

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG020420\  
 Data File : BG044294.D  
 Acq On : 4 Feb 2020 23:52  
 Operator : CG/JU  
 Sample : L1360-04  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 05 04:40:14 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 30 16:05:09 2020  
 Response via : Initial Calibration

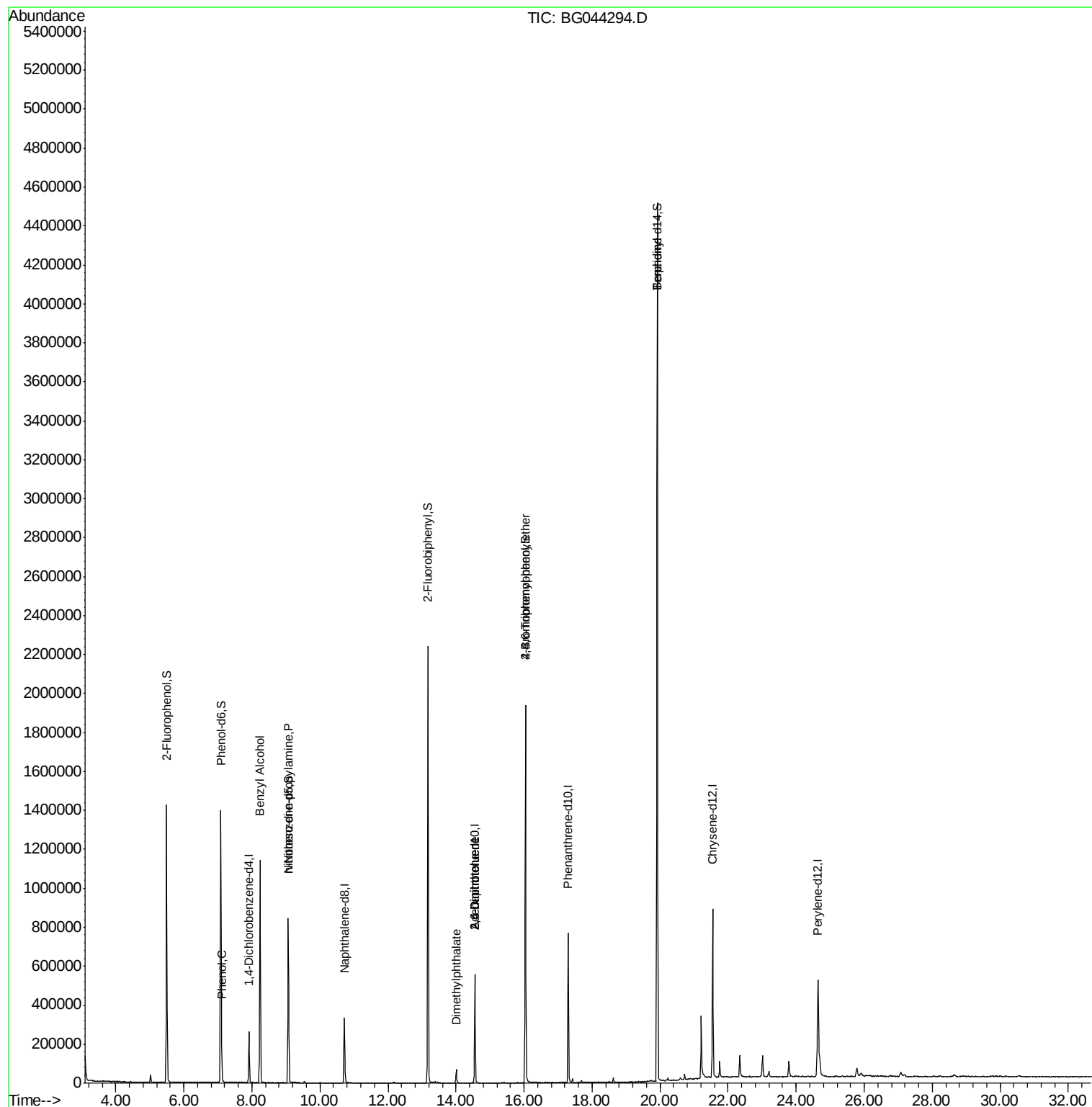
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.91  | 152  | 76802    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.72 | 136  | 311912   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.55 | 164  | 205315   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.30 | 188  | 494257   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.55 | 240  | 495754   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.64 | 264  | 541464   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 684195   | 157.22 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.09  | 99   | 901605   | 154.28 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.07  | 82   | 541963   | 98.10  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.05 | 330  | 379345   | 157.39 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.18 | 172  | 1206720  | 98.42  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.92 | 244  | 2158211  | 89.54  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.12  | 94   | 12498    | 2.161  | ng    | 83       |
| 15) Benzyl Alcohol             | 8.24  | 79   | 9109     | 2.202  | ng    | # 48     |
| 19) n-Nitroso-di-n-propylamine | 9.07  | 70   | 70307    | 18.052 | ng    | # 78     |
| 50) Dimethylphthalate          | 14.01 | 163  | 55316    | 3.748  | ng    | 98       |
| 51) 2,6-Dinitrotoluene         | 14.55 | 165  | 27109    | 8.238  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 14.55 | 165  | 27109    | 5.878  | ng    | # 27     |
| 67) 4-Bromophenyl-phenylether  | 16.04 | 248  | 26320    | 4.888  | ng    | # 1      |
| 77) Benzidine                  | 19.92 | 184  | 38650    | 2.811  | ng    | # 92     |

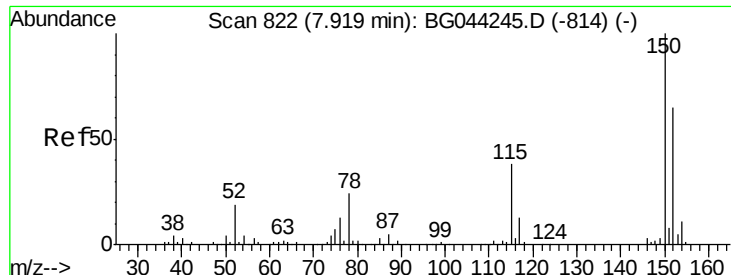
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
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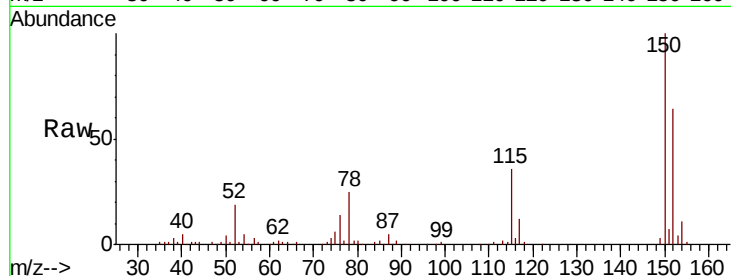


#1

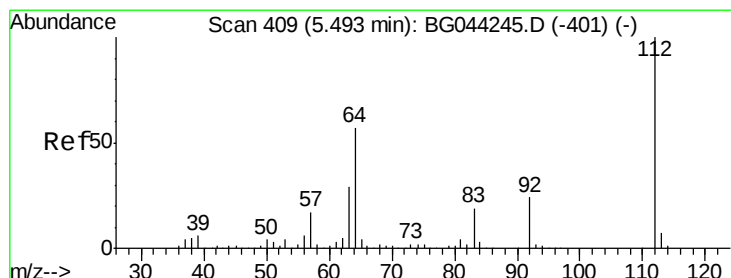
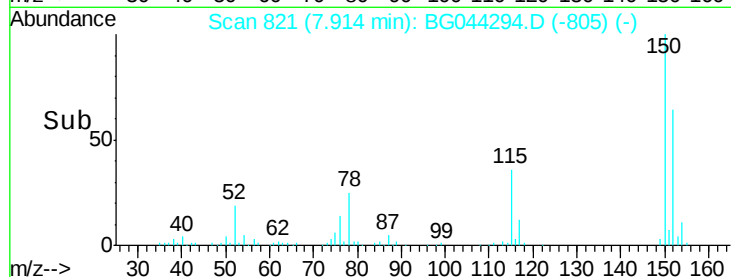
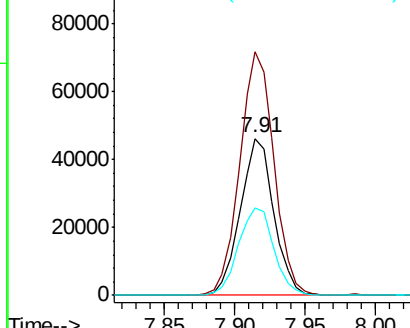
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.91 min Scan# 821  
 Delta R.T. -0.01 min  
 Lab File: BG044294.D  
 Acq: 4 Feb 2020 23:52

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.3 | 122.6 | 183.8 |
| 115     | 55.6  | 46.0  | 69.0  |



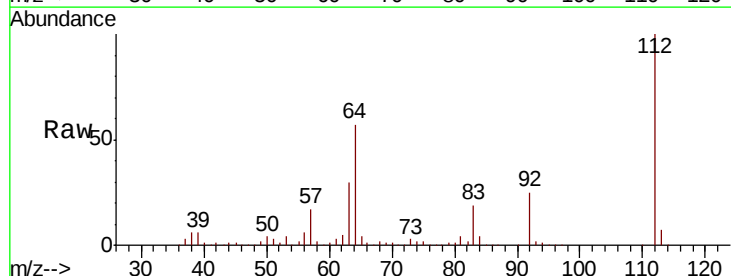
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



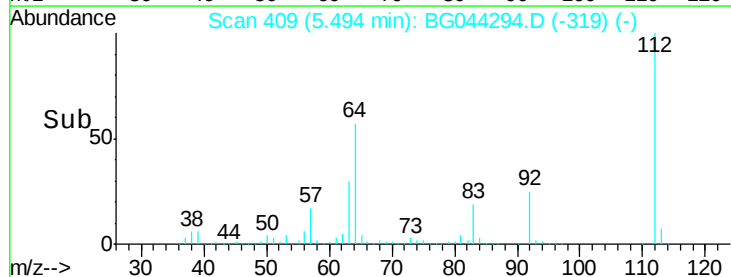
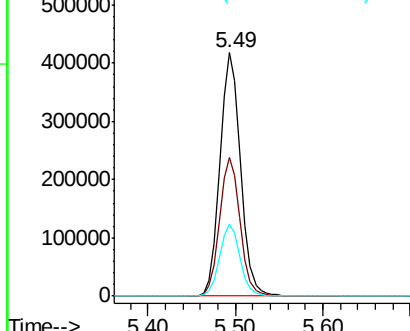
#5

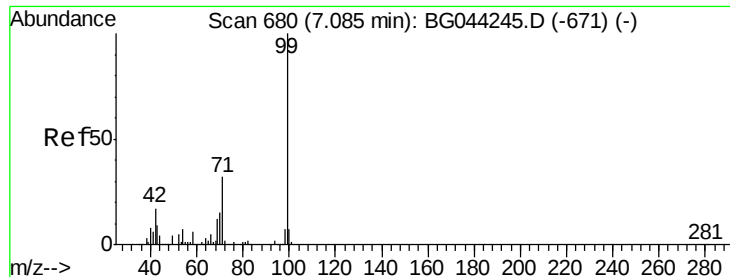
2-Fluorophenol  
 Concen: 157.222 ng  
 RT: 5.49 min Scan# 409  
 Delta R.T. 0.00 min  
 Lab File: BG044294.D  
 Acq: 4 Feb 2020 23:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.2  | 45.4  | 68.2  |
| 63      | 29.8  | 22.9  | 34.3  |



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: 154.284 ng

RT: 7.09 min Scan# 680

Delta R.T. 0.00 min

Lab File: BG044294.D

Acq: 4 Feb 2020 23:52

Instrument :

BNA\_G

ClientSampleId :

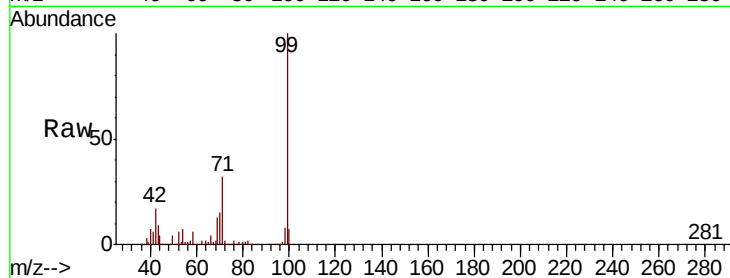
Tot Ion: 99 Resp: 901605

Ion Ratio Lower Upper

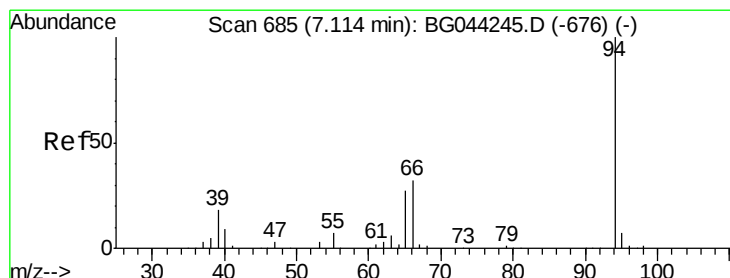
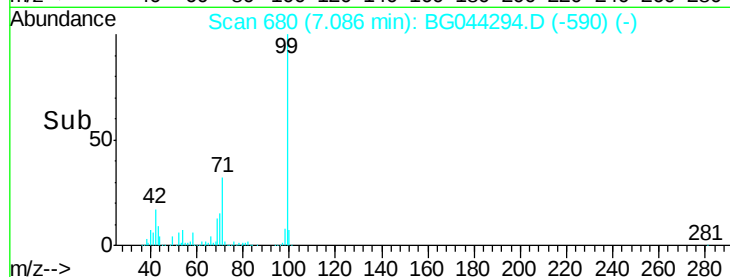
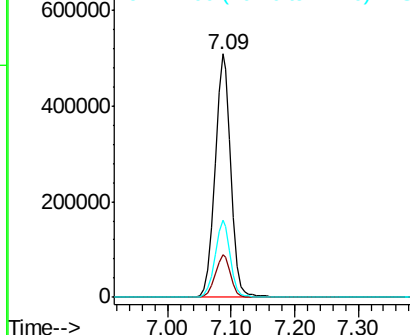
99 100

42 17.4 13.8 20.6

71 31.8 25.5 38.3



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: 2.161 ng

RT: 7.12 min Scan# 685

Delta R.T. 0.00 min

Lab File: BG044294.D

Acq: 4 Feb 2020 23:52

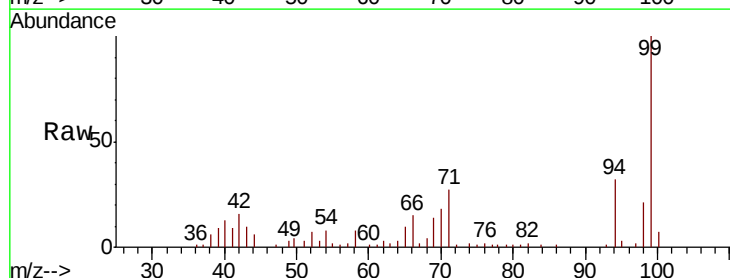
Tgt Ion: 94 Resp: 12498

Ion Ratio Lower Upper

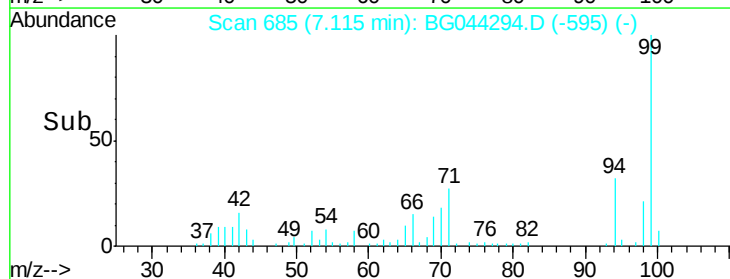
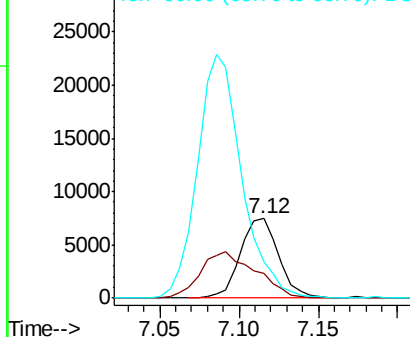
94 100

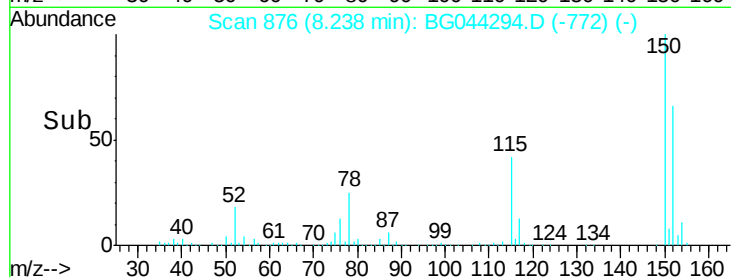
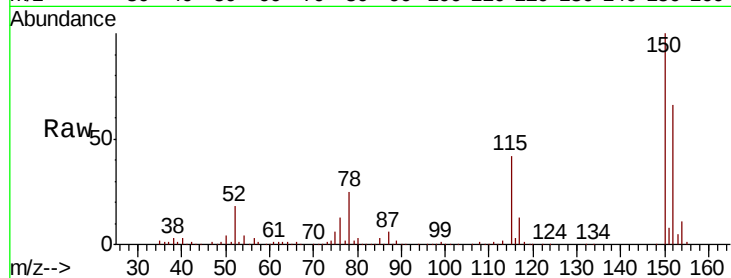
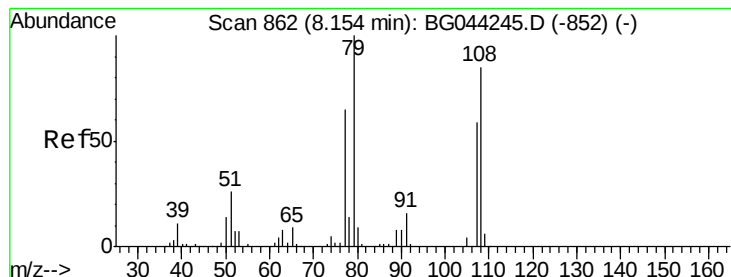
65 30.8 7.0 47.0

66 46.3 12.7 52.7



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





#15

Benzyl Alcohol

Concen: 2.202 ng

RT: 8.24 min Scan# 876

Delta R.T. 0.08 min

Lab File: BG044294.D

Acq: 4 Feb 2020 23:52

Instrument :

BNA\_G

ClientSampleId :

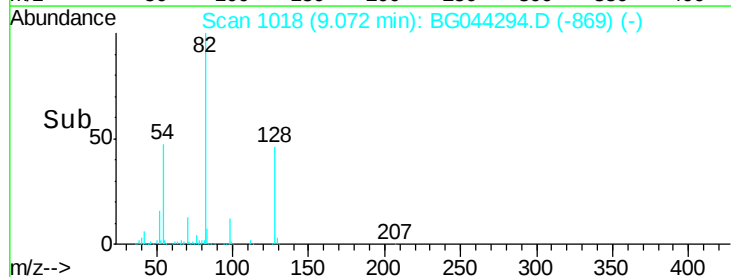
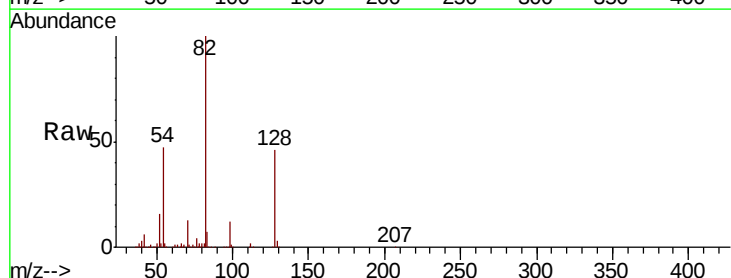
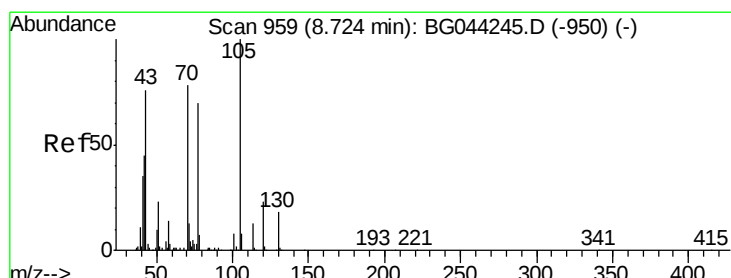
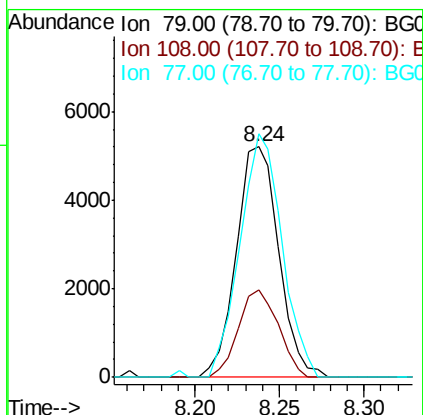
Tot Ion: 79 Resp: 9109

Ion Ratio Lower Upper

79 100

108 37.9 68.3 102.5#

77 105.6 51.8 77.8#



#19

n-Nitroso-di-n-propylamine

Concen: 18.052 ng

RT: 9.07 min Scan# 1018

Delta R.T. 0.35 min

Lab File: BG044294.D

Acq: 4 Feb 2020 23:52

Tgt Ion: 70 Resp: 70307

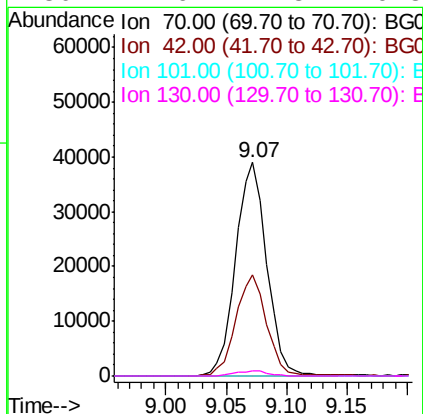
Ion Ratio Lower Upper

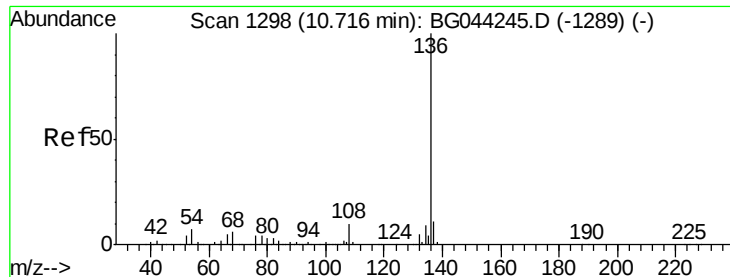
70 100

42 47.6 46.2 69.2

101 0.0 8.4 12.6#

130 2.6 17.8 26.8#

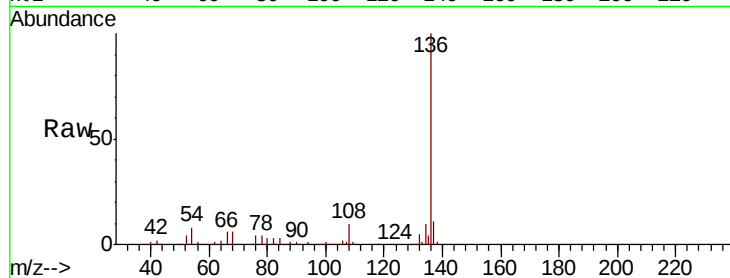




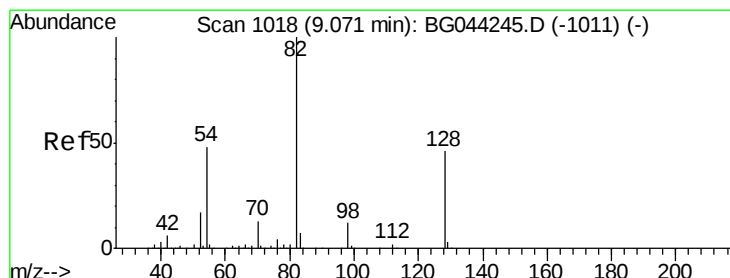
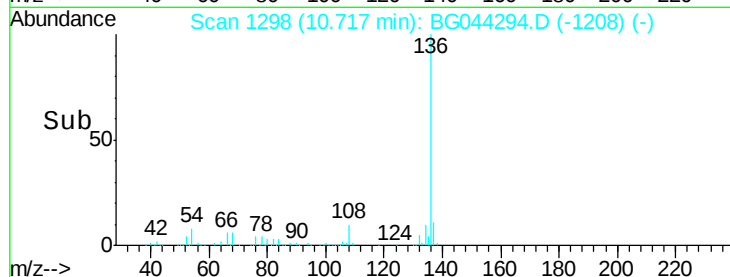
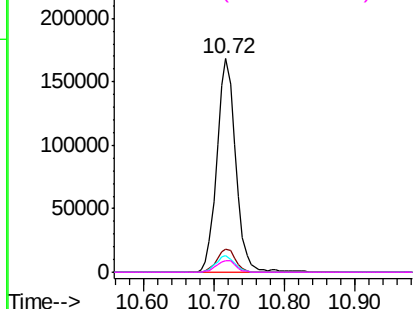
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.72 min Scan# 1298  
Delta R.T. 0.00 min  
Lab File: BG044294.D  
Acq: 4 Feb 2020 23:52

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 311912 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 10.5    | 8.8   | 13.2   |
| 54 7.6      | 5.8   | 8.8    |
| 68 5.5      | 4.6   | 6.8    |

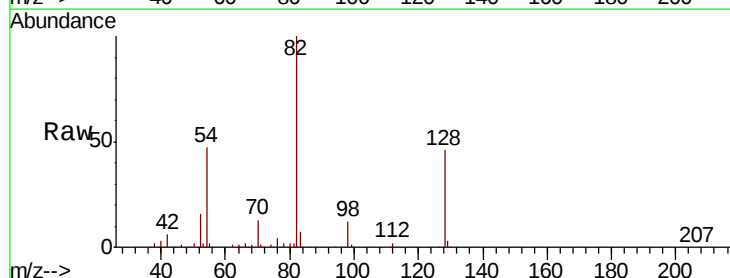


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

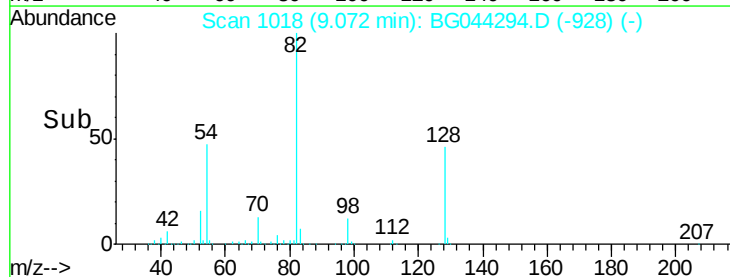
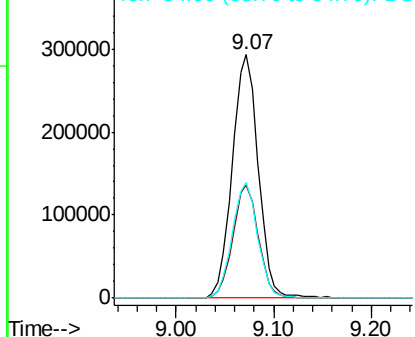


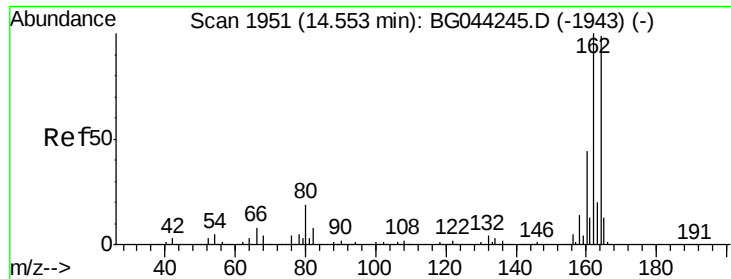
#23  
Nitrobenzene-d5  
Concen: 98.096 ng  
RT: 9.07 min Scan# 1018  
Delta R.T. 0.00 min  
Lab File: BG044294.D  
Acq: 4 Feb 2020 23:52

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 541963 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 46.3    | 36.5  | 54.7   |
| 54  | 47.4    | 38.6  | 58.0   |



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

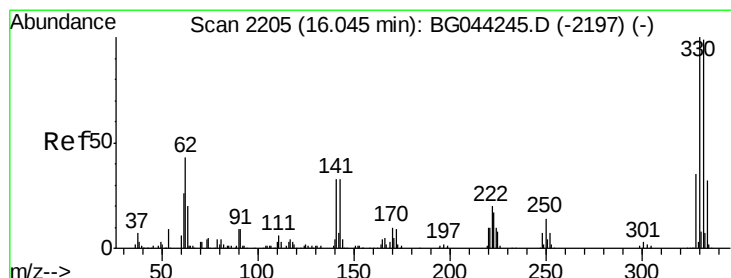
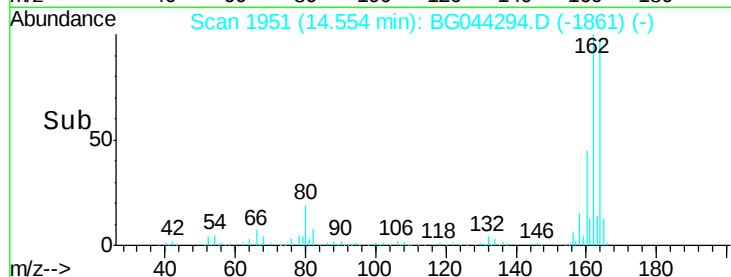
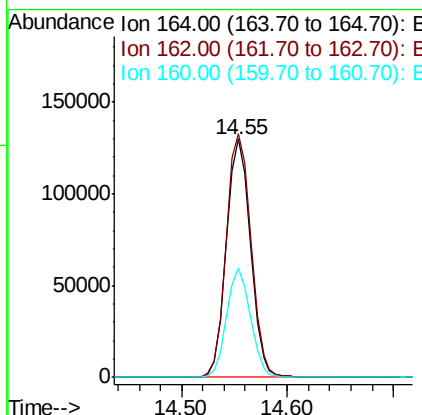
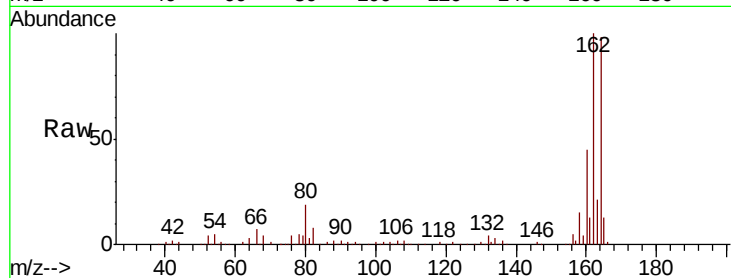




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.55 min Scan# 1951  
Delta R.T. 0.00 min  
Lab File: BG044294.D  
Acq: 4 Feb 2020 23:52

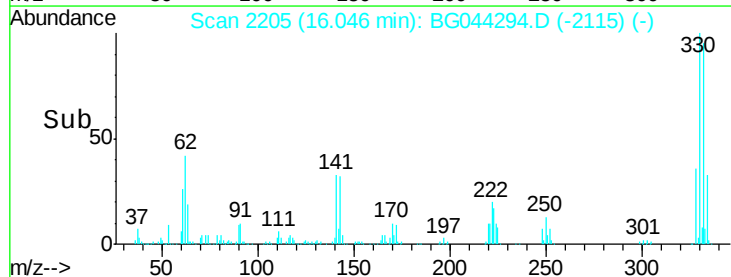
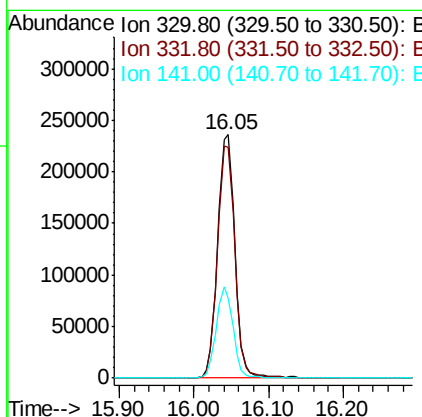
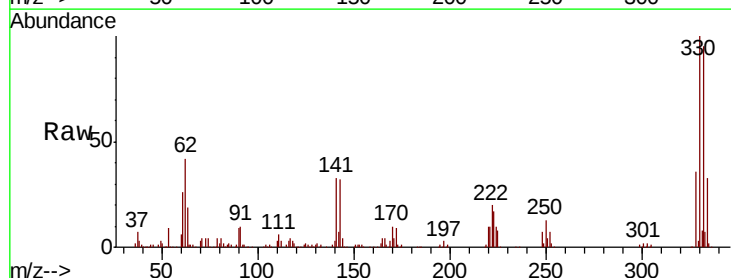
Instrument :  
BNA\_G  
ClientSampleId :

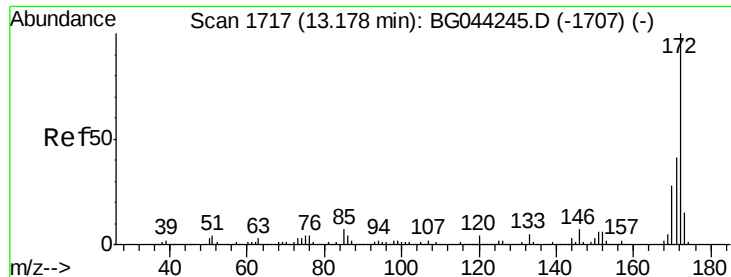
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.3 | 80.7  | 121.1 |
| 160     | 46.0  | 35.3  | 52.9  |



#42  
2,4,6-Tribromophenol  
Concen: 157.386 ng  
RT: 16.05 min Scan# 2205  
Delta R.T. 0.00 min  
Lab File: BG044294.D  
Acq: 4 Feb 2020 23:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 77.2  | 115.8 |
| 141     | 36.7  | 28.3  | 42.5  |

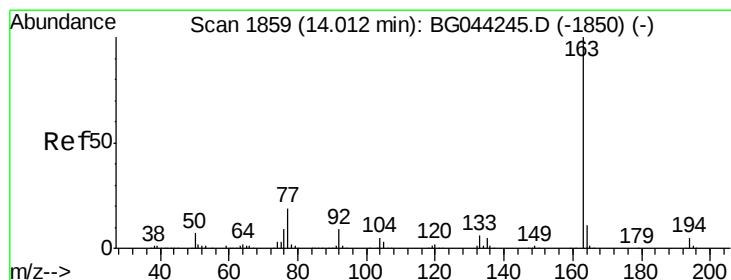
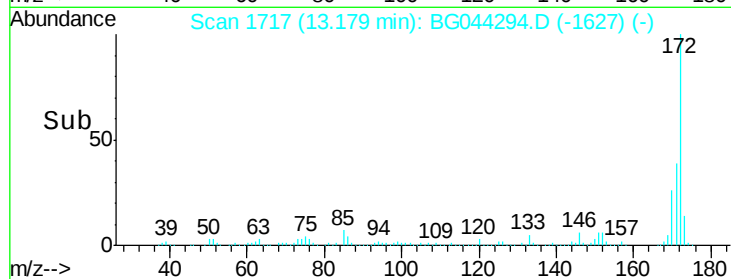
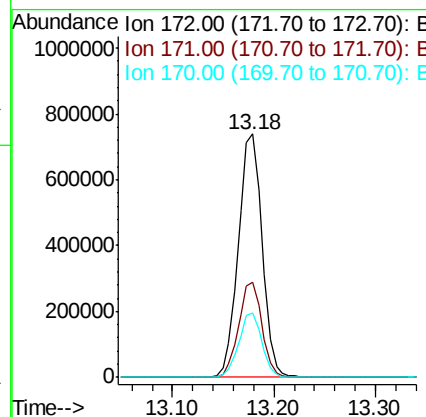
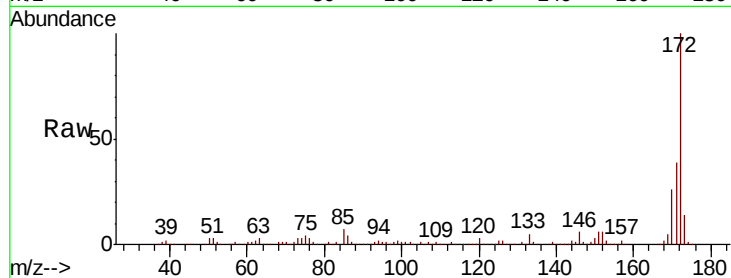




#45  
2-Fluorobiphenyl  
Concen: 98.420 ng  
RT: 13.18 min Scan# 1717  
Delta R.T. 0.00 min  
Lab File: BG044294.D  
Acq: 4 Feb 2020 23:52

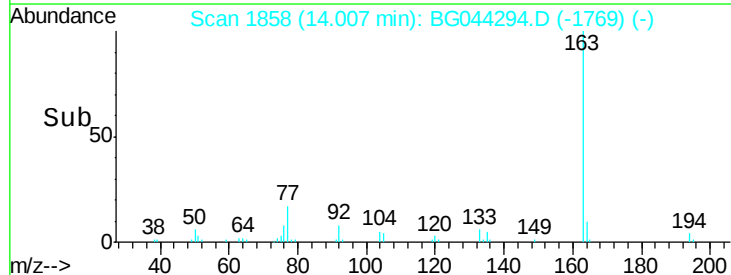
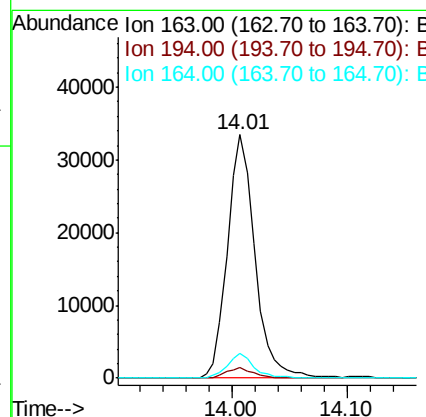
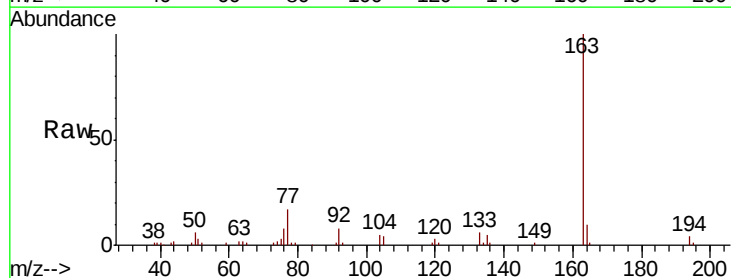
Instrument :  
BNA\_G  
ClientSampleId :

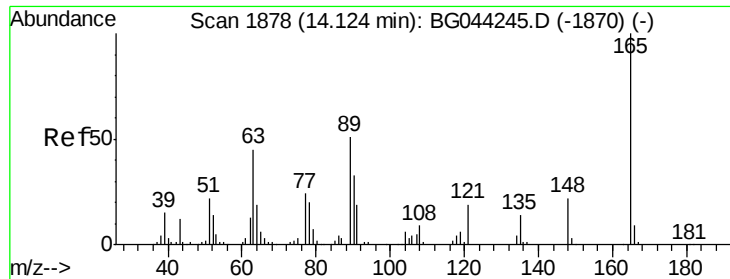
Tot Ion:172 Resp: 1206720  
Ion Ratio Lower Upper  
172 100  
171 39.2 32.9 49.3  
170 26.4 22.0 33.0



#50  
Dimethylphthalate  
Concen: 3.748 ng  
RT: 14.01 min Scan# 1858  
Delta R.T. -0.01 min  
Lab File: BG044294.D  
Acq: 4 Feb 2020 23:52

Tgt Ion:163 Resp: 55316  
Ion Ratio Lower Upper  
163 100  
194 4.5 3.6 5.4  
164 10.0 8.7 13.1

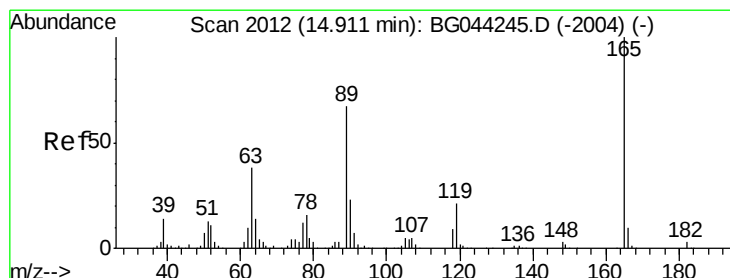
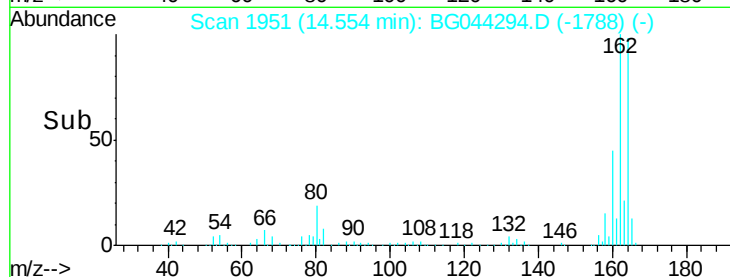
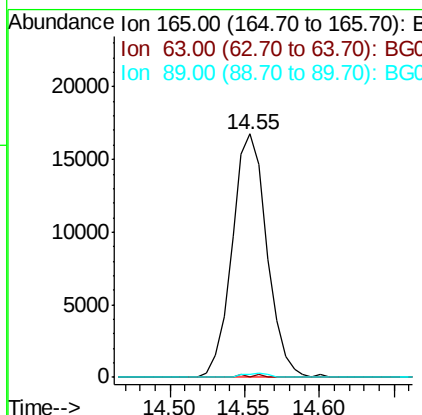
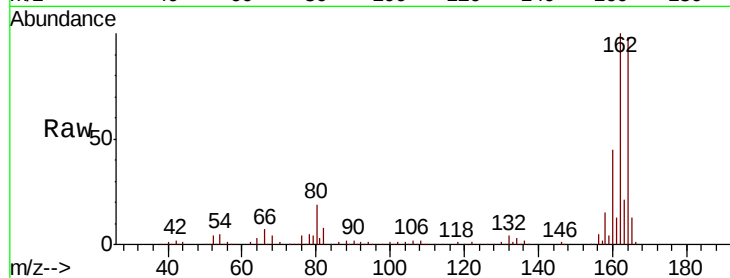




#51  
 2,6-Dinitrotoluene  
 Concen: 8.238 ng  
 RT: 14.55 min Scan# 1951  
 Delta R.T. 0.43 min  
 Lab File: BG044294.D  
 Acq: 4 Feb 2020 23:52

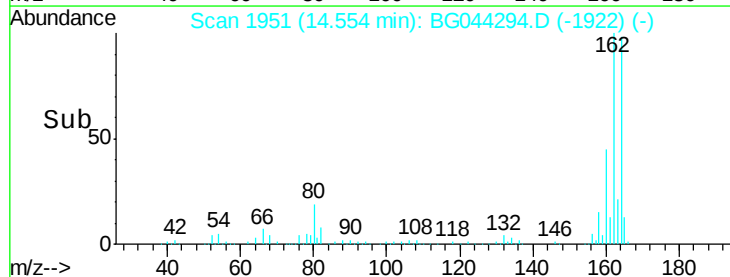
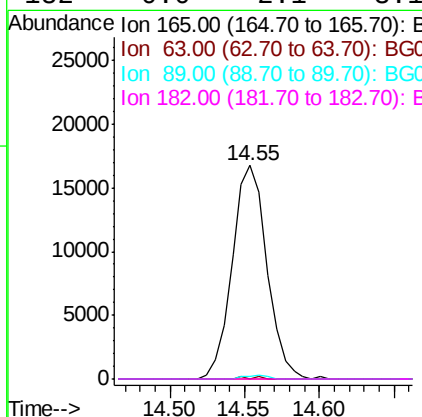
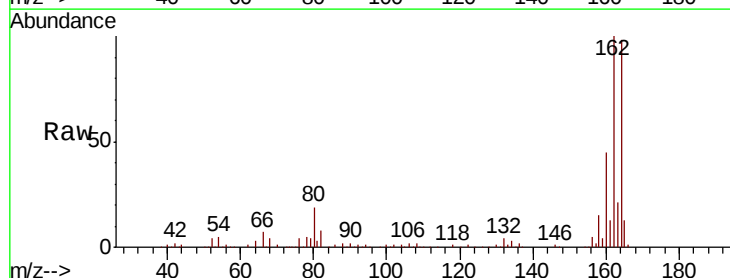
Instrument :  
 BNA\_G  
 ClientSampleId :

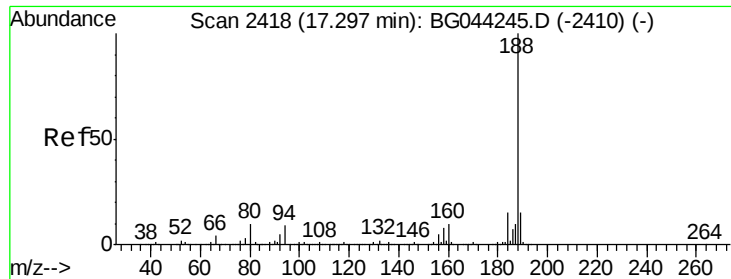
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 38.7  | 58.1# |
| 89      | 1.4   | 40.4  | 60.6# |



#57  
 2,4-Dinitrotoluene  
 Concen: 5.878 ng  
 RT: 14.55 min Scan# 1951  
 Delta R.T. -0.36 min  
 Lab File: BG044294.D  
 Acq: 4 Feb 2020 23:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 30.3  | 45.5# |
| 89      | 1.4   | 53.4  | 80.2# |
| 182     | 0.0   | 2.1   | 3.1#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.30 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BG044294.D

Acq: 4 Feb 2020 23:52

Instrument :

BNA\_G

ClientSampleId :

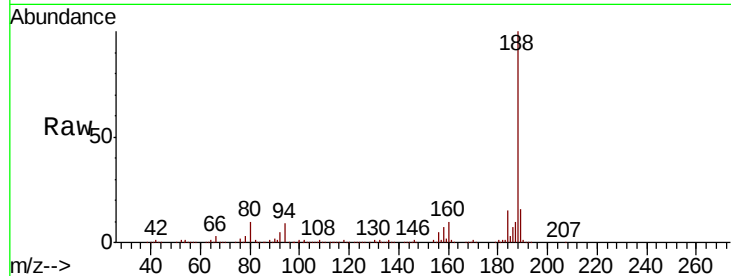
Tot Ion:188 Resp: 494257

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 9.0   | 7.4   | 11.2  |
| 80  | 9.7   | 7.7   | 11.5  |

188 100

94 9.0 7.4 11.2

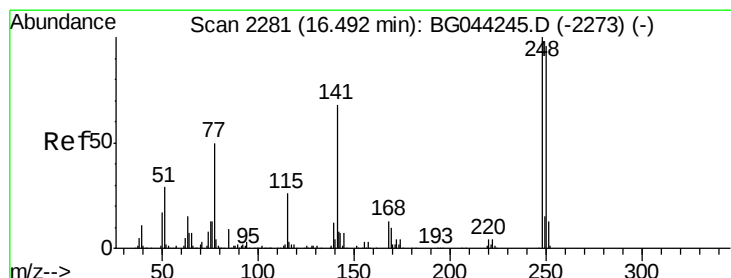
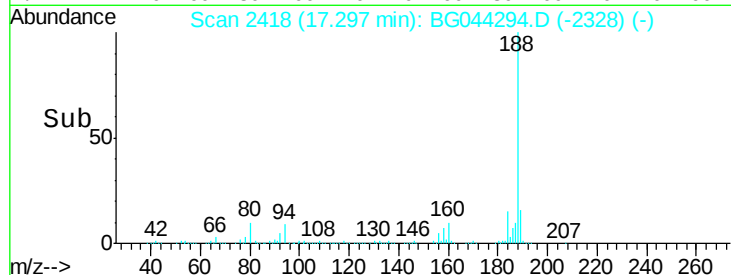
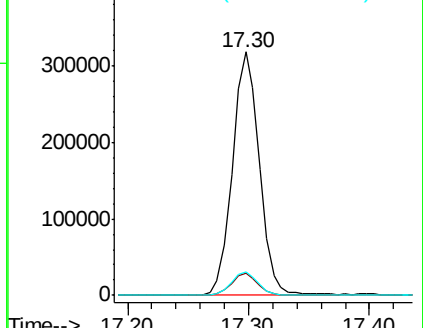
80 9.7 7.7 11.5



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: 4.888 ng

RT: 16.04 min Scan# 2204

Delta R.T. -0.45 min

Lab File: BG044294.D

Acq: 4 Feb 2020 23:52

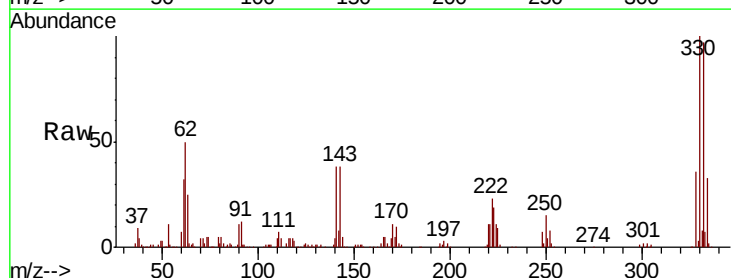
Tgt Ion:248 Resp: 26320

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 248 | 100   |       |        |
| 250 | 211.3 | 76.6  | 114.8# |
| 141 | 537.0 | 54.7  | 82.1#  |

248 100

250 211.3 76.6 114.8#

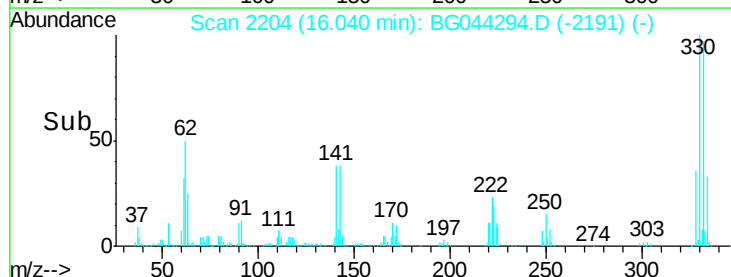
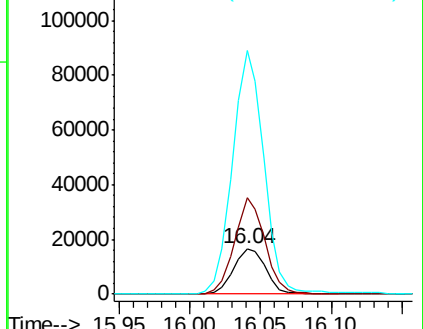
141 537.0 54.7 82.1#

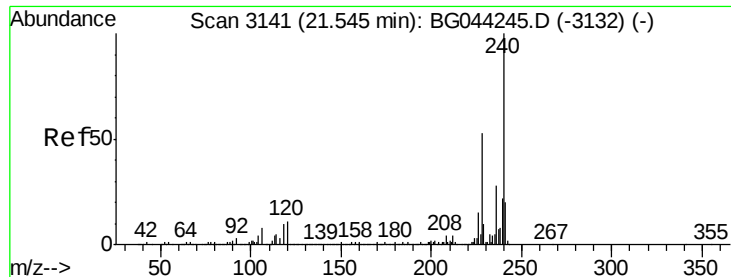


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

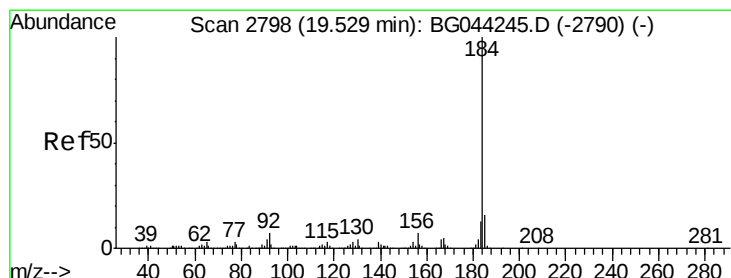
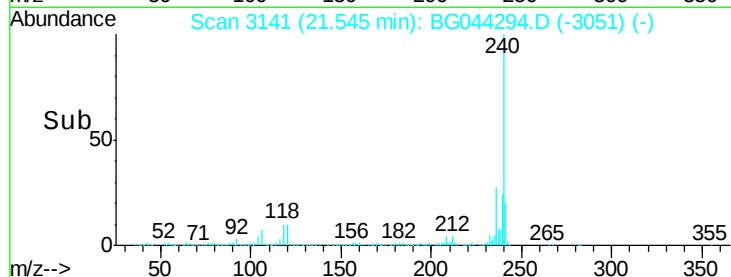
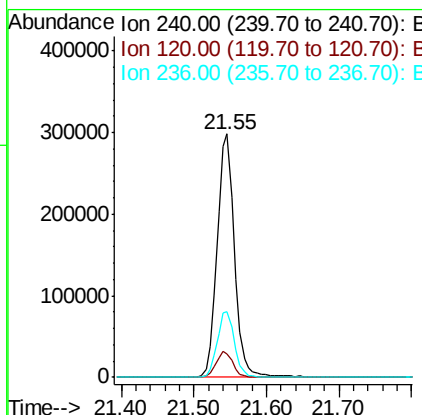
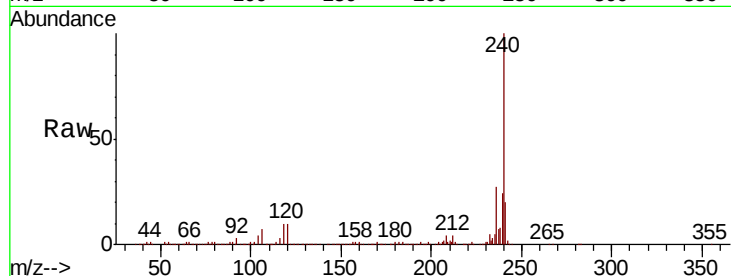




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.55 min Scan# 3141  
Delta R.T. 0.00 min  
Lab File: BG044294.D  
Acq: 4 Feb 2020 23:52

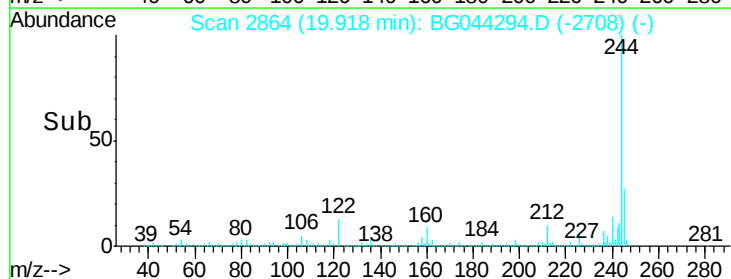
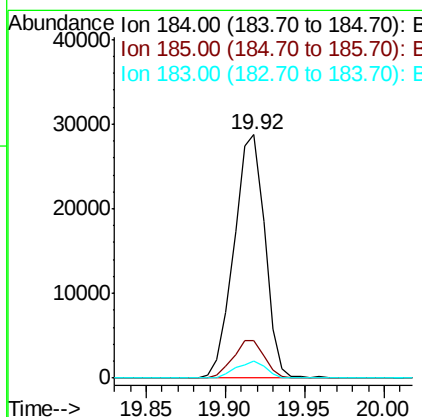
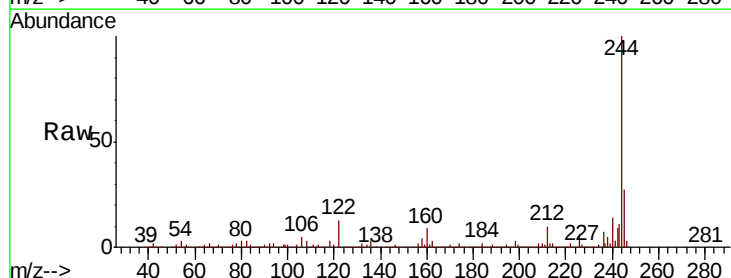
Instrument :  
BNA\_G  
ClientSampleId :

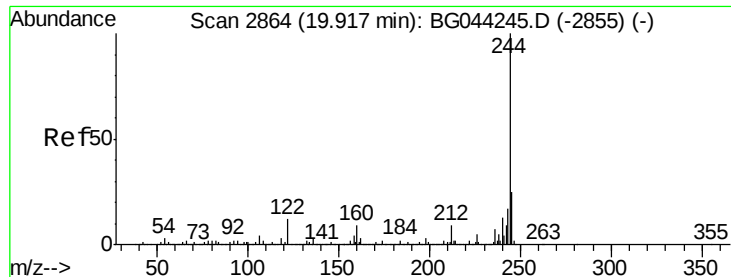
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.7   | 8.4   | 12.6  |
| 236     | 26.8  | 22.1  | 33.1  |



#77  
Benzidine  
Concen: 2.811 ng  
RT: 19.92 min Scan# 2864  
Delta R.T. 0.39 min  
Lab File: BG044294.D  
Acq: 4 Feb 2020 23:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 15.7  | 12.9  | 19.3  |
| 183     | 7.1   | 10.8  | 16.2# |





#79

Terphenyl-d14

Concen: 89.544 ng

RT: 19.92 min Scan# 2864

Delta R.T. 0.00 min

Lab File: BG044294.D

Acq: 4 Feb 2020 23:52

Instrument :

BNA\_G

ClientSampleId :

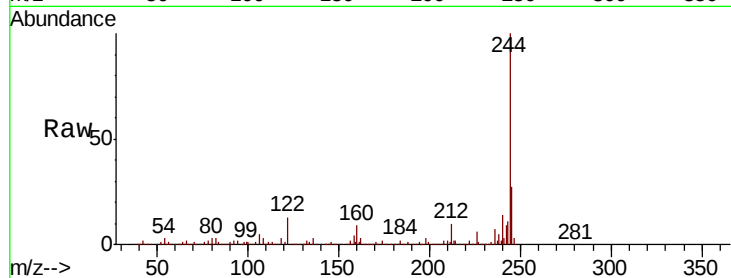
Tot Ion:244 Resp: 2158211

Ion Ratio Lower Upper

244 100

212 9.8 7.4 11.2

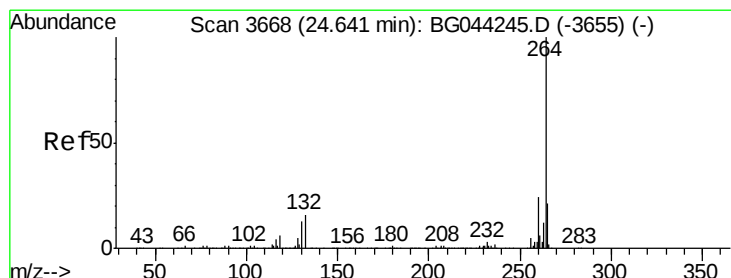
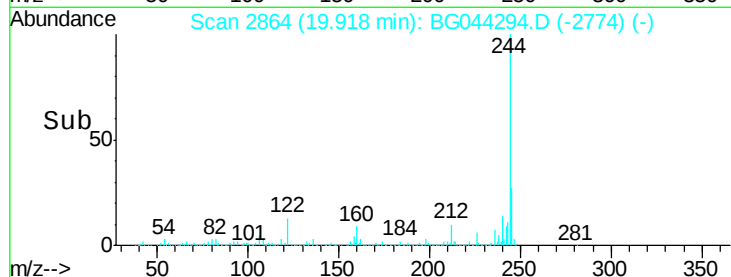
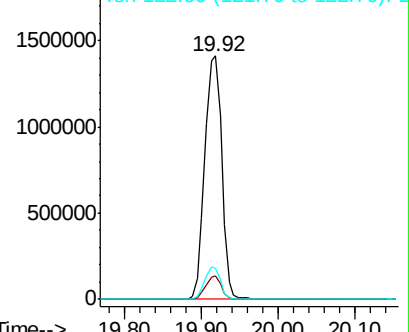
122 13.0 9.8 14.6



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: 24.64 min Scan# 3668

Delta R.T. 0.00 min

Lab File: BG044294.D

Acq: 4 Feb 2020 23:52

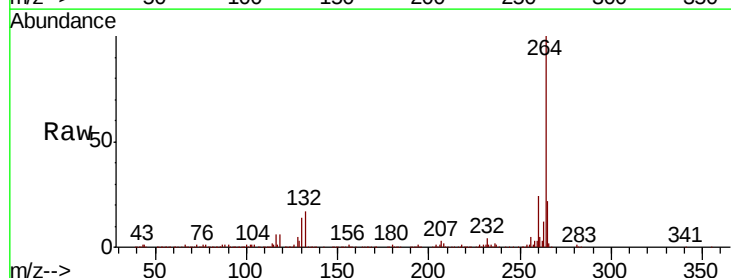
Tgt Ion:264 Resp: 541464

Ion Ratio Lower Upper

264 100

260 24.4 19.4 29.2

265 22.2 16.7 25.1



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

