

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011320\  
 Data File : BG044024.D  
 Acq On : 13 Jan 2020 22:57  
 Operator : JU  
 Sample : L1074-02  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 14 10:17:01 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 31 13:32:23 2019  
 Response via : Initial Calibration

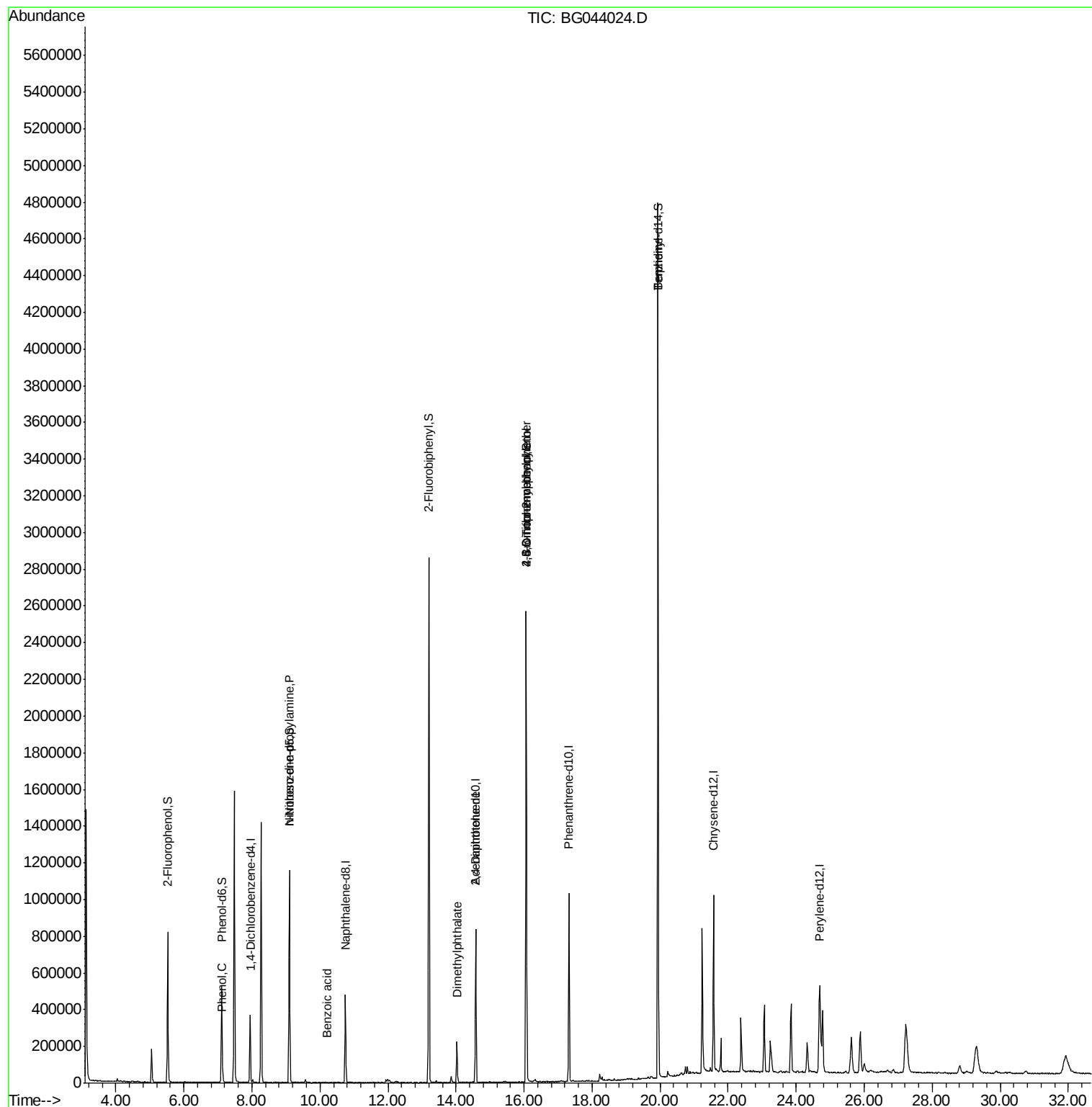
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.95  | 152  | 109570   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.74 | 136  | 448899   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.58 | 164  | 286811   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.32 | 188  | 631384   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.57 | 240  | 574769   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 24.69 | 264  | 631482   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.52  | 112  | 403559   | 67.63  | ng    | -0.02    |
| 7) Phenol-d6                   | 7.11  | 99   | 341409   | 40.93  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.10  | 82   | 731087   | 87.12  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.06 | 330  | 478093   | 159.29 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.20 | 172  | 1531751  | 96.76  | ng    | -0.02    |
| 79) Terphenyl-d14              | 19.93 | 244  | 2369661  | 105.72 | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.14  | 94   | 27303    | 3.177  | ng    | 94       |
| 19) n-Nitroso-di-n-propylamine | 9.10  | 70   | 95506    | 15.374 | ng    | # 79     |
| 32) Benzoic acid               | 10.22 | 122  | 54       | 6.272  | ng    | # 1      |
| 50) Dimethylphthalate          | 14.03 | 163  | 163310   | 8.019  | ng    | 97       |
| 57) 2,4-Dinitrotoluene         | 14.58 | 165  | 37867    | 6.046  | ng    | # 27     |
| 65) 4,6-Dinitro-2-methylphenol | 16.06 | 198  | 1630     | 4.845  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 16.06 | 248  | 34445    | 4.851  | ng    | # 1      |
| 77) Benzidine                  | 19.93 | 184  | 43751    | 3.028  | ng    | # 92     |

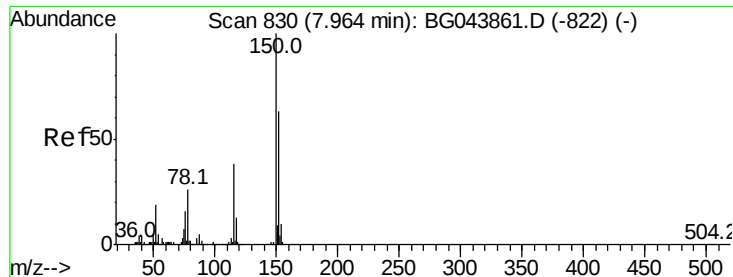
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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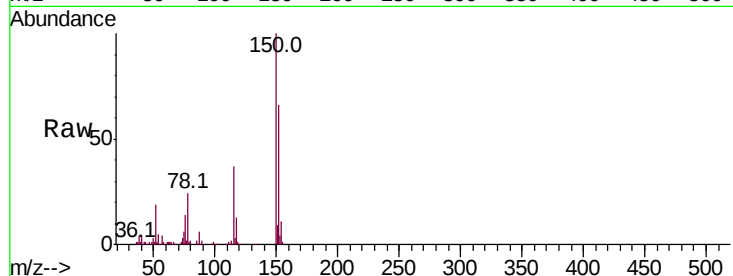


#1

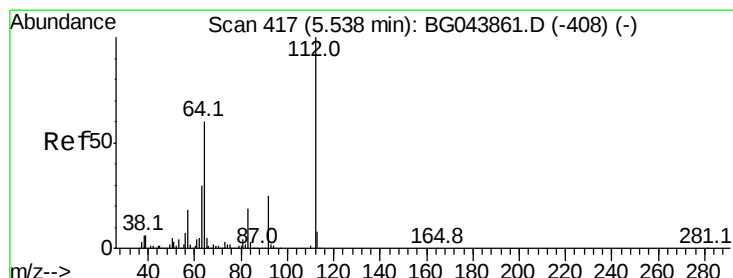
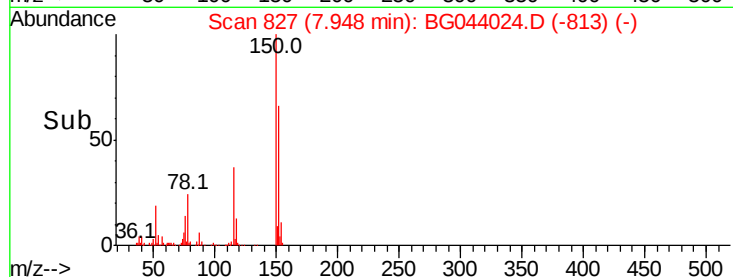
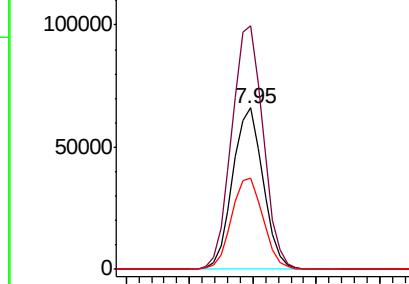
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.95 min Scan# 827  
Delta R.T. -0.02 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.7 | 127.0 | 190.4 |
| 115     | 56.2  | 47.8  | 71.8  |



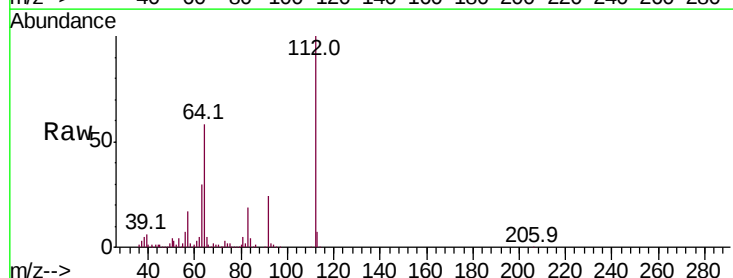
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



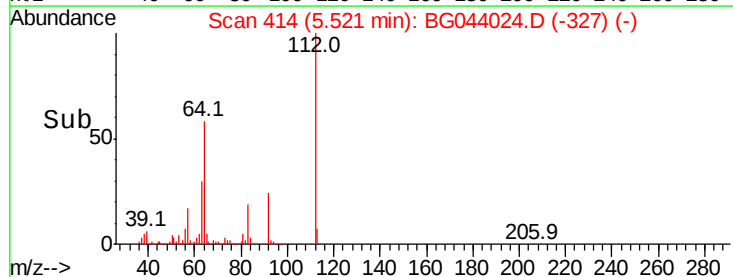
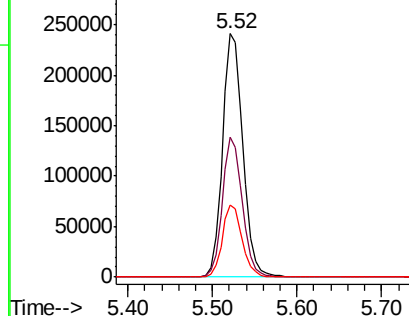
#5

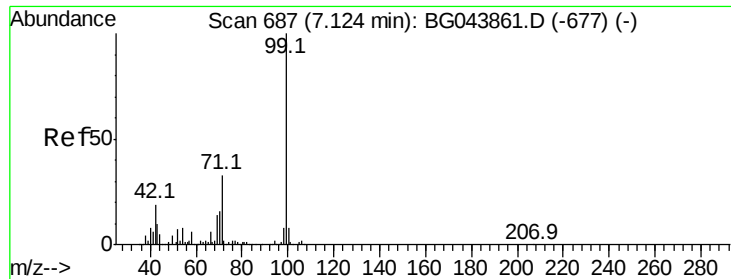
2-Fluorophenol  
Concen: 67.626 ng  
RT: 5.52 min Scan# 414  
Delta R.T. -0.02 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.5  | 47.8  | 71.6  |
| 63      | 29.6  | 24.3  | 36.5  |



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: 40.929 ng

RT: 7.11 min Scan# 684

Delta R.T. -0.02 min

Lab File: BG044024.D

Acq: 13 Jan 2020 22:57

Instrument :

BNA\_G

ClientSampleId :

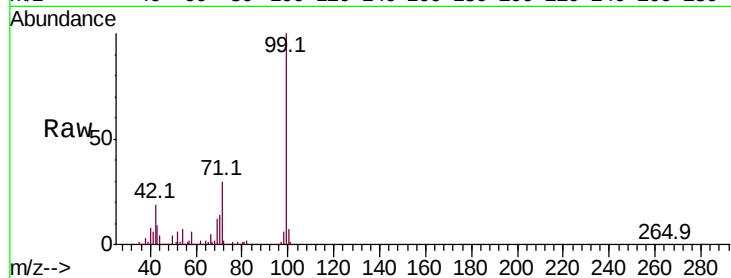
Tot Ion: 99 Resp: 341409

Ion Ratio Lower Upper

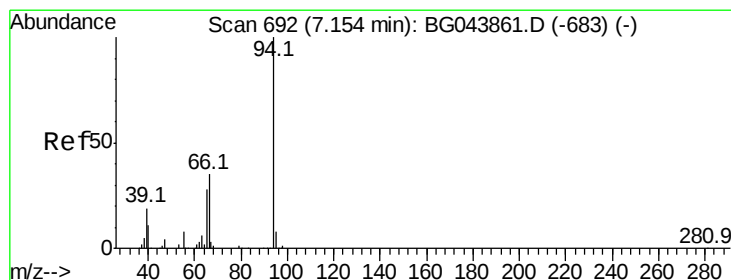
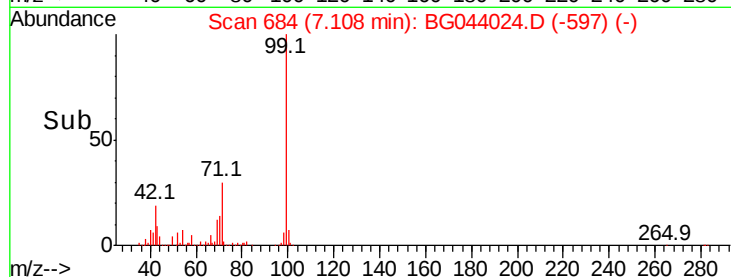
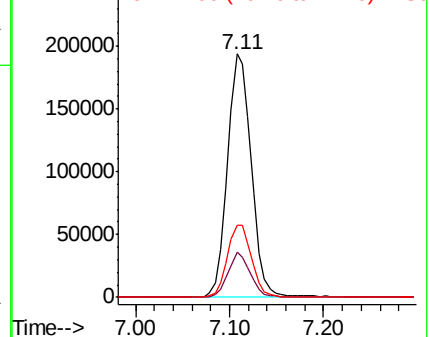
99 100

42 18.6 14.9 22.3

71 29.7 26.4 39.6



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: 3.177 ng

RT: 7.14 min Scan# 689

Delta R.T. -0.02 min

Lab File: BG044024.D

Acq: 13 Jan 2020 22:57

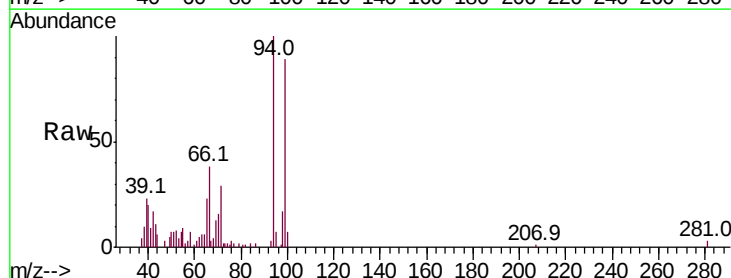
Tgt Ion: 94 Resp: 27303

Ion Ratio Lower Upper

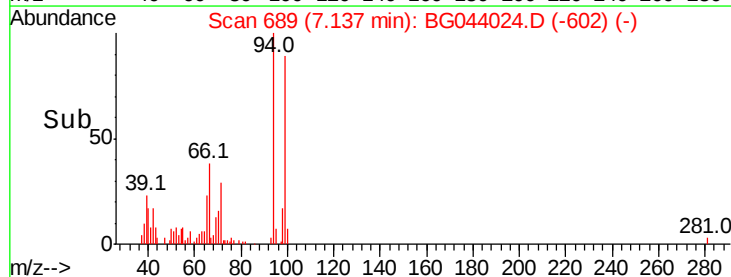
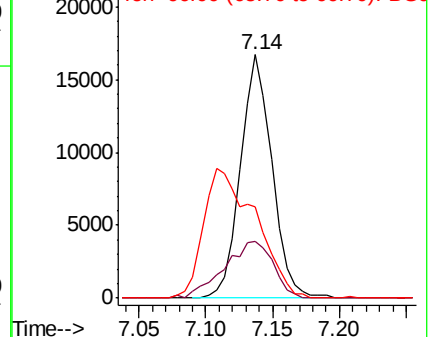
94 100

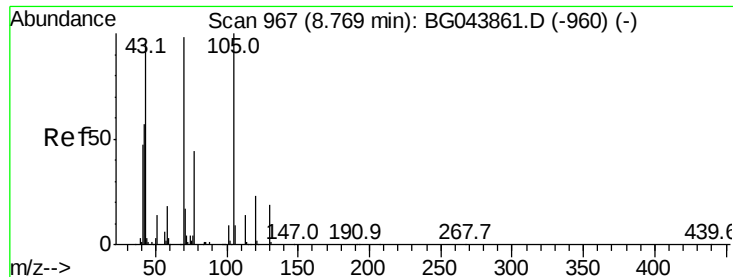
65 23.3 8.1 48.1

66 37.7 15.6 55.6



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

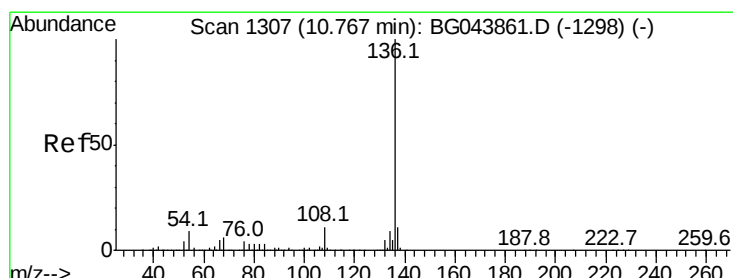
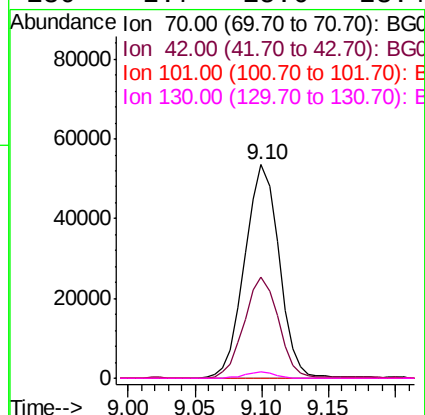
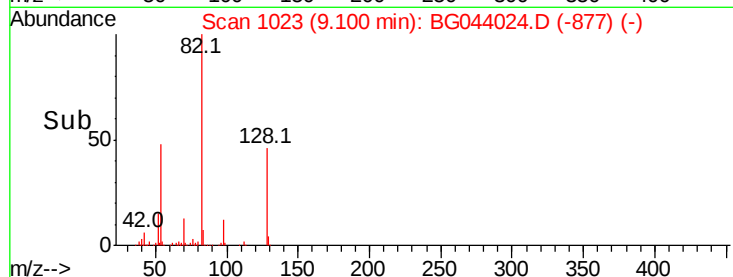
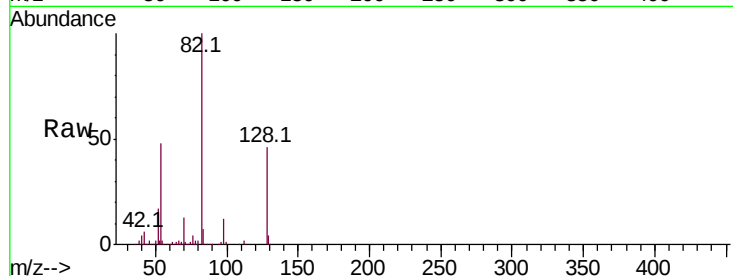




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.374 ng  
RT: 9.10 min Scan# 1023  
Delta R.T. 0.33 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

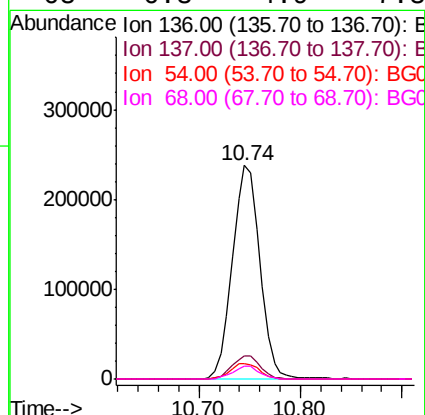
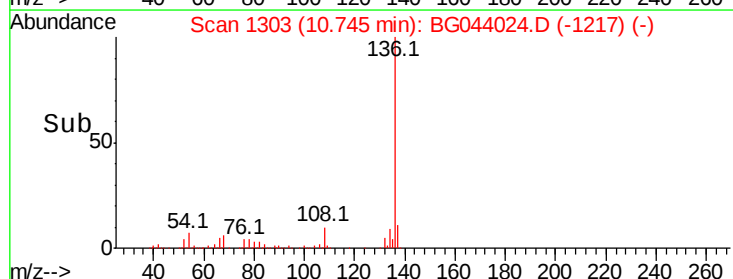
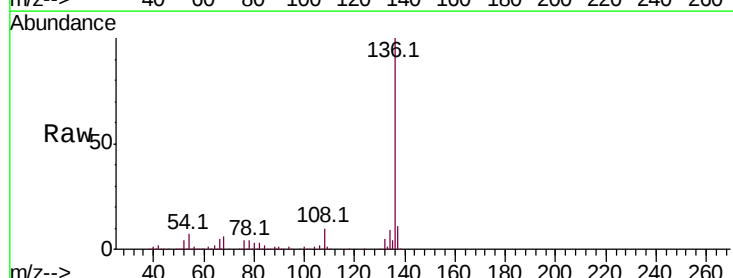
Instrument :  
BNA\_G  
ClientSampleId :

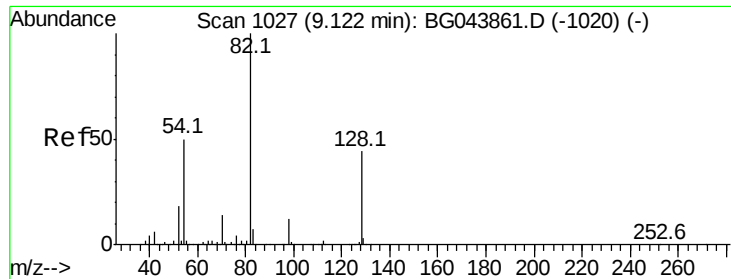
Tot Ion: 70 Resp: 95506  
Ion Ratio Lower Upper  
70 100  
42 47.4 47.0 70.4  
101 0.0 7.2 10.8#  
130 2.7 15.6 23.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.74 min Scan# 1303  
Delta R.T. -0.02 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

Tgt Ion: 136 Resp: 448899  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.8 13.2  
54 7.5 7.0 10.4  
68 6.3 4.9 7.3

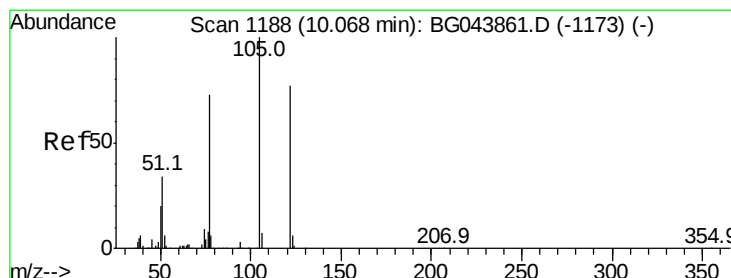
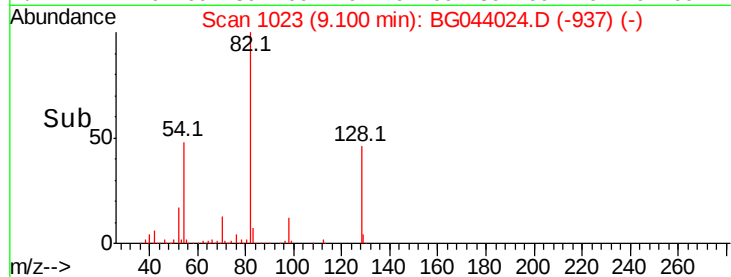
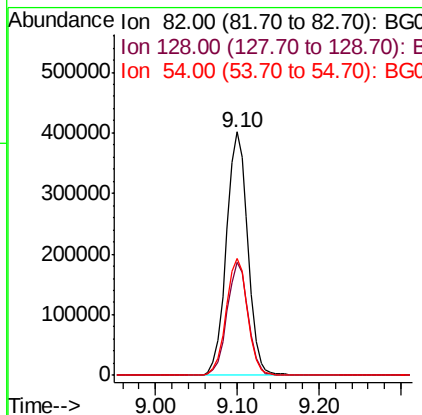
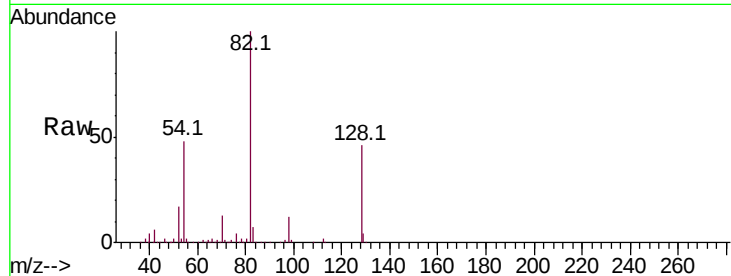




#23  
Nitrobenzene-d5  
Concen: 87.125 ng  
RT: 9.10 min Scan# 1023  
Delta R.T. -0.02 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

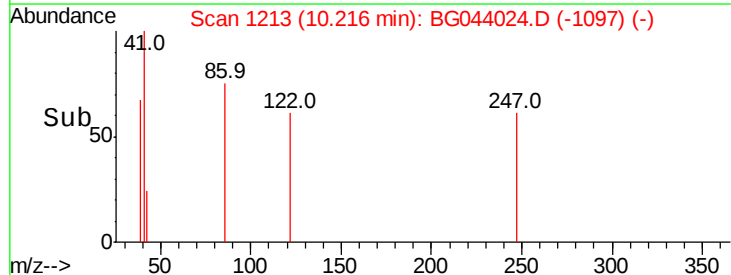
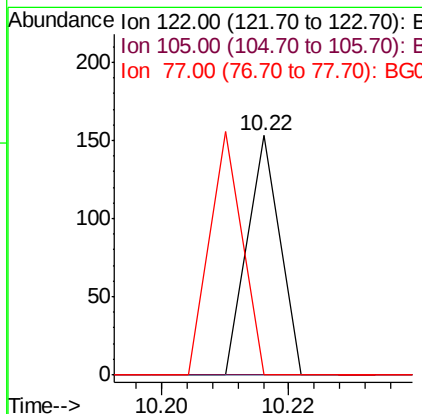
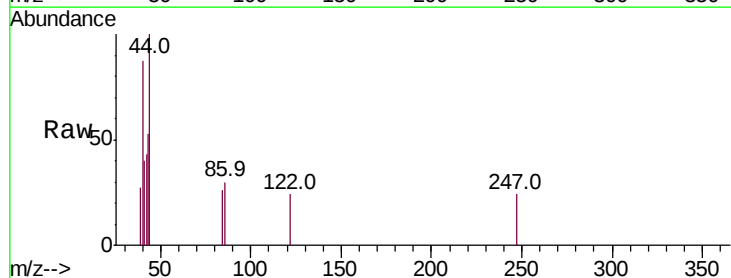
Instrument :  
BNA\_G  
ClientSampleId :

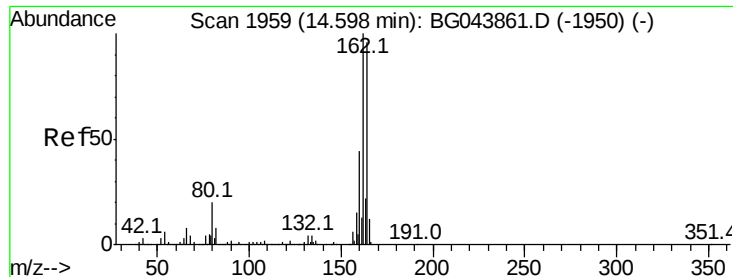
| Tot Ion   | 82    | Resp  | 731087 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 46.4  | 35.1  | 52.7   |
| 54        | 48.0  | 40.1  | 60.1   |



#32  
Benzoic acid  
Concen: 6.272 ng  
RT: 10.22 min Scan# 1213  
Delta R.T. 0.15 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

| Tgt Ion   | 122   | Resp  | 54     |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 122       | 100   |       |        |
| 105       | 0.0   | 106.4 | 146.4# |
| 77        | 0.0   | 74.6  | 114.6# |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.58 min Scan# 1955

Delta R.T. -0.02 min

Lab File: BG044024.D

Acq: 13 Jan 2020 22:57

Instrument :

BNA\_G

ClientSampleId :

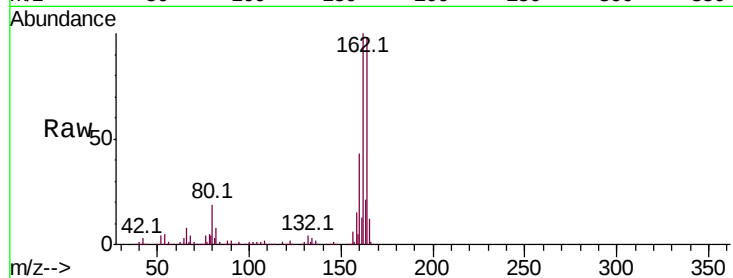
Tot Ion:164 Resp: 286811

Ion Ratio Lower Upper

164 100

162 102.1 83.0 124.4

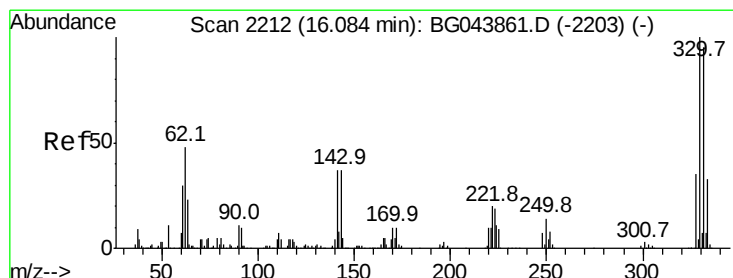
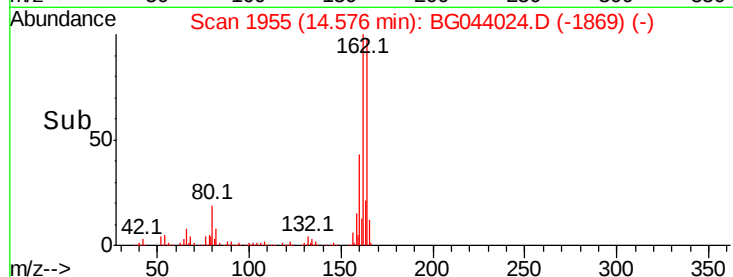
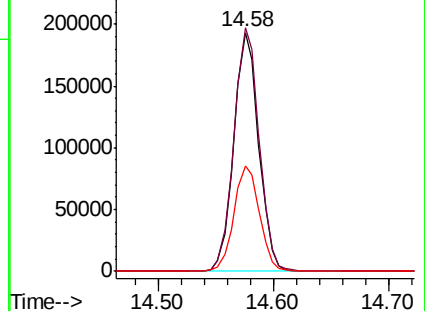
160 44.4 36.1 54.1



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: 159.289 ng

RT: 16.06 min Scan# 2208

Delta R.T. -0.02 min

Lab File: BG044024.D

Acq: 13 Jan 2020 22:57

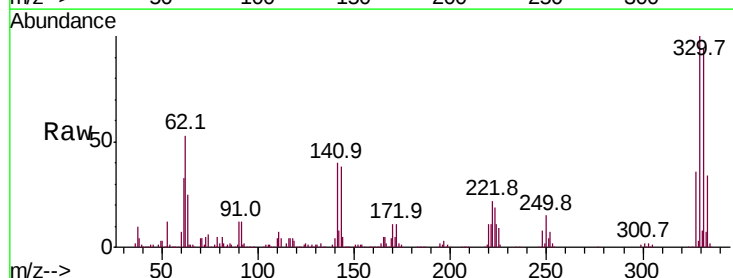
Tgt Ion:330 Resp: 478093

Ion Ratio Lower Upper

330 100

332 95.6 77.2 115.8

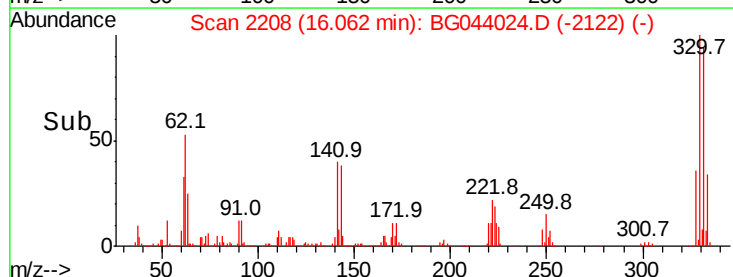
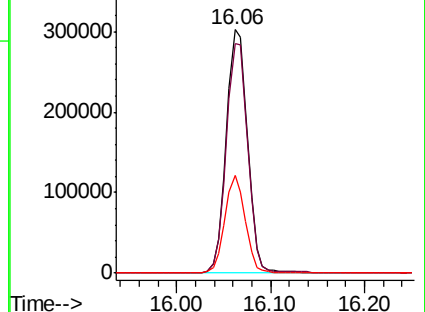
141 38.5 33.1 49.7

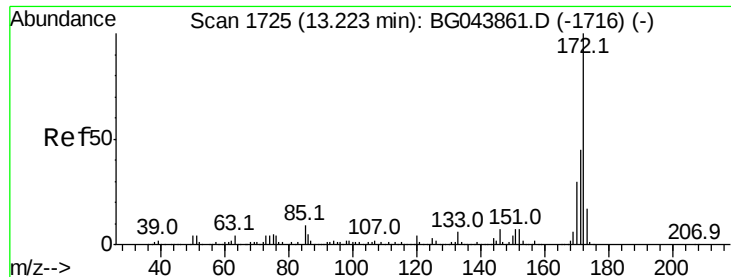


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

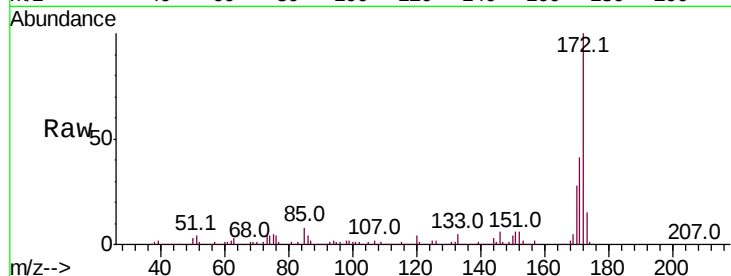




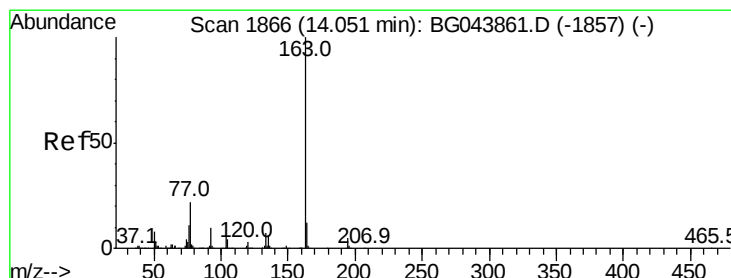
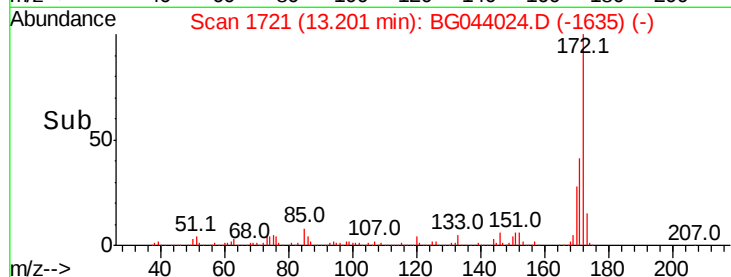
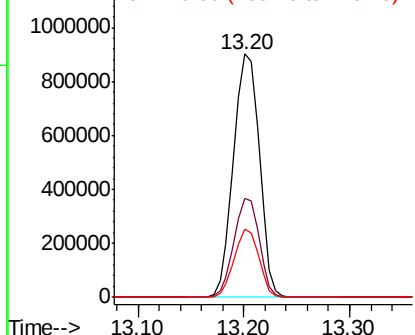
#45  
2-Fluorobiphenyl  
Concen: 96.760 ng  
RT: 13.20 min Scan# 1721  
Delta R.T. -0.02 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:172 Resp: 1531751  
Ion Ratio Lower Upper  
172 100  
171 40.7 35.8 53.8  
170 27.9 24.2 36.4

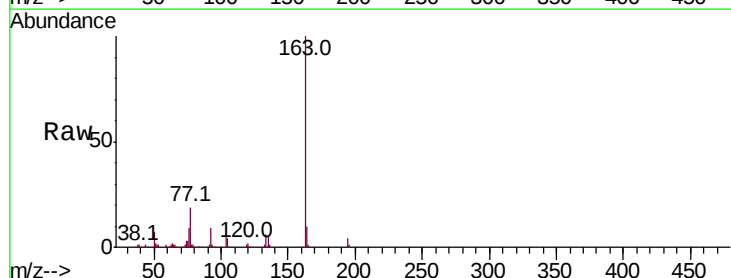


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

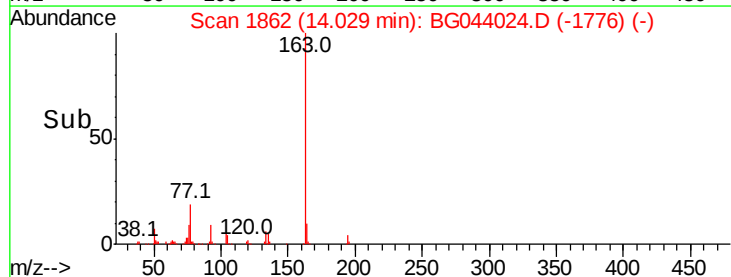
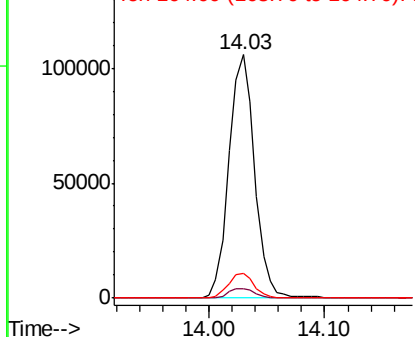


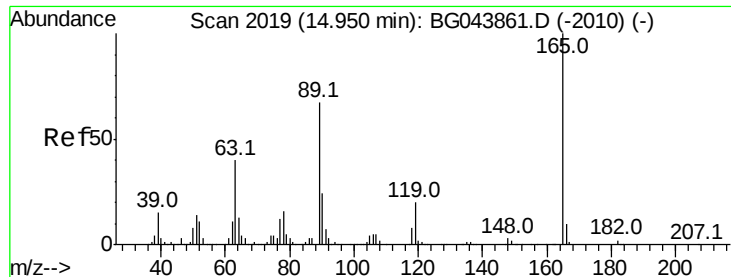
#50  
Dimethylphthalate  
Concen: 8.019 ng  
RT: 14.03 min Scan# 1862  
Delta R.T. -0.02 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

Tgt Ion:163 Resp: 163310  
Ion Ratio Lower Upper  
163 100  
194 3.9 3.7 5.5  
164 10.2 9.3 13.9



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

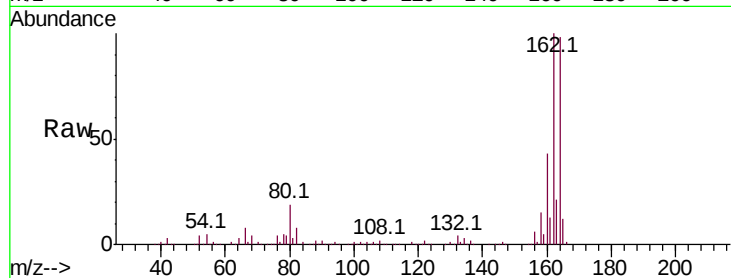




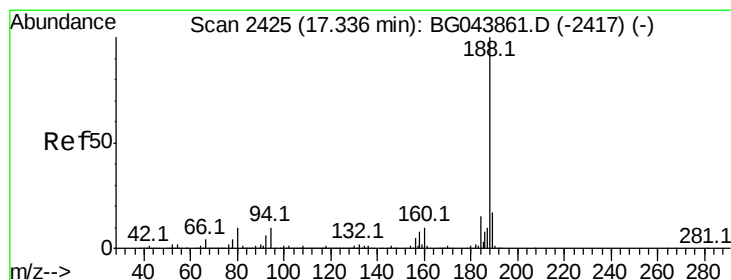
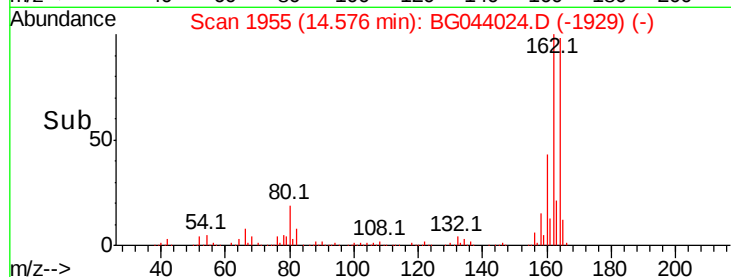
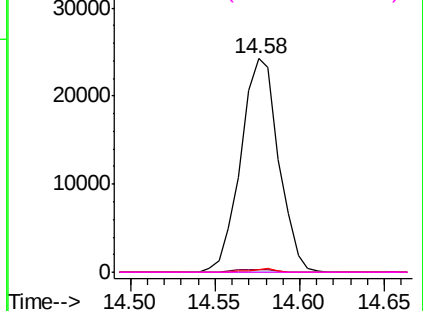
#57  
 2,4-Dinitrotoluene  
 Concen: 6.046 ng  
 RT: 14.58 min Scan# 1955  
 Delta R.T. -0.37 min  
 Lab File: BG044024.D  
 Acq: 13 Jan 2020 22:57

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 31.9  | 47.9# |
| 89      | 1.4   | 53.8  | 80.6# |
| 182     | 0.0   | 2.0   | 3.0#  |

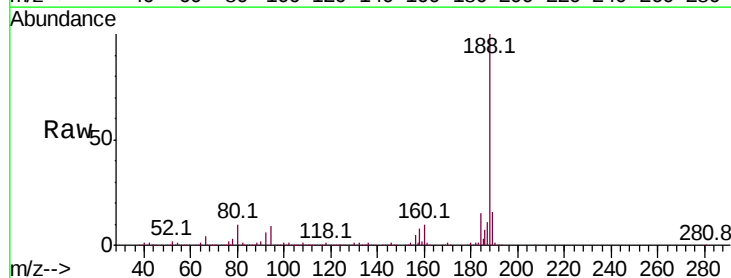


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

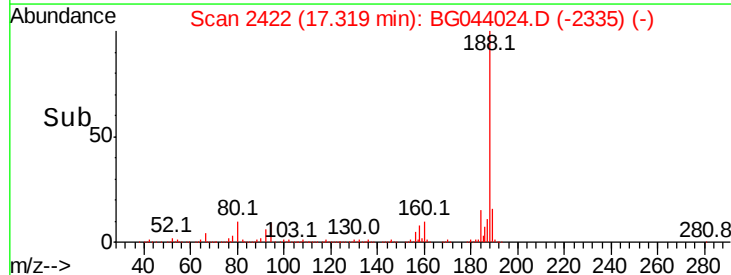
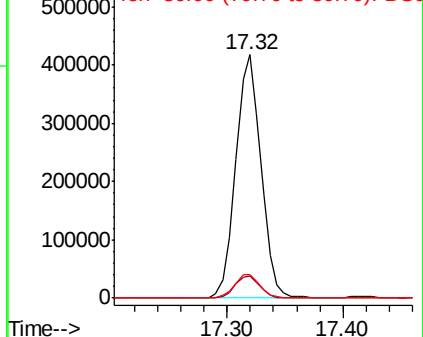


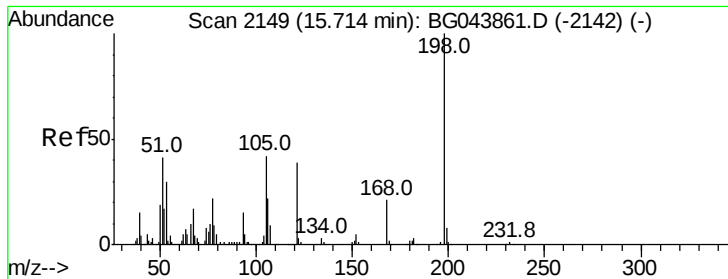
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.32 min Scan# 2422  
 Delta R.T. -0.02 min  
 Lab File: BG044024.D  
 Acq: 13 Jan 2020 22:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.3   | 7.9   | 11.9  |
| 80      | 9.8   | 8.2   | 12.4  |



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BGC  
 Ion 80.00 (79.70 to 80.70): BGC

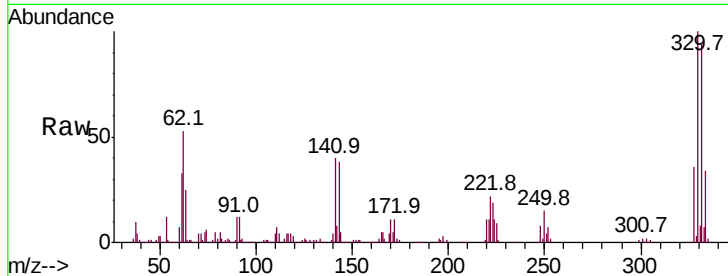




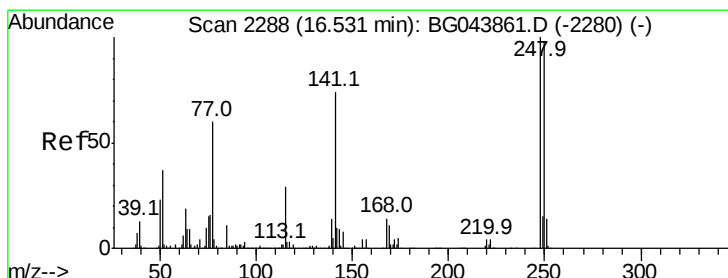
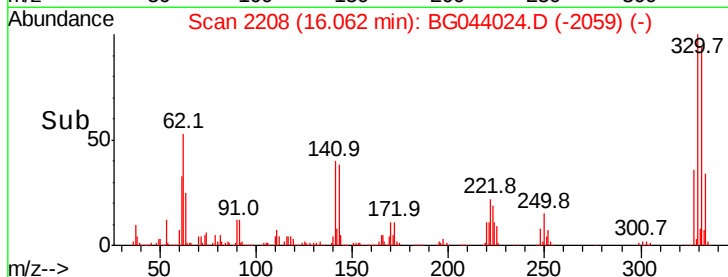
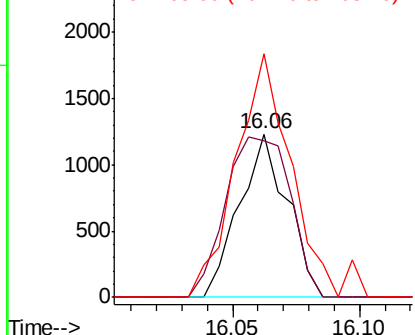
#65  
4,6-Dinitro-2-methylphenol  
Concen: 4.845 ng  
RT: 16.06 min Scan# 2208  
Delta R.T. 0.35 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:198 Resp: 1630  
Ion Ratio Lower Upper  
198 100  
51 95.4 22.5 62.5#  
105 148.9 22.3 62.3#

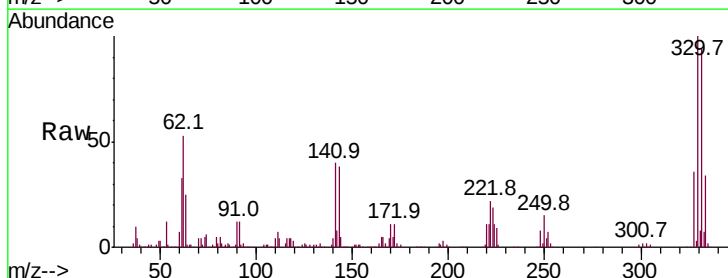


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BG0  
Ion 105.00 (104.70 to 105.70): E

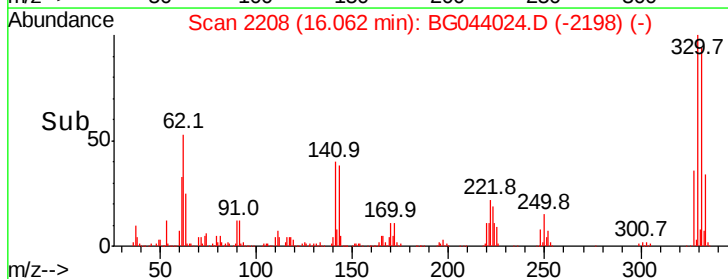
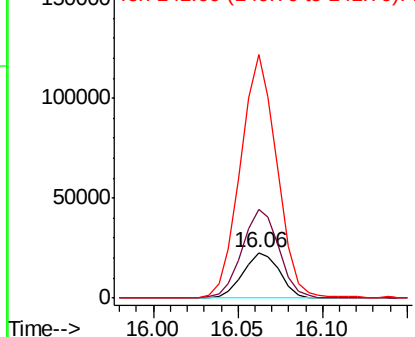


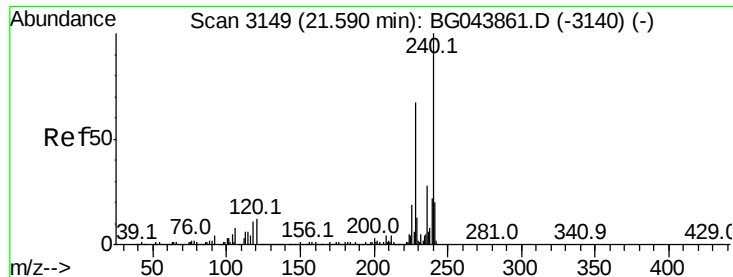
#67  
4-Bromophenyl-phenylether  
Concen: 4.851 ng  
RT: 16.06 min Scan# 2208  
Delta R.T. -0.47 min  
Lab File: BG044024.D  
Acq: 13 Jan 2020 22:57

Tgt Ion:248 Resp: 34445  
Ion Ratio Lower Upper  
248 100  
250 194.8 78.2 117.2#  
141 532.4 59.3 88.9#



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: 21.57 min Scan# 3145

Delta R.T. -0.02 min

Lab File: BG044024.D

Acq: 13 Jan 2020 22:57

Instrument :

BNA\_G

ClientSampleId :

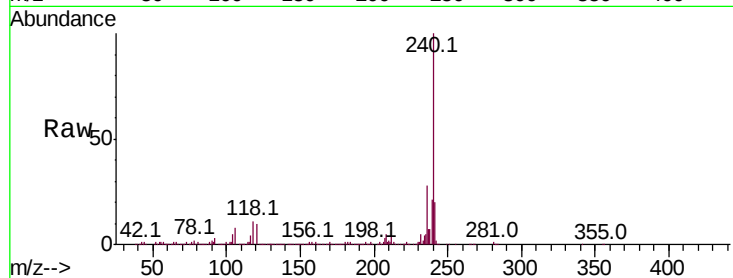
Tot Ion:240 Resp: 574769

Ion Ratio Lower Upper

240 100

120 10.4 9.6 14.4

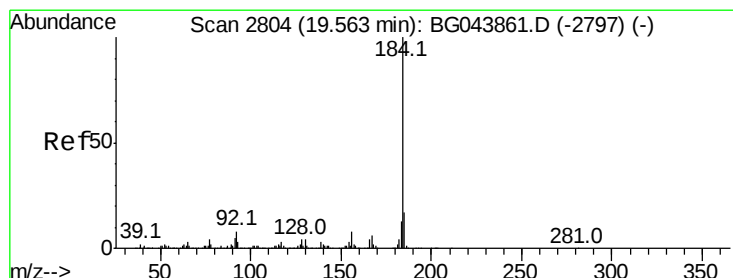
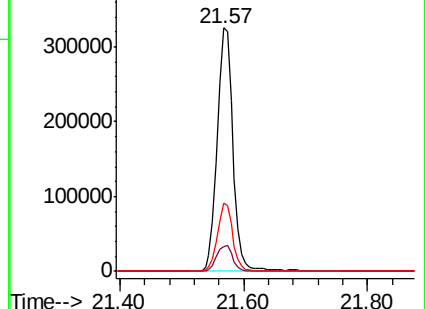
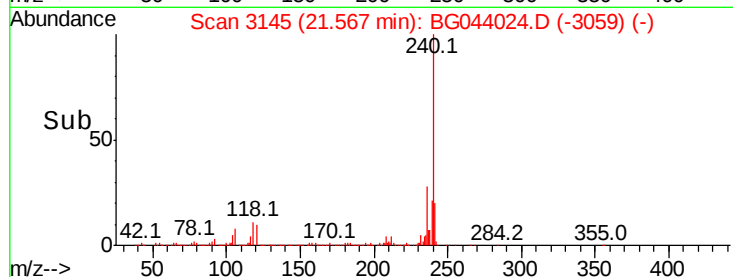
236 28.3 22.2 33.2



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: 3.028 ng

RT: 19.93 min Scan# 2867

Delta R.T. 0.37 min

Lab File: BG044024.D

Acq: 13 Jan 2020 22:57

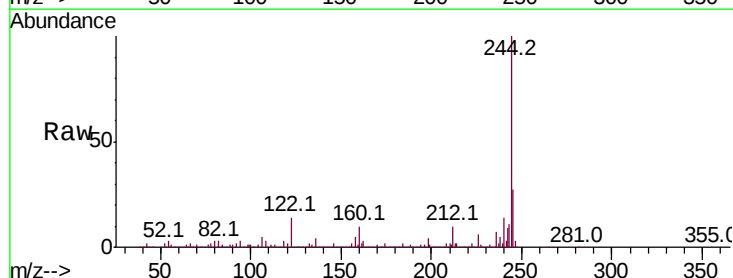
Tgt Ion:184 Resp: 43751

Ion Ratio Lower Upper

184 100

185 15.1 13.4 20.0

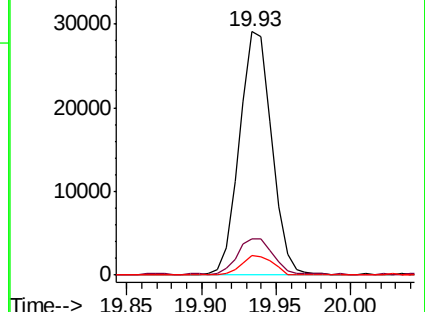
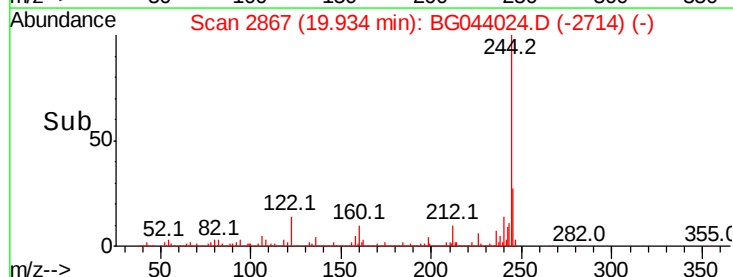
183 8.1 10.6 15.8#

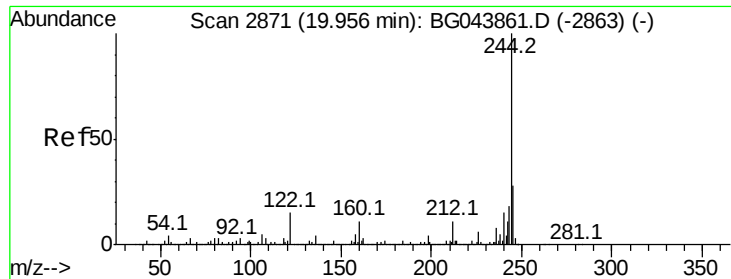


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



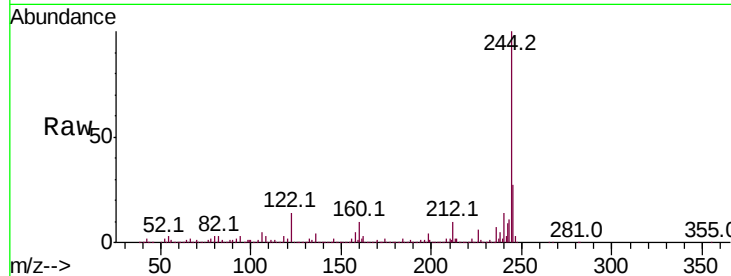


#79  
 Terphenyl-d14  
 Concen: 105.717 ng  
 RT: 19.93 min Scan# 2867  
 Delta R.T. -0.02 min  
 Lab File: BG044024.D  
 Acq: 13 Jan 2020 22:57

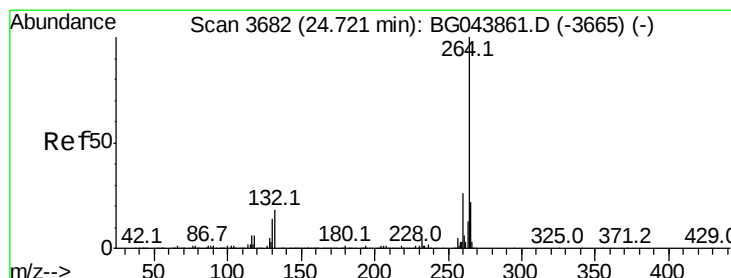
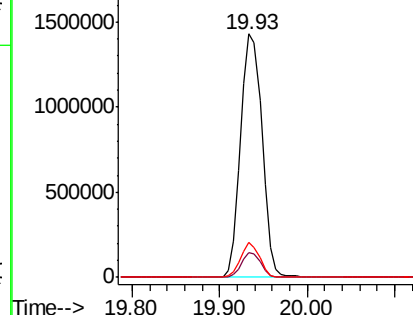
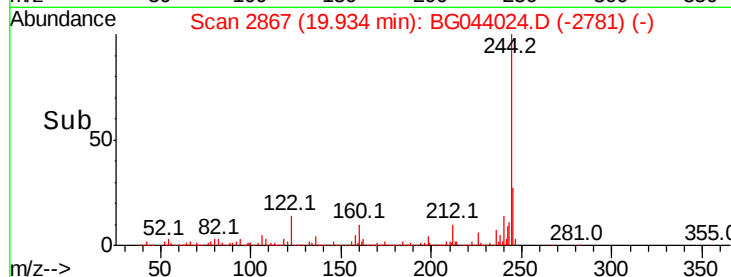
Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:244 Resp: 2369661  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 10.3  | 8.6   | 13.0  |
| 122 | 14.4  | 11.9  | 17.9  |



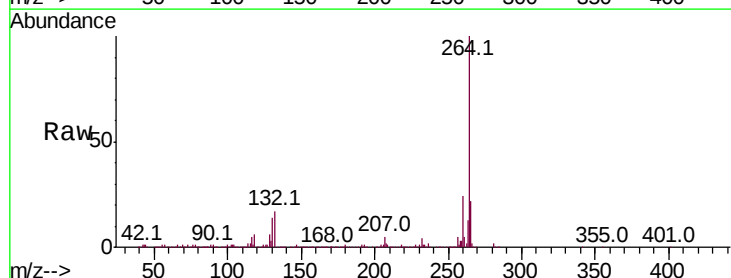
Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.69 min Scan# 3677  
 Delta R.T. -0.03 min  
 Lab File: BG044024.D  
 Acq: 13 Jan 2020 22:57

Tgt Ion:264 Resp: 631482  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.3  | 20.4  | 30.6  |
| 265 | 21.9  | 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

