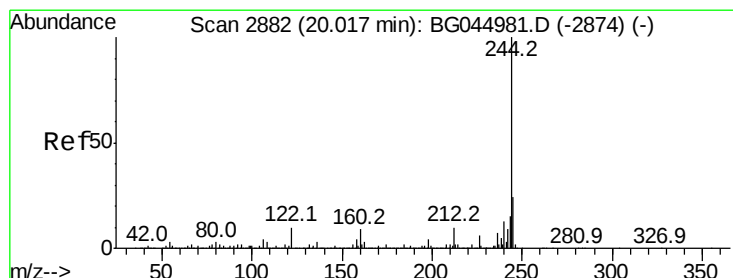
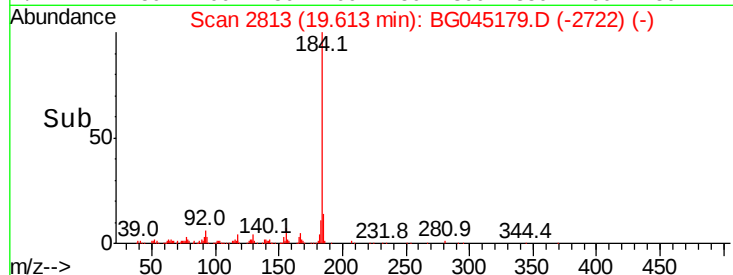
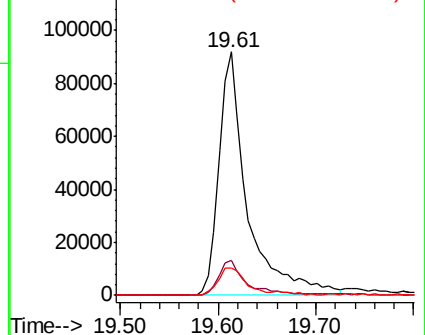
184 100

185 14.2 12.6 19.0

183 11.3 11.3 16.9



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: 112.237 ng

RT: 19.99 min Scan# 2878

Delta R.T. -0.00 min

Lab File: BG045179.D

Acq: 27 Apr 2020 15:15

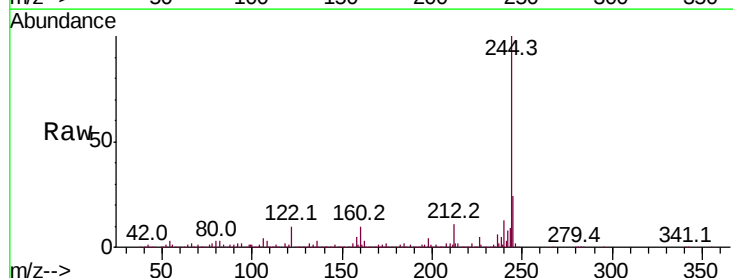
Tgt Ion:244 Resp: 2234954

Ion Ratio Lower Upper

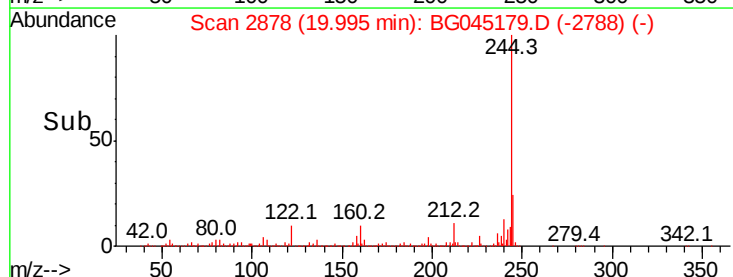
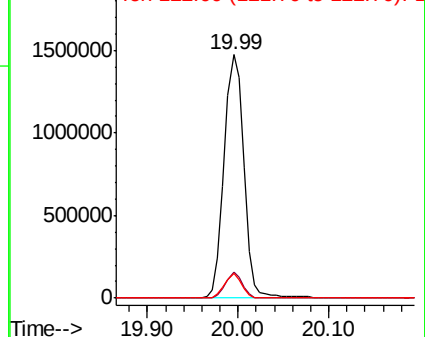
244 100

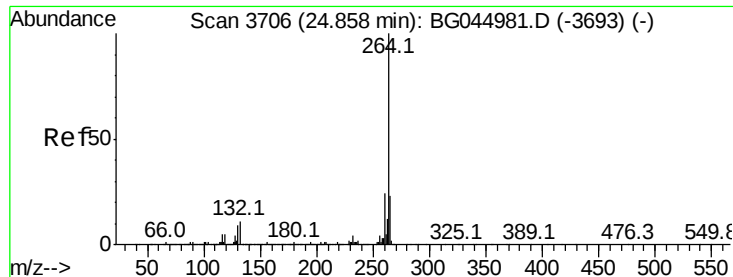
212 10.5 7.9 11.9

122 10.0 7.7 11.5



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: 24.82 min Scan# 3700  
 Delta R.T. -0.00 min  
 Lab File: BG045179.D  
 Acq: 27 Apr 2020 15:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP1-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.2  | 28.8  |
| 265     | 22.5  | 19.0  | 28.4  |

