

Data File : BG043901.D  
Acq On : 3 Jan 2020 23:50  
Operator : JU  
Sample : K6449-08  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 04 04:43:50 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 | 7.96  | 152  | 129499   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.76 | 136  | 569623   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.59 | 164  | 384571   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.34 | 188  | 820286   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.59 | 240  | 675925   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.72 | 264  | 780025   | 20.00 | ng    | 0.00     |

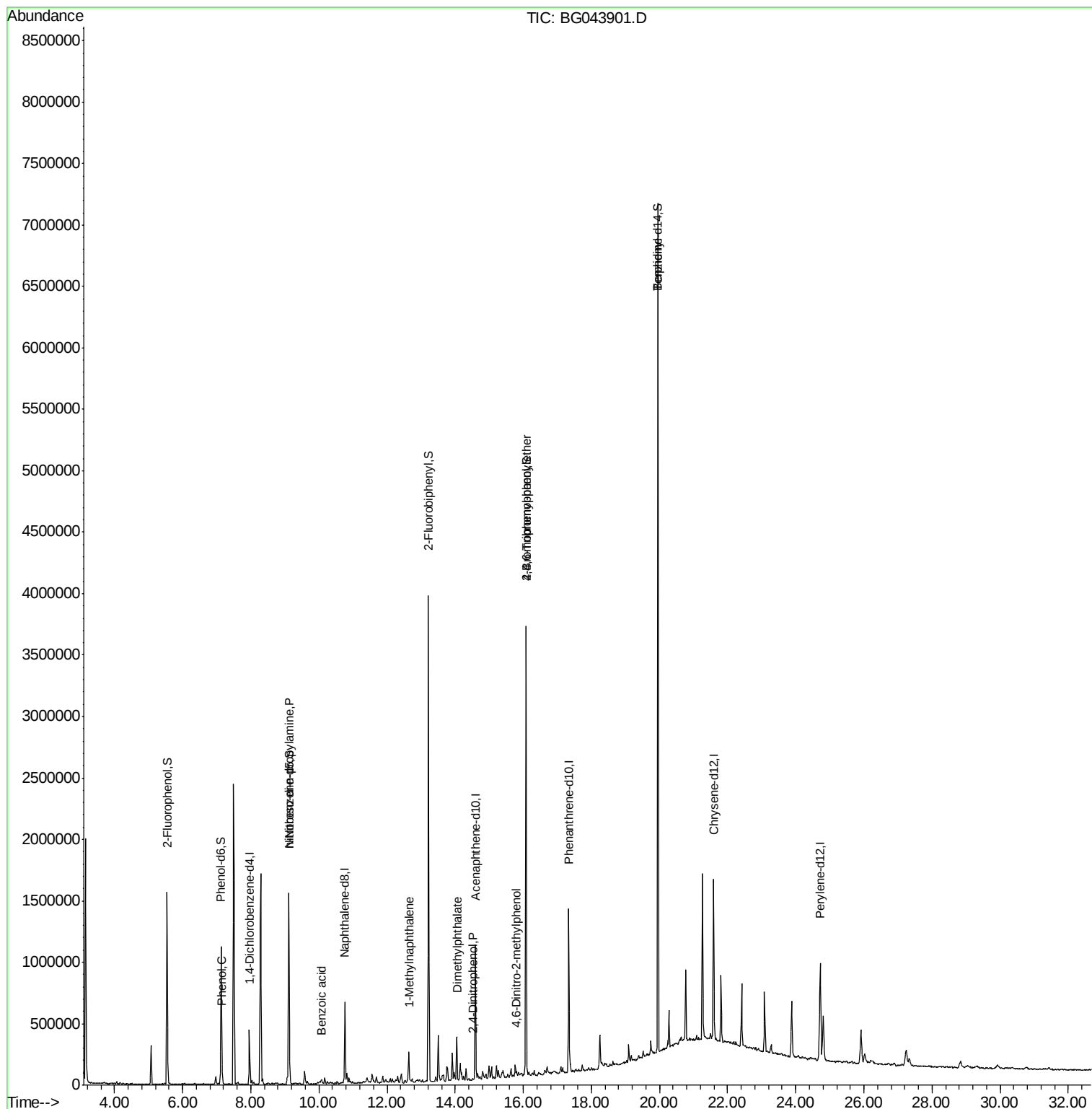
|                             |       |     |         |        |    |      |
|-----------------------------|-------|-----|---------|--------|----|------|
| System Monitoring Compounds |       |     |         |        |    |      |
| 5) 2-Fluorophenol           | 5.54  | 112 | 715944  | 101.51 | ng | 0.00 |
| 7) Phenol-d6                | 7.13  | 99  | 705797  | 71.59  | ng | 0.00 |
| 23) Nitrobenzene-d5         | 9.12  | 82  | 966701  | 90.79  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 16.08 | 330 | 629420  | 156.40 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 13.22 | 172 | 1976479 | 93.11  | ng | 0.00 |
| 79) Terphenyl-d14           | 19.95 | 244 | 2678286 | 99.91  | ng | 0.00 |

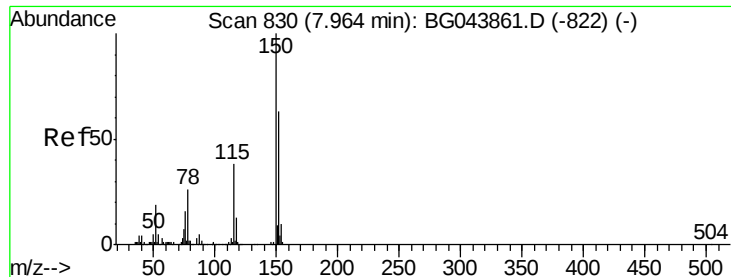
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 10) Phenol                     | 7.16  | 94  | 61097  | 6.015  | ng | 97   |
| 19) n-Nitroso-di-n-propylamine | 9.12  | 70  | 130866 | 17.825 | ng | # 80 |
| 32) Benzoic acid               | 10.06 | 122 | 172    | 6.286  | ng | # 47 |
| 38) 1-Methylnaphthalene        | 12.64 | 142 | 112922 | 5.741  | ng | 100  |
| 50) Dimethylphthalate          | 14.05 | 163 | 244937 | 8.970  | ng | 98   |
| 54) 2,4-Dinitrophenol          | 14.52 | 184 | 179    | 5.536  | ng | # 79 |
| 65) 4,6-Dinitro-2-methylphenol | 15.79 | 198 | 237    | 4.441  | ng | # 1  |
| 67) 4-Bromophenyl-phenylether  | 16.08 | 248 | 49102  | 5.322  | ng | # 1  |
| 77) Benzidine                  | 19.95 | 184 | 62671  | 3.689  | ng | # 93 |

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

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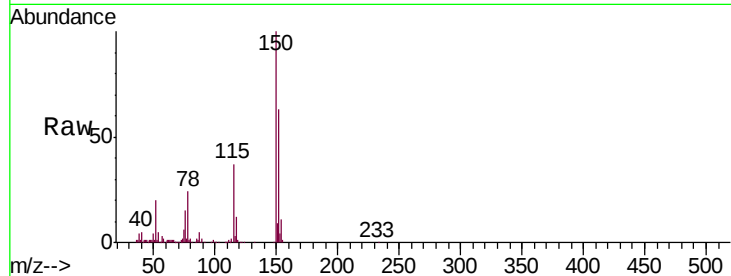




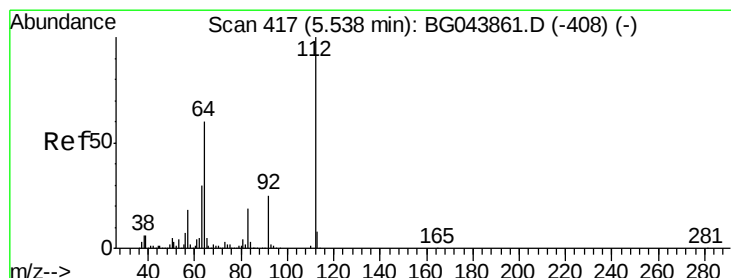
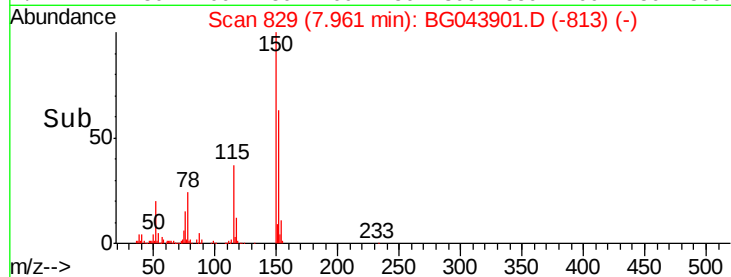
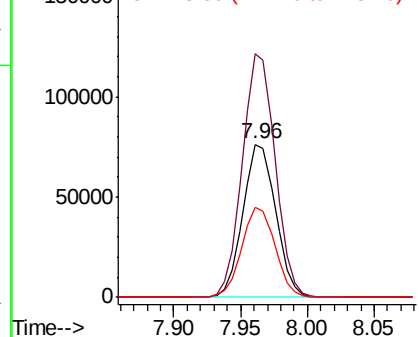
#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.96 min Scan# 829  
Delta R.T. -0.00 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.1 | 127.0 | 190.4 |
| 115     | 58.5  | 47.8  | 71.8  |



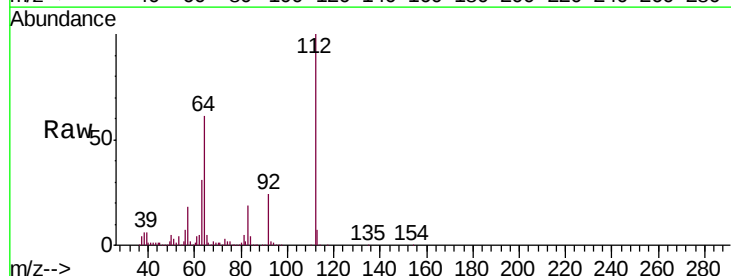
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



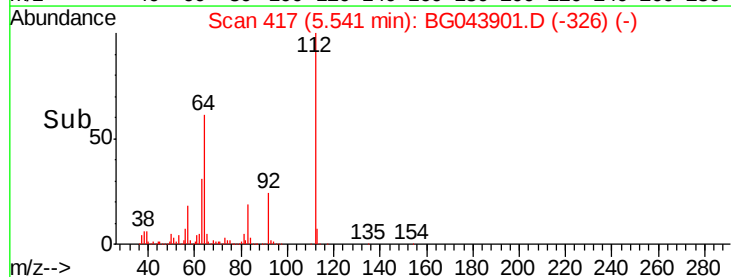
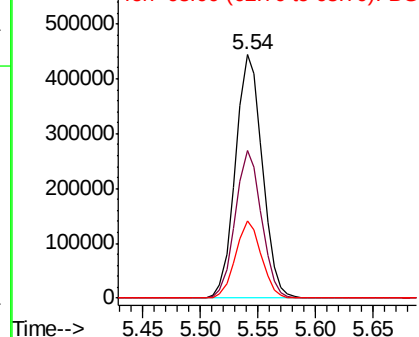
#5

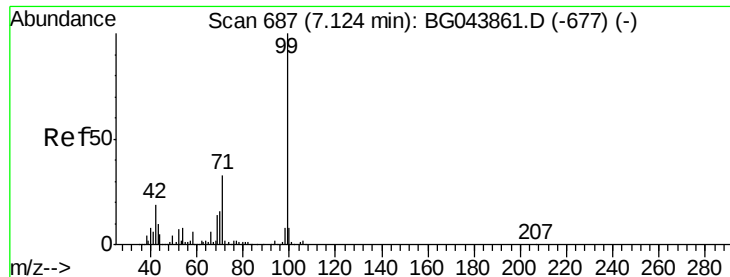
2-Fluorophenol  
Concen: 101.511 ng  
RT: 5.54 min Scan# 417  
Delta R.T. 0.00 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.9  | 47.8  | 71.6  |
| 63      | 31.5  | 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: 71.592 ng

RT: 7.13 min Scan# 687

Delta R.T. 0.00 min

Lab File: BG043901.D

Acq: 3 Jan 2020 23:50

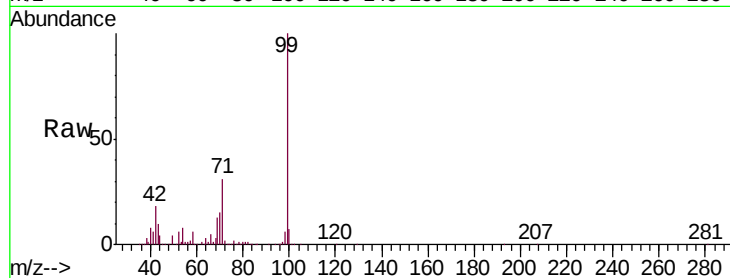
Tgt Ion: 99 Resp: 705797

Ion Ratio Lower Upper

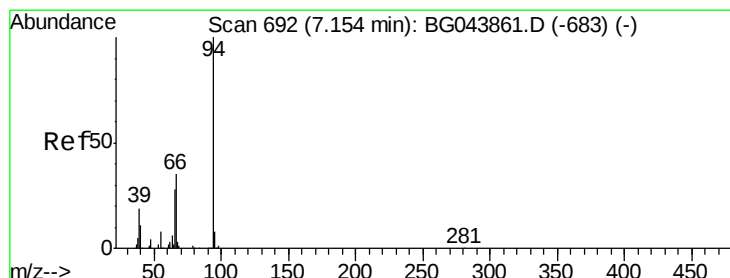
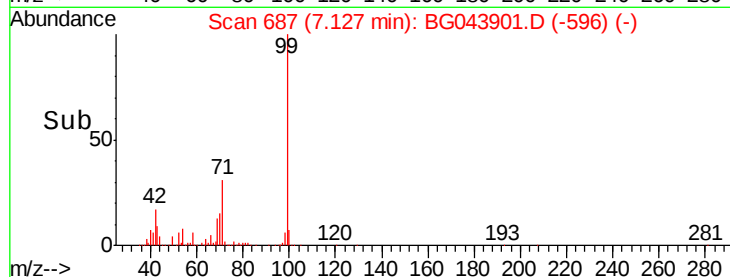
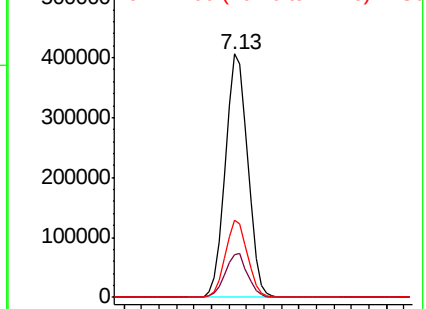
99 100

42 17.5 14.9 22.3

71 31.5 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: 6.015 ng

RT: 7.16 min Scan# 692

Delta R.T. 0.00 min

Lab File: BG043901.D

Acq: 3 Jan 2020 23:50

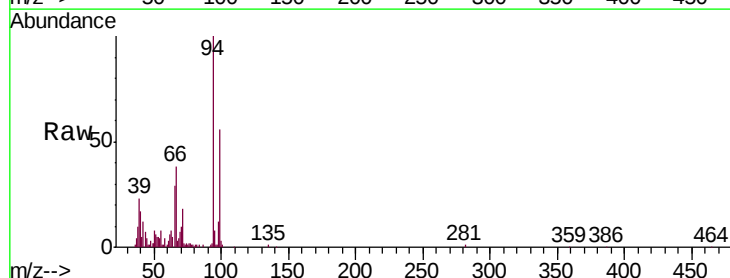
Tgt Ion: 94 Resp: 61097

Ion Ratio Lower Upper

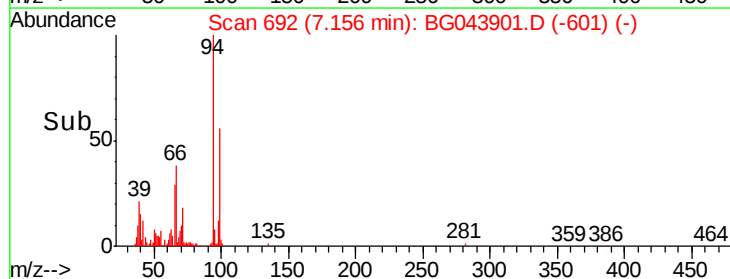
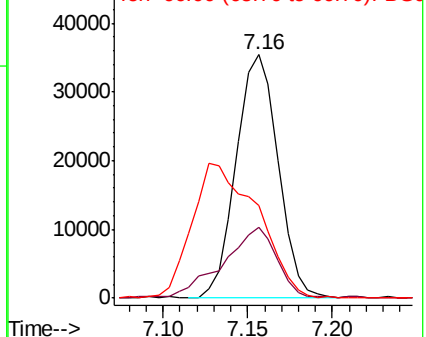
94 100

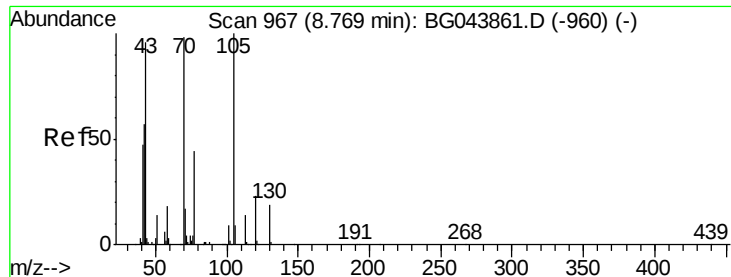
65 28.9 8.1 48.1

66 38.2 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: 17.825 ng

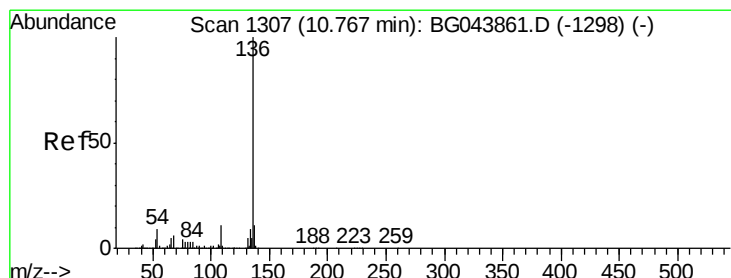
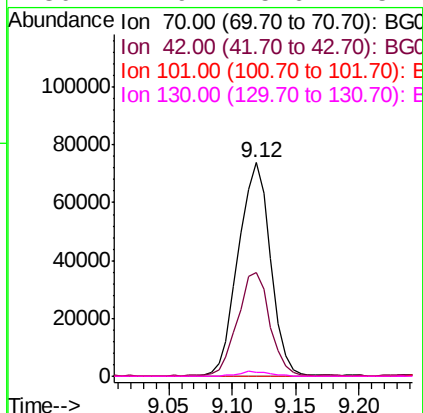
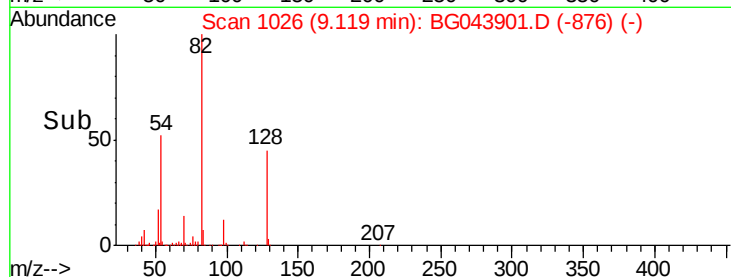
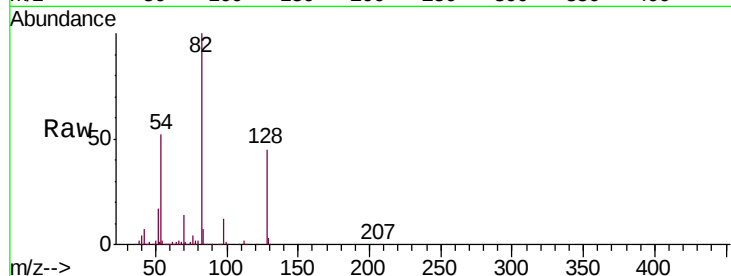
RT: 9.12 min Scan# 1026

Delta R.T. 0.35 min

Lab File: BG043901.D

Acq: 3 Jan 2020 23:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 130866 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 48.7  | 47.0  | 70.4   |
| 101      | 0.0   | 7.2   | 10.8#  |
| 130      | 1.9   | 15.6  | 23.4#  |



#21

Naphthalene-d8

Concen: 20.000 ng

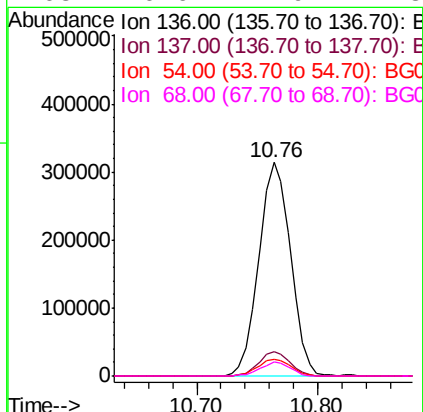
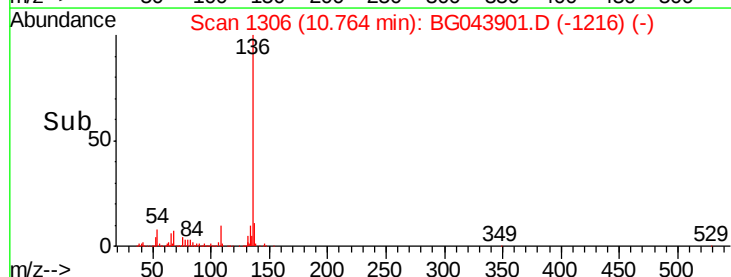
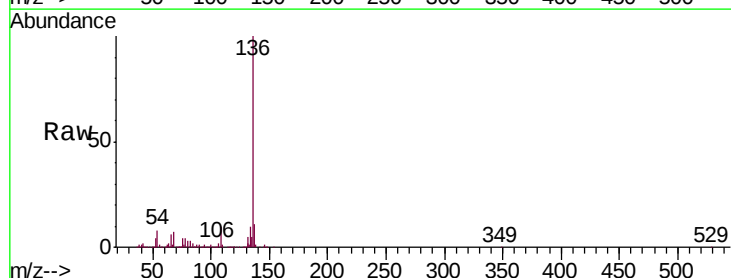
RT: 10.76 min Scan# 1306

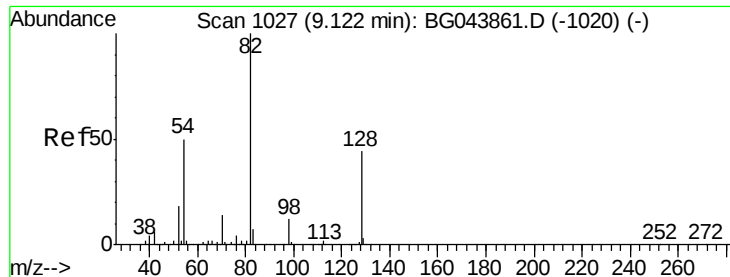
Delta R.T. -0.00 min

Lab File: BG043901.D

Acq: 3 Jan 2020 23:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 569623 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.5  | 8.8   | 13.2   |
| 54       | 7.9   | 7.0   | 10.4   |
| 68       | 6.6   | 4.9   | 7.3    |





#23

Nitrobenzene-d5

Concen: 90.787 ng

RT: 9.12 min Scan# 1026

Delta R.T. -0.00 min

Lab File: BG043901.D

Acq: 3 Jan 2020 23:50

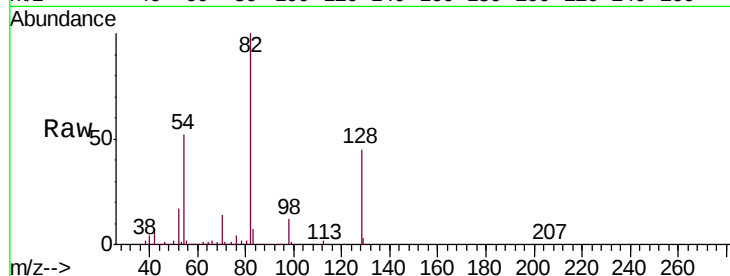
Tgt Ion: 82 Resp: 966701

Ion Ratio Lower Upper

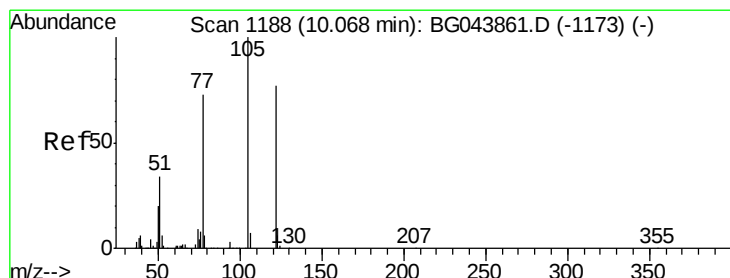
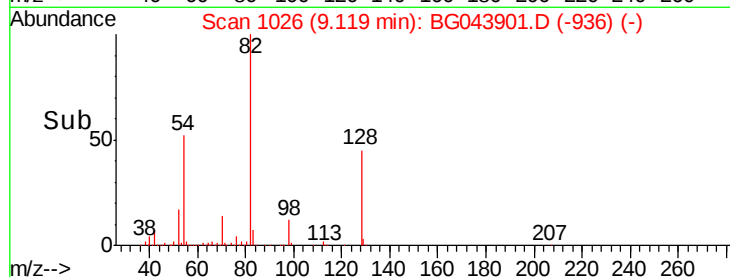
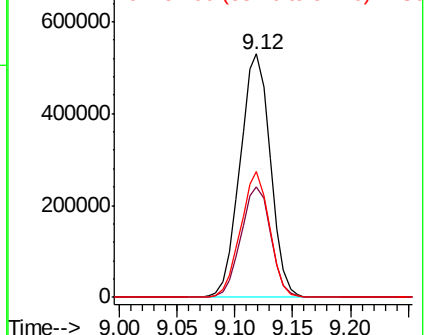
82 100

128 45.2 35.1 52.7

54 51.6 40.1 60.1



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC



#32

Benzoic acid

Concen: 6.286 ng

RT: 10.06 min Scan# 1187

Delta R.T. -0.00 min

Lab File: BG043901.D

Acq: 3 Jan 2020 23:50

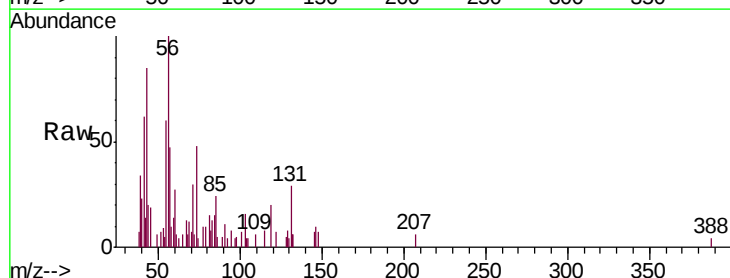
Tgt Ion: 122 Resp: 172

Ion Ratio Lower Upper

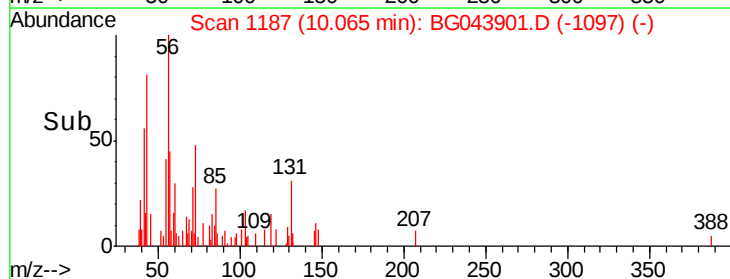
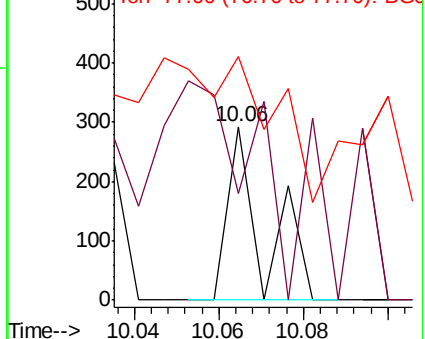
122 100

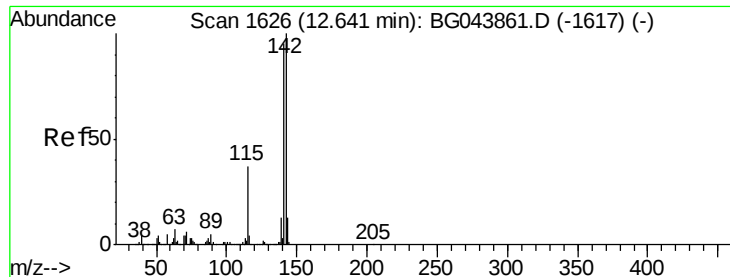
105 61.4 106.4 146.4#

77 140.3 74.6 114.6#



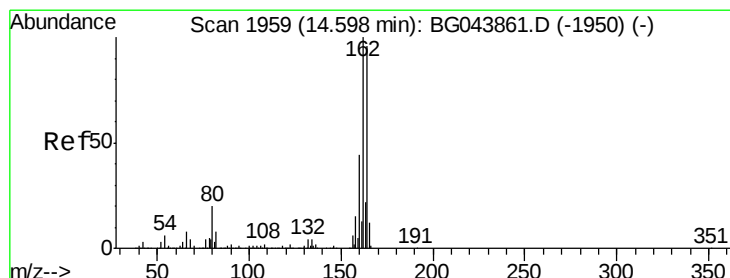
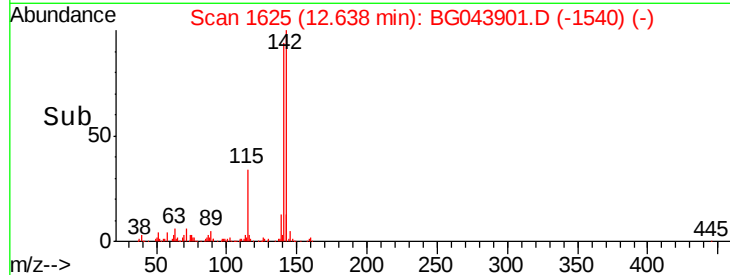
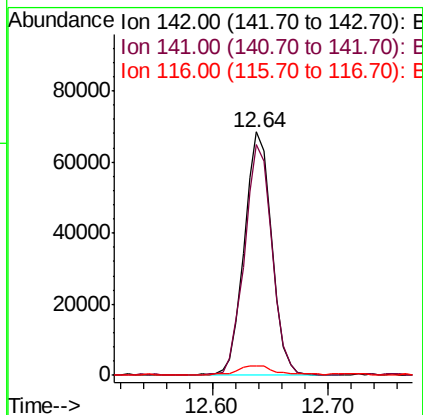
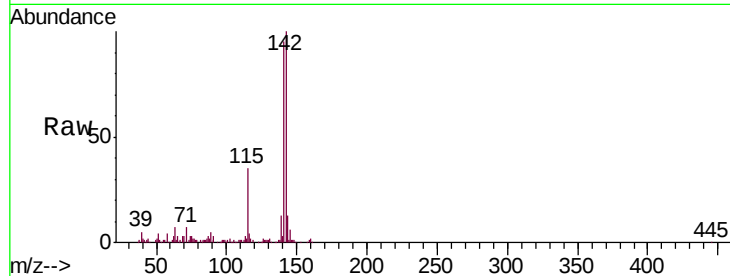
Abundance Ion 122.00 (121.70 to 122.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC





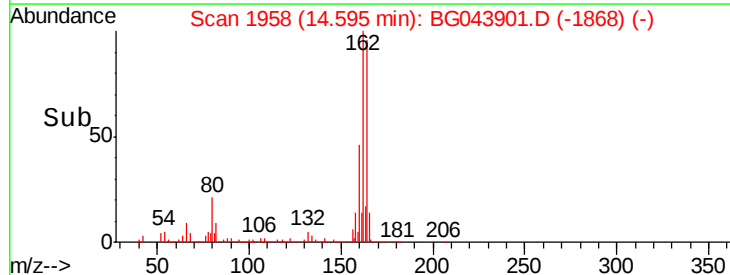
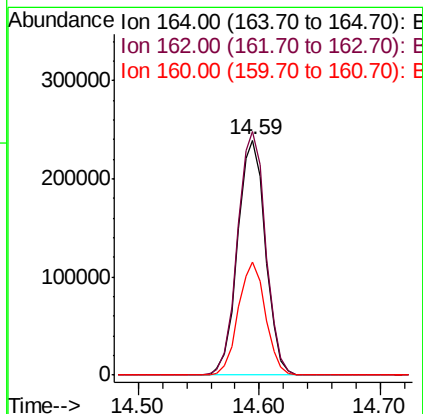
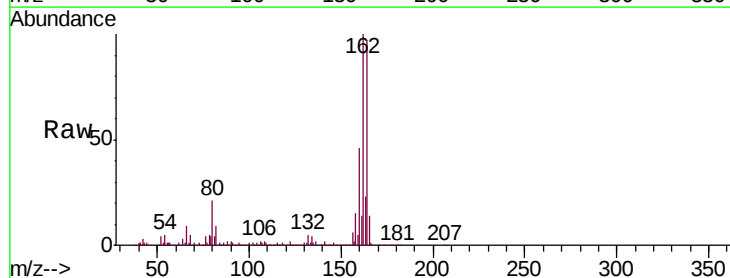
#38  
1-Methylnaphthalene  
Concen: 5.741 ng  
RT: 12.64 min Scan# 1625  
Delta R.T. -0.00 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

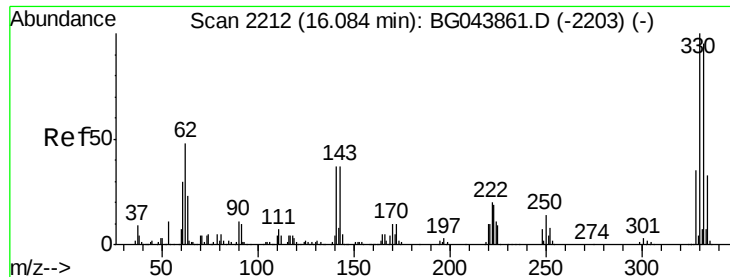
Tgt Ion:142 Resp: 112922  
Ion Ratio Lower Upper  
142 100  
141 94.6 76.0 114.0  
116 4.1 3.1 4.7



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.59 min Scan# 1958  
Delta R.T. -0.00 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

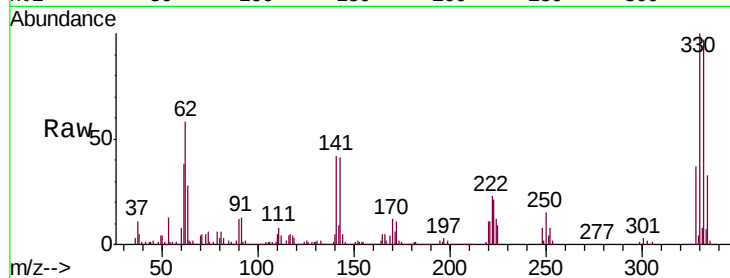
Tgt Ion:164 Resp: 384571  
Ion Ratio Lower Upper  
164 100  
162 103.6 83.0 124.4  
160 48.1 36.1 54.1



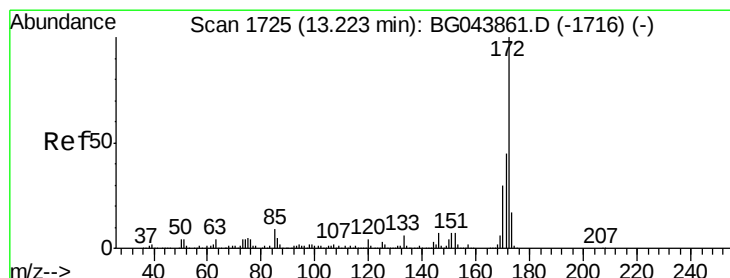
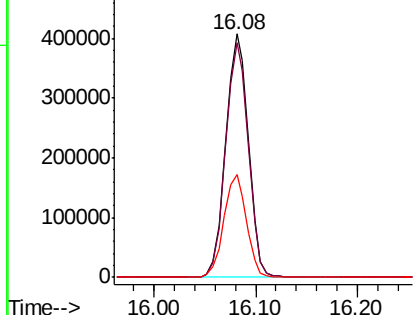
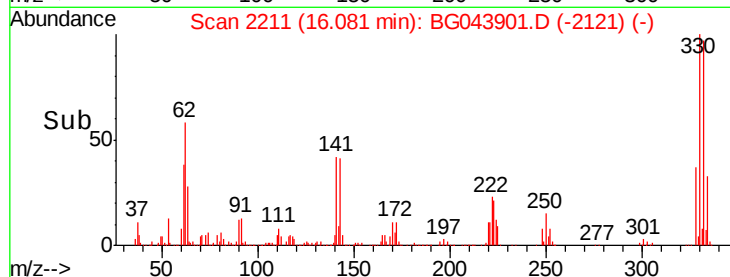


#42  
 2,4,6-Tribromophenol  
 Concen: 156.399 ng  
 RT: 16.08 min Scan# 2211  
 Delta R.T. -0.00 min  
 Lab File: BG043901.D  
 Acq: 3 Jan 2020 23:50

Tgt Ion:330 Resp: 629420  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 77.2 115.8  
 141 41.9 33.1 49.7

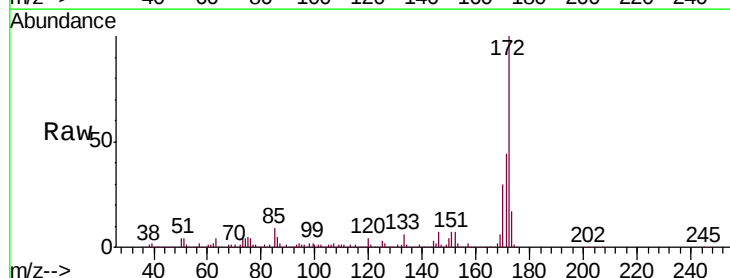


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

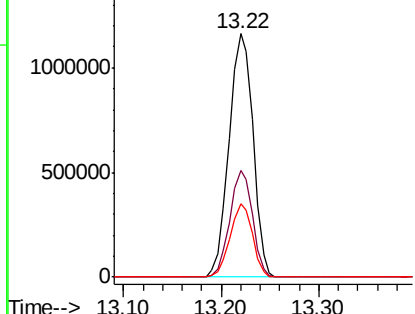
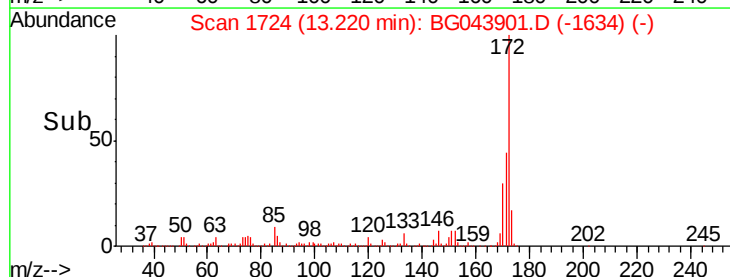


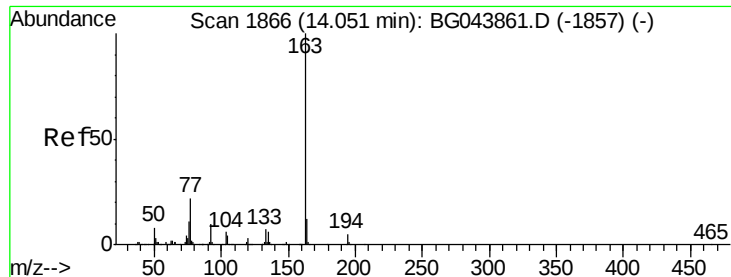
#45  
 2-Fluorobiphenyl  
 Concen: 93.115 ng  
 RT: 13.22 min Scan# 1724  
 Delta R.T. -0.00 min  
 Lab File: BG043901.D  
 Acq: 3 Jan 2020 23:50

Tgt Ion:172 Resp: 1976479  
 Ion Ratio Lower Upper  
 172 100  
 171 43.8 35.8 53.8  
 170 30.0 24.2 36.4



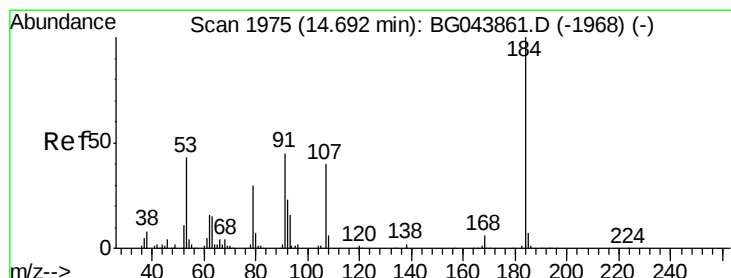
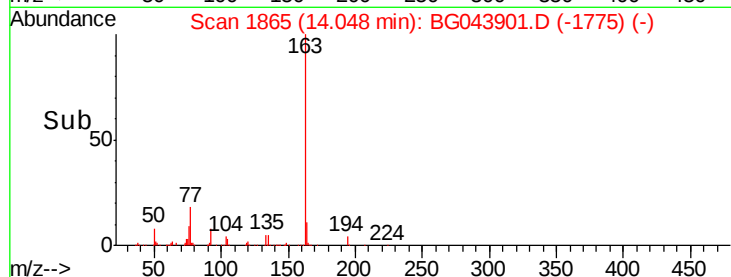
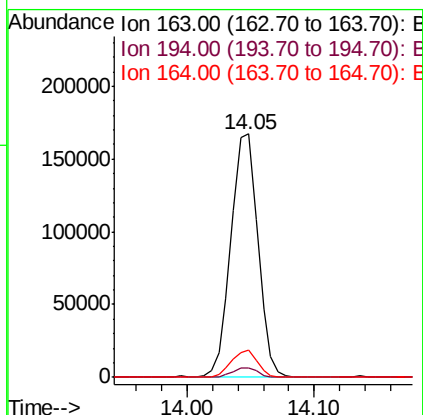
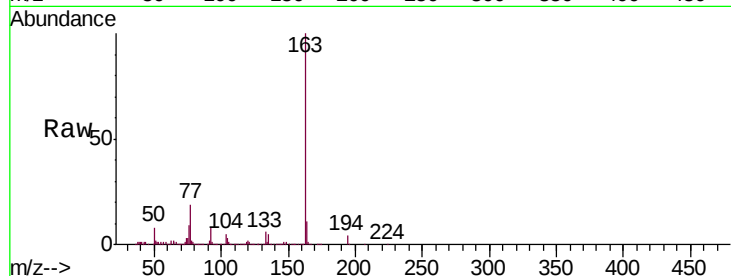
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





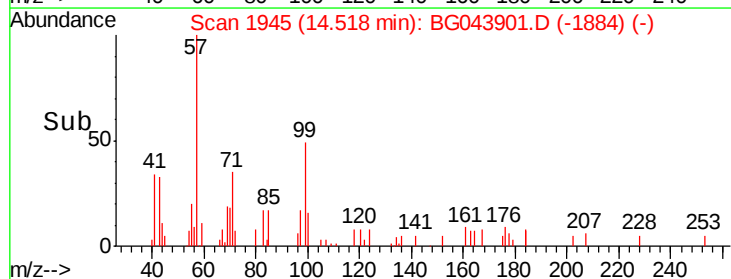
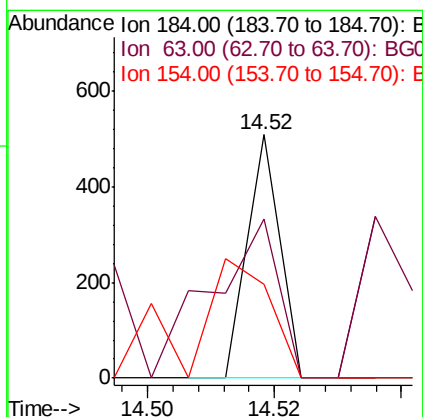
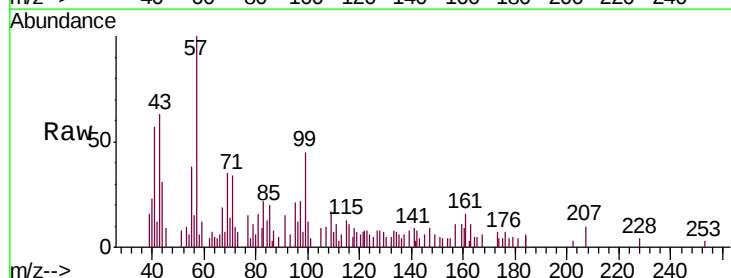
#50  
Dimethylphthalate  
Concen: 8.970 ng  
RT: 14.05 min Scan# 1865  
Delta R.T. -0.00 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

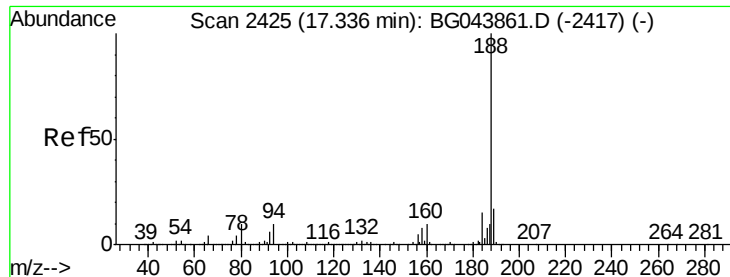
Tgt Ion:163 Resp: 244937  
Ion Ratio Lower Upper  
163 100  
194 3.9 3.7 5.5  
164 11.1 9.3 13.9



#54  
2,4-Dinitrophenol  
Concen: 5.536 ng  
RT: 14.52 min Scan# 1945  
Delta R.T. -0.17 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

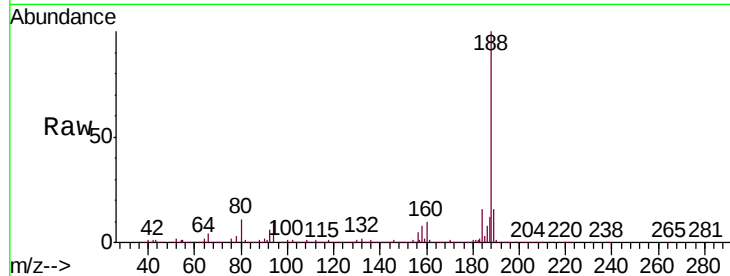
Tgt Ion:184 Resp: 179  
Ion Ratio Lower Upper  
184 100  
63 65.4 46.6 70.0  
154 38.5 50.2 75.4#



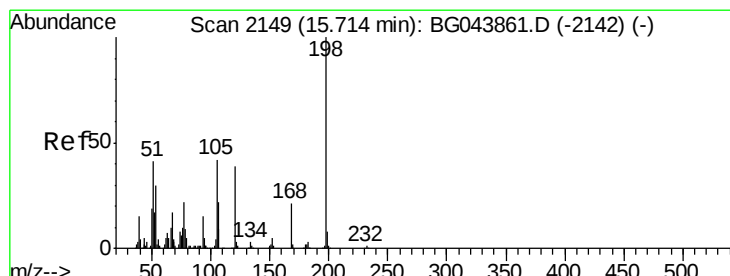
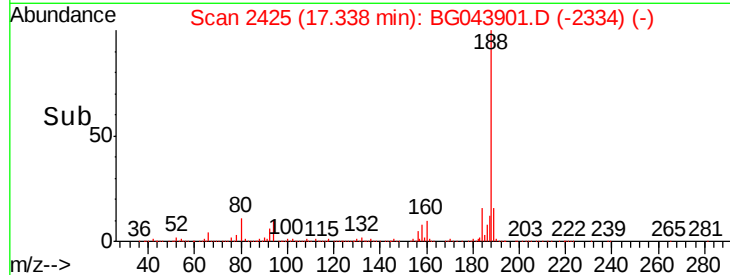
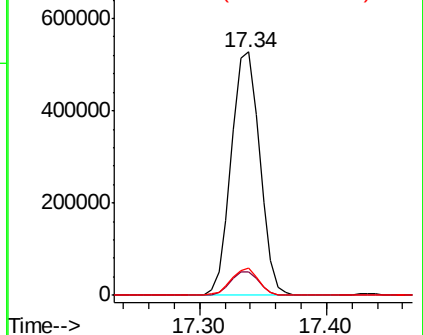


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.34 min Scan# 2425  
Delta R.T. 0.00 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 820286 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.7   | 7.9   | 11.9   |
| 80       | 11.1  | 8.2   | 12.4   |

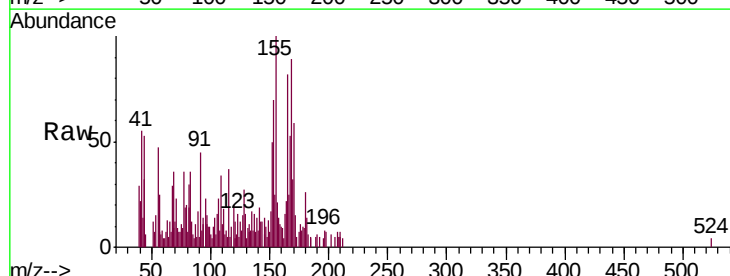


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

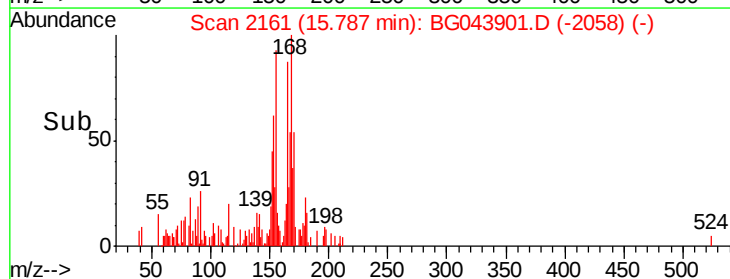
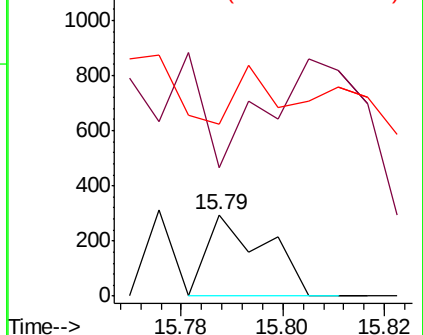


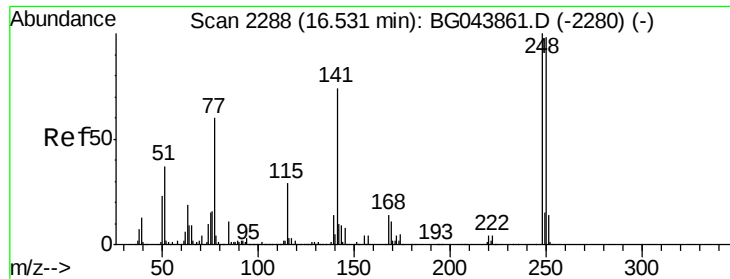
#65  
4,6-Dinitro-2-methylphenol  
Concen: 4.441 ng  
RT: 15.79 min Scan# 2161  
Delta R.T. 0.07 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 198   | Resp: | 237   |
| Ion      | Ratio | Lower | Upper |
| 198      | 100   |       |       |
| 51       | 158.1 | 22.5  | 62.5# |
| 105      | 210.8 | 22.3  | 62.3# |



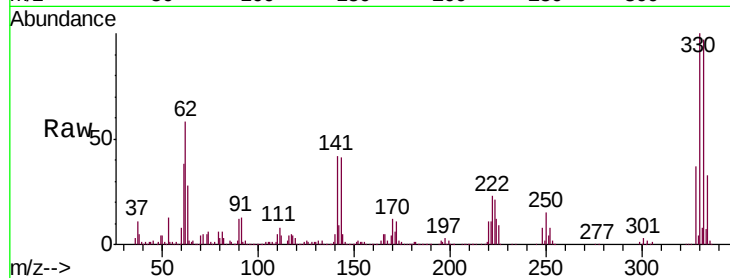
Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BGC  
Ion 105.00 (104.70 to 105.70): E



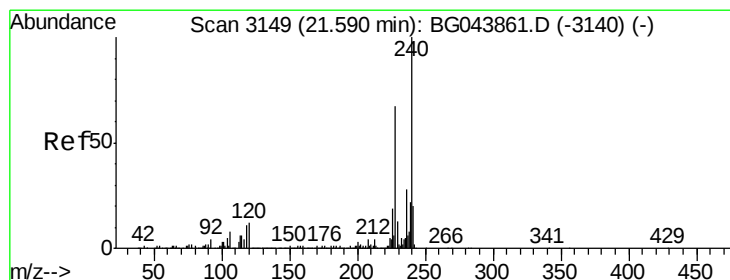
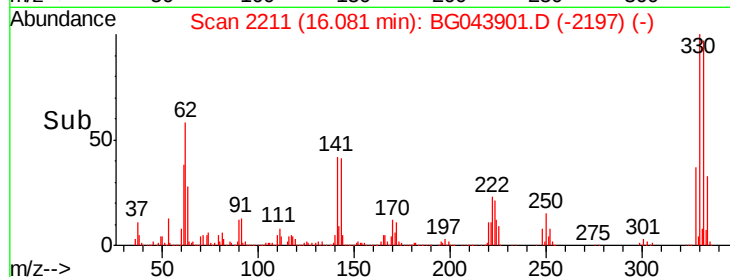
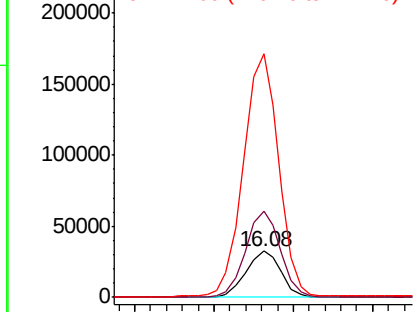


#67  
4-Bromophenyl-phenylether  
Concen: 5.322 ng  
RT: 16.08 min Scan# 2211  
Delta R.T. -0.45 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

Tgt Ion: 248 Resp: 49102  
Ion Ratio Lower Upper  
248 100  
250 188.8 78.2 117.2#  
141 530.8 59.3 88.9#

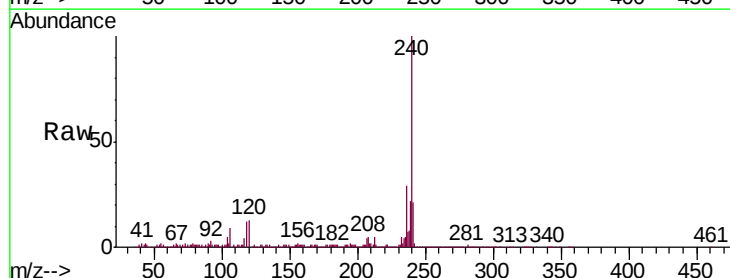


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

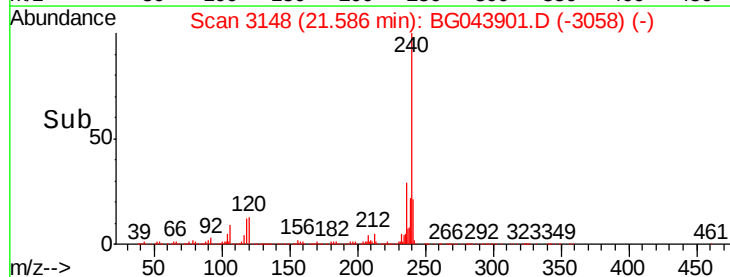
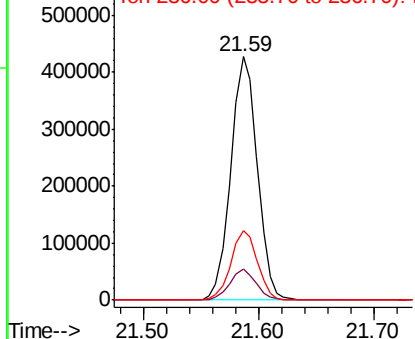


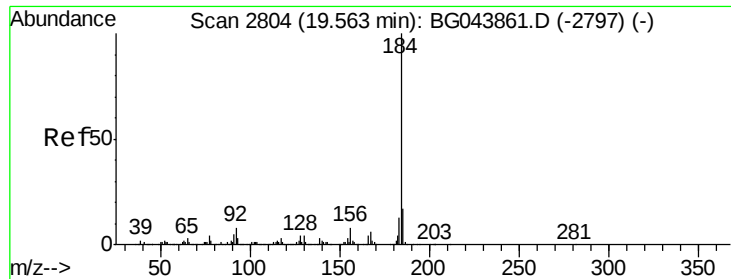
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.59 min Scan# 3148  
Delta R.T. -0.00 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

Tgt Ion: 240 Resp: 675925  
Ion Ratio Lower Upper  
240 100  
120 13.0 9.6 14.4  
236 28.6 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: 3.689 ng

RT: 19.95 min Scan# 2870

Delta R.T. 0.39 min

Lab File: BG043901.D

Acq: 3 Jan 2020 23:50

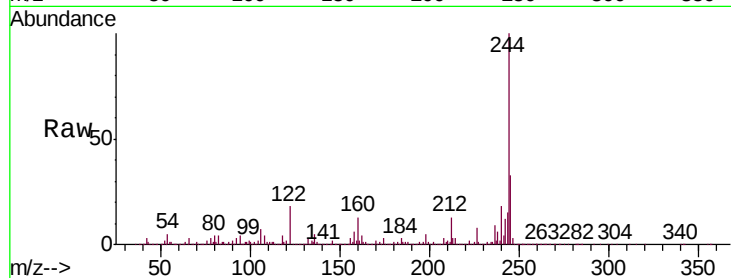
Tgt Ion:184 Resp: 62671

Ion Ratio Lower Upper

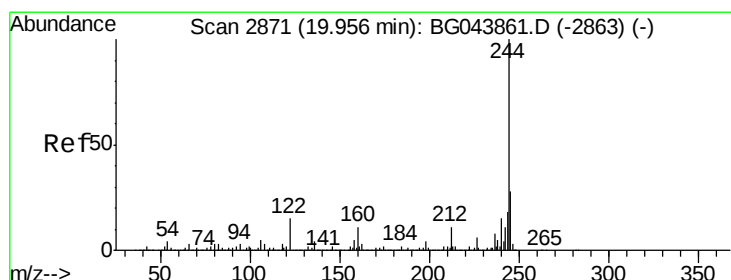
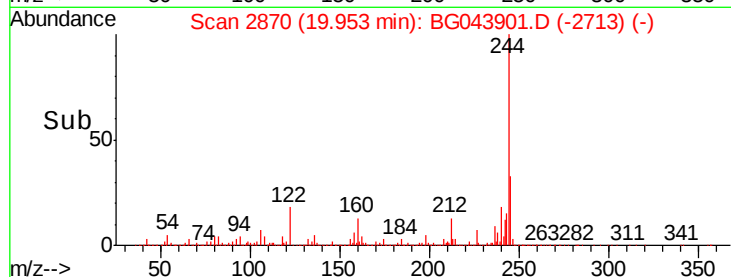
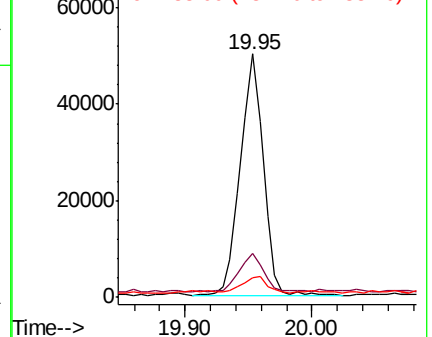
184 100

185 17.9 13.4 20.0

183 8.3 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: 99.913 ng

RT: 19.95 min Scan# 2870

Delta R.T. -0.00 min

Lab File: BG043901.D

Acq: 3 Jan 2020 23:50

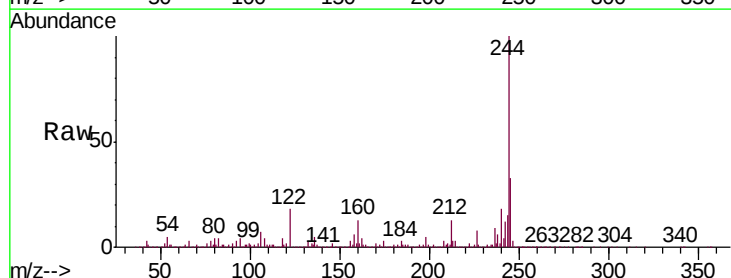
Tgt Ion:244 Resp: 2678286

Ion Ratio Lower Upper

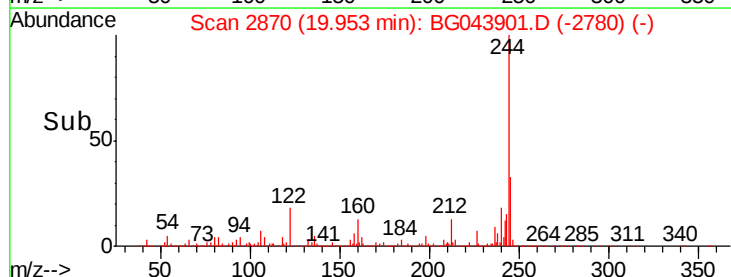
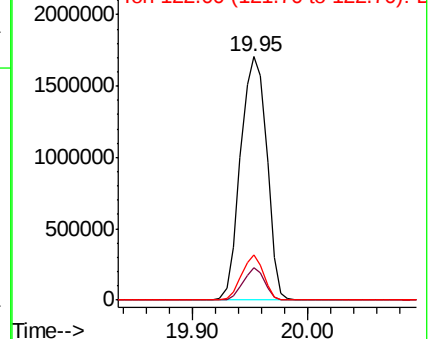
244 100

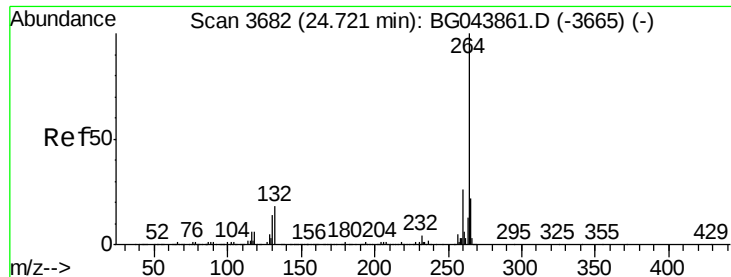
212 13.4 8.6 13.0#

122 18.4 11.9 17.9#



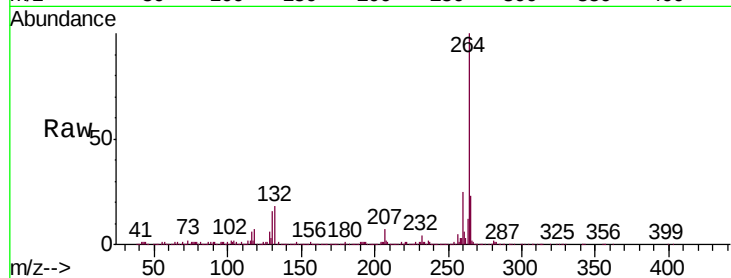
Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.72 min Scan# 3681  
Delta R.T. -0.00 min  
Lab File: BG043901.D  
Acq: 3 Jan 2020 23:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 780025 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 25.1  | 20.4  | 30.6   |
| 265      | 22.7  | 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

