

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040524\  
 Data File : BG060791.D  
 Acq On : 5 Apr 2024 11:38  
 Operator : MA/JU  
 Sample : P1974-09  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-3

Quant Time: Apr 05 12:16:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG032924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 30 03:12:26 2024  
 Response via : Initial Calibration

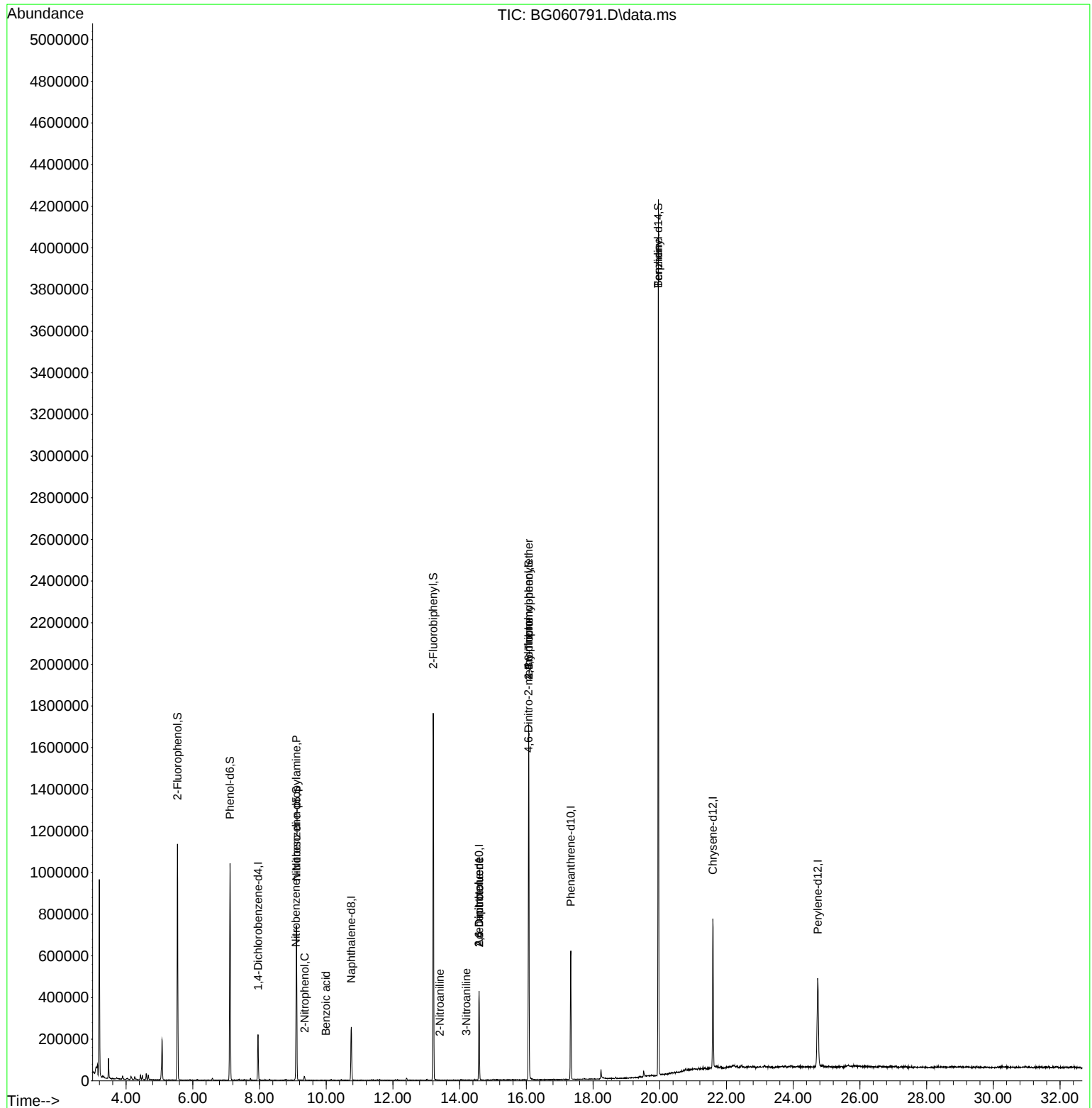
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.956  | 152  | 55620    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.753 | 136  | 207980   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.584 | 164  | 154499   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.333 | 188  | 400974   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.593 | 240  | 418725   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 24.736 | 264  | 476384   | 20.000  | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.541  | 112  | 426572   | 127.764 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.116  | 99   | 522789   | 105.486 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.108  | 82   | 400311   | 109.830 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.070 | 330  | 338602   | 193.066 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.209 | 172  | 930863   | 88.425  | ng    | -0.01    |
| 79) Terphenyl-d14             | 19.960 | 244  | 2071141  | 87.096  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.108  | 70   | 55004    | 14.554  | ng    | # 75     |
| 24) Nitrobenzene              | 9.096  | 77   | 1278     | 3.070   | ng    | # 43     |
| 26) 2-Nitrophenol             | 9.354  | 139  | 123      | 3.055   | ng    | # 31     |
| 32) Benzoic acid              | 9.989  | 122  | 139      | 6.889   | ng    | # 1      |
| 48) 2-Nitroaniline            | 13.403 | 65   | 58       | 2.813   | ng    | # 11     |
| 51) 2,6-Dinitrotoluene        | 14.584 | 165  | 20757    | 12.296  | ng    | # 18     |
| 53) 3-Nitroaniline            | 14.202 | 138  | 55       | 2.873   | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 14.584 | 165  | 20757    | 10.336  | ng    | # 19     |
| 65) 4,6-Dinitro-2-methylph... | 16.064 | 198  | 976      | 7.537   | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 16.070 | 248  | 22759    | 5.593   | ng    | # 1      |
| 77) Benzidine                 | 19.960 | 184  | 32471    | 2.945   | ng    | # 93     |
| -----                         |        |      |          |         |       |          |

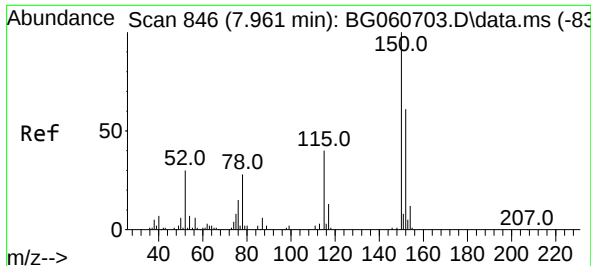
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Mar 30 03:12:26 2024  
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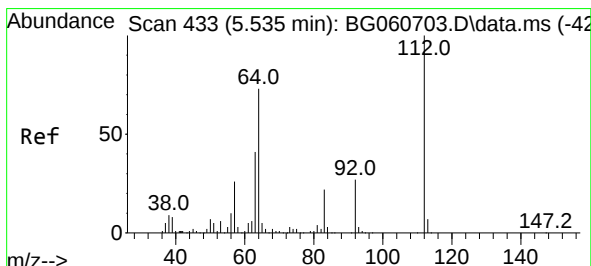
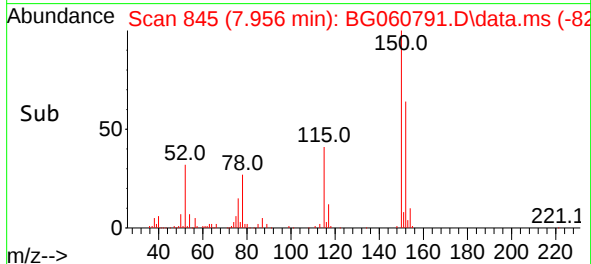
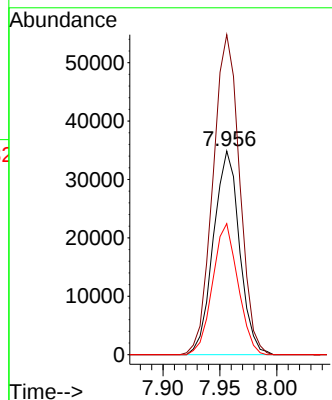
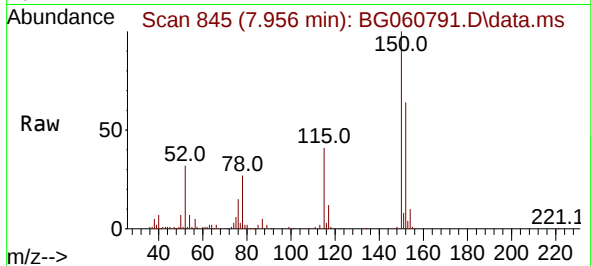




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.956 min Scan# 846  
Delta R.T. -0.005 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

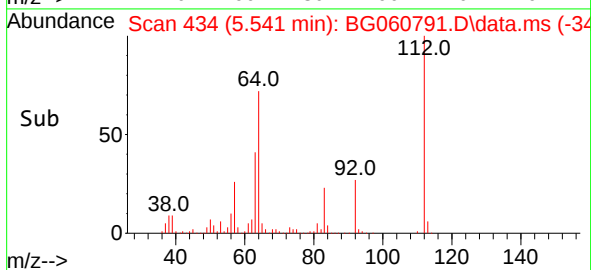
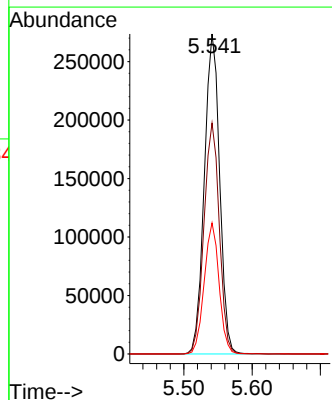
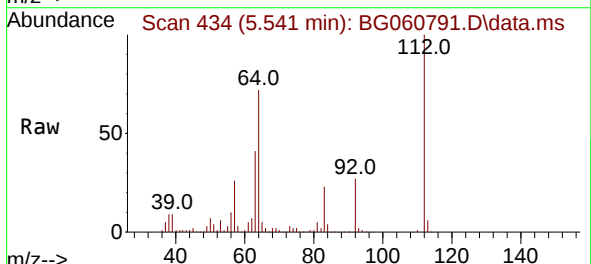
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-3

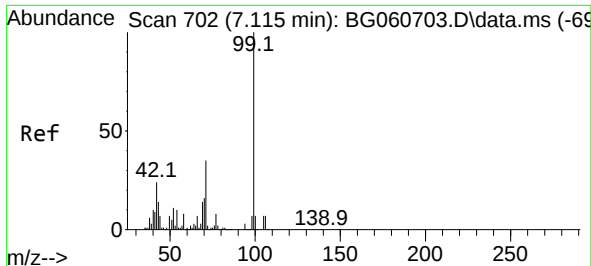
Tgt Ion:152 Resp: 55620  
Ion Ratio Lower Upper  
152 100  
150 157.2 130.2 195.4  
115 64.4 51.6 77.4



#5  
2-Fluorophenol  
Concen: 127.764 ng  
RT: 5.541 min Scan# 434  
Delta R.T. 0.006 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Tgt Ion:112 Resp: 426572  
Ion Ratio Lower Upper  
112 100  
64 72.2 58.4 87.6  
63 41.0 32.7 49.1

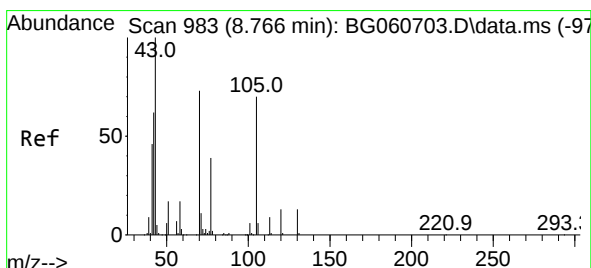
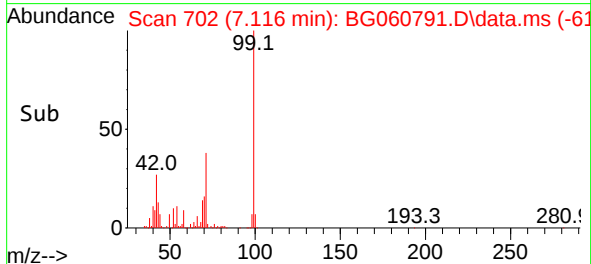
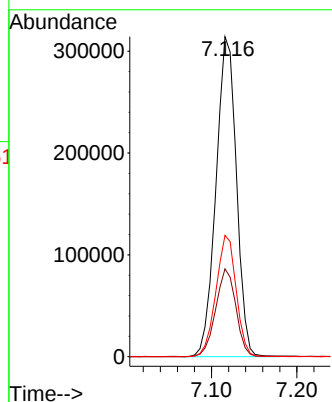
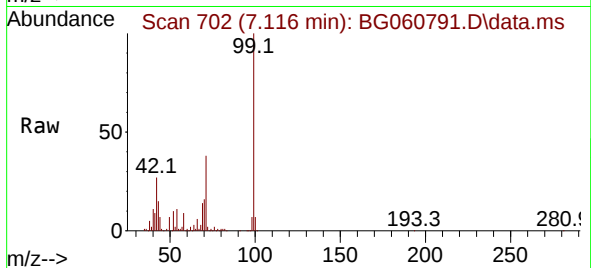




#7  
Phenol-d6  
Concen: 105.486 ng  
RT: 7.116 min Scan# 70  
Delta R.T. 0.000 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

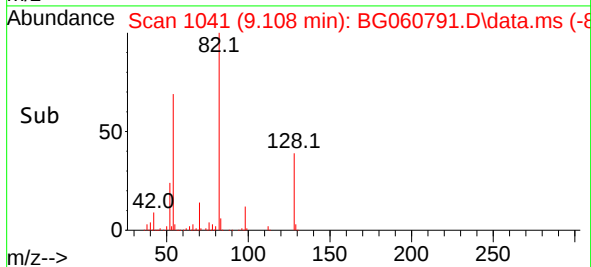
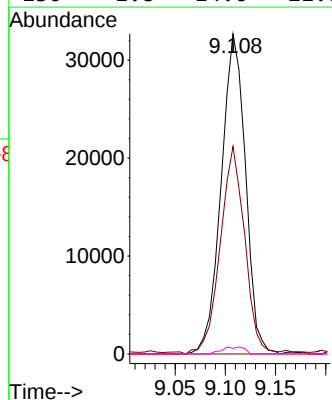
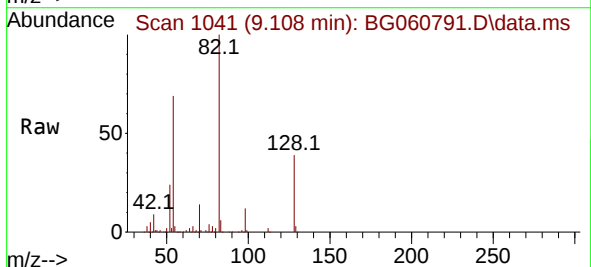
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-3

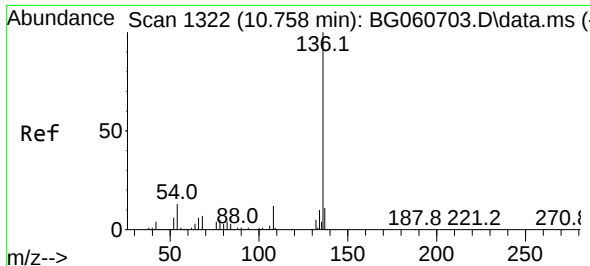
Tgt Ion: 99 Resp: 522789  
Ion Ratio Lower Upper  
99 100  
42 27.4 19.4 29.2  
71 37.9 28.2 42.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 14.554 ng  
RT: 9.108 min Scan# 1041  
Delta R.T. 0.342 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Tgt Ion: 70 Resp: 55004  
Ion Ratio Lower Upper  
70 100  
42 64.8 68.4 102.6#  
101 0.0 6.1 9.1#  
130 1.8 14.6 21.8#



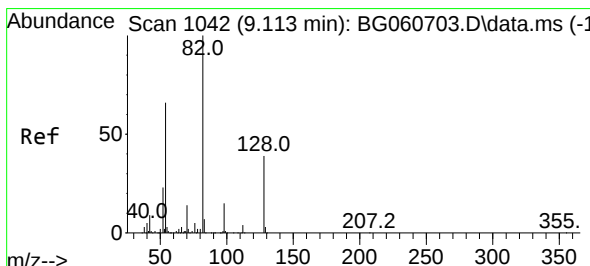
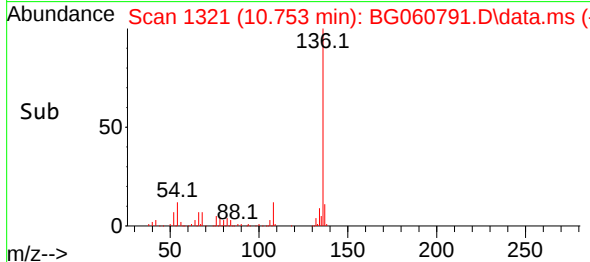
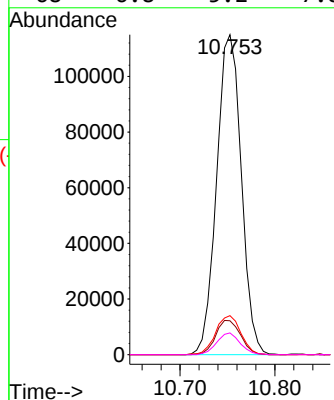
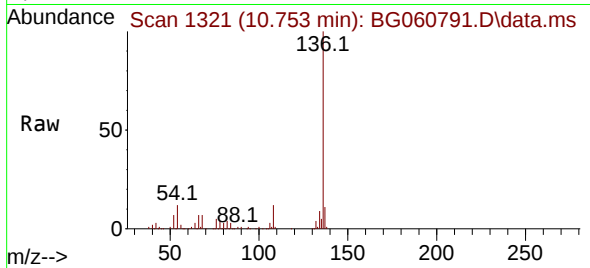


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.753 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-3

Tgt Ion:136 Resp: 207980

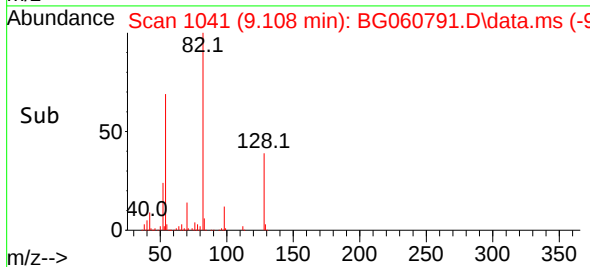
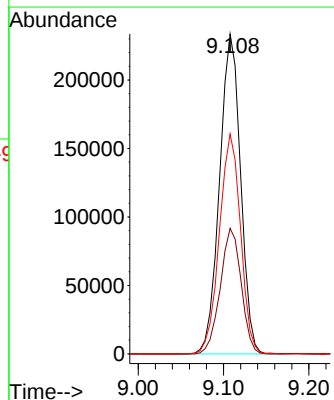
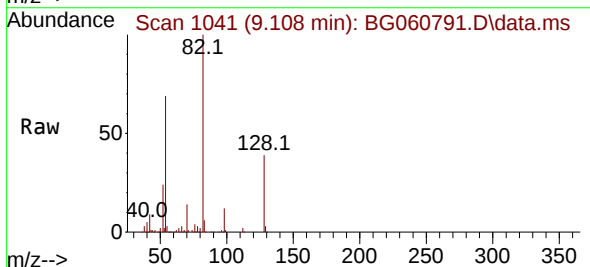
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.6  | 8.8   | 13.2  |
| 54  | 12.2  | 10.2  | 15.2  |
| 68  | 6.8   | 5.2   | 7.8   |



#23  
Nitrobenzene-d5  
Concen: 109.830 ng  
RT: 9.108 min Scan# 1041  
Delta R.T. -0.005 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Tgt Ion: 82 Resp: 400311

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 39.2  | 31.2  | 46.8  |
| 54  | 68.8  | 53.2  | 79.8  |

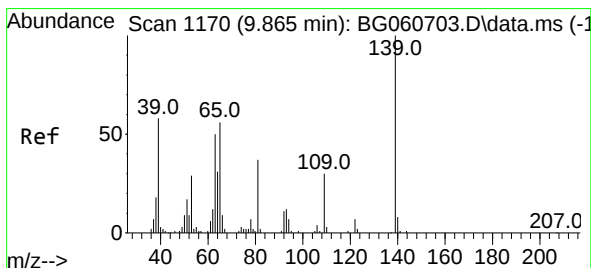
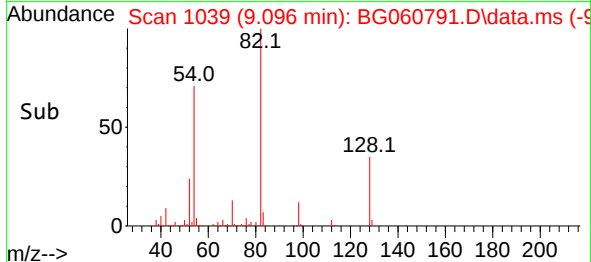
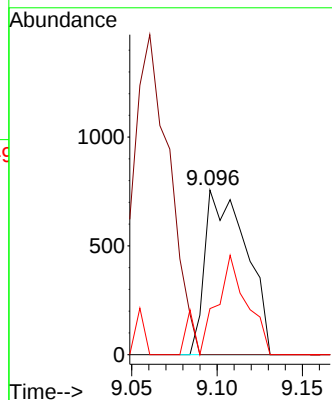
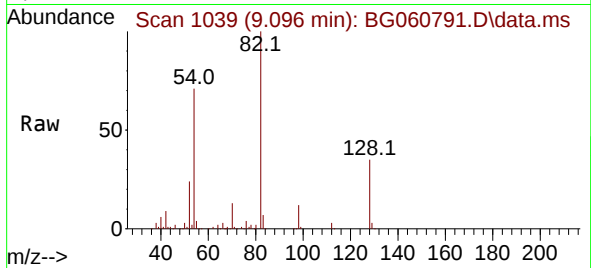




#24  
Nitrobenzene  
Concen: 3.070 ng  
RT: 9.096 min Scan# 1039  
Delta R.T. -0.058 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

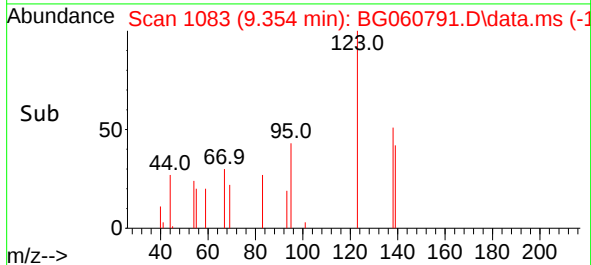
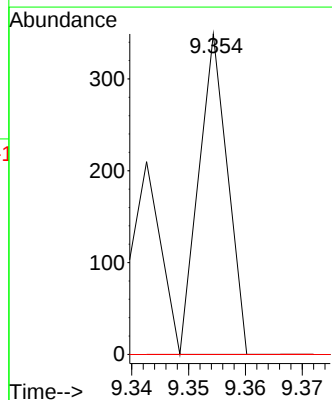
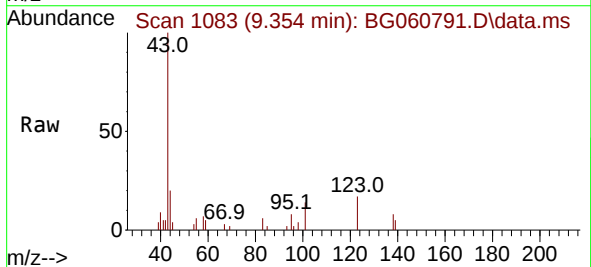
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-3

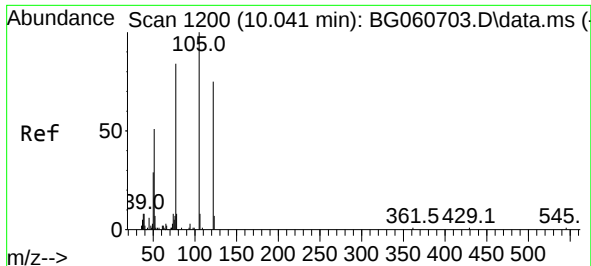
Tgt Ion: 77 Resp: 1278  
Ion Ratio Lower Upper  
77 100  
123 0.0 32.7 49.1#  
65 28.0 11.3 16.9#



#26  
2-Nitrophenol  
Concen: 3.055 ng  
RT: 9.354 min Scan# 1083  
Delta R.T. -0.511 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Tgt Ion:139 Resp: 123  
Ion Ratio Lower Upper  
139 100  
109 0.0 23.9 35.9#  
65 0.0 44.5 66.7#

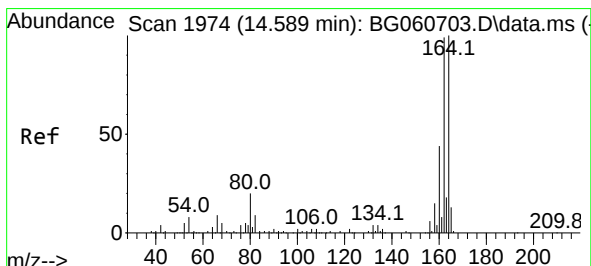
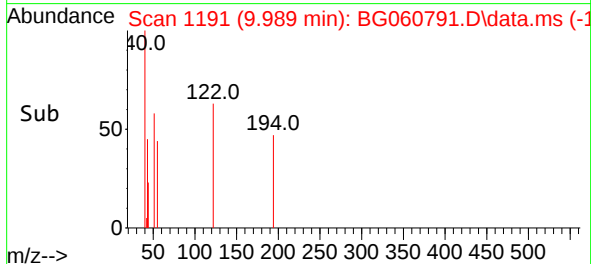
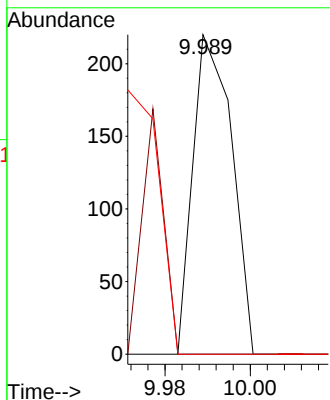
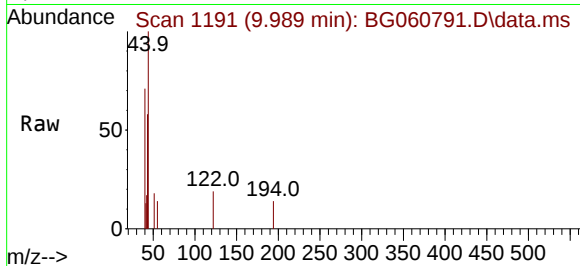




#32  
Benzoic acid  
Concen: 6.889 ng  
RT: 9.989 min Scan# 11  
Delta R.T. -0.052 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

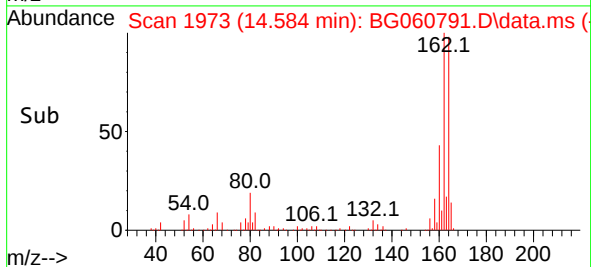
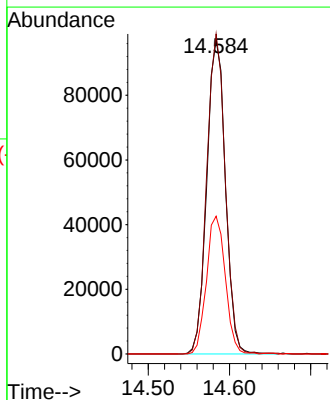
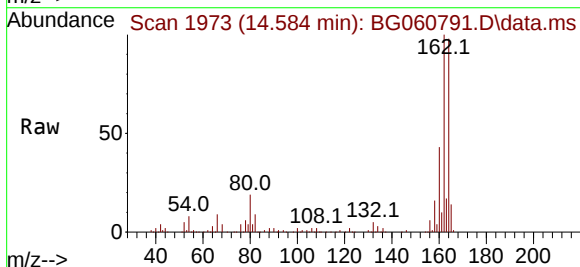
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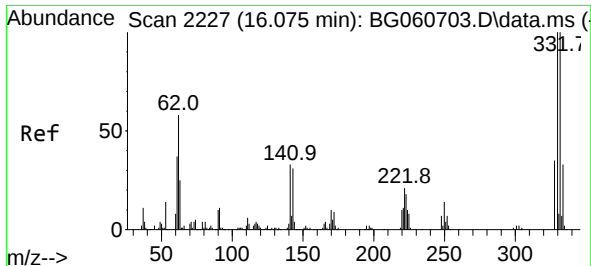
| Tgt Ion | 122   | Resp  | 139    |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 122     | 100   |       |        |
| 105     | 0.0   | 104.5 | 144.5# |
| 77      | 0.0   | 85.3  | 125.3# |



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.584 min Scan# 1973  
Delta R.T. -0.005 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

| Tgt Ion | 164   | Resp  | 154499 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 164     | 100   |       |        |
| 162     | 102.0 | 79.5  | 119.3  |
| 160     | 43.9  | 35.4  | 53.0   |





#42

2,4,6-Tribromophenol

Concen: 193.066 ng

RT: 16.070 min Scan# 21

Delta R.T. -0.005 min

Lab File: BG060791.D

Acq: 5 Apr 2024 11:38

Instrument :

BNA\_G

ClientSampleId :

SOIL-3

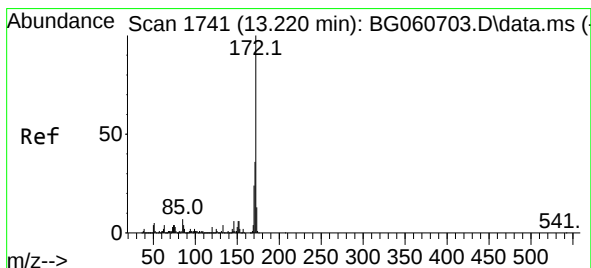
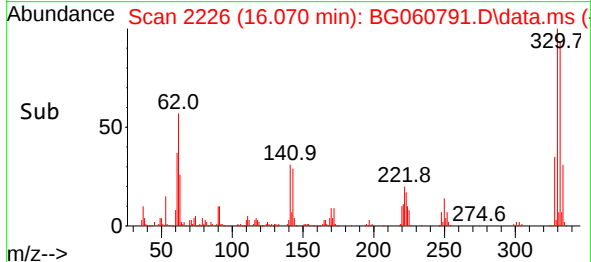
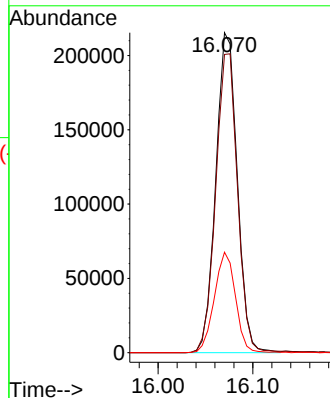
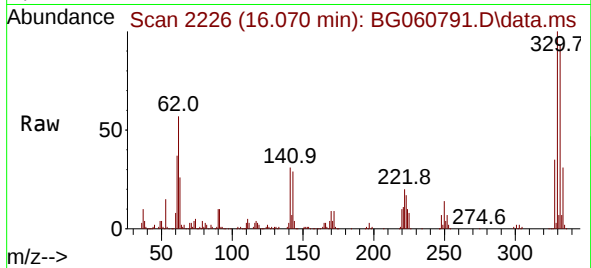
Tgt Ion:330 Resp: 338602

Ion Ratio Lower Upper

330 100

332 95.7 78.2 117.4

141 31.0 27.0 40.6



#45

2-Fluorobiphenyl

Concen: 88.425 ng

RT: 13.209 min Scan# 1739

Delta R.T. -0.011 min

Lab File: BG060791.D

Acq: 5 Apr 2024 11:38

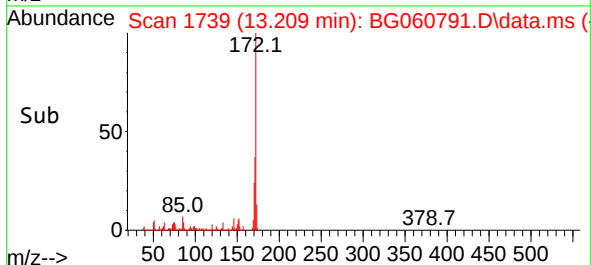
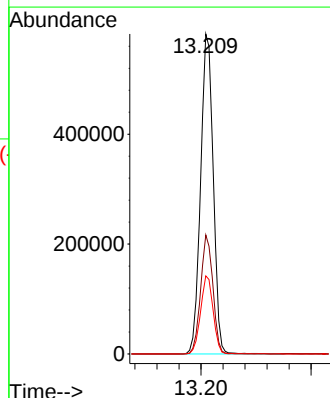
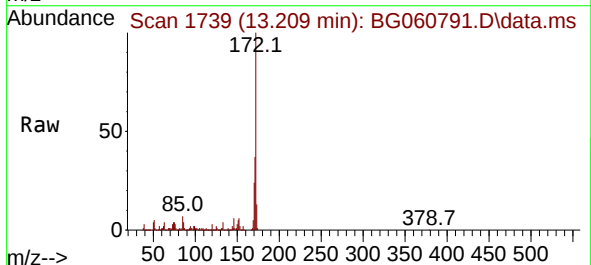
Tgt Ion:172 Resp: 930863

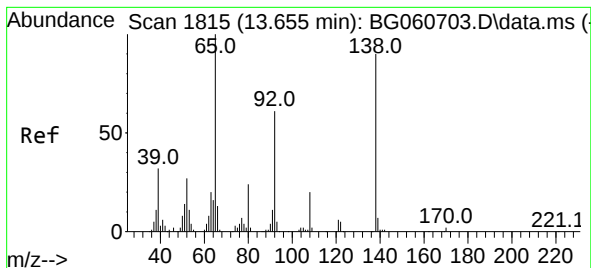
Ion Ratio Lower Upper

172 100

171 37.2 28.7 43.1

170 24.4 19.4 29.0





#48

2-Nitroaniline

Concen: 2.813 ng

RT: 13.403 min Scan# 1

Delta R.T. -0.252 min

Lab File: BG060791.D

Acq: 5 Apr 2024 11:38

Instrument :

BNA\_G

ClientSampleId :

SOIL-3

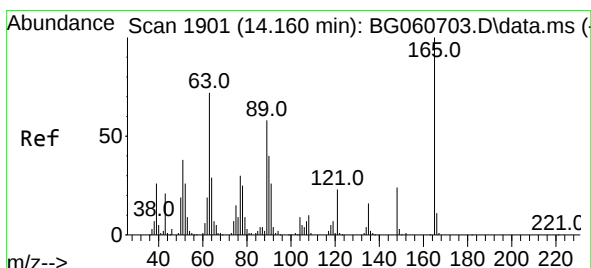
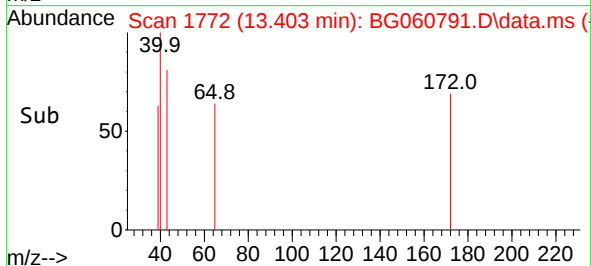
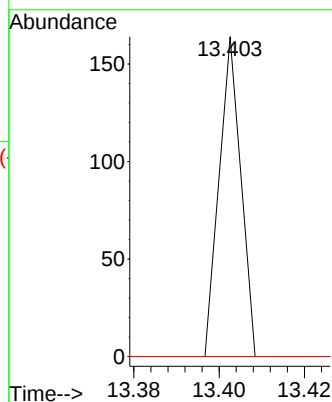
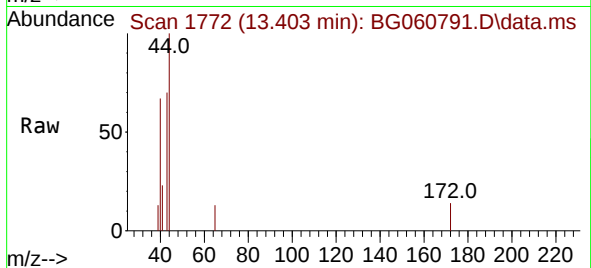
Tgt Ion: 65 Resp: 58

Ion Ratio Lower Upper

65 100

92 0.0 48.6 72.8#

138 0.0 72.2 108.4#



#51

2,6-Dinitrotoluene

Concen: 12.296 ng

RT: 14.584 min Scan# 1973

Delta R.T. 0.424 min

Lab File: BG060791.D

Acq: 5 Apr 2024 11:38

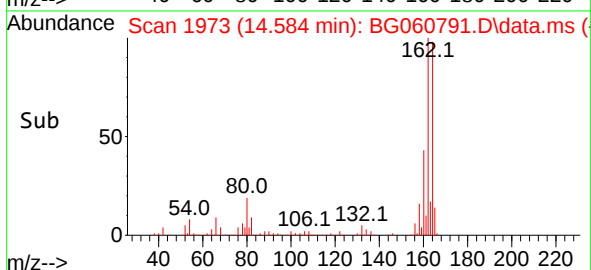
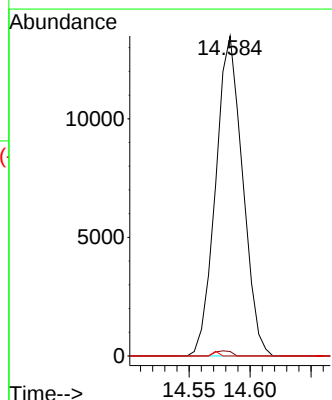
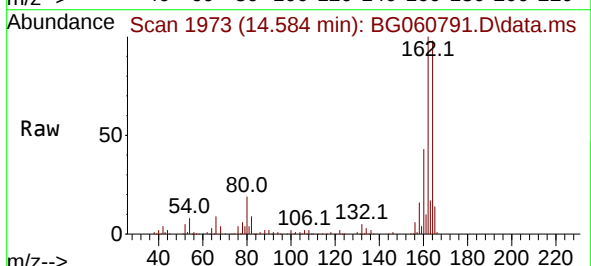
Tgt Ion: 165 Resp: 20757

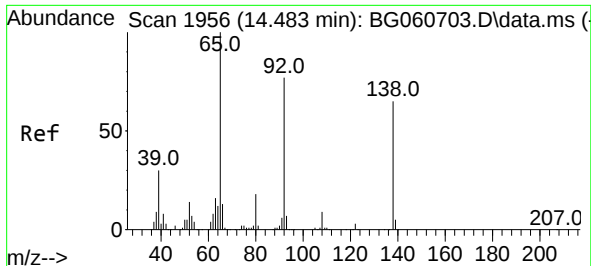
Ion Ratio Lower Upper

165 100

63 1.4 58.2 87.4#

89 0.0 46.1 69.1#

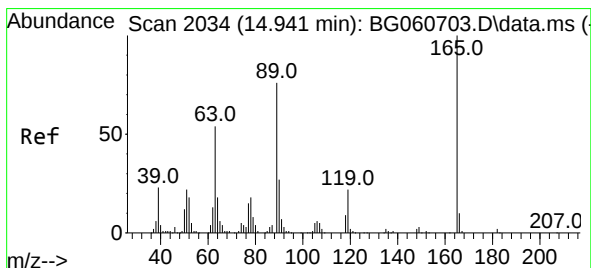
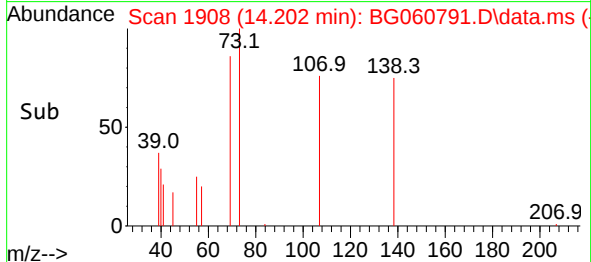
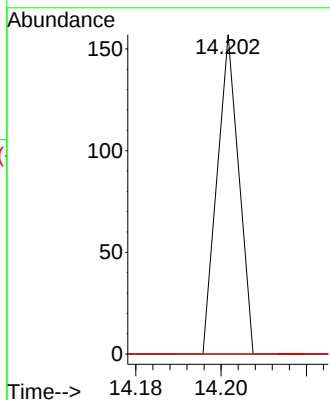
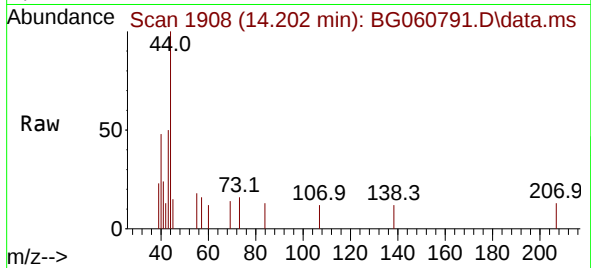




#53  
3-Nitroaniline  
Concen: 2.873 ng  
RT: 14.202 min Scan# 1956  
Delta R.T. -0.281 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

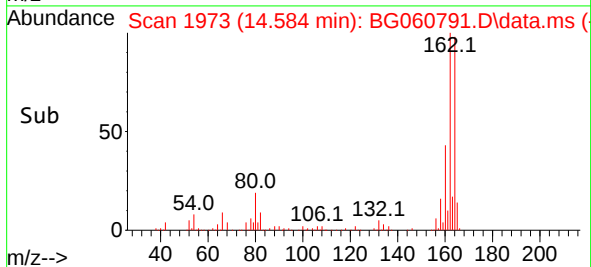
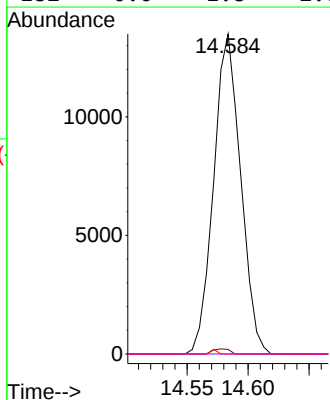
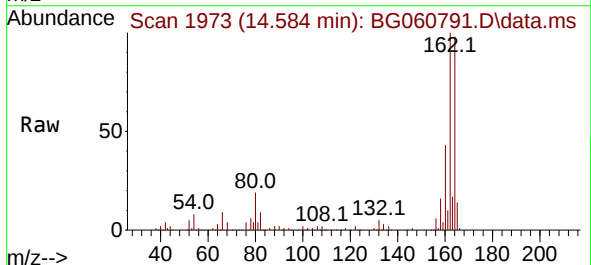
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-3

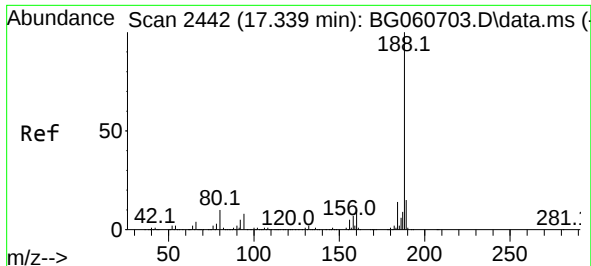
Tgt Ion:138 Resp: 55  
Ion Ratio Lower Upper  
138 100  
108 0.0 11.3 16.9#  
92 0.0 94.1 141.1#



#57  
2,4-Dinitrotoluene  
Concen: 10.336 ng  
RT: 14.584 min Scan# 1973  
Delta R.T. -0.357 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Tgt Ion:165 Resp: 20757  
Ion Ratio Lower Upper  
165 100  
63 1.4 43.4 65.0#  
89 0.0 61.0 91.6#  
182 0.0 1.8 2.6#

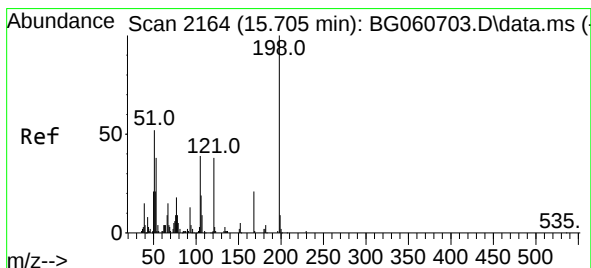
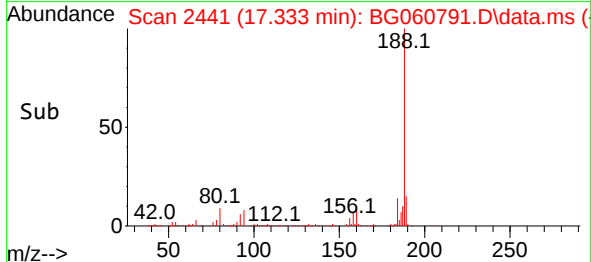
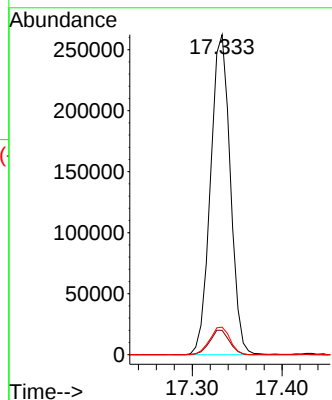
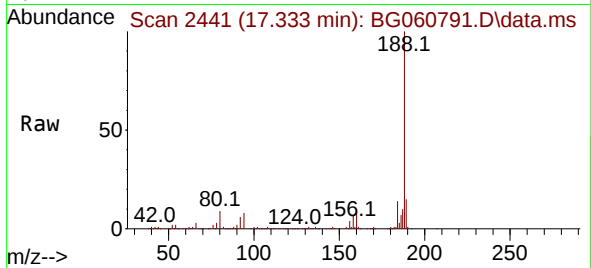




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.333 min Scan# 2442  
Delta R.T. -0.005 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

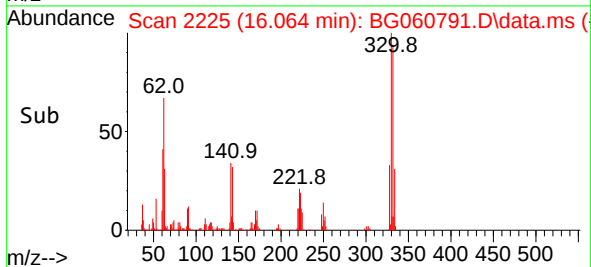
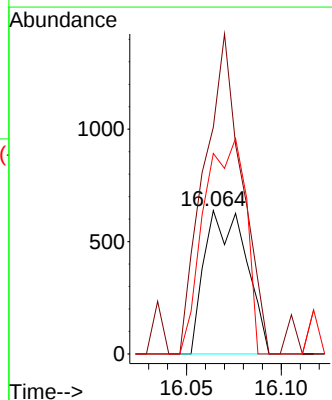
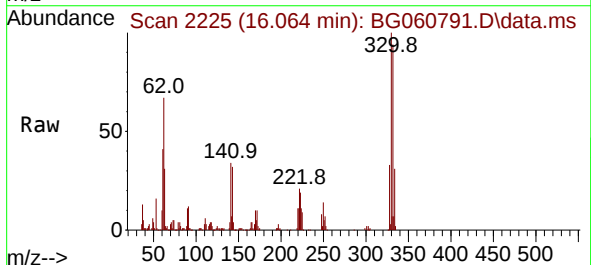
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-3

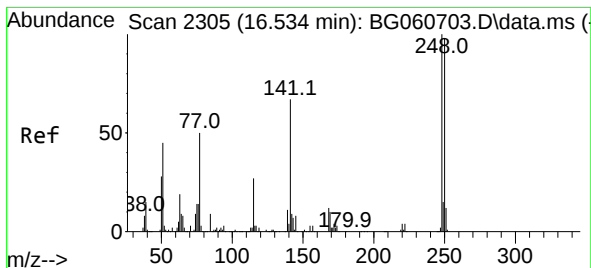
Tgt Ion:188 Resp: 400974  
Ion Ratio Lower Upper  
188 100  
94 7.6 6.6 9.8  
80 8.6 7.6 11.4



#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.537 ng  
RT: 16.064 min Scan# 2225  
Delta R.T. 0.359 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Tgt Ion:198 Resp: 976  
Ion Ratio Lower Upper  
198 100  
51 158.2 36.7 76.7#  
105 139.8 19.1 59.1#

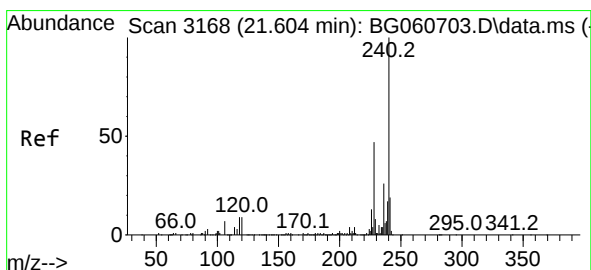
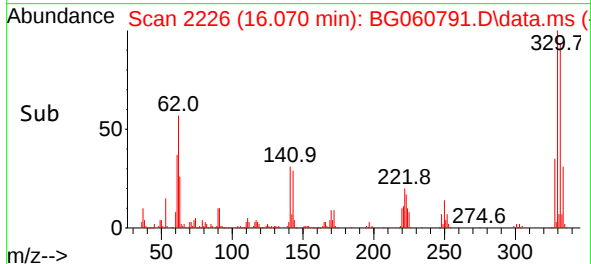
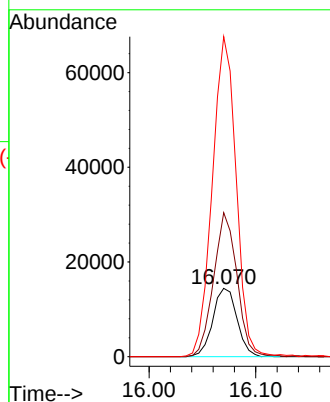
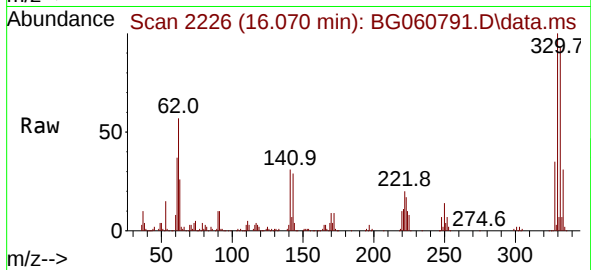




#67  
4-Bromophenyl-phenylether  
Concen: 5.593 ng  
RT: 16.070 min Scan# 21  
Delta R.T. -0.464 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

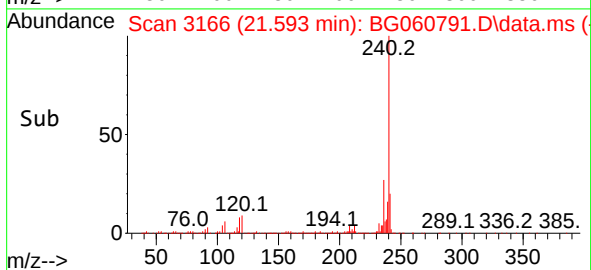
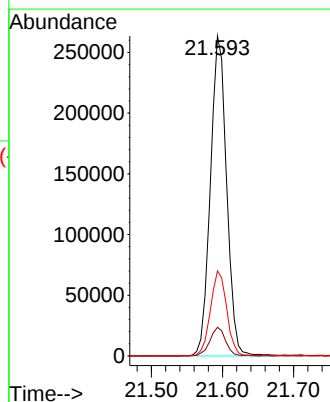
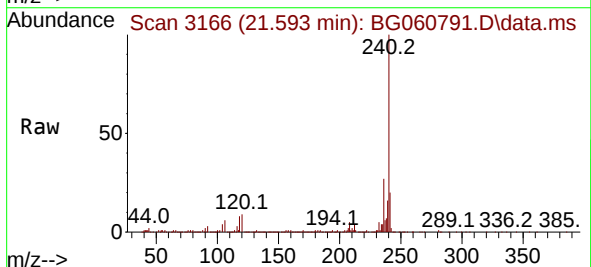
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-3

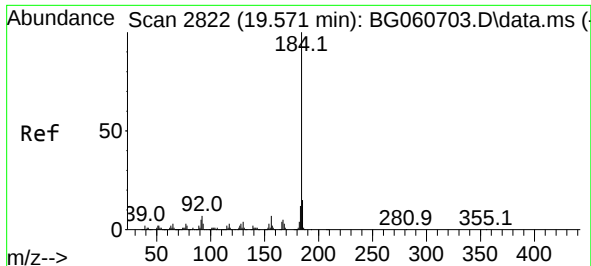
Tgt Ion:248 Resp: 22759  
Ion Ratio Lower Upper  
248 100  
250 210.7 78.3 117.5#  
141 468.4 53.7 80.5#



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.593 min Scan# 3166  
Delta R.T. -0.011 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Tgt Ion:240 Resp: 418725  
Ion Ratio Lower Upper  
240 100  
120 9.0 7.1 10.7  
236 26.6 20.7 31.1

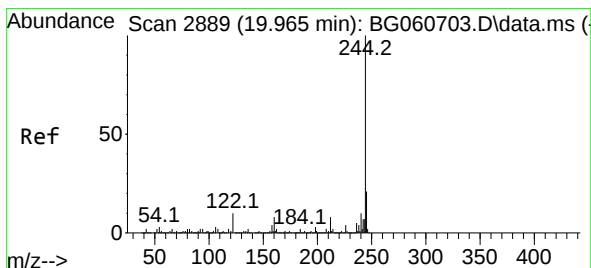
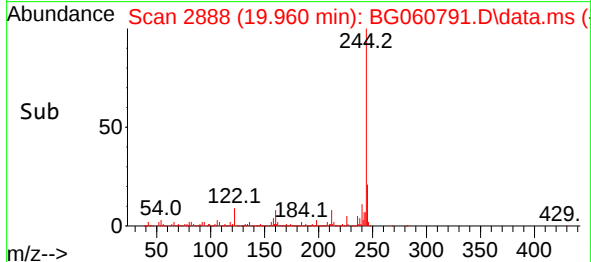
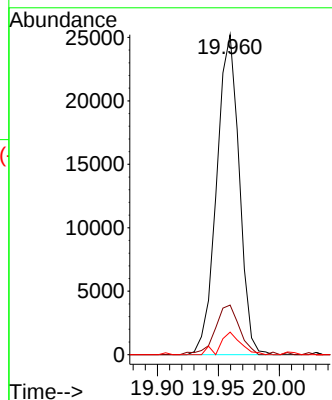
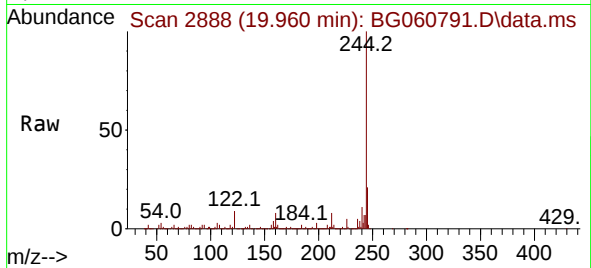




#77  
Benzidine  
Concen: 2.945 ng  
RT: 19.960 min Scan# 2888  
Delta R.T. 0.388 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

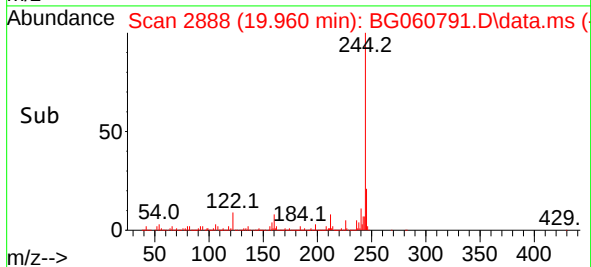
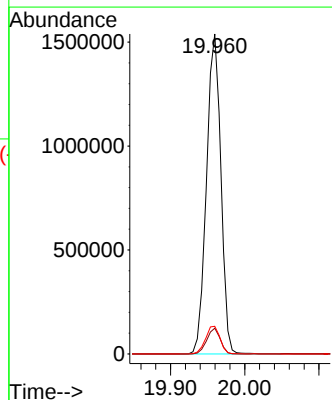
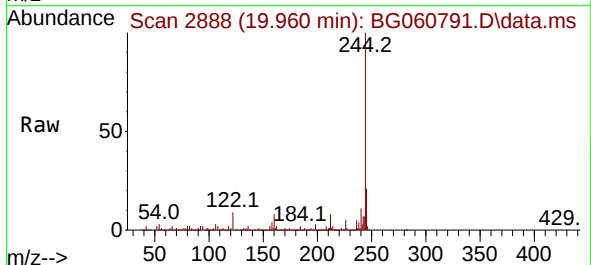
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-3

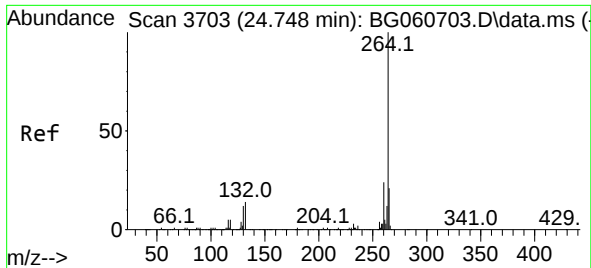
Tgt Ion:184 Resp: 32471  
Ion Ratio Lower Upper  
184 100  
185 15.5 11.8 17.6  
183 7.0 9.5 14.3#



#79  
Terphenyl-d14  
Concen: 87.096 ng  
RT: 19.960 min Scan# 2888  
Delta R.T. -0.005 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Tgt Ion:244 Resp: 2071141  
Ion Ratio Lower Upper  
244 100  
212 8.0 6.2 9.2  
122 8.6 7.8 11.8





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.736 min Scan# 31  
Delta R.T. -0.011 min  
Lab File: BG060791.D  
Acq: 5 Apr 2024 11:38

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-3

Tgt Ion:264 Resp: 476384  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.1  | 19.5  | 29.3  |
| 265 | 21.7  | 16.9  | 25.3  |

