

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG102820\  
 Data File : BG047104.D  
 Acq On : 28 Oct 2020 12:04  
 Operator : CG/JU  
 Sample : L4214-03  
 Misc : MDL-MDL-SOIL 4PPM  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2020

Manual Integrations  
 APPROVED

mohammad  
 10/29/2020 10:43:43 AM

Quant Time: Oct 28 12:54:05 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG102720.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 28 12:53:38 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.056  | 152  | 39905    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.871 | 136  | 147067   | 20.00  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.684 | 164  | 102309   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.434 | 188  | 263460   | 20.00  | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.699 | 240  | 351042   | 20.00  | ng    | # 0.00   |
| 86) Perylene-d12              | 24.937 | 264  | 351991   | 20.00  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.612  | 112  | 374046   | 166.16 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.210  | 99   | 516371   | 158.62 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.220  | 82   | 377042   | 122.77 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.176 | 330  | 274180   | 167.20 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.315 | 172  | 904114   | 124.94 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.042 | 244  | 2017289  | 111.74 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.503  | 88   | 5105     | 5.02   | ng    | 93       |
| 3) Pyridine                   | 3.908  | 79   | 11838    | 4.29   | ng    | # 86     |
| 4) n-Nitrosodimethylamine     | 3.820  | 42   | 6967     | 4.76   | ng    | # 64     |
| 6) Aniline                    | 7.375  | 93   | 17563    | 4.56   | ng    | 93       |
| 8) 2-Chlorophenol             | 7.622  | 128  | 10694    | 4.47   | ng    | 89       |
| 9) Benzaldehyde               | 7.187  | 77   | 12397    | 6.80   | ng    | 86       |
| 10) Phenol                    | 7.240  | 94   | 13544    | 4.41   | ng    | 78       |
| 11) bis(2-Chloroethyl)ether   | 7.469  | 93   | 11688    | 4.83   | ng    | 92       |
| 12) 1,3-Dichlorobenzene       | 7.945  | 146  | 13168    | 4.32   | ng    | # 87     |
| 13) 1,4-Dichlorobenzene       | 8.086  | 146  | 12483    | 4.05   | ng    | 91       |
| 14) 1,2-Dichlorobenzene       | 8.409  | 146  | 12042    | 4.13   | ng    | 99       |
| 15) Benzyl Alcohol            | 8.291  | 79   | 10637    | 4.19   | ng    | 90       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.568  | 45   | 16274    | 4.25   | ng    | 95       |
| 17) 2-Methylphenol            | 8.491  | 107  | 8674     | 4.10   | ng    | # 90     |
| 18) Hexachloroethane          | 9.149  | 117  | 5093     | 4.42   | ng    | # 79     |
| 19) n-Nitroso-di-n-propyla... | 8.850  | 70   | 9008     | 4.06   | ng    | # 98     |
| 20) 3+4-Methylphenols         | 8.826  | 107  | 12215    | 4.29   | ng    | 93       |
| 22) Acetophenone              | 8.879  | 105  | 18516    | 4.67   | ng    | # 95     |
| 24) Nitrobenzene              | 9.267  | 77   | 15085    | 4.73   | ng    | # 82     |
| 25) Isophorone                | 9.784  | 82   | 26016    | 4.74   | ng    | 99       |
| 26) 2-Nitrophenol             | 9.978  | 139  | 5588     | 4.04   | ng    | # 93     |
| 27) 2,4-Dimethylphenol        | 10.031 | 122  | 8773     | 4.64   | ng    | # 79     |
| 28) bis(2-Chloroethoxy)met... | 10.266 | 93   | 14126    | 4.16   | ng    | # 91     |
| 29) 2,4-Dichlorophenol        | 10.512 | 162  | 10378    | 3.99   | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 10.730 | 180  | 14247    | 4.44   | ng    | 90       |
| 31) Naphthalene               | 10.918 | 128  | 35878    | 4.66   | ng    | 99       |
| 33) 4-Chloroaniline           | 11.029 | 127  | 12602    | 3.77   | ng    | 97       |
| 34) Hexachlorobutadiene       | 11.206 | 225  | 10695    | 4.45   | ng    | 86       |
| 35) Caprolactam               | 11.764 | 113  | 3358     | 3.88   | ng    | 91       |
| 36) 4-Chloro-3-methylphenol   | 12.134 | 107  | 10370    | 3.84   | ng    | 96       |
| 37) 2-Methylnaphthalene       | 12.522 | 142  | 25630    | 4.29   | ng    | # 89     |
| 38) 1-Methylnaphthalene       | 12.739 | 142  | 25702m   | 4.54   | ng    |          |
| 40) 1,2,4,5-Tetrachloroben... | 12.886 | 216  | 18389    | 4.92   | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.868 | 237  | 7903     | 3.87   | ng    | 94       |
| 43) 2,4,6-Trichlorophenol     | 13.127 | 196  | 9484     | 3.89   | ng    | 97       |
| 44) 2,4,5-Trichlorophenol     | 13.198 | 196  | 9905     | 4.00   | ng    | 93       |

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 Sample : L4214-03  
 Misc : MDL-MDL-SOIL 4PPM  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2020

Manual Integrations  
 APPROVED

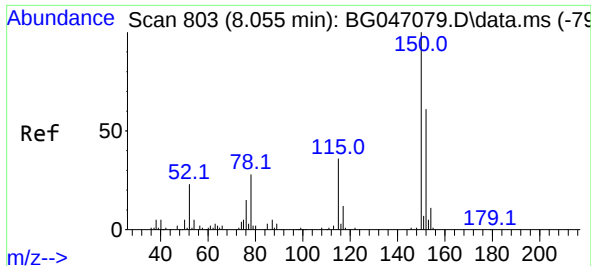
mohammad  
 10/29/2020 10:43:43 AM

Quant Time: Oct 28 12:54:05 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG102720.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 28 12:53:38 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|------|-------|----------|
| 46) 1,1'-Biphenyl             | 13.521 | 154  | 35270    | 4.55 | ng    | 93       |
| 47) 2-Chloronaphthalene       | 13.568 | 162  | 28541    | 4.48 | ng #  | 91       |
| 48) 2-Nitroaniline            | 13.767 | 65   | 7750     | 3.73 | ng #  | 76       |
| 49) Acenaphthylene            | 14.414 | 152  | 40244    | 4.35 | ng    | 100      |
| 50) Dimethylphthalate         | 14.132 | 163  | 37806    | 4.49 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.249 | 165  | 6965     | 3.96 | ng #  | 45       |
| 52) Acenaphthene              | 14.755 | 154  | 27956    | 4.63 | ng    | 95       |
| 53) 3-Nitroaniline            | 14.584 | 138  | 6009     | 3.44 | ng #  | 99       |
| 55) Dibenzofuran              | 15.084 | 168  | 45484    | 4.69 | ng    | 97       |
| 56) 4-Nitrophenol             | 14.890 | 139  | 4359     | 3.19 | ng #  | 87       |
| 57) 2,4-Dinitrotoluene        | 15.042 | 165  | 10335    | 4.09 | ng #  | 81       |
| 58) Fluorene                  | 15.730 | 166  | 34929    | 4.46 | ng    | 96       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.313 | 232  | 10602    | 4.03 | ng #  | 95       |
| 60) Diethylphthalate          | 15.495 | 149  | 38291    | 4.56 | ng    | 95       |
| 61) 4-Chlorophenyl-phenyle... | 15.724 | 204  | 21417    | 4.59 | ng    | 95       |
| 62) 4-Nitroaniline            | 15.742 | 138  | 6767     | 3.61 | ng    | 90       |
| 63) Azobenzene                | 16.018 | 77   | 35224    | 4.72 | ng    | 89       |
| 65) 4,6-Dinitro-2-methylph... | 15.812 | 198  | 5367     | 3.31 | ng    | 89       |
| 66) n-Nitrosodiphenylamine    | 15.935 | 169  | 34041    | 4.50 | ng    | 93       |
| 67) 4-Bromophenyl-phenylether | 16.617 | 248  | 13343    | 3.85 | ng #  | 92       |
| 68) Hexachlorobenzene         | 16.735 | 284  | 15808    | 4.32 | ng    | 93       |
| 69) Atrazine                  | 16.876 | 200  | 13789    | 4.43 | ng    | 97       |
| 70) Pentachlorophenol         | 17.093 | 266  | 6476     | 3.04 | ng    | 89       |
| 71) Phenanthrene              | 17.475 | 178  | 63991    | 4.55 | ng    | 92       |
| 72) Anthracene                | 17.569 | 178  | 64581    | 4.68 | ng    | 96       |
| 73) Carbazole                 | 17.833 | 167  | 54793    | 4.47 | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.386 | 149  | 72703    | 4.80 | ng    | 97       |
| 75) Fluoranthene              | 19.478 | 202  | 88582    | 4.90 | ng    | 95       |
| 77) Benzidine                 | 19.661 | 184  | 31118    | 3.88 | ng #  | 93       |
| 78) Pyrene                    | 19.843 | 202  | 95626    | 4.27 | ng    | 97       |
| 80) Butylbenzylphthalate      | 20.718 | 149  | 31766    | 3.70 | ng #  | 87       |
| 81) Benzo(a)anthracene        | 21.682 | 228  | 102953   | 4.48 | ng    | 95       |
| 82) 3,3'-Dichlorobenzidine    | 21.594 | 252  | 33840    | 4.06 | ng #  | 98       |
| 83) Chrysene                  | 21.746 | 228  | 97958    | 4.47 | ng    | 96       |
| 84) Bis(2-ethylhexyl)phtha... | 21.582 | 149  | 47519    | 3.93 | ng #  | 90       |
| 85) Di-n-octyl phthalate      | 22.792 | 149  | 83461    | 4.11 | ng #  | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.609 | 276  | 107134   | 4.17 | ng #  | 86       |
| 88) Benzo(b)fluoranthene      | 23.897 | 252  | 97157    | 4.22 | ng #  | 96       |
| 89) Benzo(k)fluoranthene      | 23.967 | 252  | 96372    | 4.31 | ng #  | 95       |
| 90) Benzo(a)pyrene            | 24.778 | 252  | 86814    | 4.04 | ng #  | 97       |
| 91) Dibenzo(a,h)anthracene    | 28.674 | 278  | 89028    | 4.27 | ng #  | 91       |
| 92) Benzo(g,h,i)perylene      | 29.749 | 276  | 87945    | 4.24 | ng #  | 92       |

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





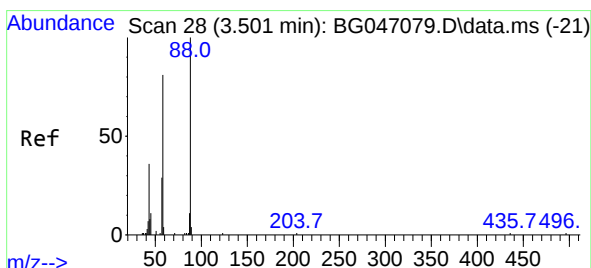
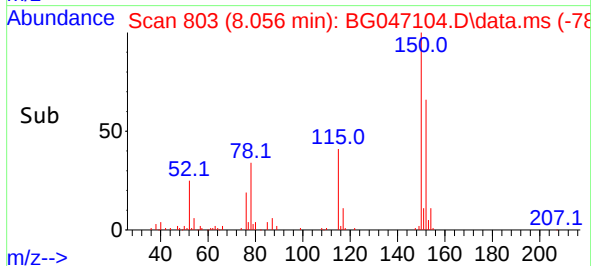
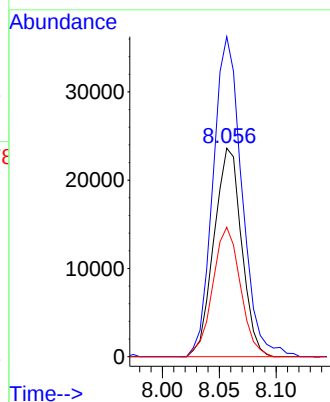
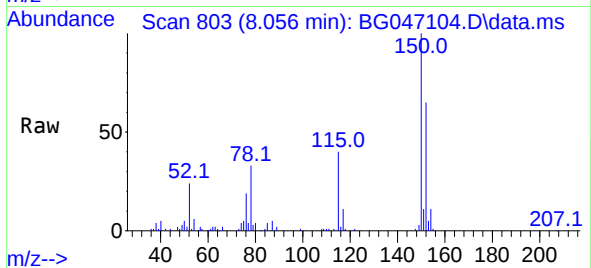
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1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.056 min Scan# 803  
Delta R.T. 0.001 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 39905 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 153.5 | 125.0 | 187.6 |
| 115       | 62.1  | 41.8  | 62.6  |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

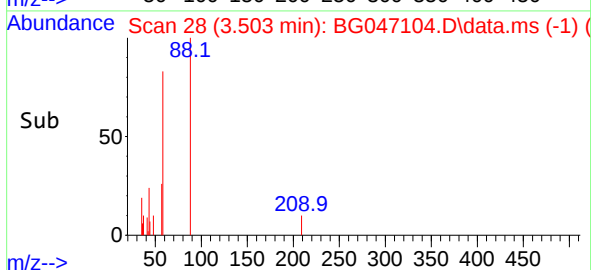
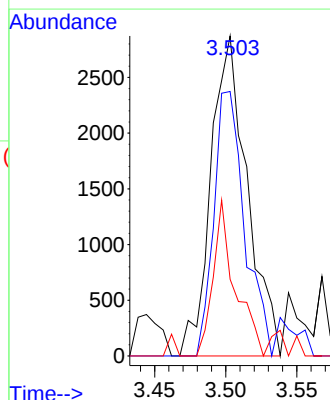
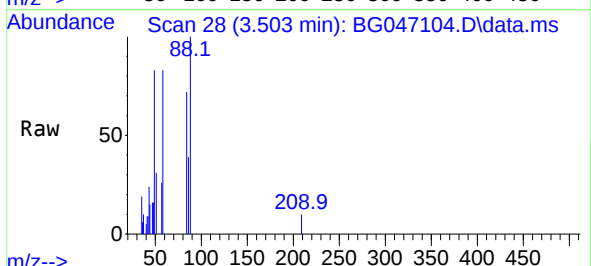
Manual Integrations  
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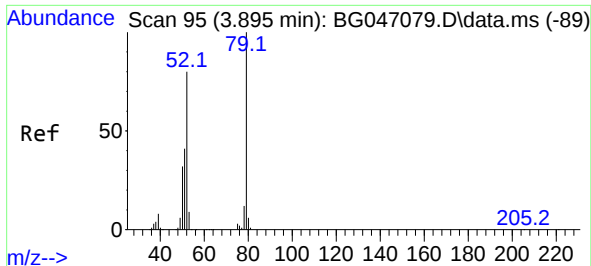
mohammad  
10/29/2020 10:43:43 AM



#2  
1,4-Dioxane  
Concen: 5.02 ng  
RT: 3.503 min Scan# 28  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 88    | Resp: | 5105 |
| Ion Ratio | Lower | Upper |      |
| 88        | 100   |       |      |
| 58        | 69.9  | 61.6  | 92.4 |
| 43        | 29.4  | 21.3  | 31.9 |





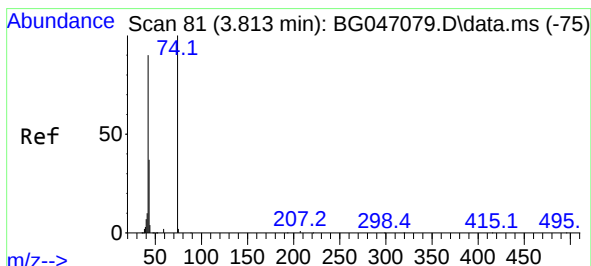
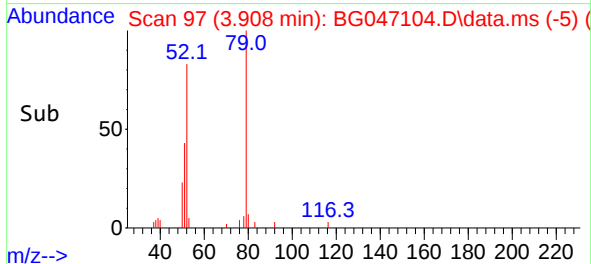
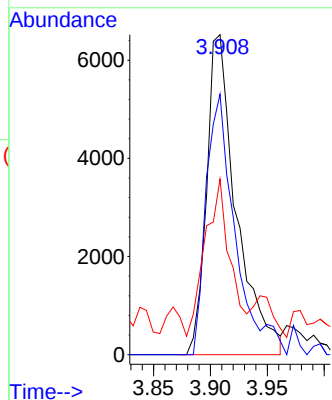
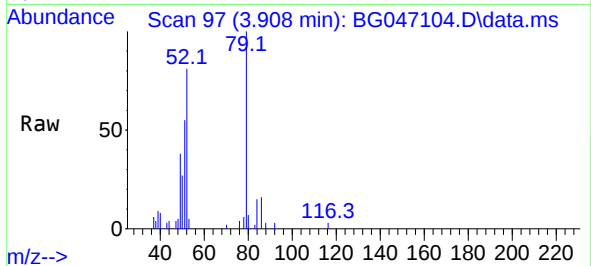
#3  
Pyridine  
Concen: 4.29 ng  
RT: 3.908 min Scan# 97  
Delta R.T. 0.013 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion: 79 Resp: 11838  
Ion Ratio Lower Upper  
79 100  
52 81.4 61.3 91.9  
51 54.9 28.4 42.6#

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

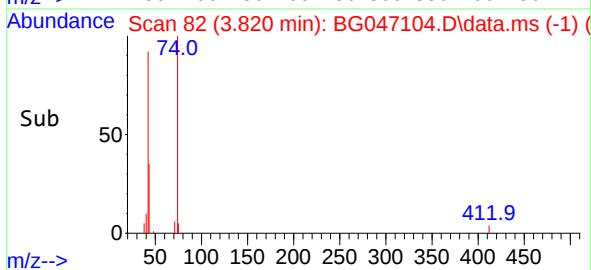
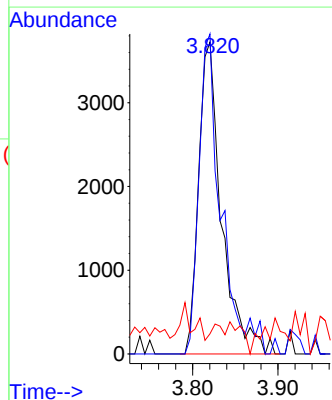
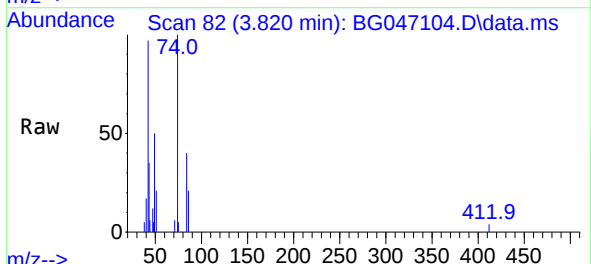
Manual Integrations  
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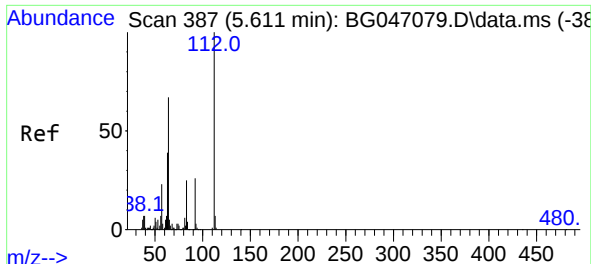
mohammad  
10/29/2020 10:43:43 AM



#4  
n-Nitrosodimethylamine  
Concen: 4.76 ng  
RT: 3.820 min Scan# 82  
Delta R.T. 0.007 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

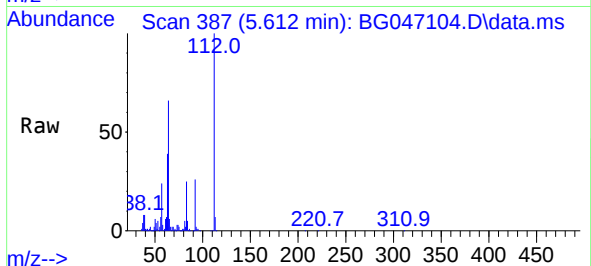
Tgt Ion: 42 Resp: 6967  
Ion Ratio Lower Upper  
42 100  
74 102.6 120.4 180.6#  
44 6.5 6.2 9.2





#5  
2-Fluorophenol  
Concen: 166.16 ng  
RT: 5.612 min Scan# 387  
Delta R.T. 0.001 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

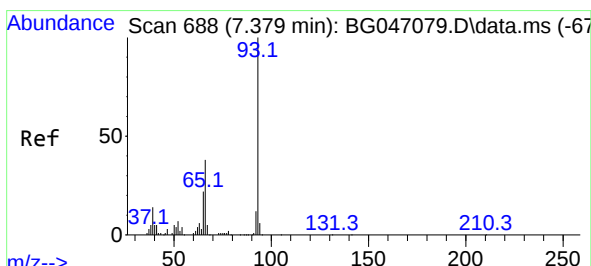
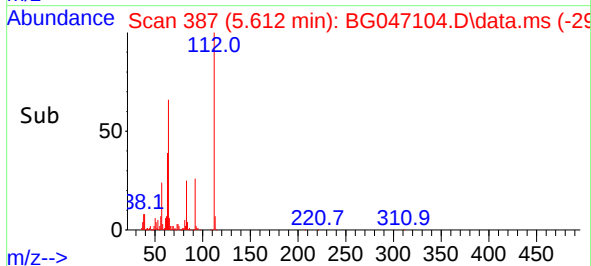
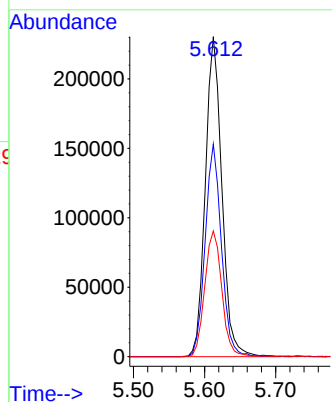
Instrument :  
BNA\_G  
ClientSampleId :  
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Tgt Ion: 112 Resp: 374046  
Ion Ratio Lower Upper  
112 100  
64 66.5 46.7 70.1  
63 39.3 22.8 34.2#

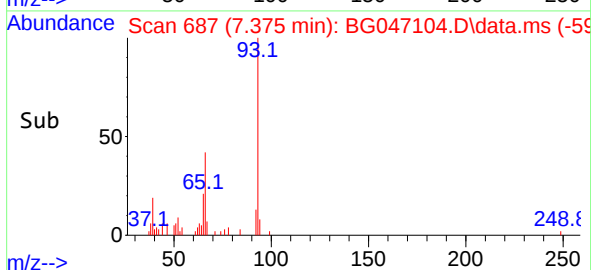
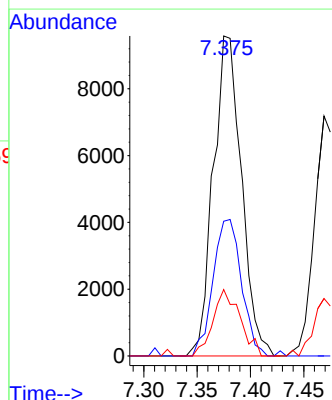
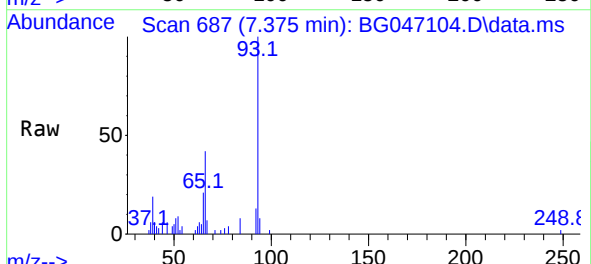
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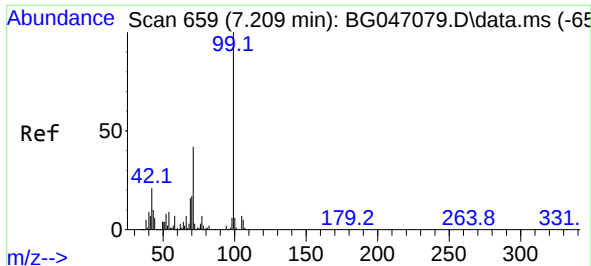
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10/29/2020 10:43:43 AM



#6  
Aniline  
Concen: 4.56 ng  
RT: 7.375 min Scan# 687  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion: 93 Resp: 17563  
Ion Ratio Lower Upper  
93 100  
66 42.1 29.5 44.3  
65 20.7 15.5 23.3





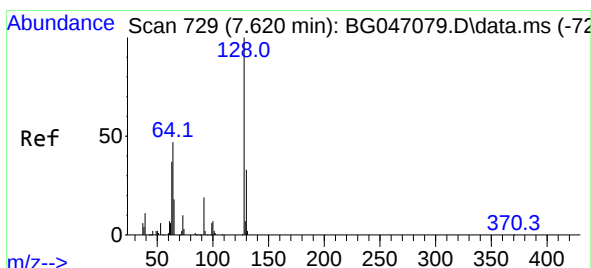
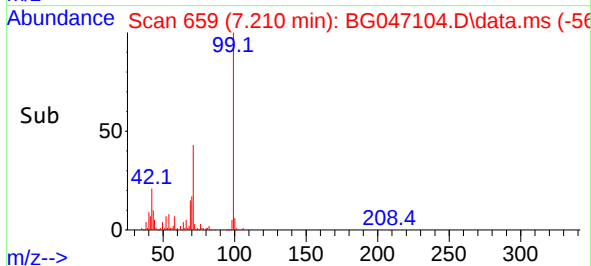
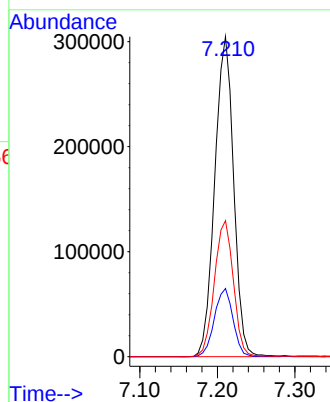
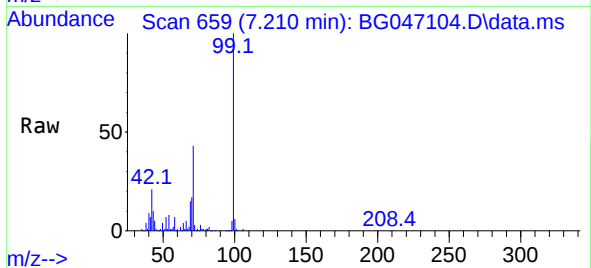
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Phenol-d6  
Concen: 158.62 ng  
RT: 7.210 min Scan# 659  
Delta R.T. 0.001 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion: 99 Resp: 516371  
Ion Ratio Lower Upper  
99 100  
42 21.3 12.8 19.2#  
71 42.5 24.6 36.8#

Instrument :  
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ClientSampleId :  
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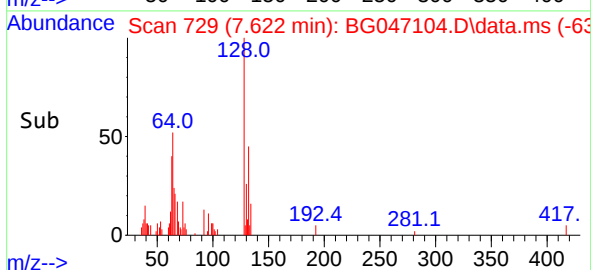
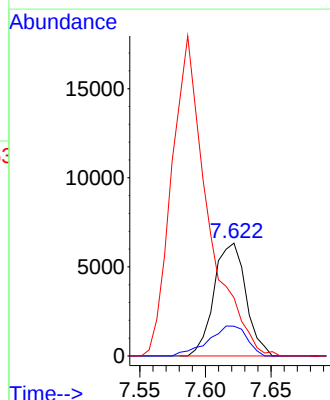
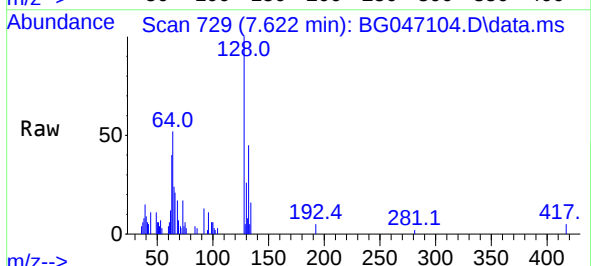
Manual Integrations  
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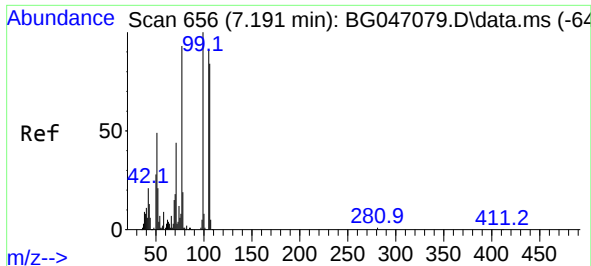
mohammad  
10/29/2020 10:43:43 AM



#8  
2-Chlorophenol  
Concen: 4.47 ng  
RT: 7.622 min Scan# 729  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion: 128 Resp: 10694  
Ion Ratio Lower Upper  
128 100  
130 26.4 12.6 52.6  
64 51.6 24.8 64.8





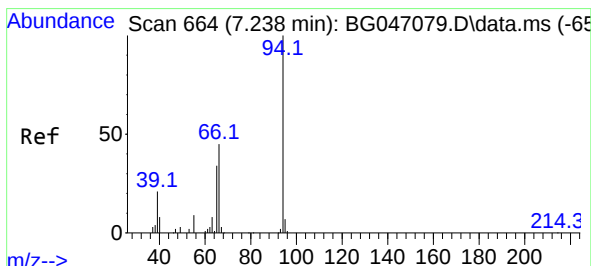
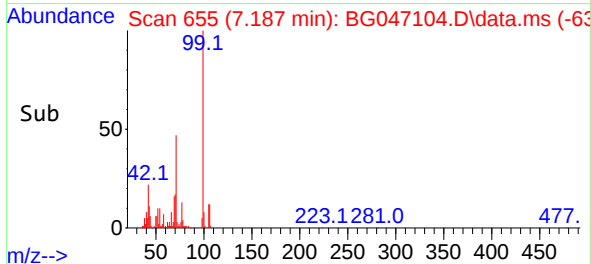
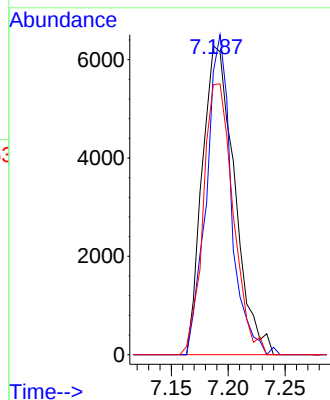
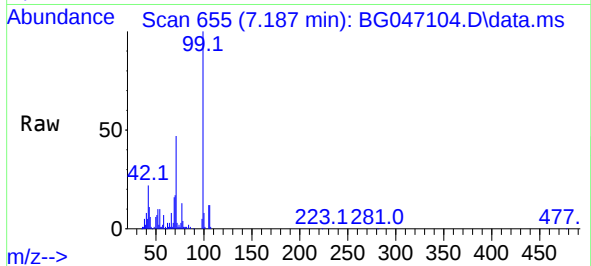
#9  
Benzaldehyde  
Concen: 6.80 ng  
RT: 7.187 min Scan# 655  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 12397 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 105      | 91.5  | 85.9  | 125.9 |
| 106      | 87.4  | 80.9  | 120.9 |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

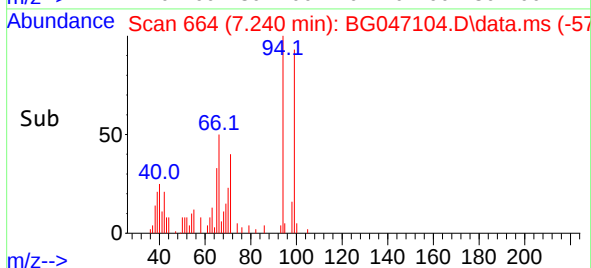
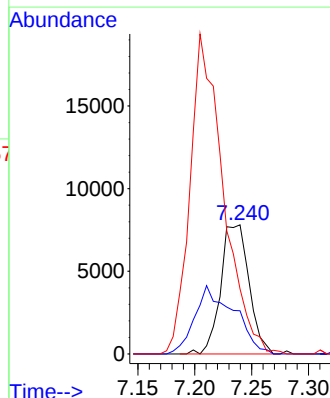
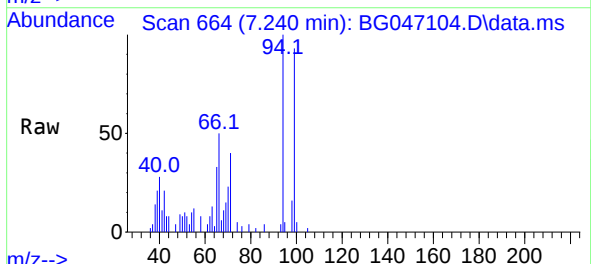
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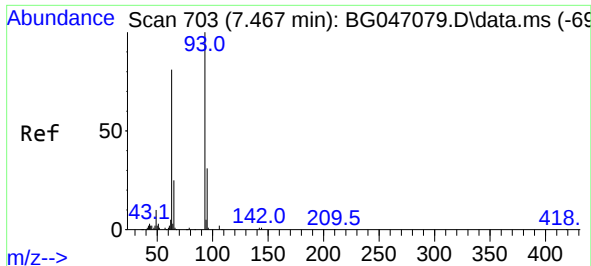
mohammad  
10/29/2020 10:43:43 AM



#10  
Phenol  
Concen: 4.41 ng  
RT: 7.240 min Scan# 664  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

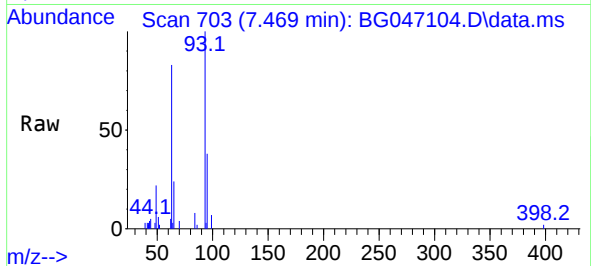
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 13544 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 33.4  | 6.6   | 46.6  |
| 66       | 50.3  | 13.9  | 53.9  |





#11  
bis(2-Chloroethyl)ether  
Concen: 4.83 ng  
RT: 7.469 min Scan# 703  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

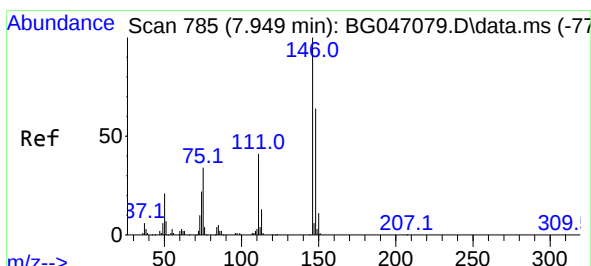
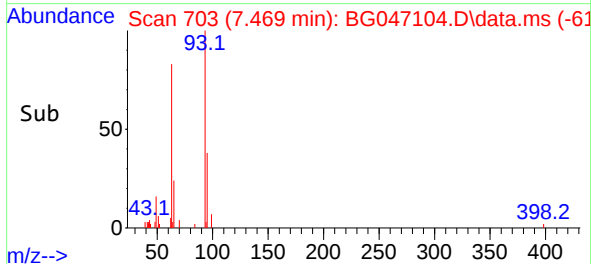
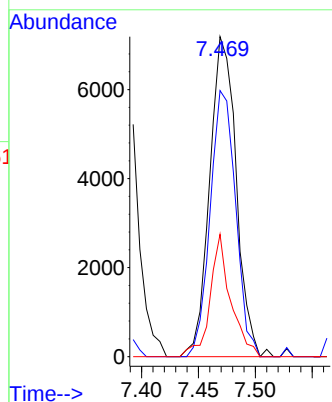


Tgt Ion: 93 Resp: 11688

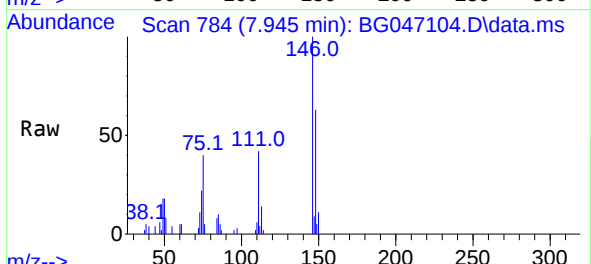
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 93  | 100   |       |       |
| 63  | 83.2  | 56.4  | 96.4  |
| 95  | 38.3  | 13.8  | 53.8  |

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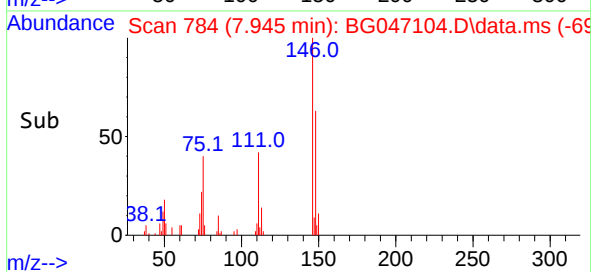
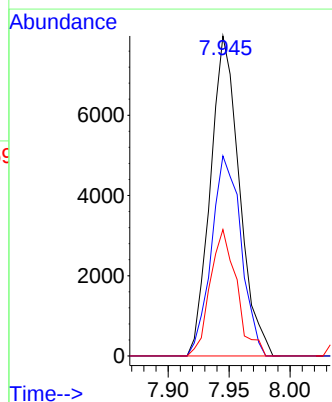


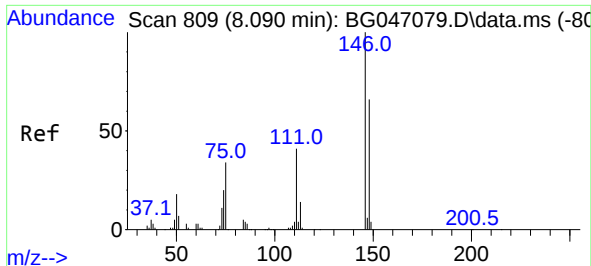
#12  
1,3-Dichlorobenzene  
Concen: 4.32 ng  
RT: 7.945 min Scan# 784  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



Tgt Ion: 146 Resp: 13168

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 148 | 67.3  | 50.1  | 75.1  |
| 75  | 39.5  | 20.1  | 30.1  |





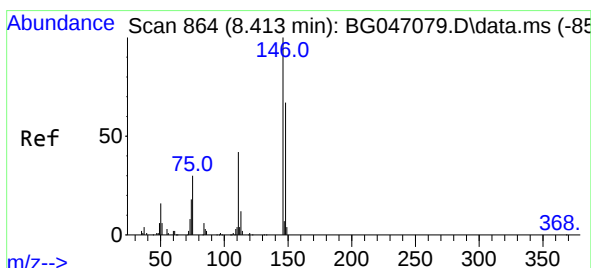
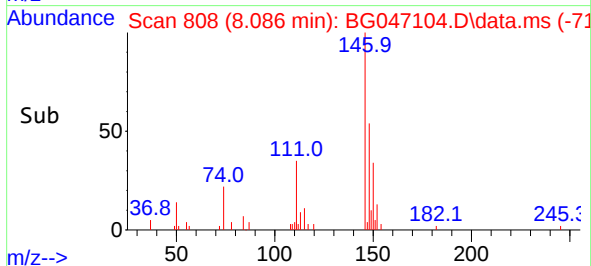
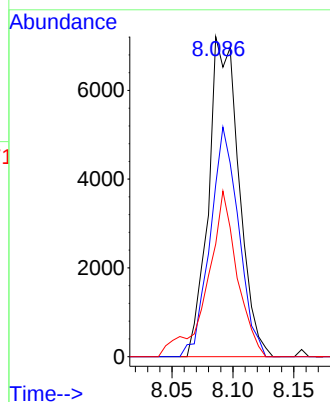
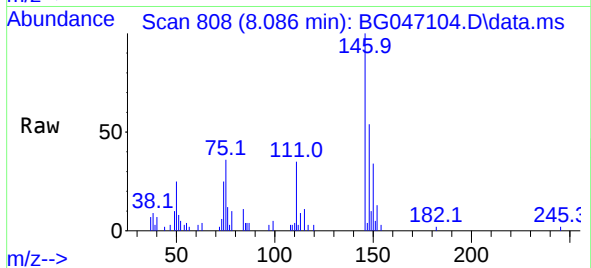
#13  
1,4-Dichlorobenzene  
Concen: 4.05 ng  
RT: 8.086 min Scan# 808  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 12483 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 148      | 53.8  | 51.1  | 76.7  |
| 111      | 35.2  | 29.7  | 44.5  |

Instrument :  
BNA\_G  
ClientSampleId :  
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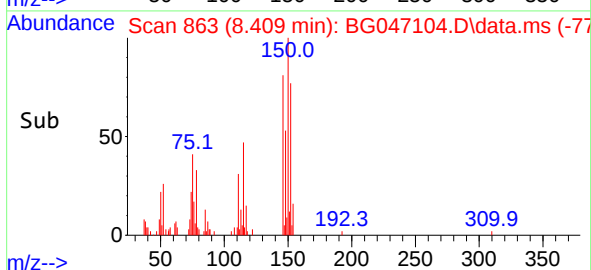
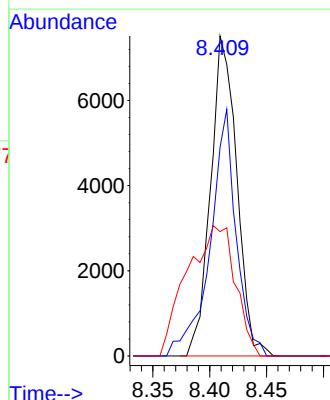
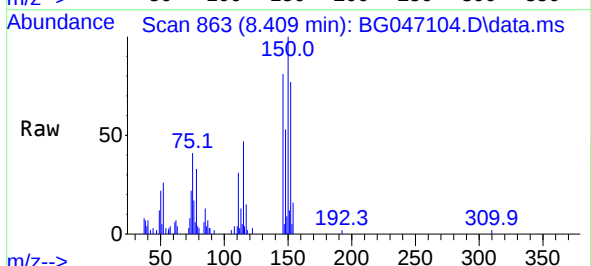
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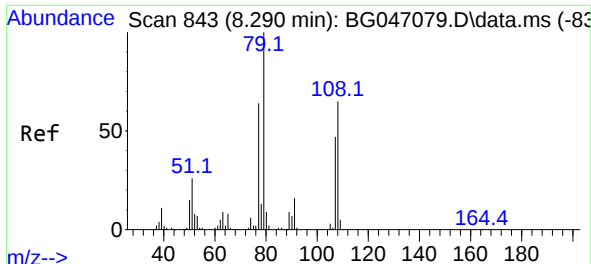
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10/29/2020 10:43:43 AM



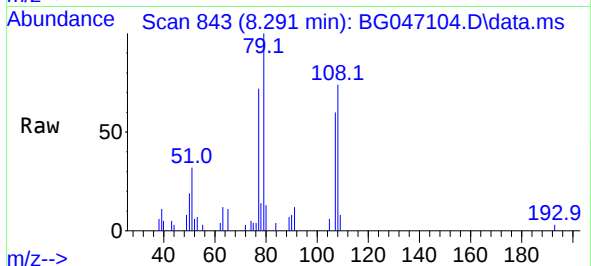
#14  
1,2-Dichlorobenzene  
Concen: 4.13 ng  
RT: 8.409 min Scan# 863  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 12042 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 148      | 65.2  | 53.0  | 79.6  |
| 111      | 38.9  | 30.7  | 46.1  |

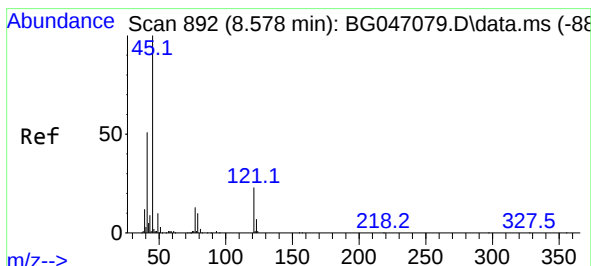
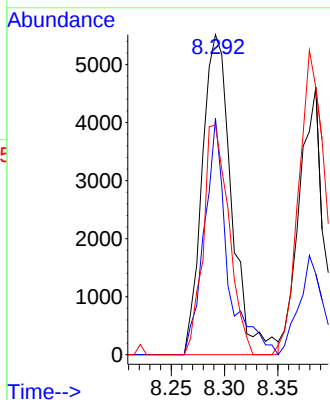
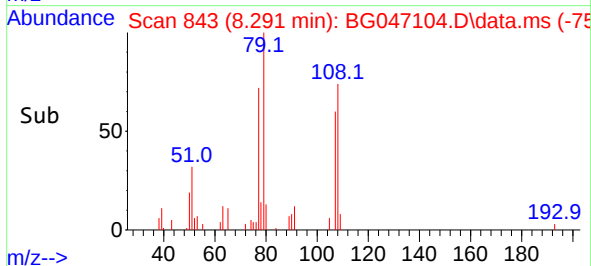




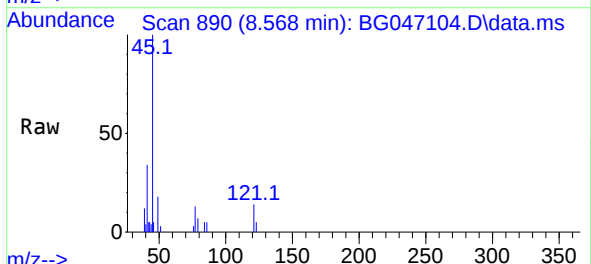
#15  
Benzyl Alcohol  
Concen: 4.19 ng  
RT: 8.291 min Scan# 843  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



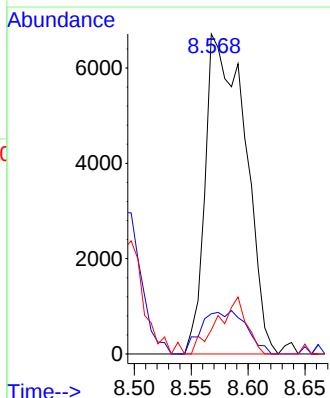
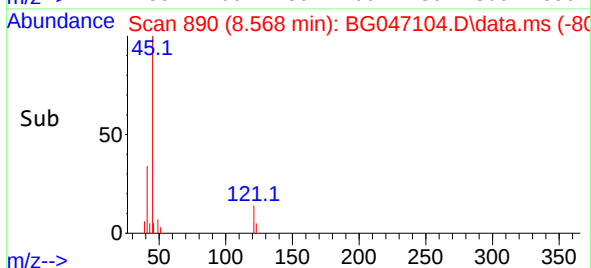
Tgt Ion: 79 Resp: 10637  
Ion Ratio Lower Upper  
79 100  
108 73.8 65.5 98.3  
77 71.8 50.1 75.1



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 4.25 ng  
RT: 8.568 min Scan# 890  
Delta R.T. -0.010 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



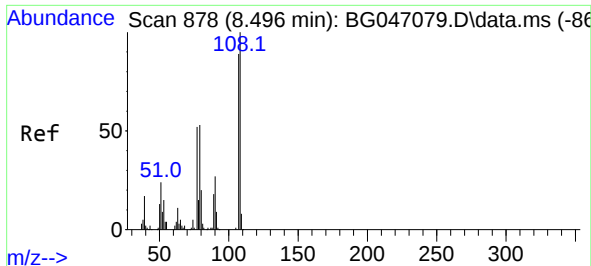
Tgt Ion: 45 Resp: 16274  
Ion Ratio Lower Upper  
45 100  
77 12.6 0.0 33.4  
79 7.5 0.0 30.8



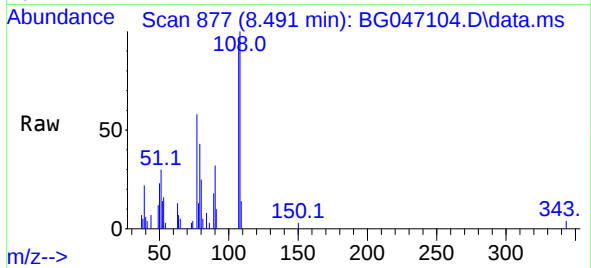
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

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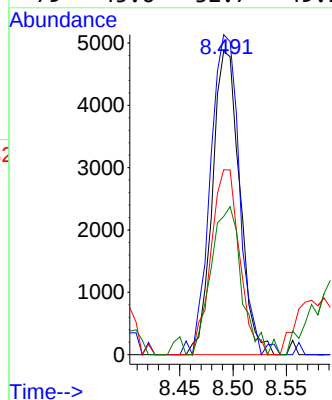
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#17  
2-Methylphenol  
Concen: 4.10 ng  
RT: 8.491 min Scan# 877  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



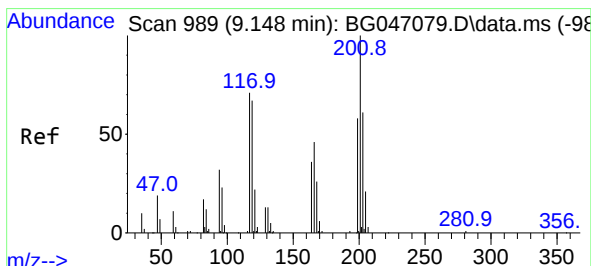
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 8674  |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 105.4 | 87.2  | 130.8 |
| 77       | 60.9  | 33.8  | 50.8# |
| 79       | 45.6  | 32.7  | 49.1  |



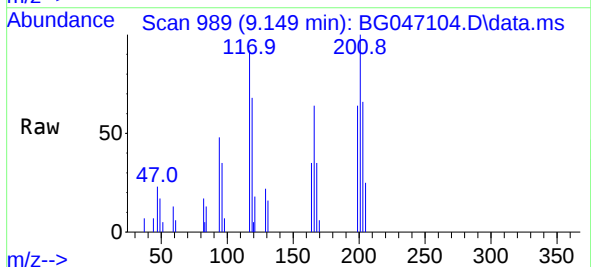
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

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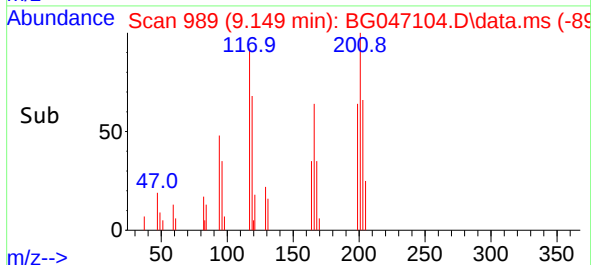
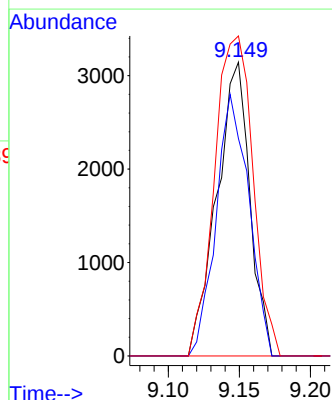
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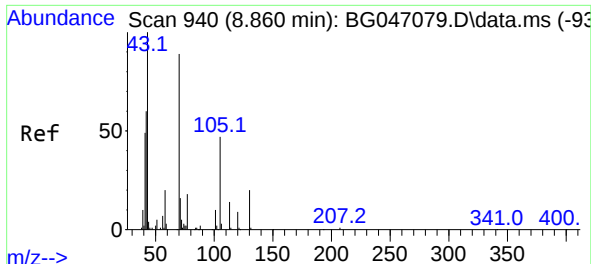


#18  
Hexachloroethane  
Concen: 4.42 ng  
RT: 9.149 min Scan# 989  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 5093   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 74.0  | 77.5  | 116.3# |
| 201      | 108.9 | 104.9 | 157.3  |





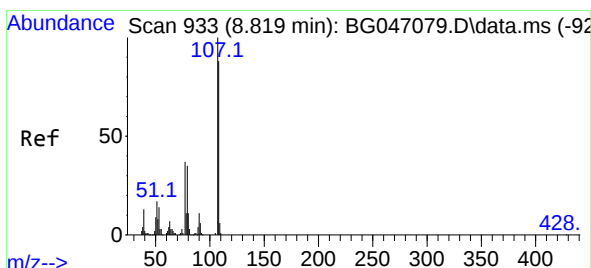
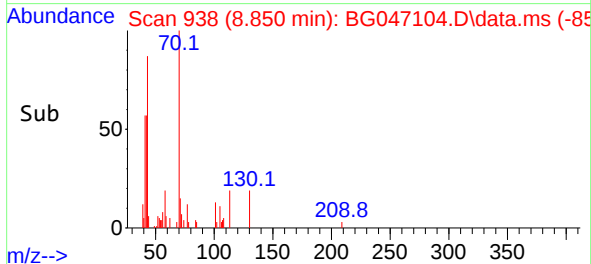
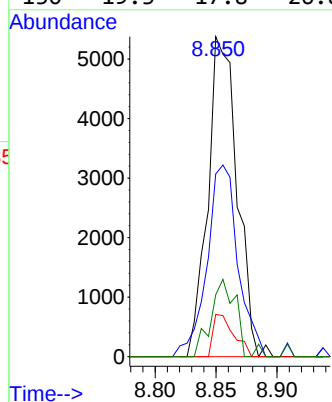
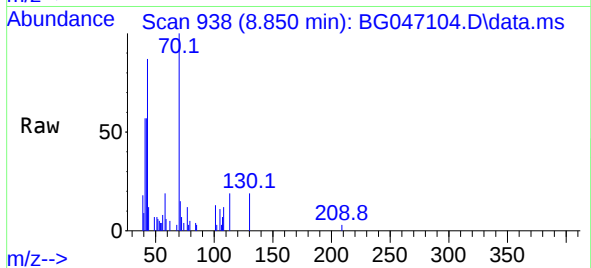
#19  
n-Nitroso-di-n-propylamine  
Concen: 4.06 ng  
RT: 8.850 min Scan# 938  
Delta R.T. -0.010 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 9008  |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 57.1  | 45.6  | 68.4  |
| 101      | 13.2  | 8.4   | 12.6  |
| 130      | 19.3  | 17.8  | 26.8  |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

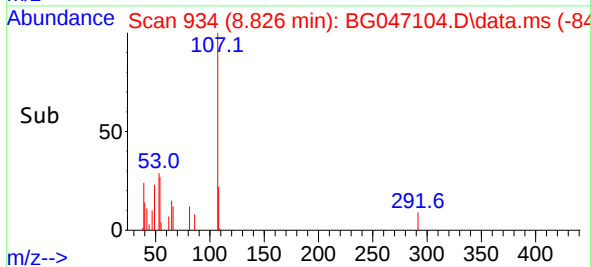
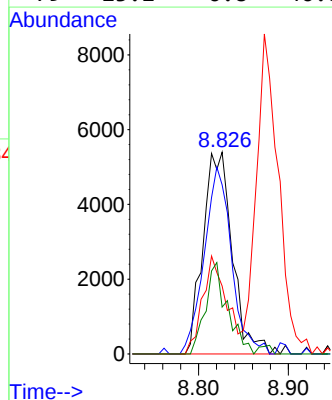
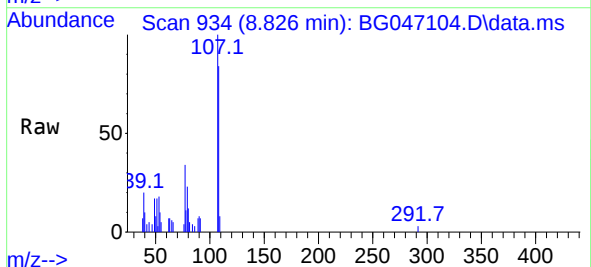
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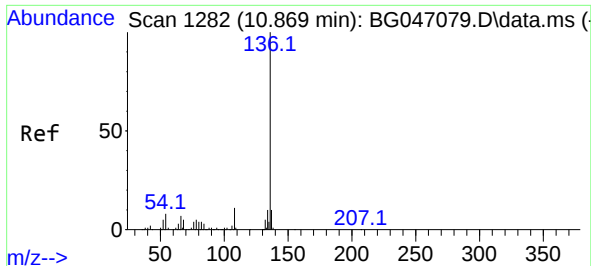
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#20  
3+4-Methylphenols  
Concen: 4.29 ng  
RT: 8.826 min Scan# 934  
Delta R.T. 0.007 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

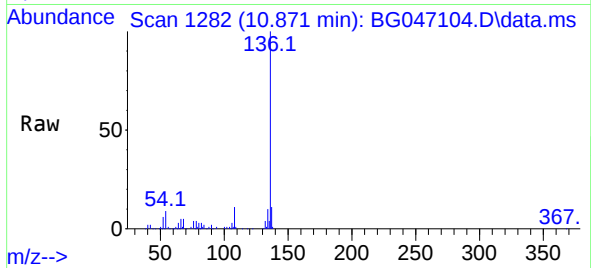
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 12215 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 83.8  | 70.6  | 110.6 |
| 77       | 33.7  | 10.2  | 50.2  |
| 79       | 23.2  | 6.8   | 46.8  |





#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.871 min Scan# 1282  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

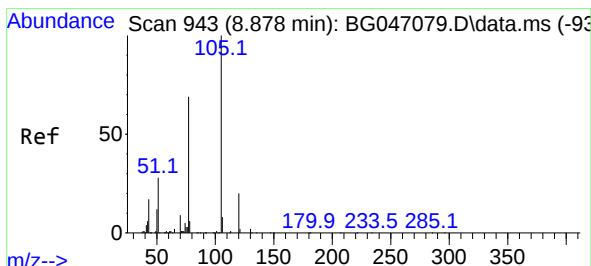
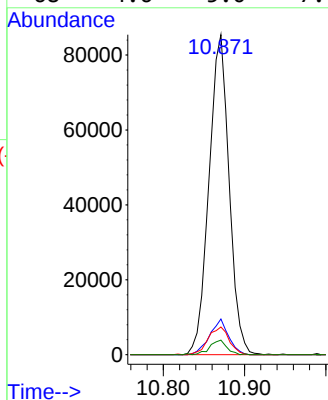
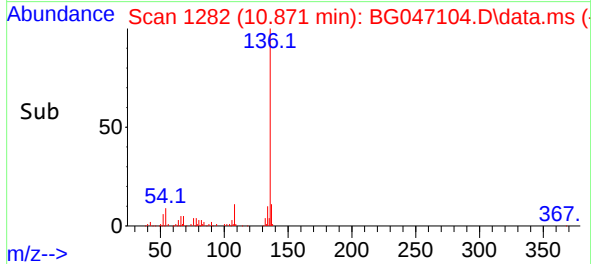
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



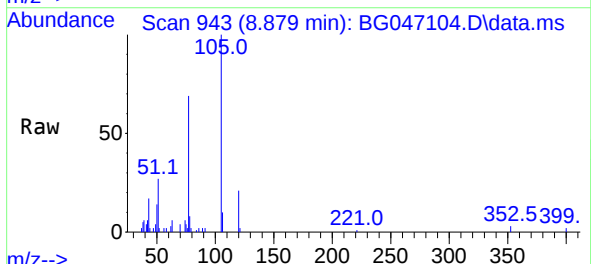
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 147067 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.1   | 13.7   |
| 54       | 8.6   | 6.2   | 9.4    |
| 68       | 4.6   | 5.0   | 7.4#   |

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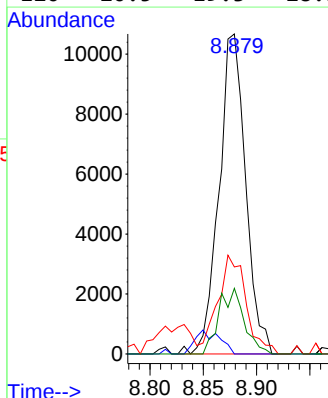
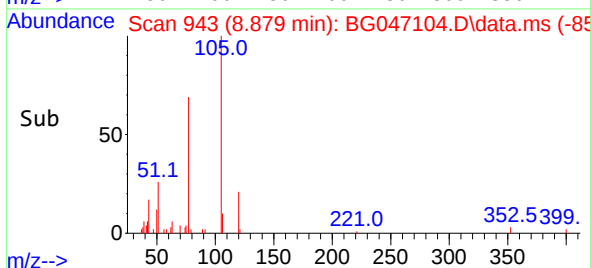
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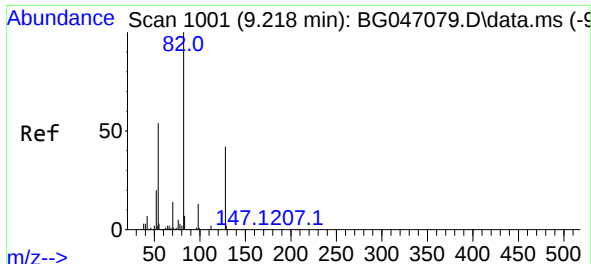


#22  
Acetophenone  
Concen: 4.67 ng  
RT: 8.879 min Scan# 943  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 18516 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 0.0   | 2.7   | 4.1#  |
| 51       | 27.2  | 21.0  | 31.6  |
| 120      | 20.5  | 19.3  | 28.9  |





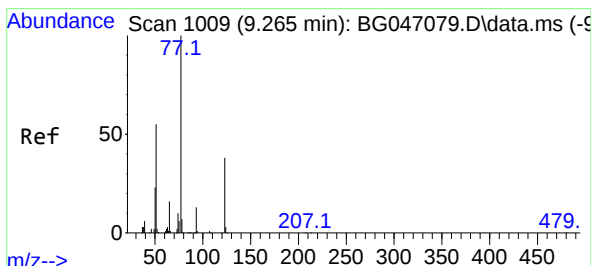
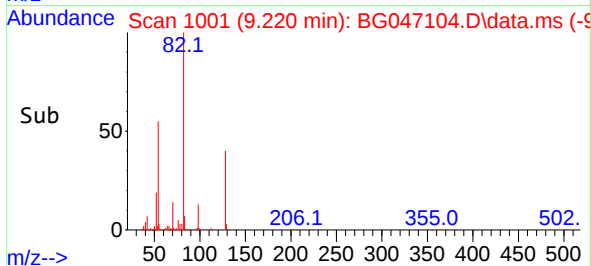
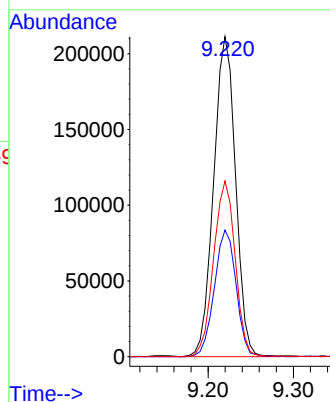
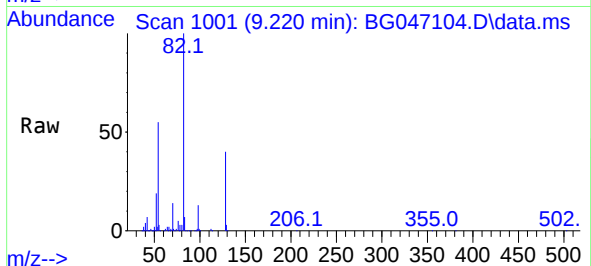
#23  
Nitrobenzene-d5  
Concen: 122.77 ng  
RT: 9.220 min Scan# 1001  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion: 82 Resp: 377042  
Ion Ratio Lower Upper  
82 100  
128 39.5 37.0 55.6  
54 54.9 39.0 58.4

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

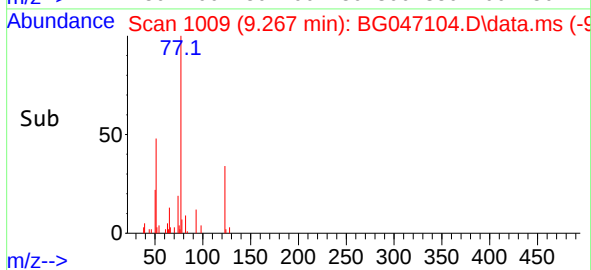
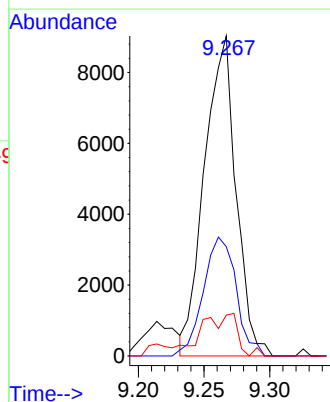
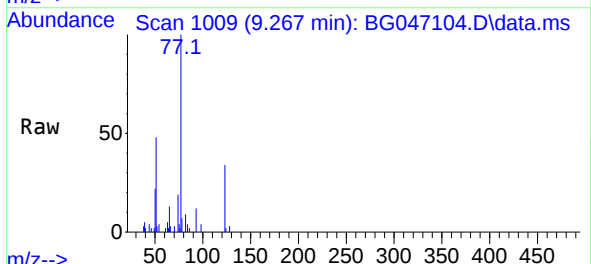
Manual Integrations  
APPROVED

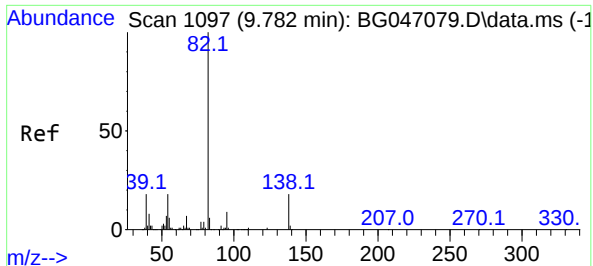
mohammad  
10/29/2020 10:43:43 AM



#24  
Nitrobenzene  
Concen: 4.73 ng  
RT: 9.267 min Scan# 1009  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
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Tgt Ion: 77 Resp: 15085  
Ion Ratio Lower Upper  
77 100  
123 34.1 39.7 59.5#  
65 12.7 10.4 15.6





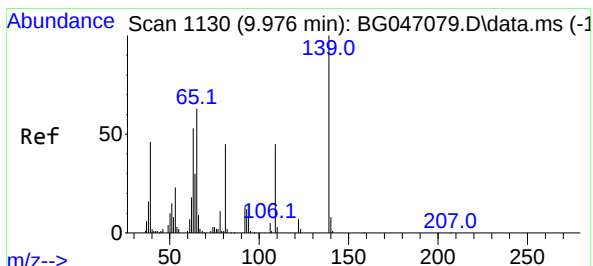
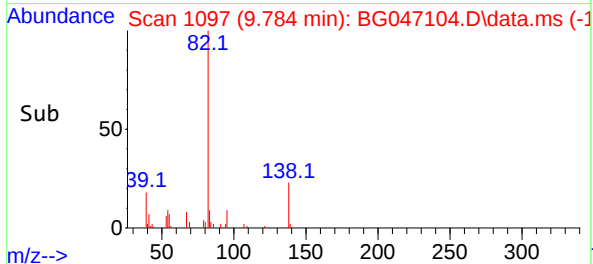
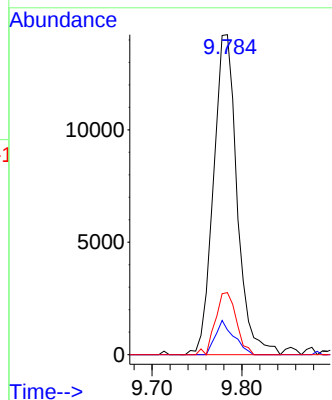
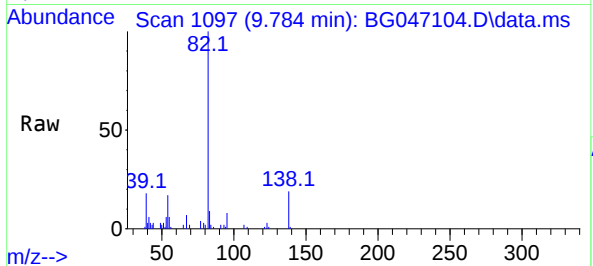
#25  
Isophorone  
Concen: 4.74 ng  
RT: 9.784 min Scan# 1097  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|             |             |
|-------------|-------------|
| Tgt Ion: 82 | Resp: 26016 |
| Ion Ratio   | Lower Upper |
| 82 100      |             |
| 95 7.8      | 5.6 8.4     |
| 138 19.4    | 15.8 23.6   |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

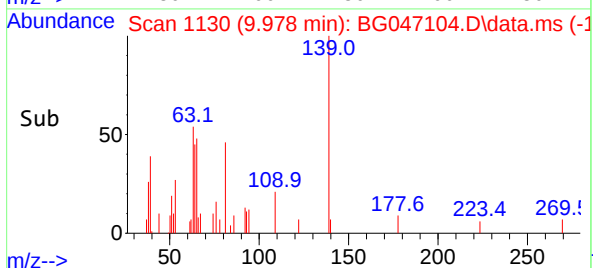
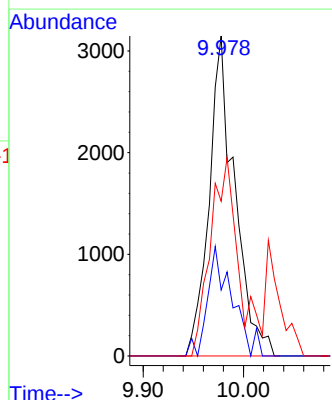
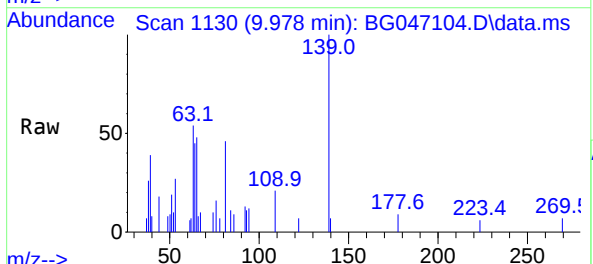
Manual Integrations  
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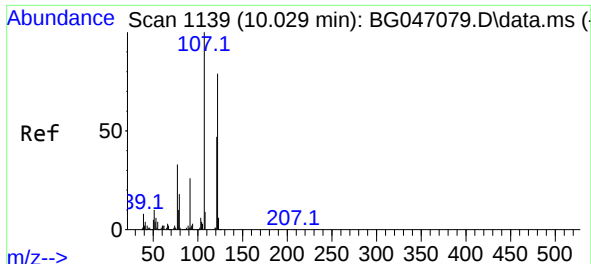
mohammad  
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#26  
2-Nitrophenol  
Concen: 4.04 ng  
RT: 9.978 min Scan# 1130  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|              |             |
|--------------|-------------|
| Tgt Ion: 139 | Resp: 5588  |
| Ion Ratio    | Lower Upper |
| 139 100      |             |
| 109 20.6     | 20.7 31.1#  |
| 65 48.3      | 36.1 54.1   |





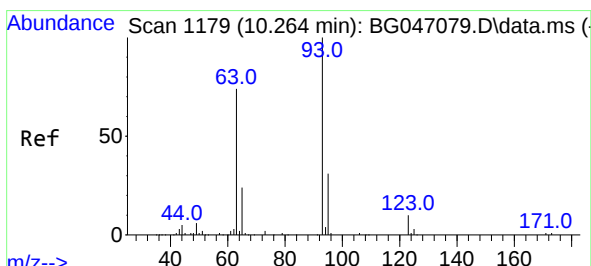
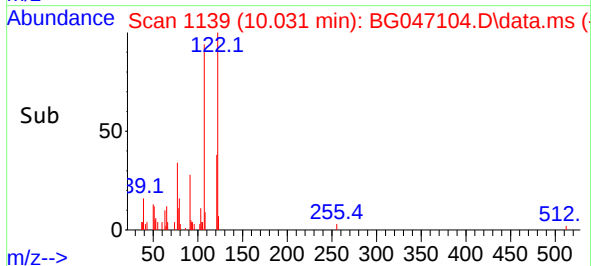
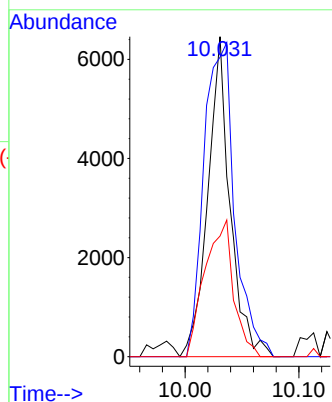
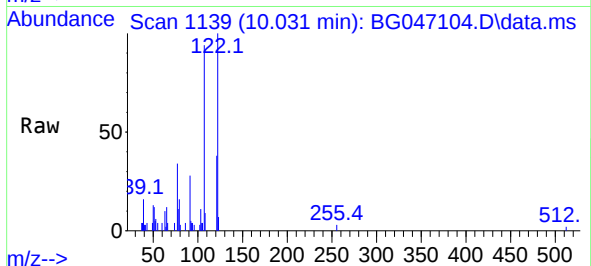
#27  
2,4-Dimethylphenol  
Concen: 4.64 ng  
RT: 10.031 min Scan# 1139  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:122 Resp: 8773  
Ion Ratio Lower Upper  
122 100  
107 93.6 89.2 133.8  
121 37.7 46.9 70.3#

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

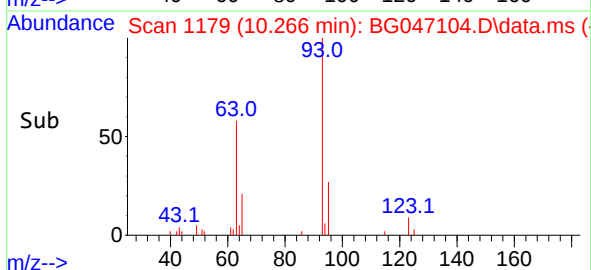
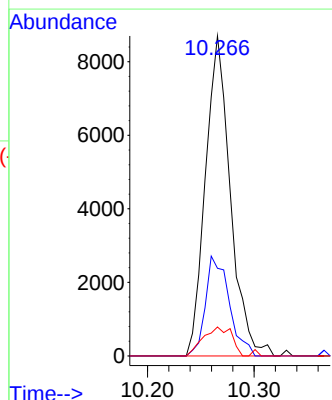
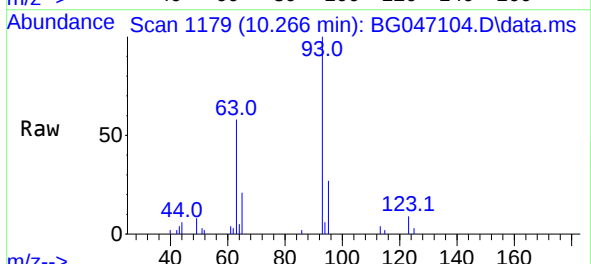
Manual Integrations  
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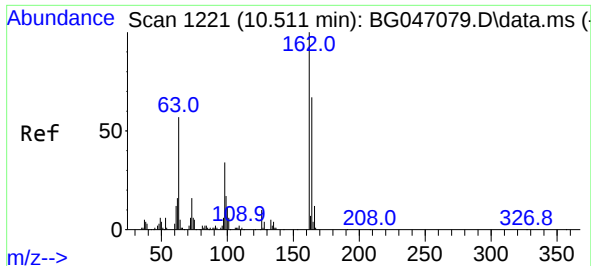
mohammad  
10/29/2020 10:43:43 AM



#28  
bis(2-Chloroethoxy)methane  
Concen: 4.16 ng  
RT: 10.266 min Scan# 1179  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion: 93 Resp: 14126  
Ion Ratio Lower Upper  
93 100  
95 27.4 26.5 39.7  
123 9.1 9.4 14.0#





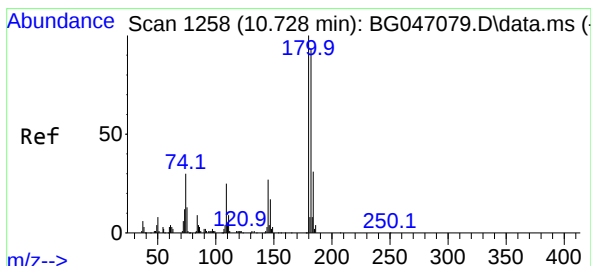
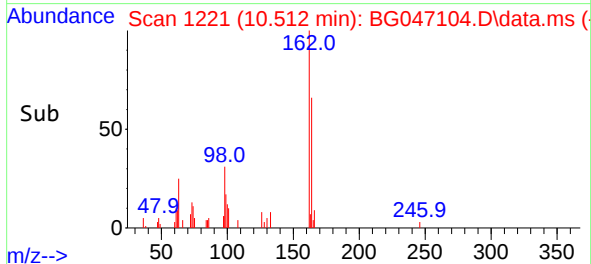
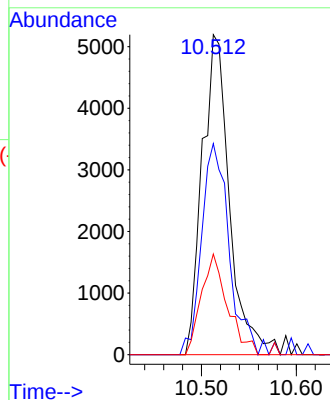
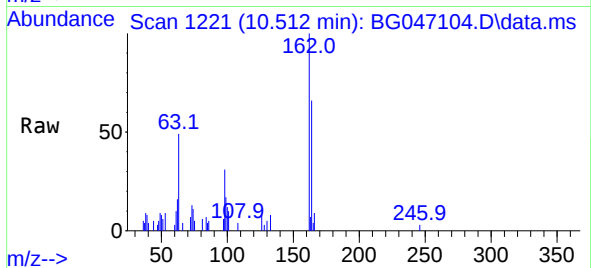
#29  
2,4-Dichlorophenol  
Concen: 3.99 ng  
RT: 10.512 min Scan# 1221  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:162 Resp: 10378  
Ion Ratio Lower Upper  
162 100  
164 66.0 45.6 85.6  
98 31.4 11.0 51.0

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

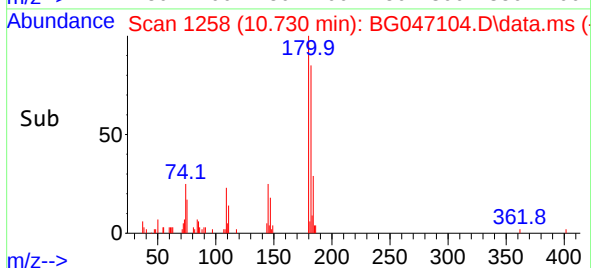
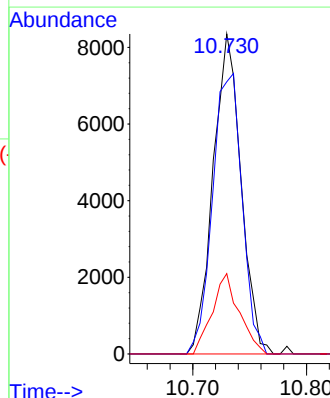
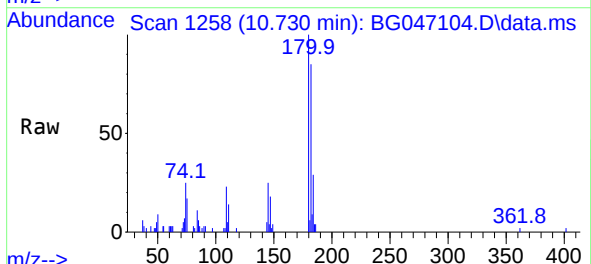
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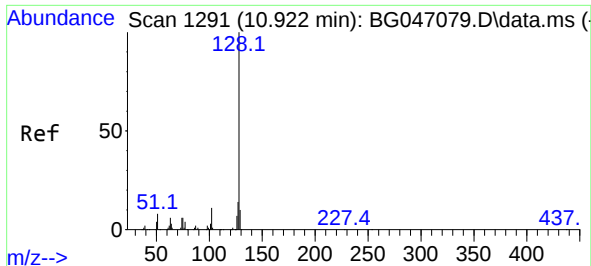
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#30  
1,2,4-Trichlorobenzene  
Concen: 4.44 ng  
RT: 10.730 min Scan# 1258  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:180 Resp: 14247  
Ion Ratio Lower Upper  
180 100  
182 85.0 76.9 115.3  
145 25.1 21.4 32.0





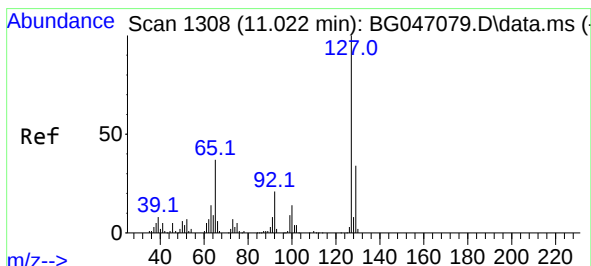
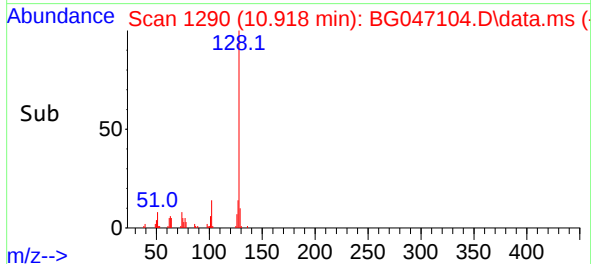
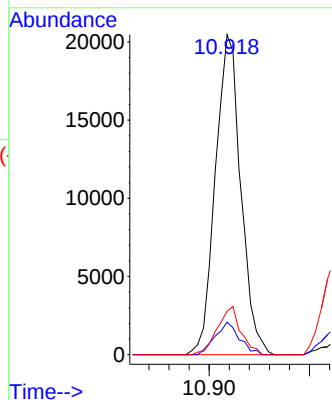
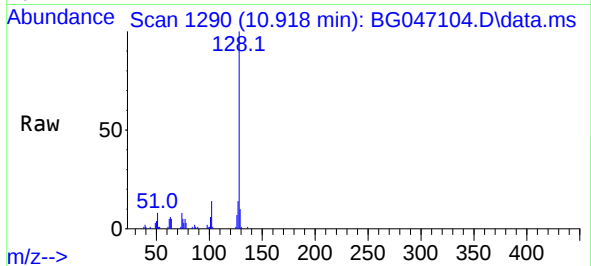
#31  
Naphthalene  
Concen: 4.66 ng  
RT: 10.918 min Scan# 1290  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 35878 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 10.2  | 9.0   | 13.6  |
| 127       | 13.6  | 11.0  | 16.4  |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

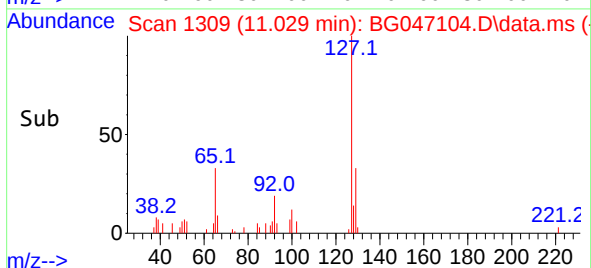
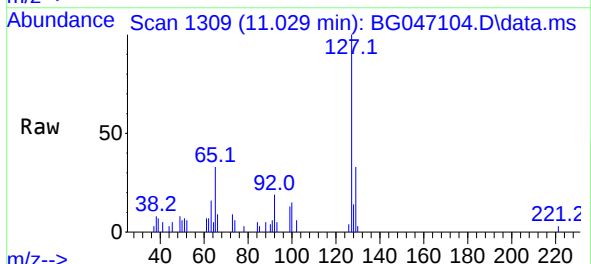
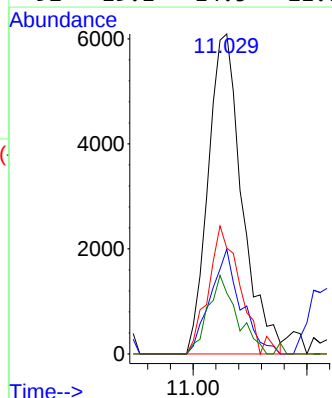
Manual Integrations  
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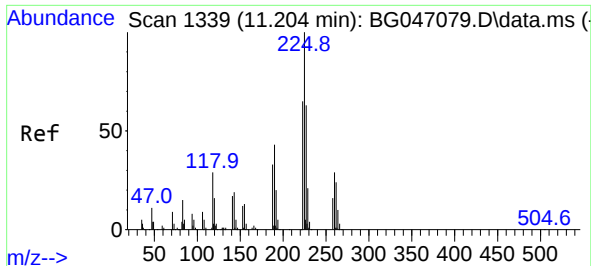
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#33  
4-Chloroaniline  
Concen: 3.77 ng  
RT: 11.029 min Scan# 1309  
Delta R.T. 0.007 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

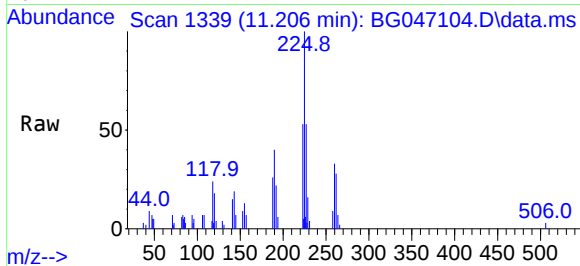
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 127   | Resp: | 12602 |
| Ion Ratio | Lower | Upper |       |
| 127       | 100   |       |       |
| 129       | 32.7  | 26.8  | 40.2  |
| 65        | 33.1  | 23.8  | 35.6  |
| 92        | 19.1  | 14.5  | 21.7  |





#34  
Hexachlorobutadiene  
Concen: 4.45 ng  
RT: 11.206 min Scan# 1339  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

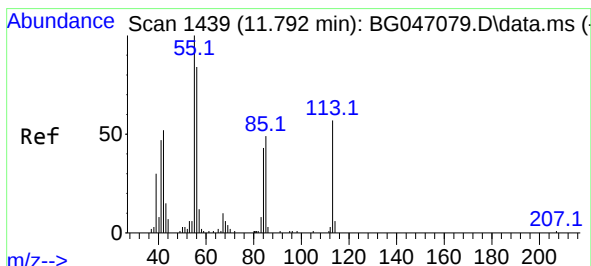
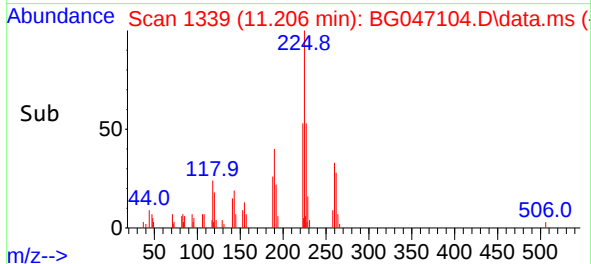
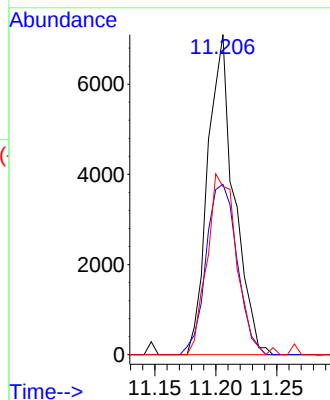
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



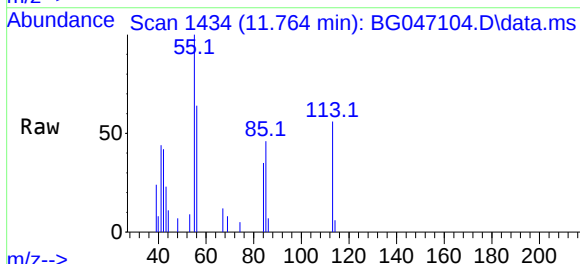
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|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 10695 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 53.2  | 49.5  | 74.3  |
| 227       | 52.5  | 52.0  | 78.0  |

Manual Integrations  
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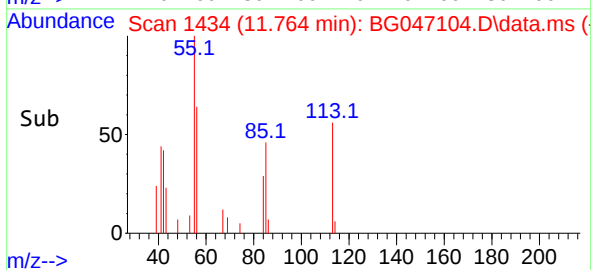
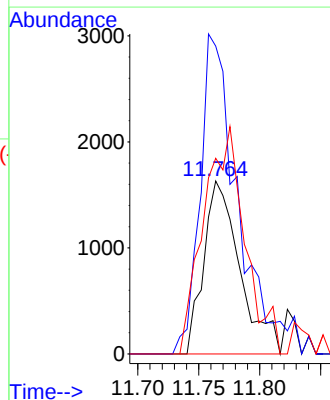
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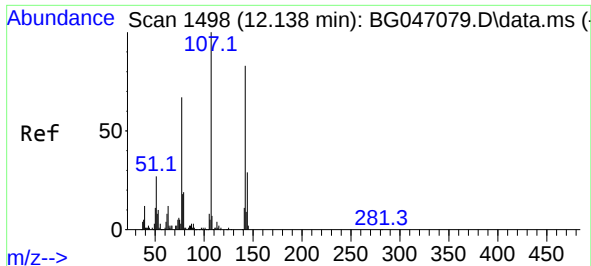


#35  
Caprolactam  
Concen: 3.88 ng  
RT: 11.764 min Scan# 1434  
Delta R.T. -0.028 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



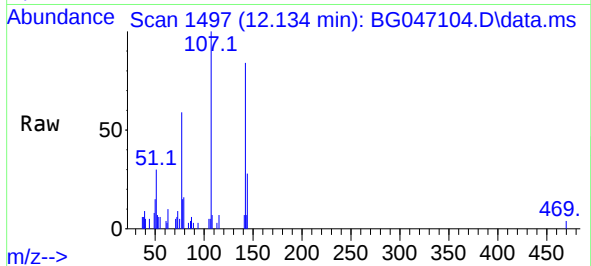
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|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 3358  |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 55        | 178.1 | 149.2 | 189.2 |
| 56        | 113.2 | 107.2 | 147.2 |





#36  
4-Chloro-3-methylphenol  
Concen: 3.84 ng  
RT: 12.134 min Scan# 1497  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

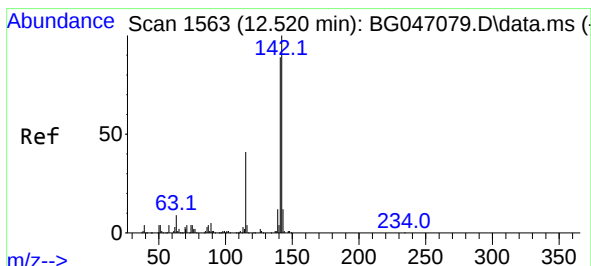
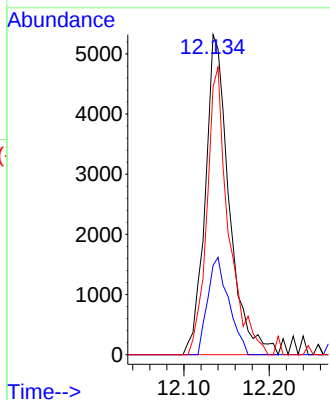
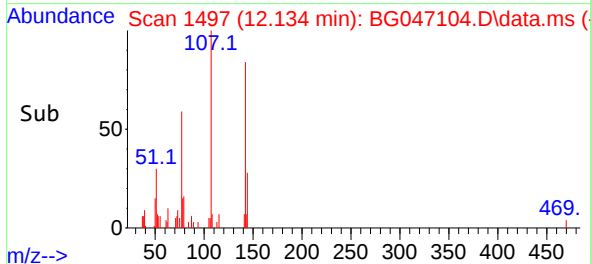
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



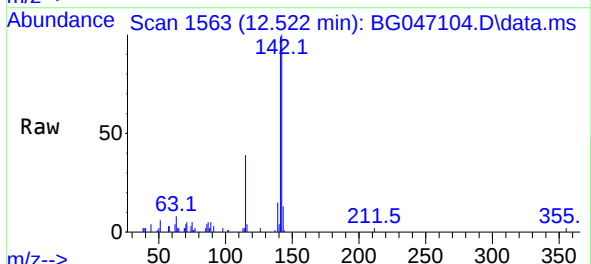
Tgt Ion:107 Resp: 10370  
Ion Ratio Lower Upper  
107 100  
144 27.9 22.5 33.7  
142 83.7 70.8 106.2

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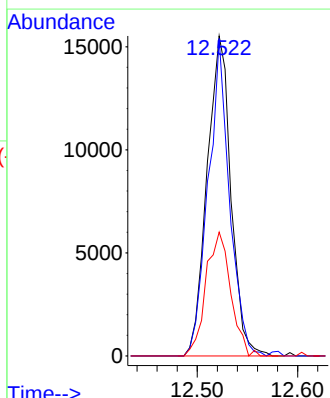
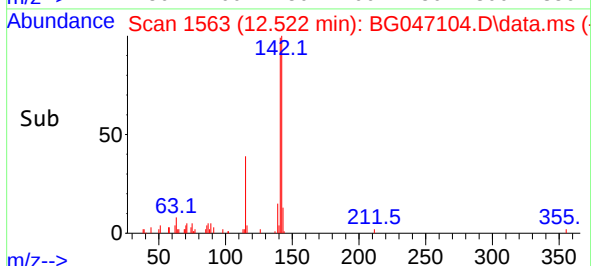
mohammad  
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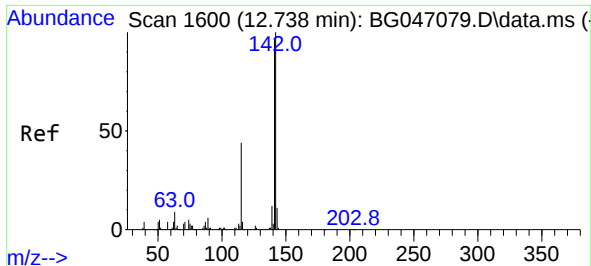


#37  
2-Methylnaphthalene  
Concen: 4.29 ng  
RT: 12.522 min Scan# 1563  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



Tgt Ion:142 Resp: 25630  
Ion Ratio Lower Upper  
142 100  
141 99.2 71.6 107.4  
115 38.7 25.4 38.2#





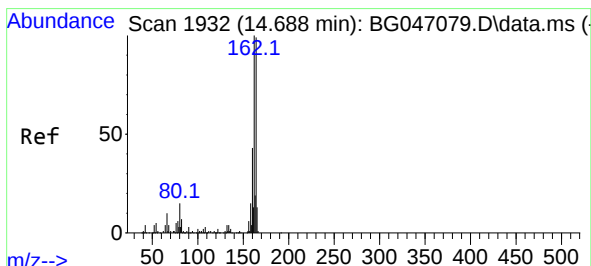
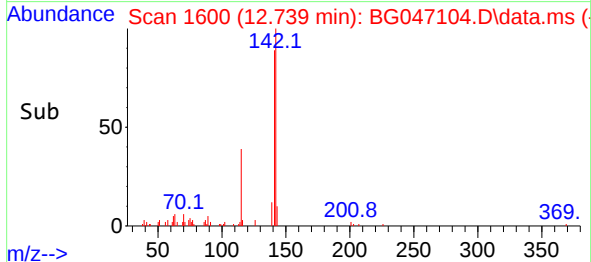
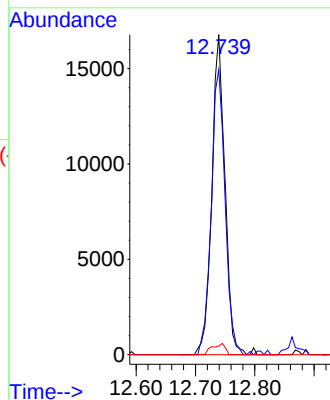
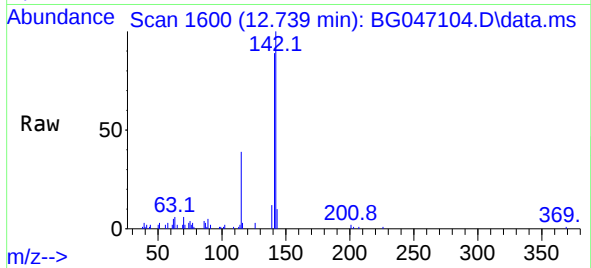
#38  
1-Methylnaphthalene  
Concen: 4.54 ng m  
RT: 12.739 min Scan# 1600  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:142 Resp: 25702  
Ion Ratio Lower Upper  
142 100  
141 89.0 75.4 113.2  
116 2.7 2.9 4.3#

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

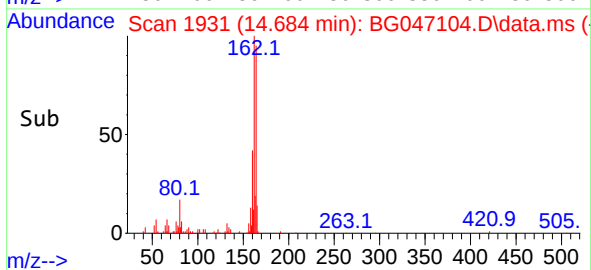
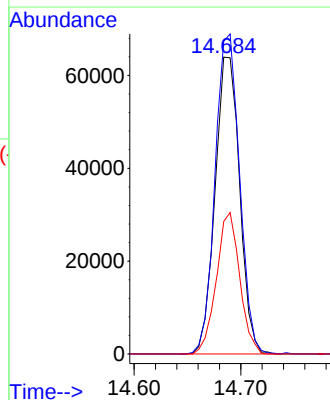
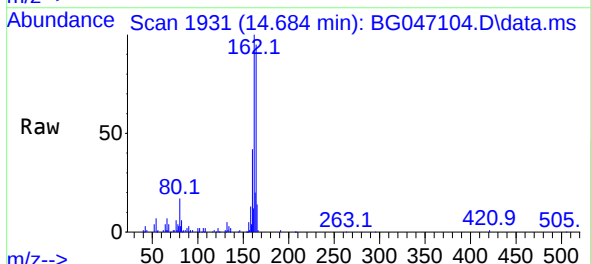
Manual Integrations  
APPROVED

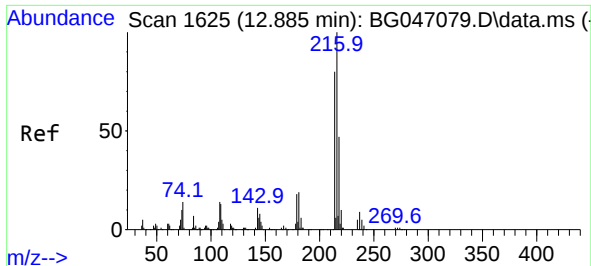
mohammad  
10/29/2020 10:43:43 AM



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.684 min Scan# 1931  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:164 Resp: 102309  
Ion Ratio Lower Upper  
164 100  
162 105.4 82.3 123.5  
160 44.7 35.3 52.9





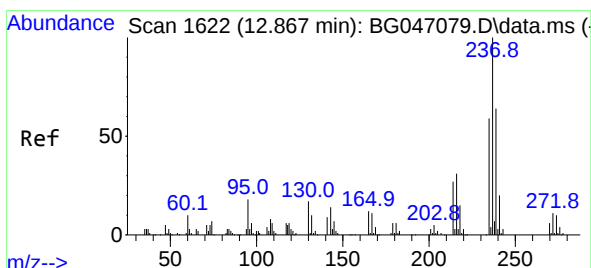
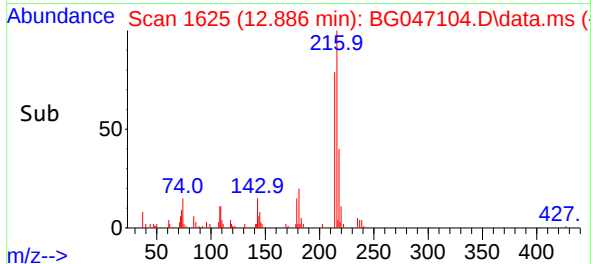
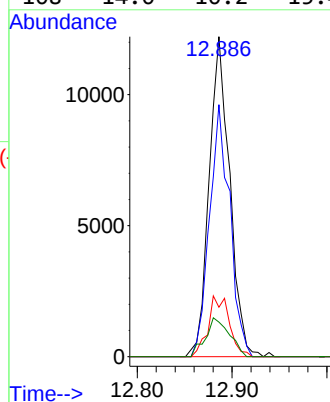
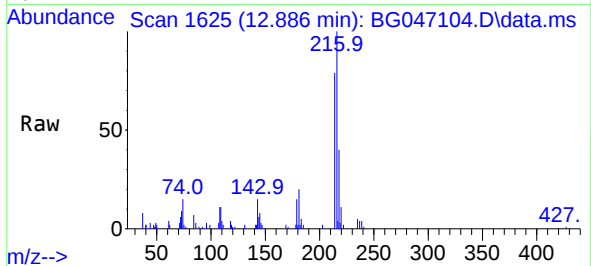
#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 4.92 ng  
RT: 12.886 min Scan# 1625  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 216   | Resp: | 18389 |
| Ion Ratio | Lower | Upper |       |
| 216       | 100   |       |       |
| 214       | 77.6  | 61.9  | 92.9  |
| 179       | 19.6  | 14.8  | 22.2  |
| 108       | 14.0  | 10.2  | 15.4  |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

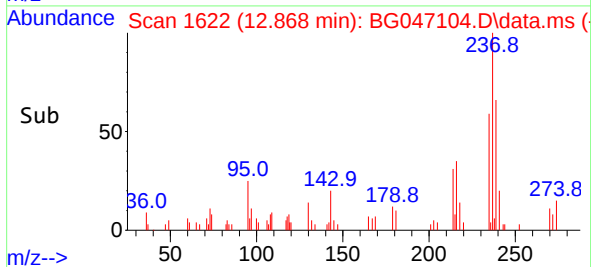
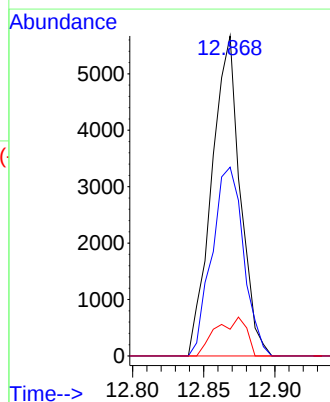
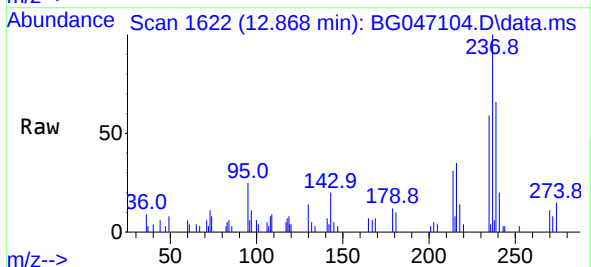
Manual Integrations  
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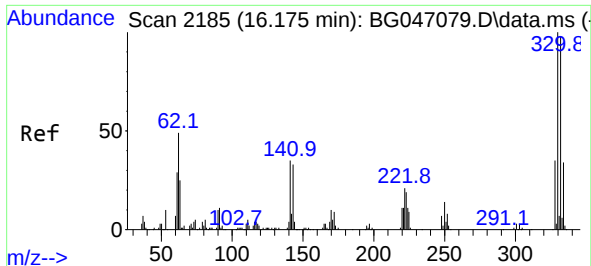
mohammad  
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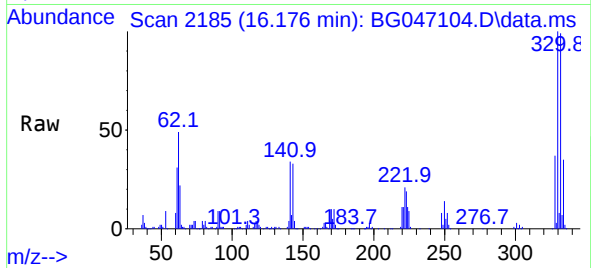
#41  
Hexachlorocyclopentadiene  
Concen: 3.87 ng  
RT: 12.868 min Scan# 1622  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 237   | Resp: | 7903 |
| Ion Ratio | Lower | Upper |      |
| 237       | 100   |       |      |
| 235       | 59.0  | 43.1  | 83.1 |
| 272       | 8.3   | 0.0   | 33.1 |

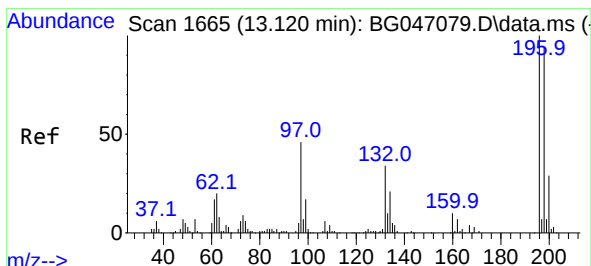
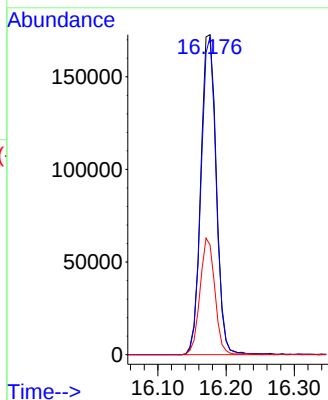
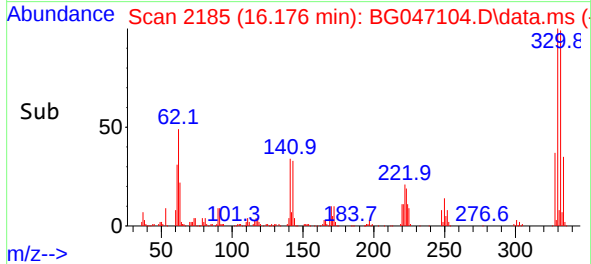




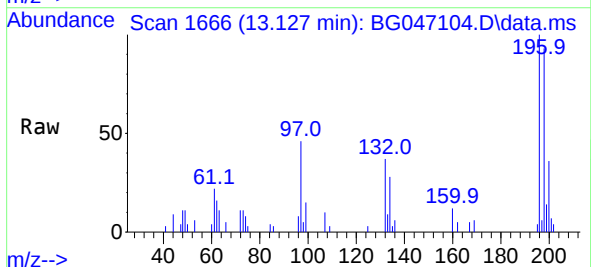
#42  
2,4,6-Tribromophenol  
Concen: 167.20 ng  
RT: 16.176 min Scan# 2185  
Delta R.T. 0.001 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



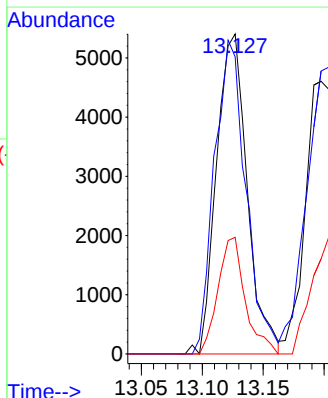
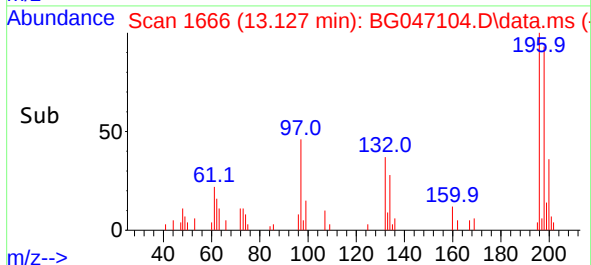
Tgt Ion:330 Resp: 274180  
Ion Ratio Lower Upper  
330 100  
332 96.1 76.5 114.7  
141 34.7 26.0 39.0



#43  
2,4,6-Trichlorophenol  
Concen: 3.89 ng  
RT: 13.127 min Scan# 1666  
Delta R.T. 0.007 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



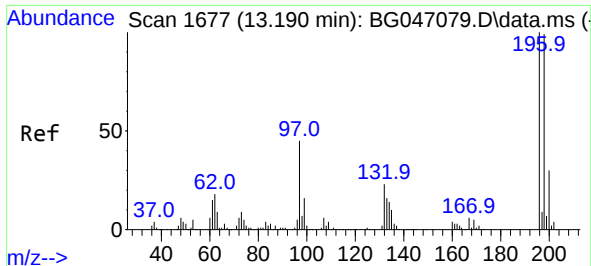
Tgt Ion:196 Resp: 9484  
Ion Ratio Lower Upper  
196 100  
198 92.8 74.9 112.3  
200 36.4 25.3 37.9



Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

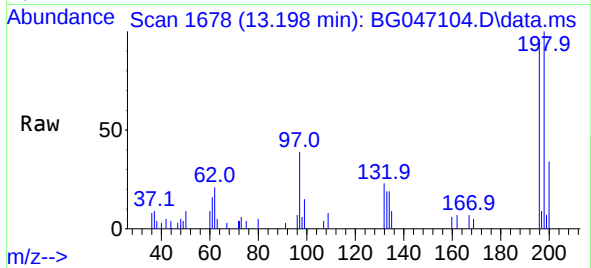
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#44  
2,4,5-Trichlorophenol  
Concen: 4.00 ng  
RT: 13.198 min Scan# 1678  
Delta R.T. 0.007 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

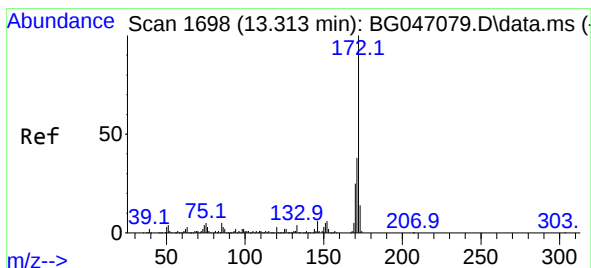
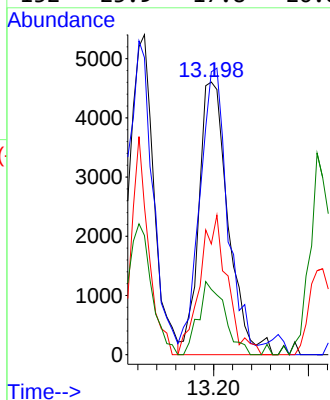
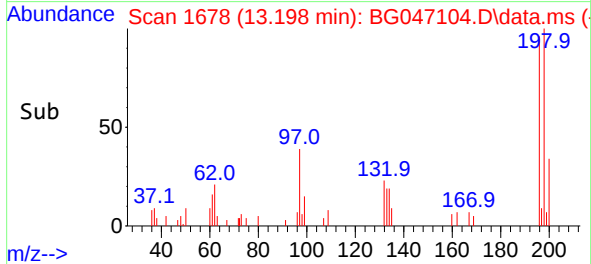
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



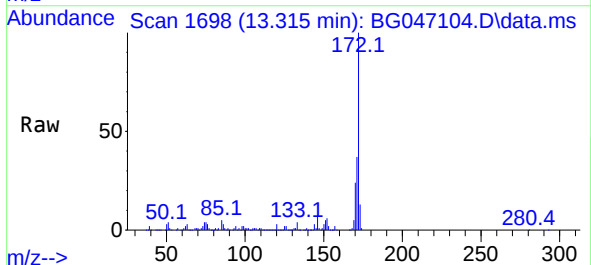
Tgt Ion:196 Resp: 9905  
Ion Ratio Lower Upper  
196 100  
198 103.8 77.6 116.4  
97 40.6 28.6 43.0  
132 23.9 17.8 26.8

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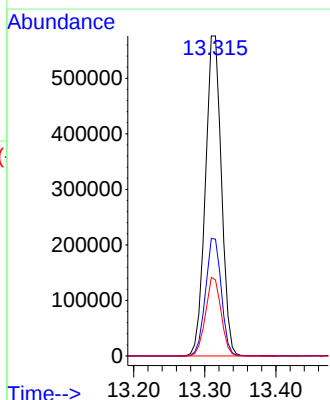
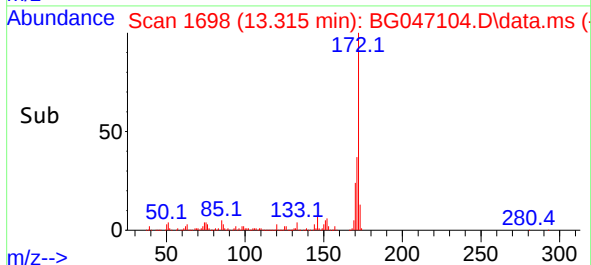
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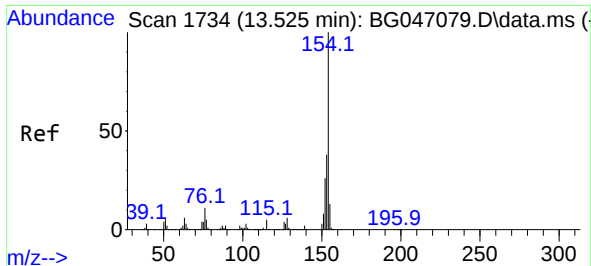


#45  
2-Fluorobiphenyl  
Concen: 124.94 ng  
RT: 13.315 min Scan# 1698  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



Tgt Ion:172 Resp: 904114  
Ion Ratio Lower Upper  
172 100  
171 36.5 31.3 46.9  
170 23.8 20.8 31.2





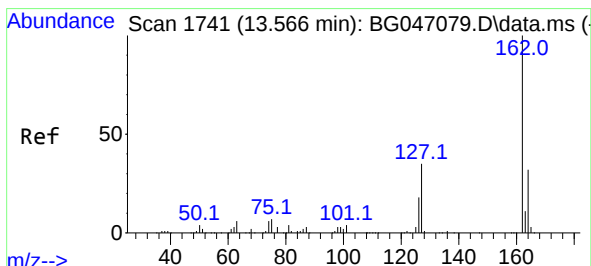
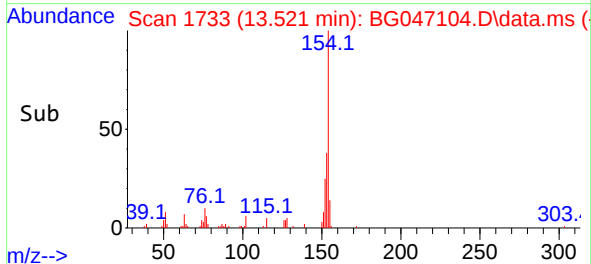
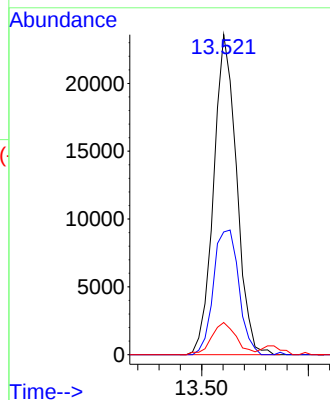
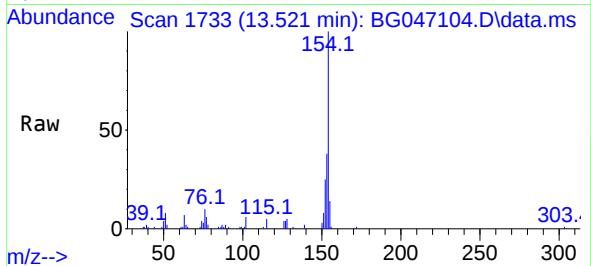
#46  
1,1'-Biphenyl  
Concen: 4.55 ng  
RT: 13.521 min Scan# 1733  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 35270 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 38.4  | 22.6  | 62.6  |
| 76        | 10.0  | 0.0   | 32.6  |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

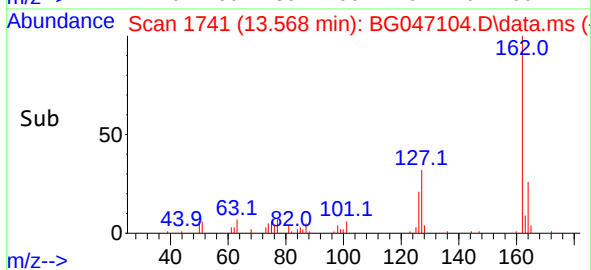
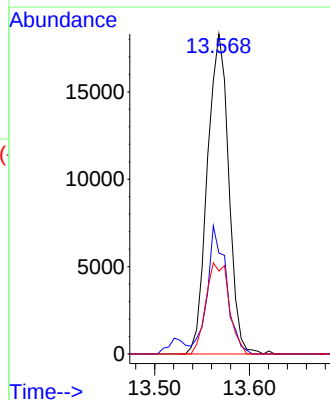
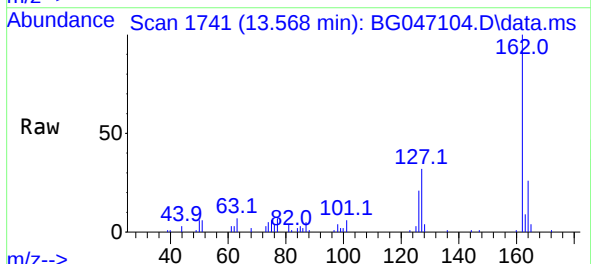
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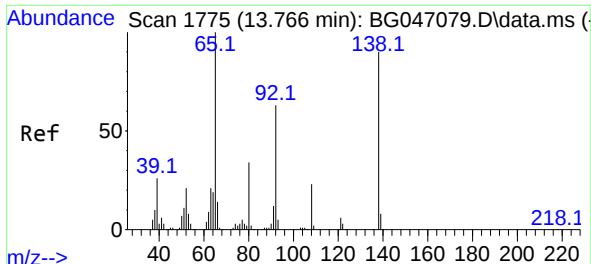
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#47  
2-Chloronaphthalene  
Concen: 4.48 ng  
RT: 13.568 min Scan# 1741  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 162   | Resp: | 28541 |
| Ion Ratio | Lower | Upper |       |
| 162       | 100   |       |       |
| 127       | 31.6  | 27.8  | 41.6  |
| 164       | 25.9  | 27.0  | 40.4# |





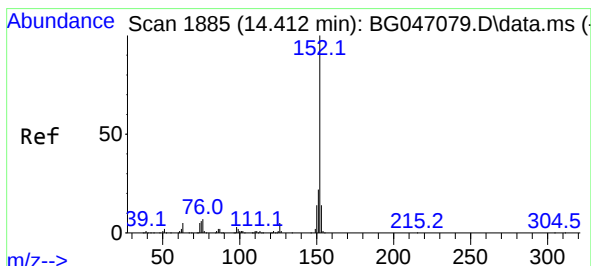
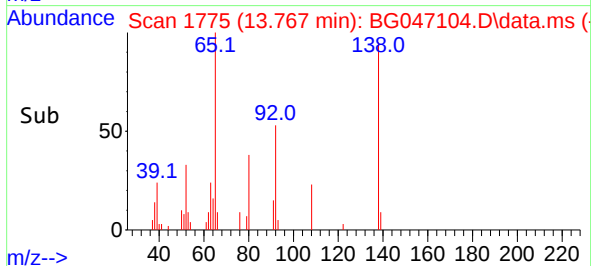
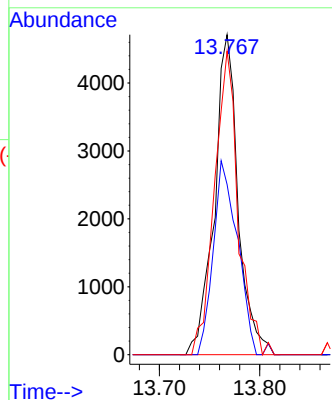
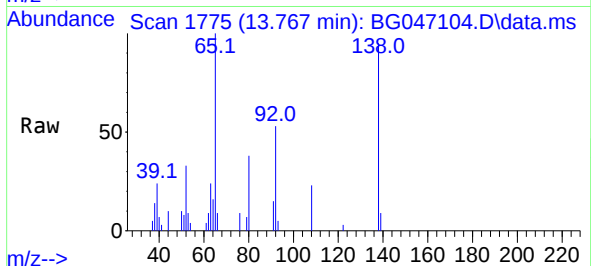
#48  
2-Nitroaniline  
Concen: 3.73 ng  
RT: 13.767 min Scan# 1775  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion: 65 Resp: 7750  
Ion Ratio Lower Upper  
65 100  
92 53.2 58.6 88.0#  
138 94.9 98.2 147.4#

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

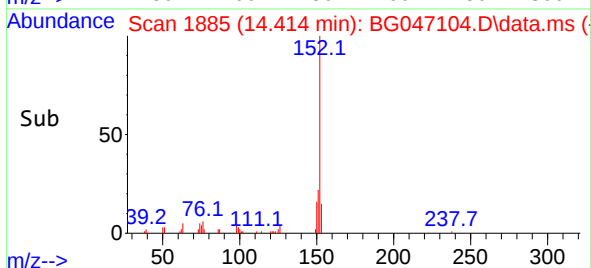
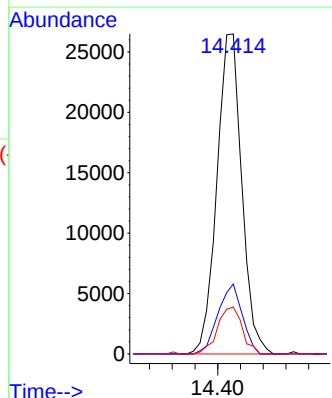
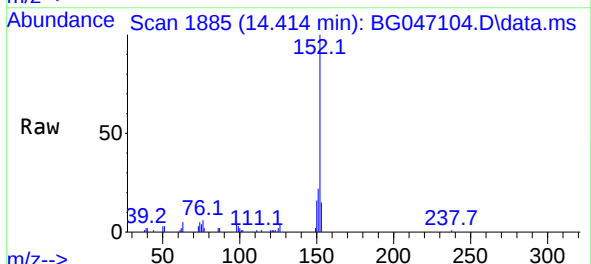
Manual Integrations  
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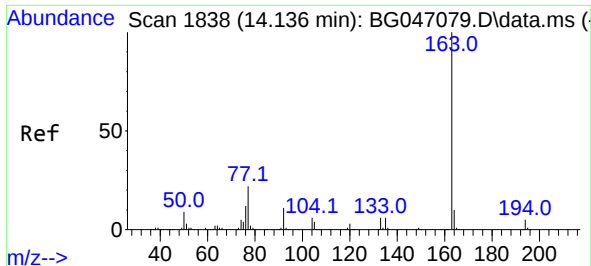
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#49  
Acenaphthylene  
Concen: 4.35 ng  
RT: 14.414 min Scan# 1885  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion: 152 Resp: 40244  
Ion Ratio Lower Upper  
152 100  
151 21.9 17.4 26.0  
153 14.6 11.5 17.3





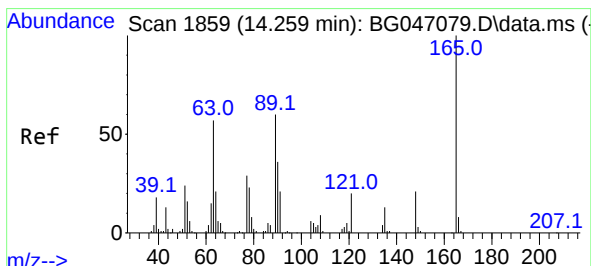
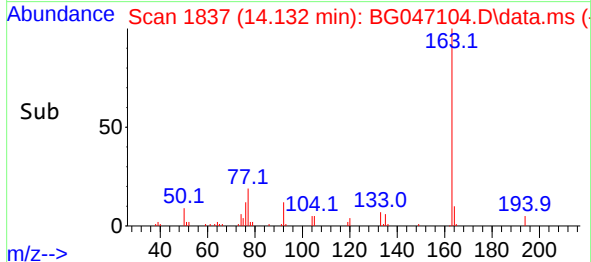
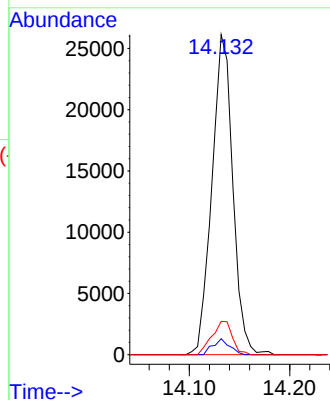
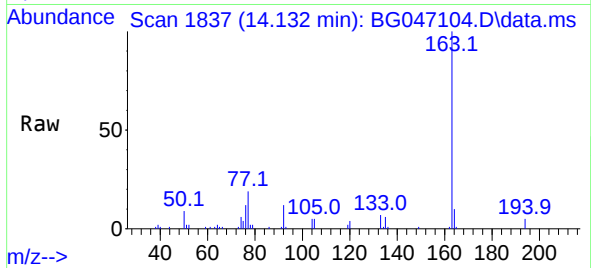
#50  
Dimethylphthalate  
Concen: 4.49 ng  
RT: 14.132 min Scan# 1837  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 163   | Resp: | 37806 |
| Ion      | Ratio | Lower | Upper |
| 163      | 100   |       |       |
| 194      | 5.0   | 3.8   | 5.8   |
| 164      | 10.4  | 8.8   | 13.2  |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

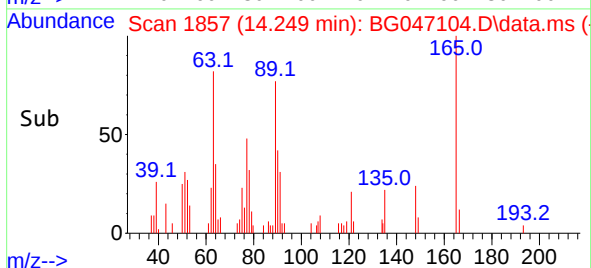
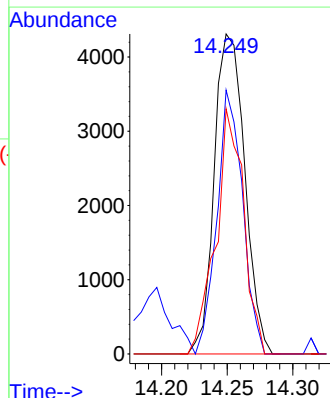
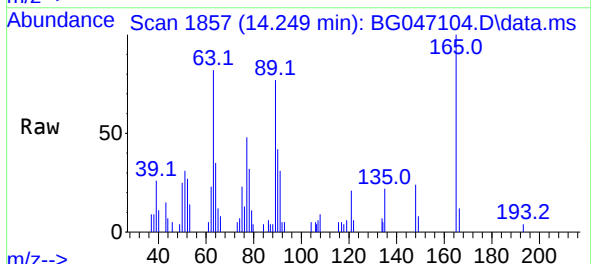
Manual Integrations  
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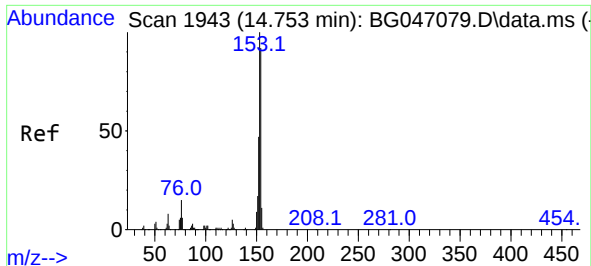
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#51  
2,6-Dinitrotoluene  
Concen: 3.96 ng  
RT: 14.249 min Scan# 1857  
Delta R.T. -0.010 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

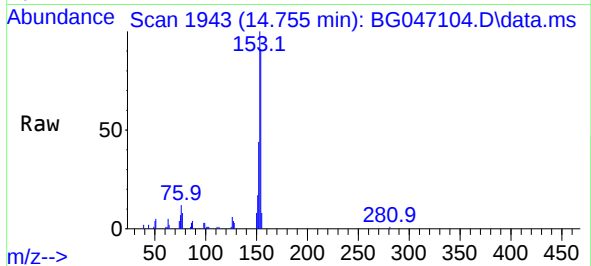
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 6965  |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 82.4  | 33.7  | 50.5# |
| 89       | 76.6  | 36.6  | 54.8# |





#52  
Acenaphthene  
Concen: 4.63 ng  
RT: 14.755 min Scan# 1943  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

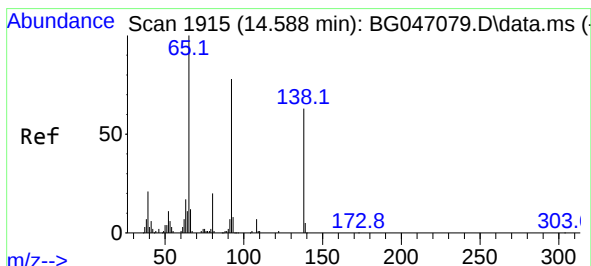
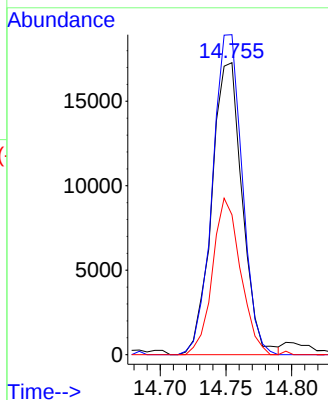
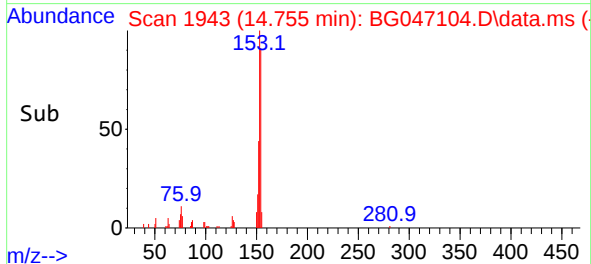
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



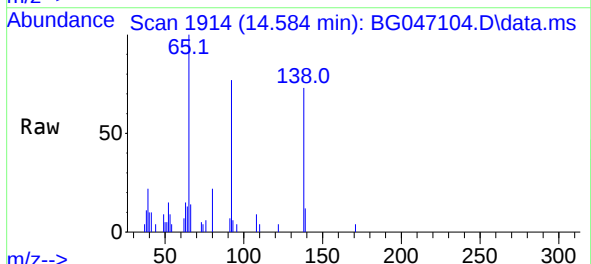
Tgt Ion:154 Resp: 27956  
Ion Ratio Lower Upper  
154 100  
153 109.6 90.3 135.5  
152 47.9 43.8 65.8

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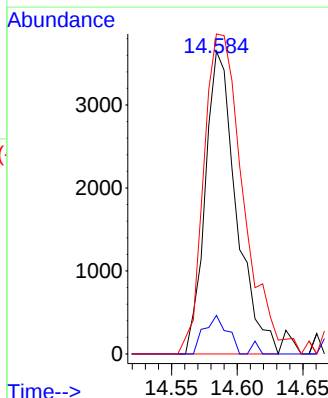
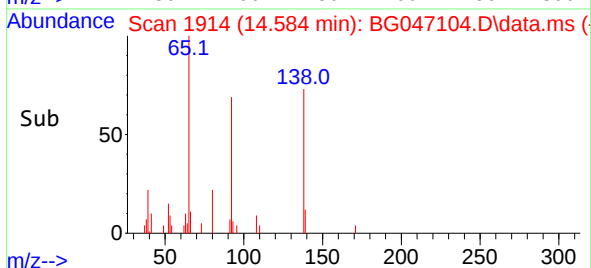
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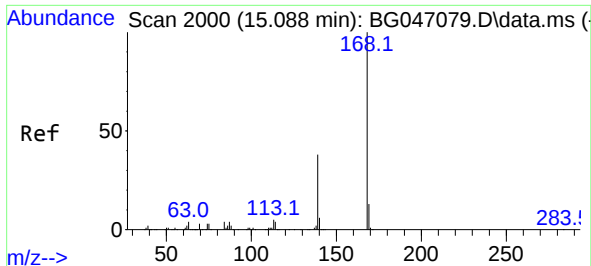


#53  
3-Nitroaniline  
Concen: 3.44 ng  
RT: 14.584 min Scan# 1914  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



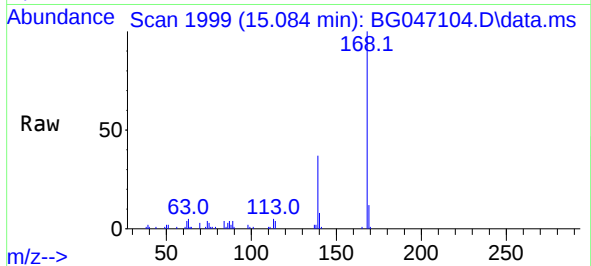
Tgt Ion:138 Resp: 6009  
Ion Ratio Lower Upper  
138 100  
108 12.7 7.4 11.0#  
92 105.7 85.2 127.8





#55  
Dibenzofuran  
Concen: 4.69 ng  
RT: 15.084 min Scan# 1999  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

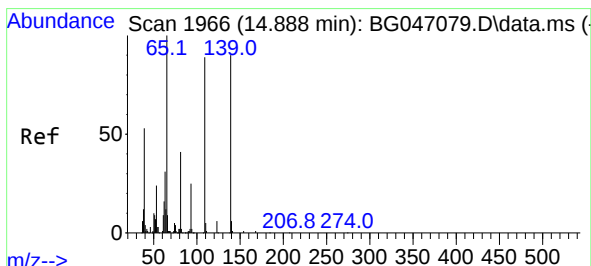
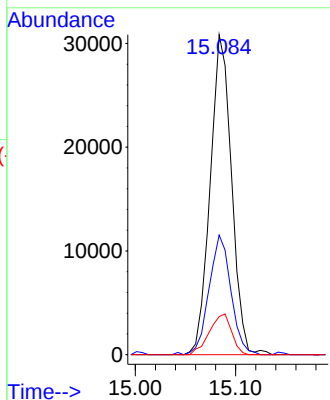
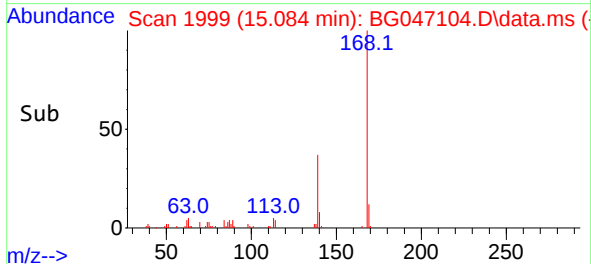
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



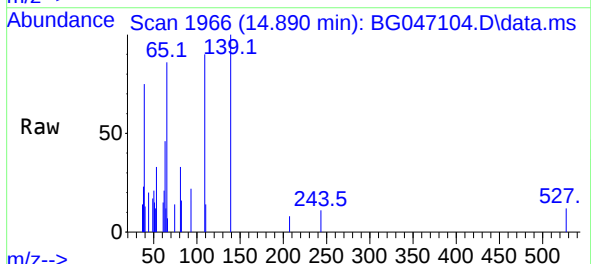
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 45484 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 37.4  | 28.6  | 43.0  |
| 169       | 11.9  | 11.0  | 16.6  |

Manual Integrations  
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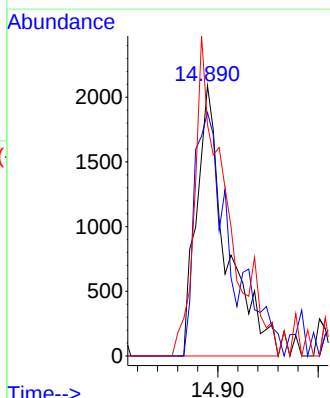
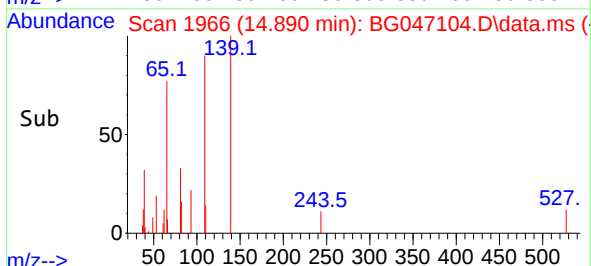
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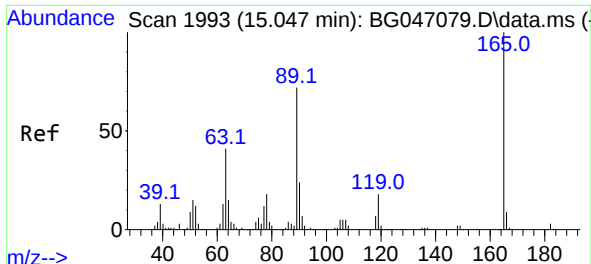


#56  
4-Nitrophenol  
Concen: 3.19 ng  
RT: 14.890 min Scan# 1966  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



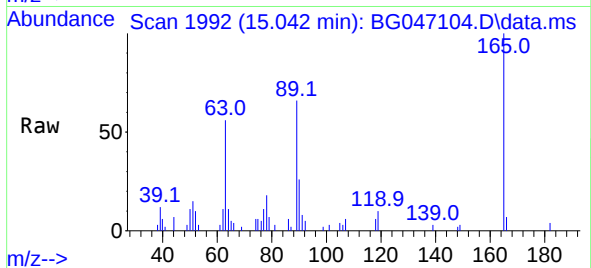
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 139   | Resp: | 4359  |
| Ion Ratio | Lower | Upper |       |
| 139       | 100   |       |       |
| 109       | 90.0  | 45.9  | 85.9# |
| 65        | 85.6  | 65.4  | 105.4 |





#57  
2,4-Dinitrotoluene  
Concen: 4.09 ng  
RT: 15.042 min Scan# 1992  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

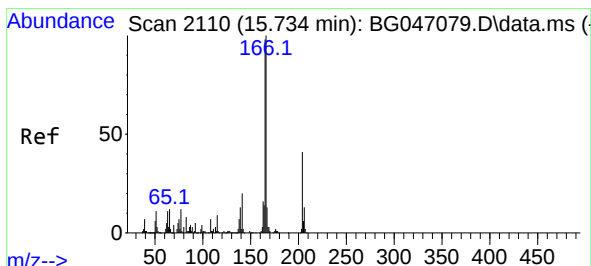
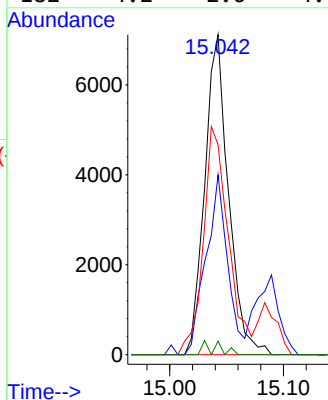
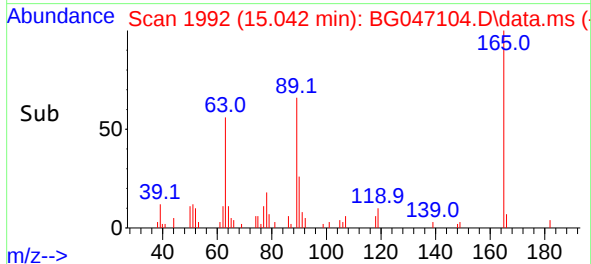
Instrument :  
BNA\_G  
ClientSampleId :  
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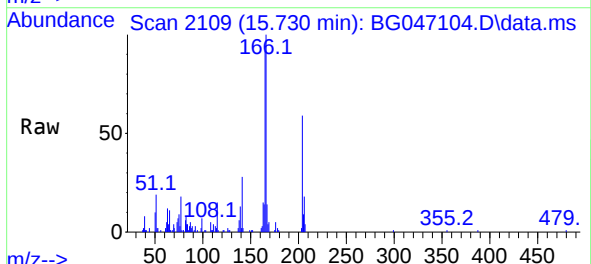
Tgt Ion:165 Resp: 10335  
Ion Ratio Lower Upper  
165 100  
63 56.2 26.4 39.6#  
89 65.6 47.8 71.8  
182 4.2 2.6 4.0#

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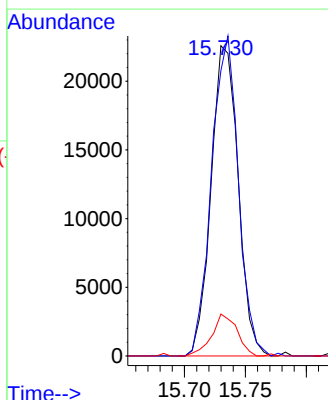
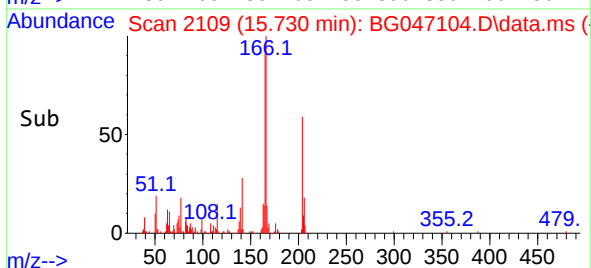
mohammad  
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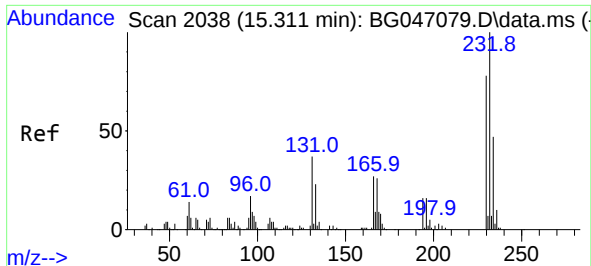


#58  
Fluorene  
Concen: 4.46 ng  
RT: 15.730 min Scan# 2109  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

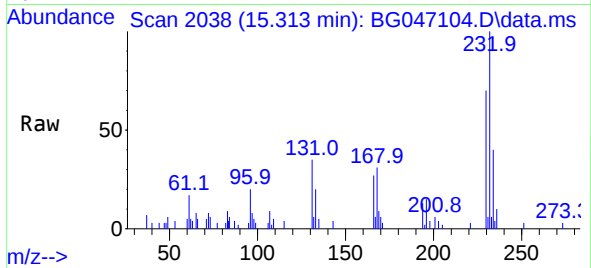


Tgt Ion:166 Resp: 34929  
Ion Ratio Lower Upper  
166 100  
165 92.0 77.2 115.8  
167 13.5 11.4 17.2

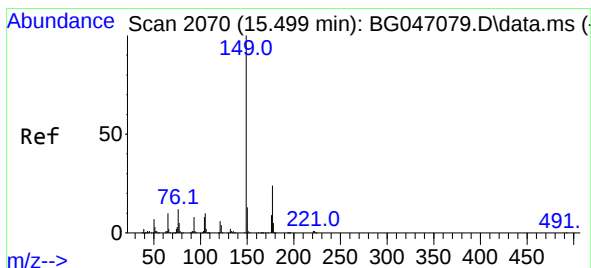
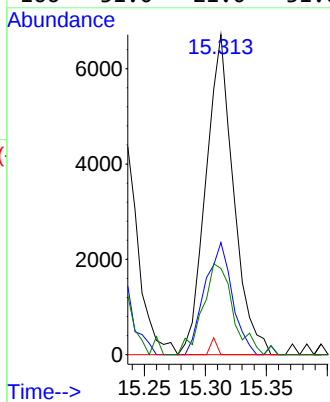
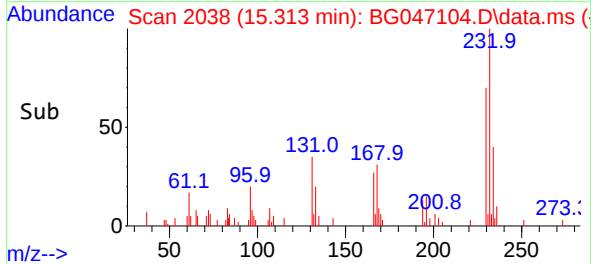




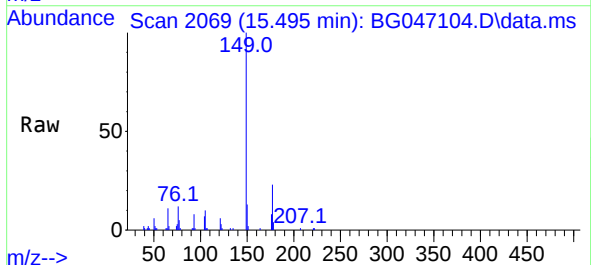
#59  
2,3,4,6-Tetrachlorophenol  
Concen: 4.03 ng  
RT: 15.313 min Scan# 2038  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



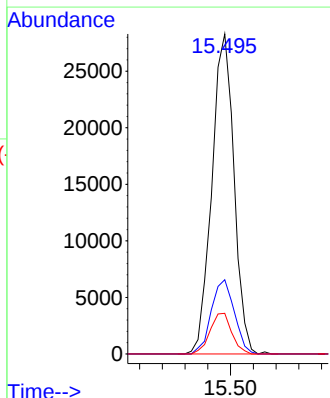
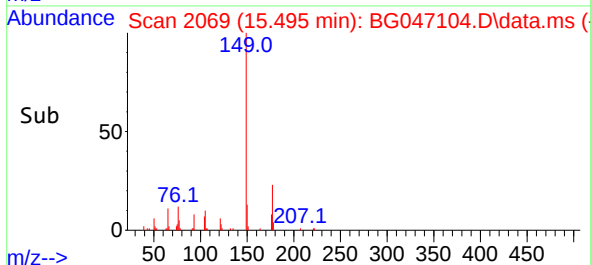
Tgt Ion:232 Resp: 10602  
Ion Ratio Lower Upper  
232 100  
131 34.6 26.6 40.0  
130 1.2 1.4 2.0#  
166 31.0 21.0 31.6



#60  
Diethylphthalate  
Concen: 4.56 ng  
RT: 15.495 min Scan# 2069  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



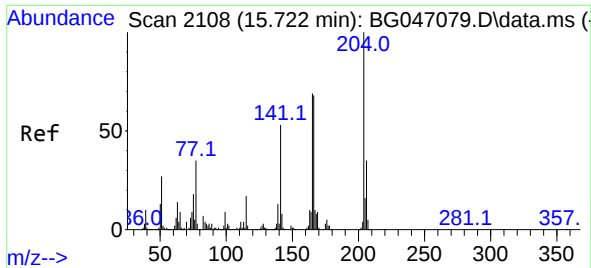
Tgt Ion:149 Resp: 38291  
Ion Ratio Lower Upper  
149 100  
177 23.2 21.4 32.2  
150 12.7 10.7 16.1



Instrument :  
BNA\_G  
ClientSampleId :  
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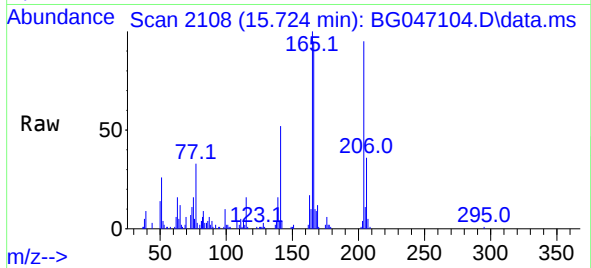
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#61  
4-Chlorophenyl-phenylether  
Concen: 4.59 ng  
RT: 15.724 min Scan# 2108  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

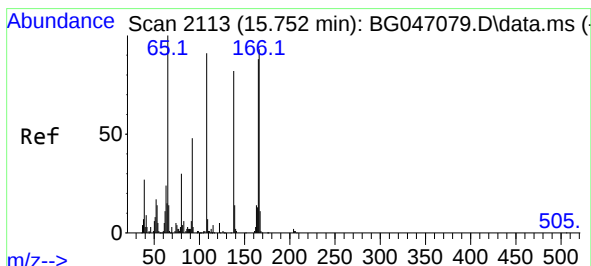
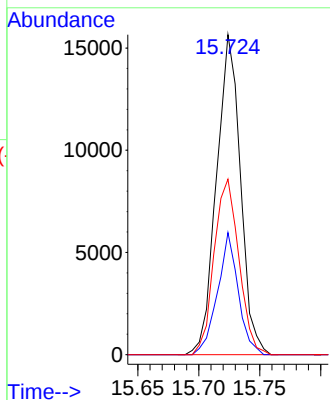
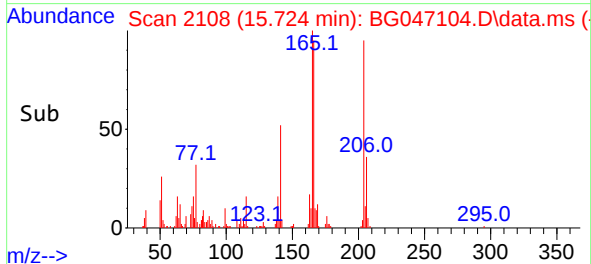
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



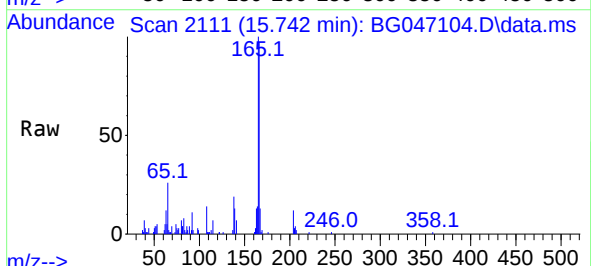
Tgt Ion:204 Resp: 21417  
Ion Ratio Lower Upper  
204 100  
206 38.1 27.8 41.8  
141 54.8 41.5 62.3

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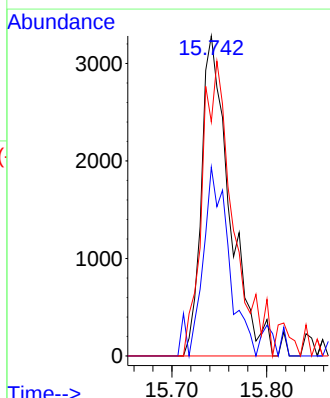
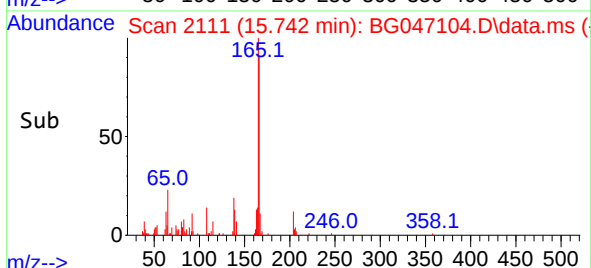
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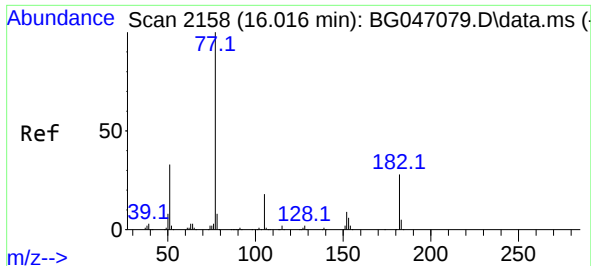


#62  
4-Nitroaniline  
Concen: 3.61 ng  
RT: 15.742 min Scan# 2111  
Delta R.T. -0.010 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



Tgt Ion:138 Resp: 6767  
Ion Ratio Lower Upper  
138 100  
92 59.0 26.9 66.9  
108 73.2 49.4 89.4





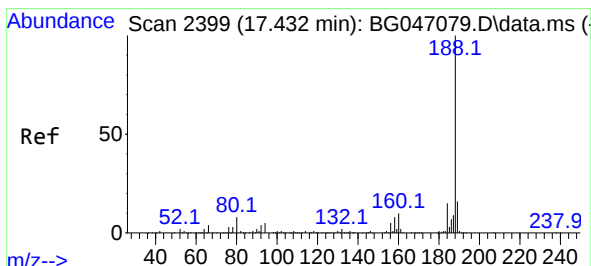
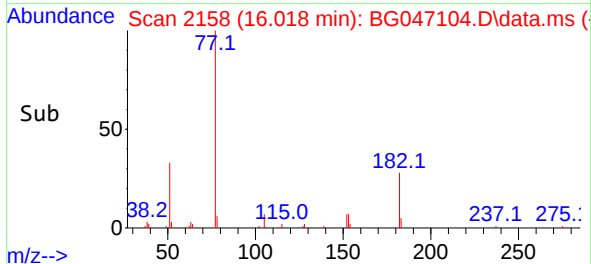
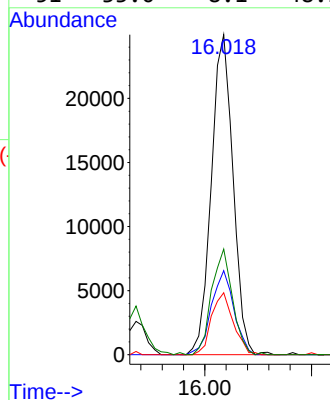
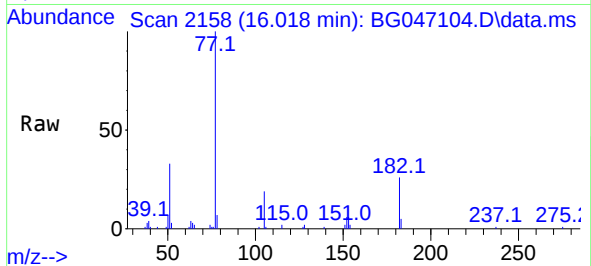
#63  
Azobenzene  
Concen: 4.72 ng  
RT: 16.018 min Scan# 2158  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 77    | Resp: | 35224 |
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 182       | 26.3  | 14.0  | 54.0  |
| 105       | 19.3  | 3.0   | 43.0  |
| 51        | 33.0  | 8.1   | 48.1  |

Instrument :  
BNA\_G  
ClientSampleId :  
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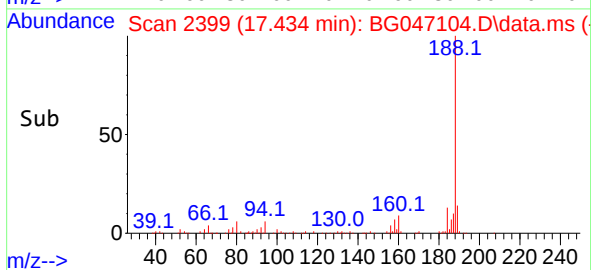
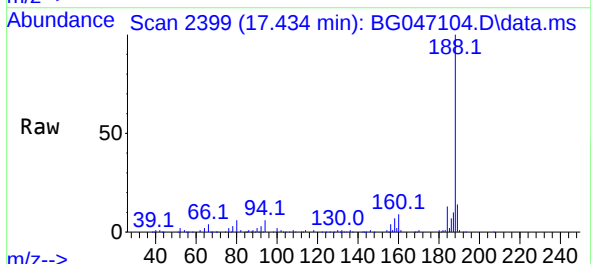
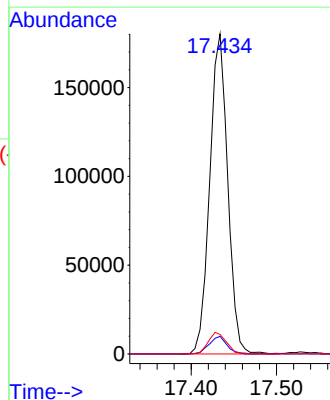
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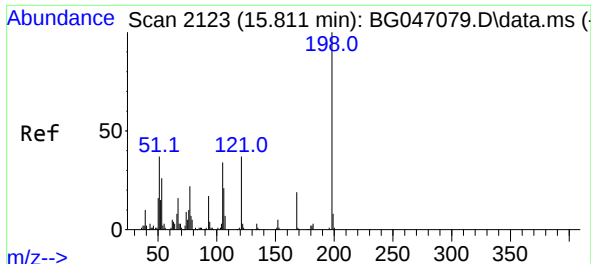
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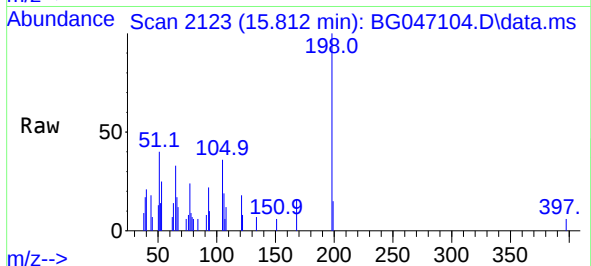
#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.434 min Scan# 2399  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 263460 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 5.5   | 6.3   | 9.5#   |
| 80        | 6.1   | 7.0   | 10.6#  |

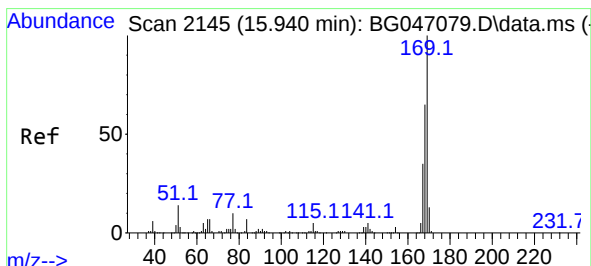
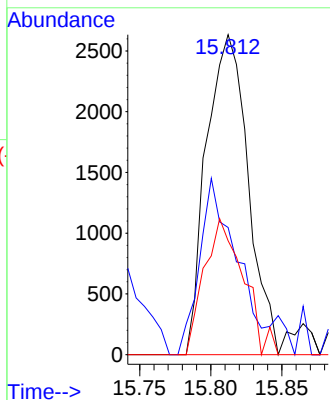
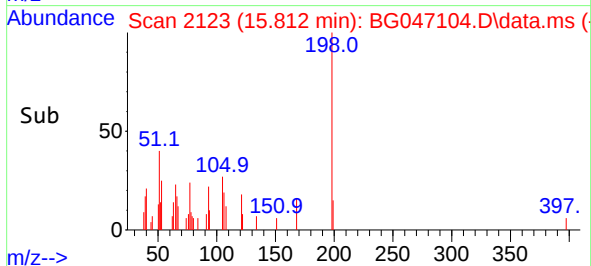




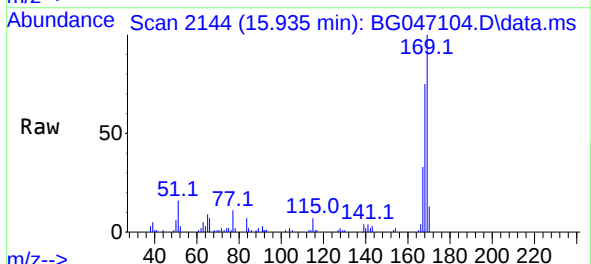
#65  
4,6-Dinitro-2-methylphenol  
Concen: 3.31 ng  
RT: 15.812 min Scan# 2123  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



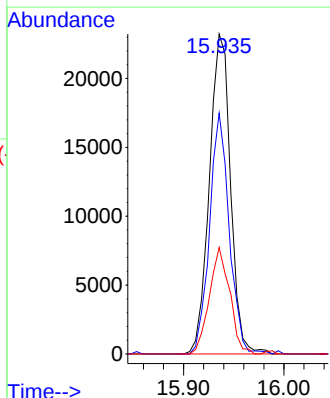
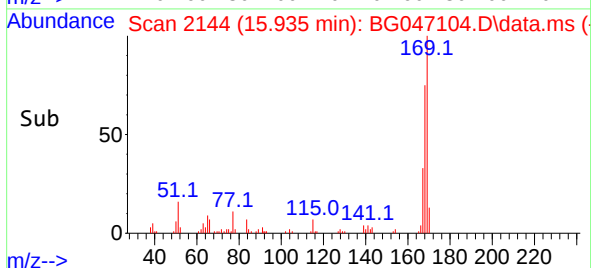
Tgt Ion:198 Resp: 5367  
Ion Ratio Lower Upper  
198 100  
51 39.7 10.4 50.4  
105 35.6 12.9 52.9



#66  
n-Nitrosodiphenylamine  
Concen: 4.50 ng  
RT: 15.935 min Scan# 2144  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



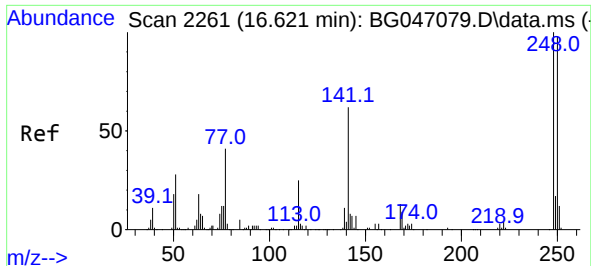
Tgt Ion:169 Resp: 34041  
Ion Ratio Lower Upper  
169 100  
168 75.2 55.5 83.3  
167 33.2 30.5 45.7



Instrument :  
BNA\_G  
ClientSampleId :  
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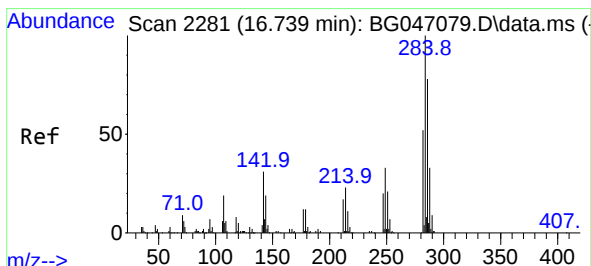
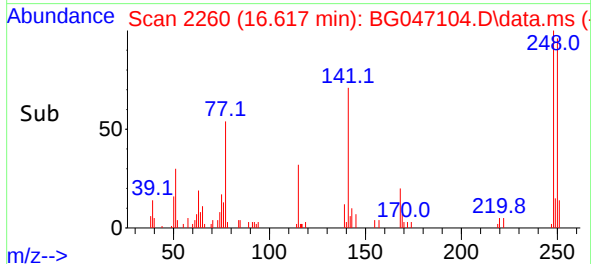
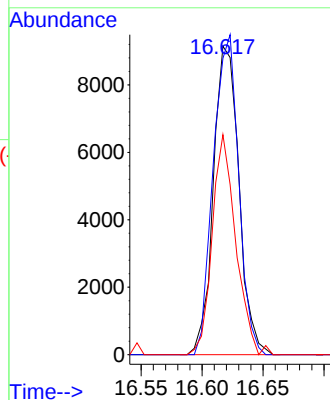
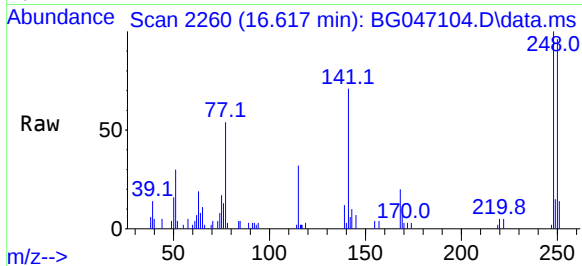
#67  
4-Bromophenyl-phenylether  
Concen: 3.85 ng  
RT: 16.617 min Scan# 2260  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
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Tgt Ion:248 Resp: 13343  
Ion Ratio Lower Upper  
248 100  
250 96.0 78.9 118.3  
141 71.3 46.2 69.4#

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

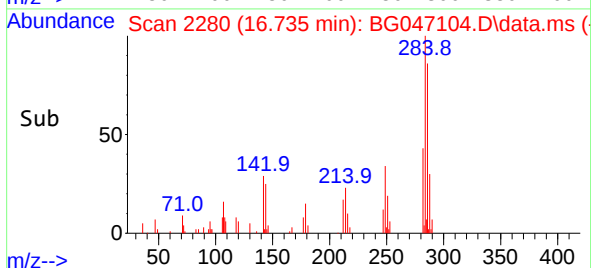
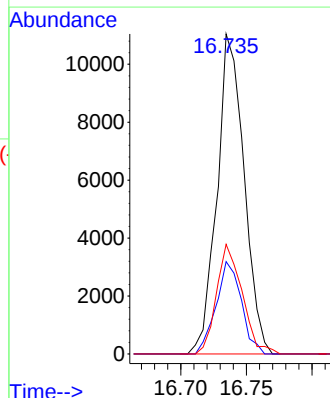
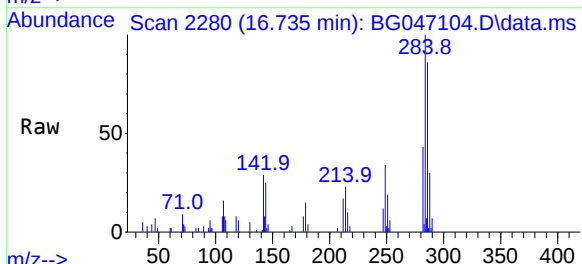
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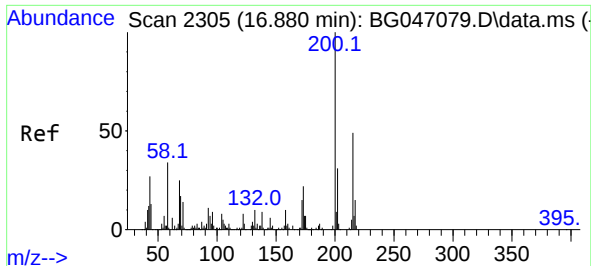
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#68  
Hexachlorobenzene  
Concen: 4.32 ng  
RT: 16.735 min Scan# 2280  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:284 Resp: 15808  
Ion Ratio Lower Upper  
284 100  
142 28.8 21.1 31.7  
249 37.6 25.9 38.9





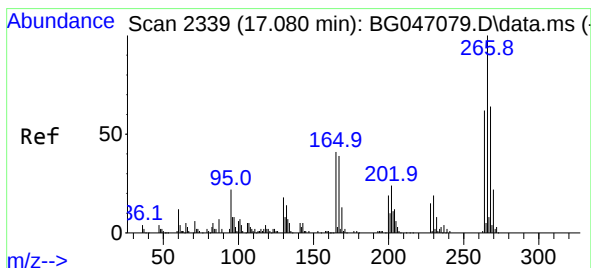
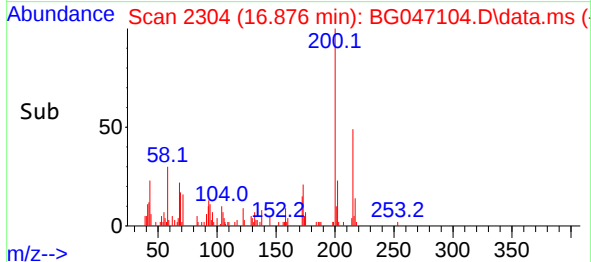
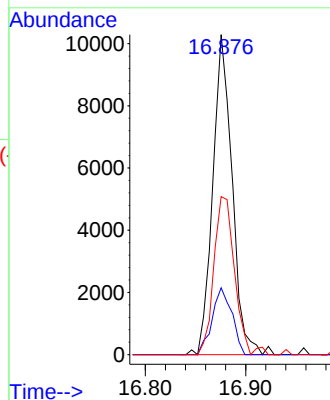
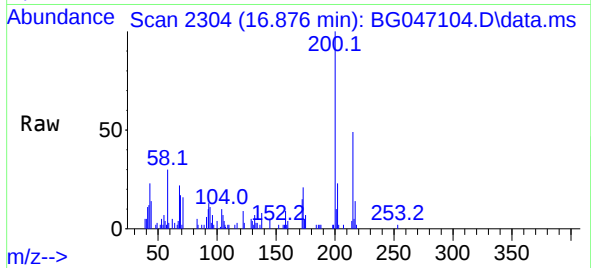
#69  
Atrazine  
Concen: 4.43 ng  
RT: 16.876 min Scan# 2304  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:200 Resp: 13789  
Ion Ratio Lower Upper  
200 100  
173 20.9 4.2 44.2  
215 49.4 30.0 70.0

Instrument :  
BNA\_G  
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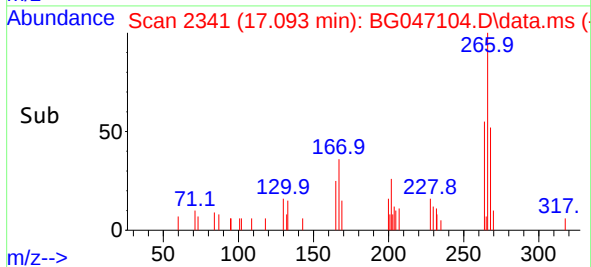
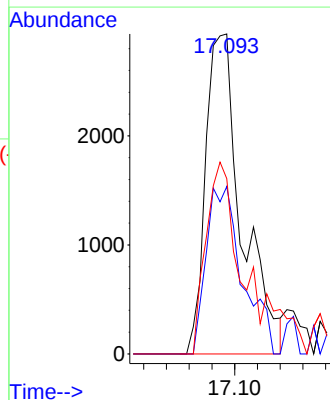
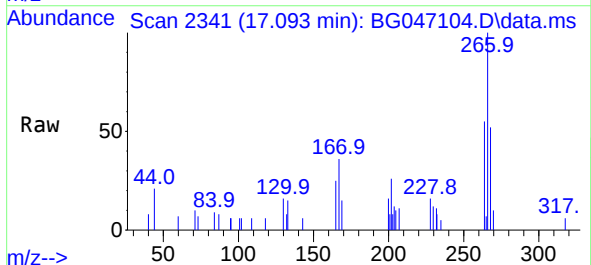
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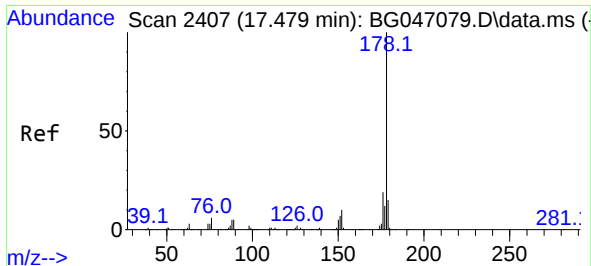
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#70  
Pentachlorophenol  
Concen: 3.04 ng  
RT: 17.093 min Scan# 2341  
Delta R.T. 0.013 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

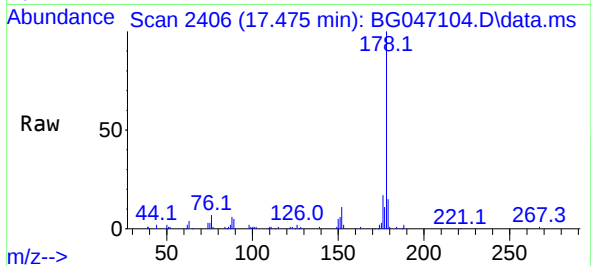
Tgt Ion:266 Resp: 6476  
Ion Ratio Lower Upper  
266 100  
268 52.3 49.8 74.6  
264 54.8 49.3 73.9





#71  
Phenanthrene  
Concen: 4.55 ng  
RT: 17.475 min Scan# 2406  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

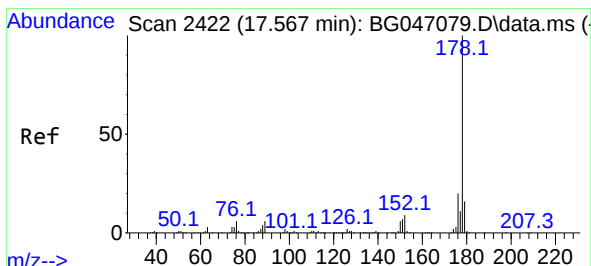
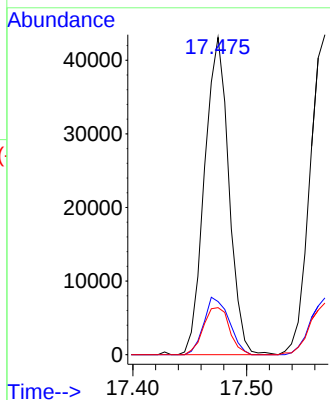
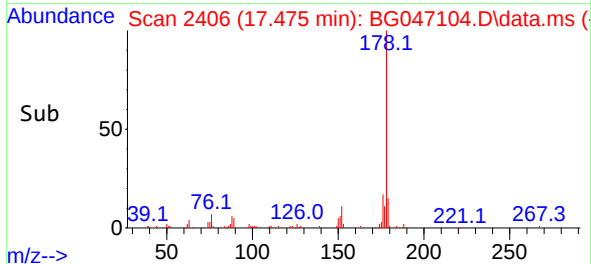
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



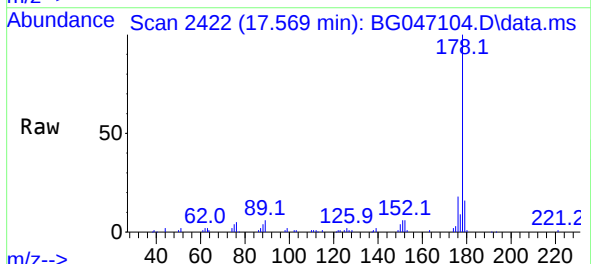
Tgt Ion:178 Resp: 63991  
Ion Ratio Lower Upper  
178 100  
176 16.7 16.7 25.1  
179 14.8 14.0 21.0

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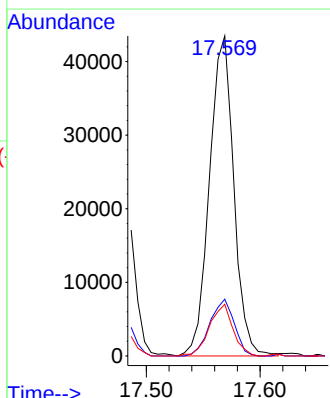
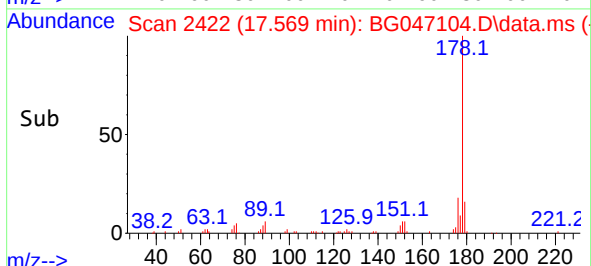
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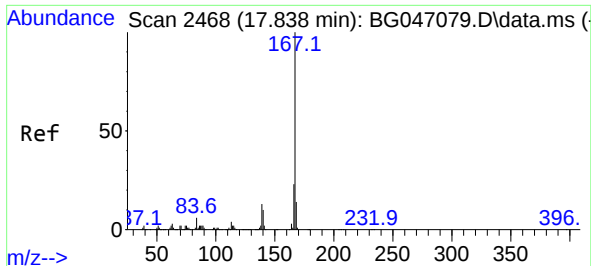


#72  
Anthracene  
Concen: 4.68 ng  
RT: 17.569 min Scan# 2422  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



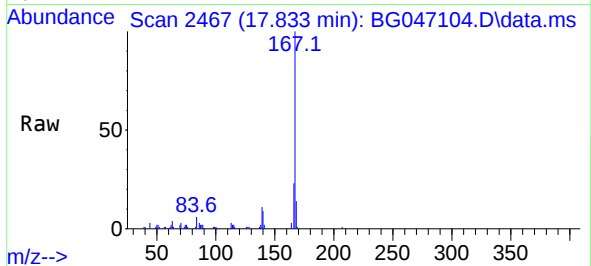
Tgt Ion:178 Resp: 64581  
Ion Ratio Lower Upper  
178 100  
176 17.8 16.4 24.6  
179 16.1 13.8 20.6





#73  
 Carbazole  
 Concen: 4.47 ng  
 RT: 17.833 min Scan# 2467  
 Delta R.T. -0.004 min  
 Lab File: BG047104.D  
 Acq: 28 Oct 2020 12:04

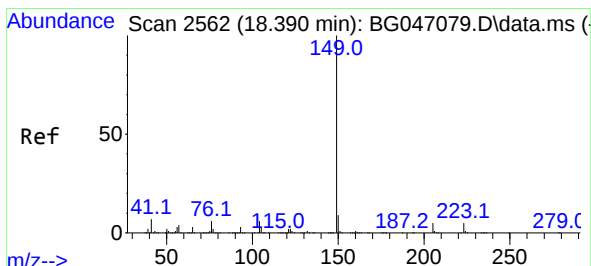
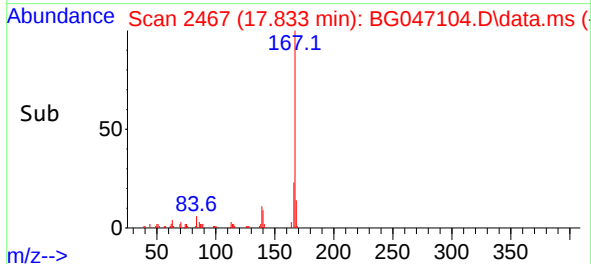
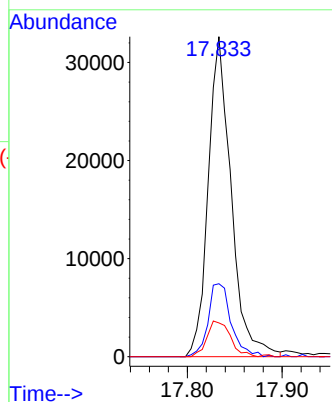
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2020



|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 54793     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 22.8  | 18.7 28.1 |
| 139         | 10.5  | 9.6 14.4  |

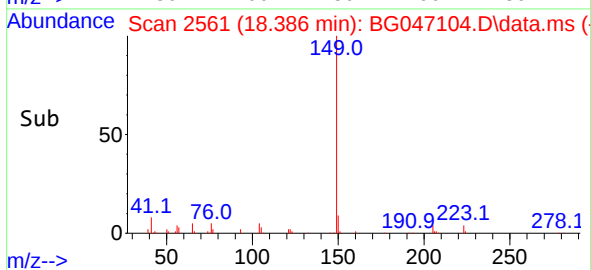
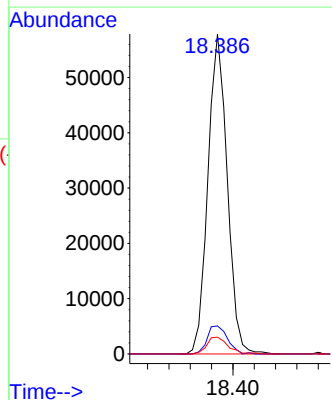
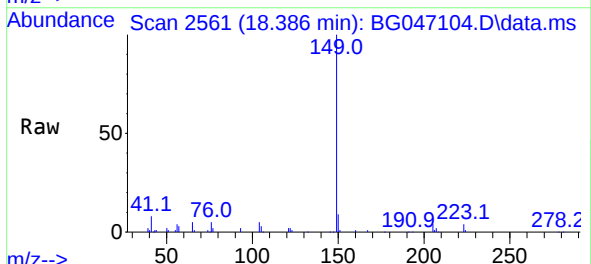
Manual Integrations  
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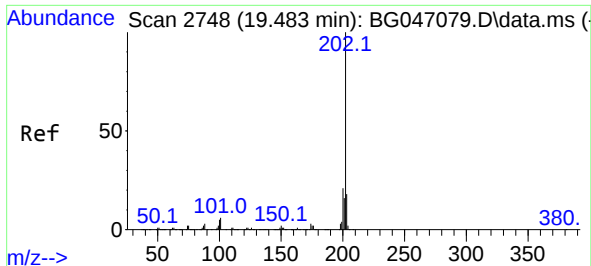
mohammad  
 10/29/2020 10:43:43 AM



#74  
 Di-n-butylphthalate  
 Concen: 4.80 ng  
 RT: 18.386 min Scan# 2561  
 Delta R.T. -0.004 min  
 Lab File: BG047104.D  
 Acq: 28 Oct 2020 12:04

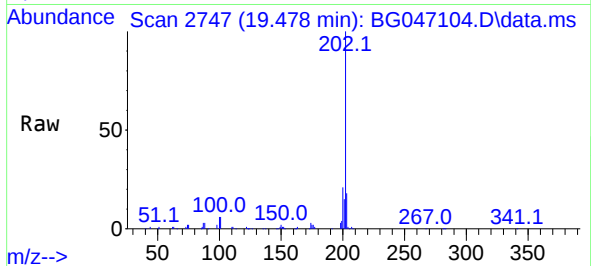
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:149 | Resp: | 72703    |
| Ion Ratio   | Lower | Upper    |
| 149         | 100   |          |
| 150         | 8.7   | 8.2 12.4 |
| 104         | 5.3   | 3.8 5.8  |





#75  
Fluoranthene  
Concen: 4.90 ng  
RT: 19.478 min Scan# 2747  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

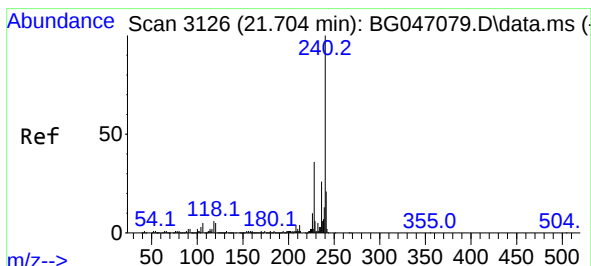
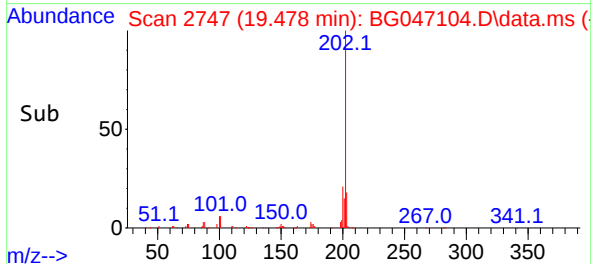
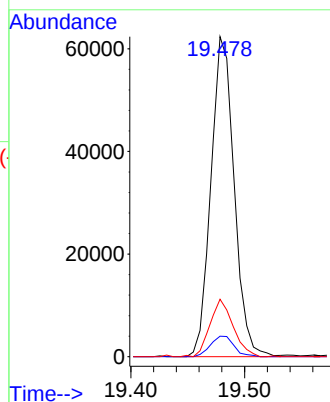
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



Tgt Ion:202 Resp: 88582  
Ion Ratio Lower Upper  
202 100  
101 6.4 0.0 29.7  
203 17.9 0.0 39.2

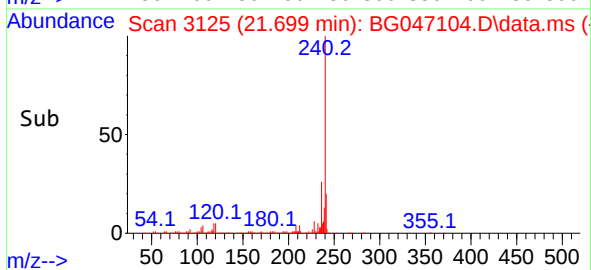
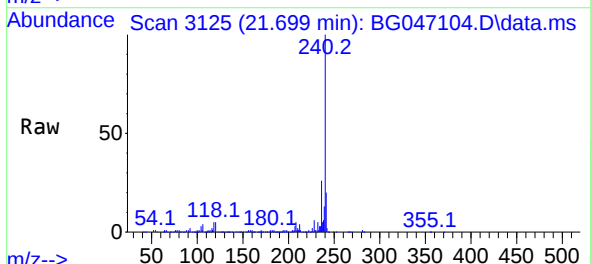
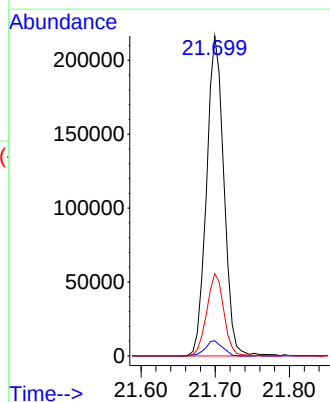
Manual Integrations  
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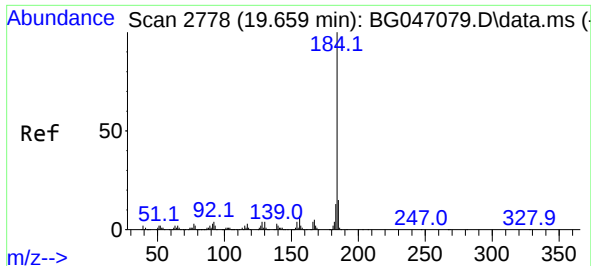
mohammad  
10/29/2020 10:43:43 AM



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.699 min Scan# 3125  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:240 Resp: 351042  
Ion Ratio Lower Upper  
240 100  
120 4.7 6.2 9.4#  
236 25.7 20.5 30.7





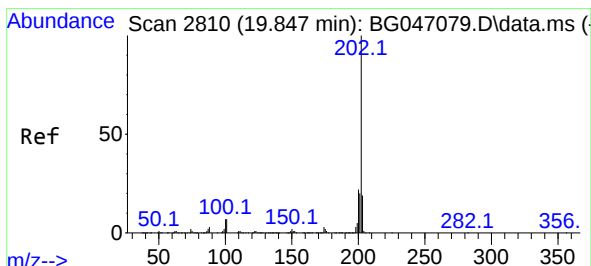
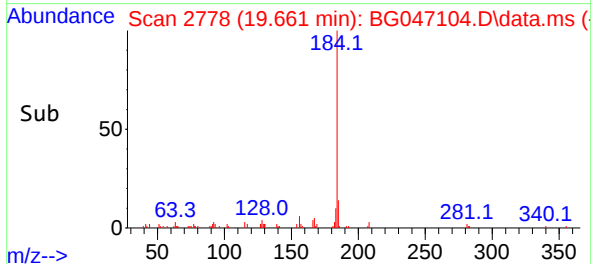
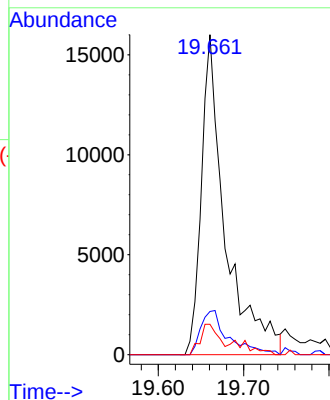
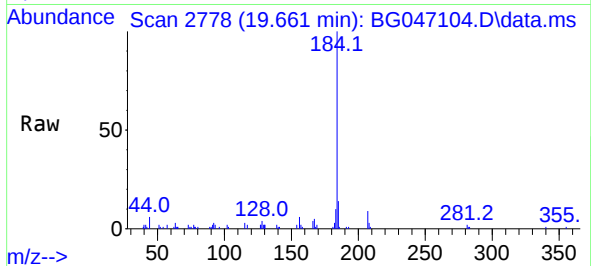
#77  
Benzidine  
Concen: 3.88 ng  
RT: 19.661 min Scan# 2778  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:184 | Resp: | 31118      |
| Ion Ratio   | Lower | Upper      |
| 184         | 100   |            |
| 185         | 13.5  | 12.4 18.6  |
| 183         | 9.5   | 10.6 15.8# |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

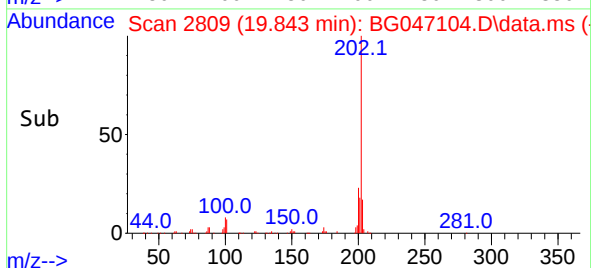
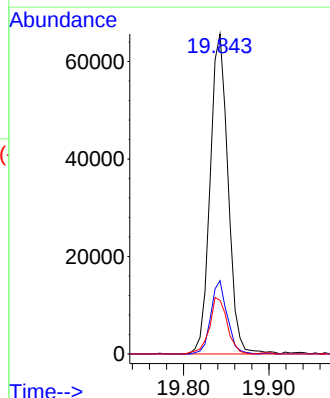
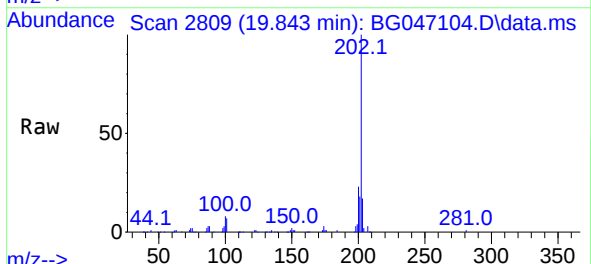
Manual Integrations  
APPROVED

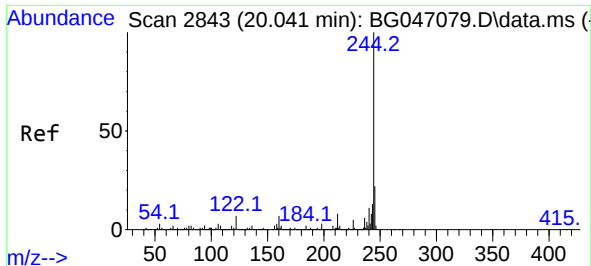
mohammad  
10/29/2020 10:43:43 AM



#78  
Pyrene  
Concen: 4.27 ng  
RT: 19.843 min Scan# 2809  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 95626     |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 200         | 22.9  | 18.6 27.8 |
| 203         | 16.7  | 15.3 22.9 |





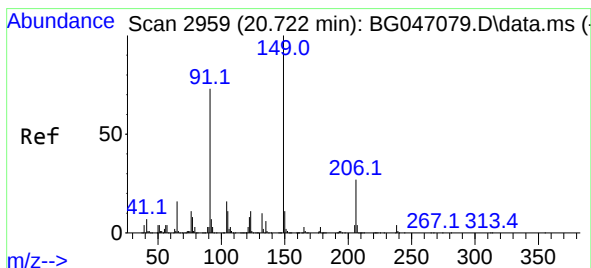
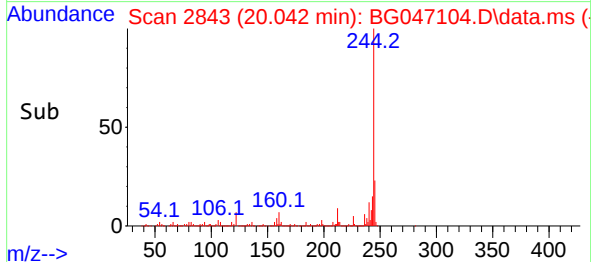
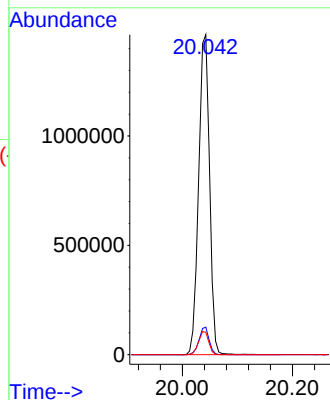
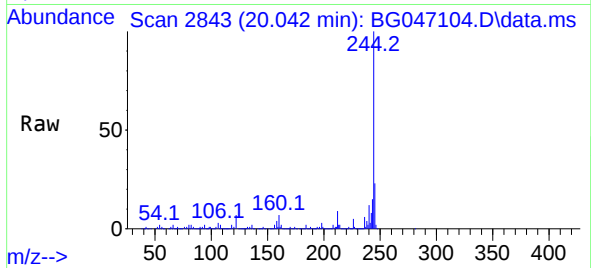
#79  
 Terphenyl-d14  
 Concen: 111.74 ng  
 RT: 20.042 min Scan# 2843  
 Delta R.T. 0.001 min  
 Lab File: BG047104.D  
 Acq: 28 Oct 2020 12:04

Tgt Ion:244 Resp: 2017289  
 Ion Ratio Lower Upper  
 244 100  
 212 8.6 6.7 10.1  
 122 7.0 7.8 11.6#

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2020

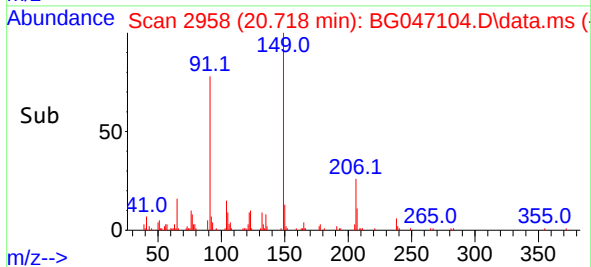
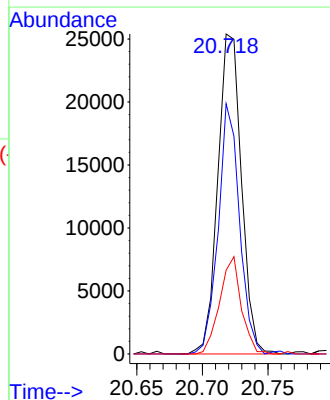
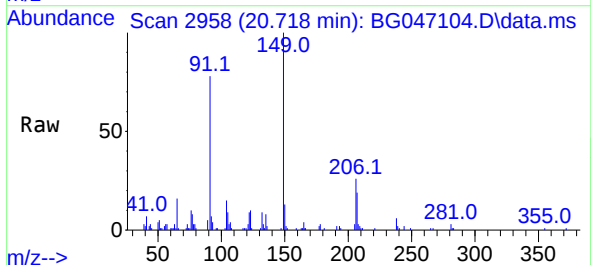
Manual Integrations  
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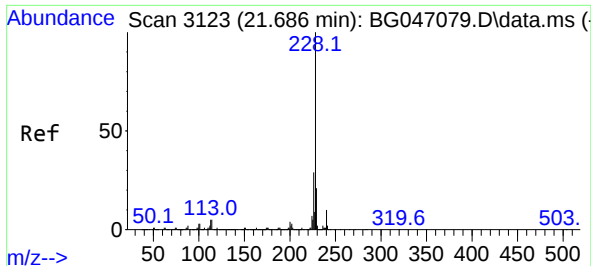
mohammad  
 10/29/2020 10:43:43 AM



#80  
 Butylbenzylphthalate  
 Concen: 3.70 ng  
 RT: 20.718 min Scan# 2958  
 Delta R.T. -0.004 min  
 Lab File: BG047104.D  
 Acq: 28 Oct 2020 12:04

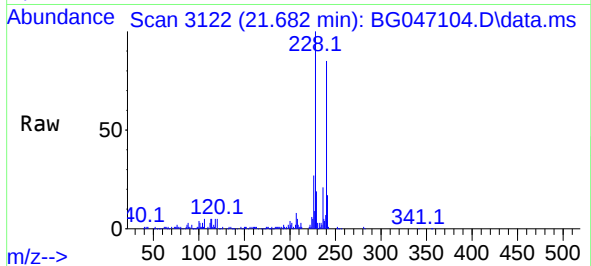
Tgt Ion:149 Resp: 31766  
 Ion Ratio Lower Upper  
 149 100  
 91 78.2 51.5 77.3#  
 206 26.2 21.2 31.8





#81  
Benzo(a)anthracene  
Concen: 4.48 ng  
RT: 21.682 min Scan# 3122  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

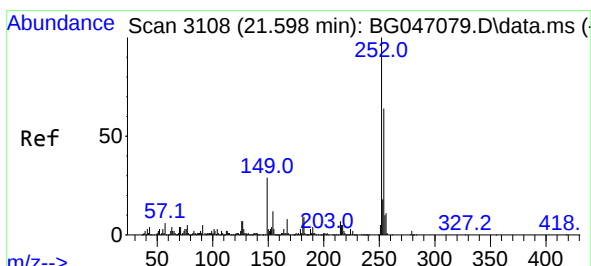
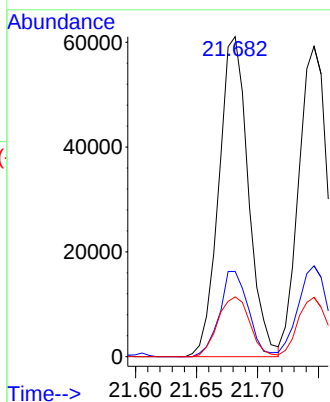
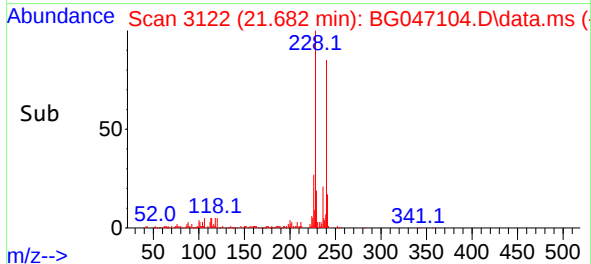
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



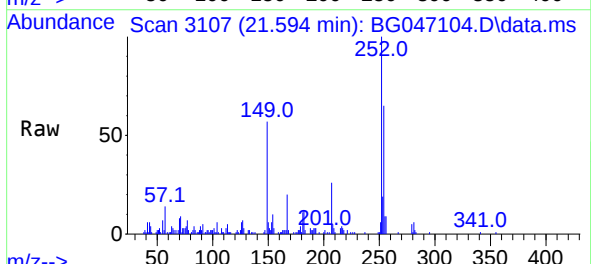
Tgt Ion:228 Resp: 102953  
Ion Ratio Lower Upper  
228 100  
226 26.6 23.3 34.9  
229 18.7 17.4 26.0

Manual Integrations  
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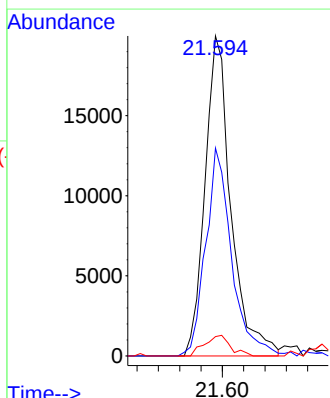
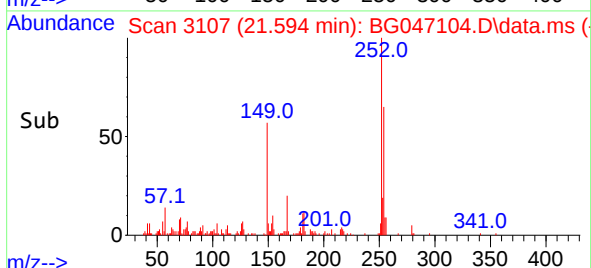
mohammad  
10/29/2020 10:43:43 AM

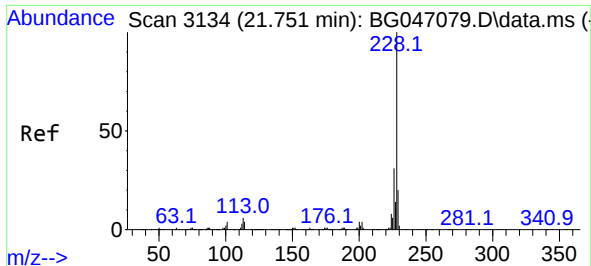


#82  
3,3'-Dichlorobenzidine  
Concen: 4.06 ng  
RT: 21.594 min Scan# 3107  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



Tgt Ion:252 Resp: 33840  
Ion Ratio Lower Upper  
252 100  
254 64.9 53.2 79.8  
126 6.1 6.8 10.2#





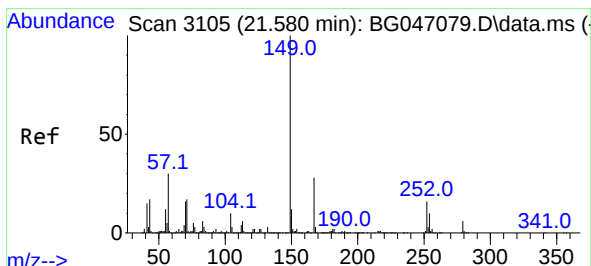
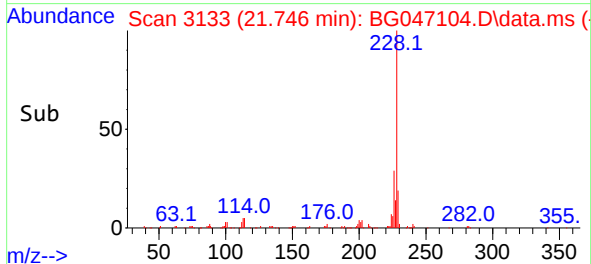
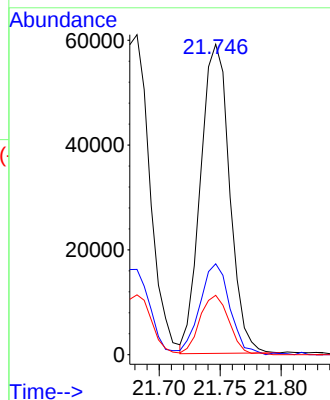
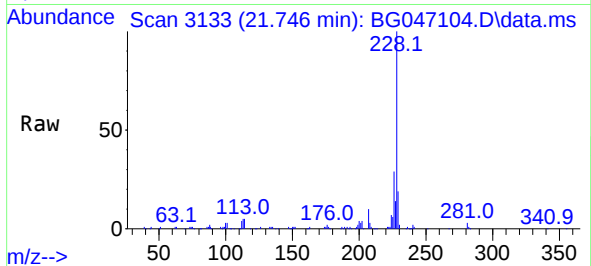
#83  
Chrysene  
Concen: 4.47 ng  
RT: 21.746 min Scan# 3133  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 97958 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 29.3  | 25.0  | 37.4  |
| 229      | 19.1  | 17.3  | 25.9  |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

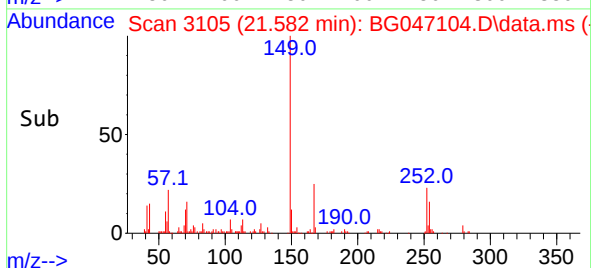
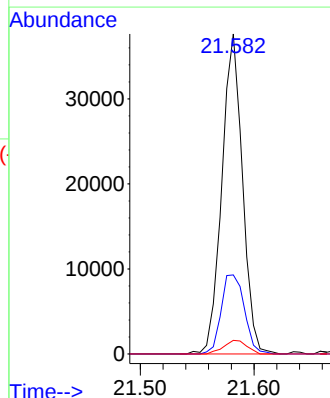
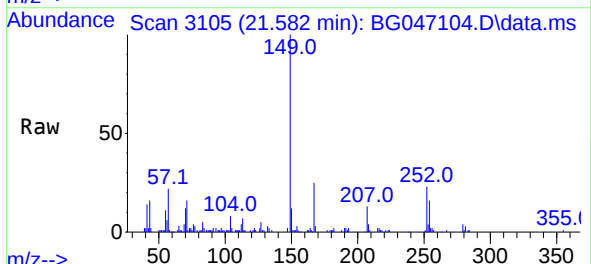
Manual Integrations  
APPROVED

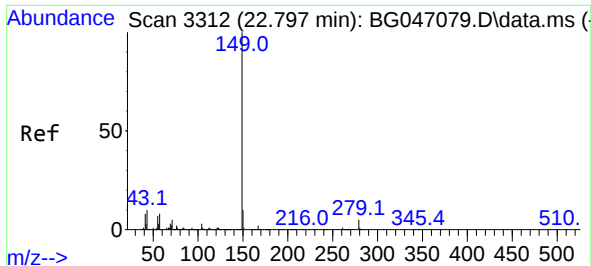
mohammad  
10/29/2020 10:43:43 AM



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 3.93 ng  
RT: 21.582 min Scan# 3105  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 47519 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 167      | 24.7  | 24.8  | 37.2# |
| 279      | 4.2   | 4.6   | 7.0#  |





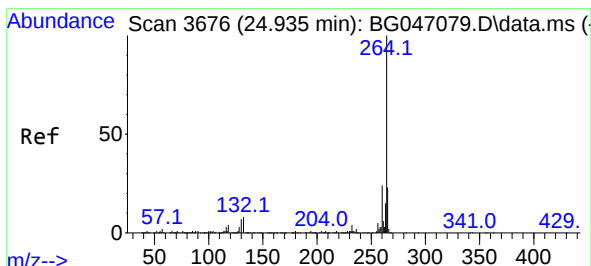
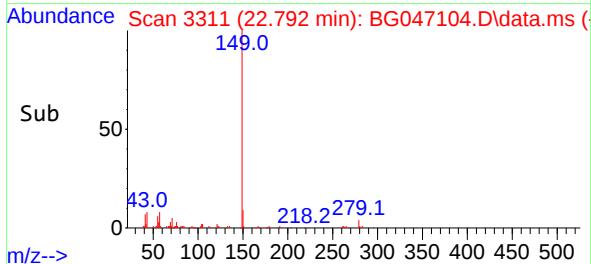
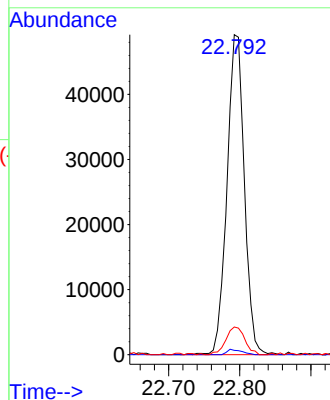
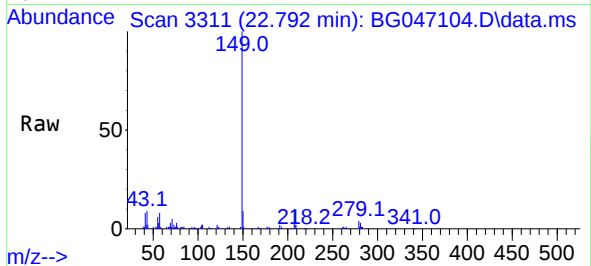
#85  
Di-n-octyl phthalate  
Concen: 4.11 ng  
RT: 22.792 min Scan# 3311  
Delta R.T. -0.004 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:149 Resp: 83461  
Ion Ratio Lower Upper  
149 100  
167 1.4 1.4 2.2#  
43 9.4 6.8 10.2

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

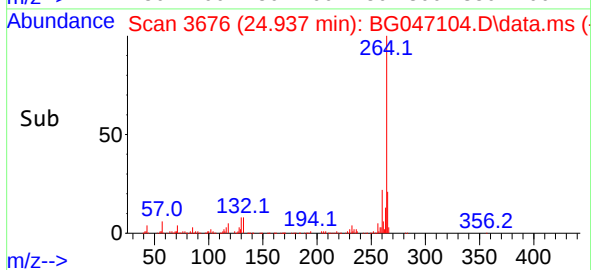
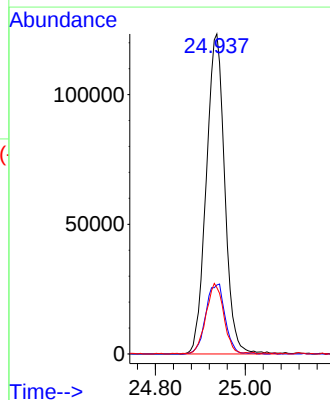
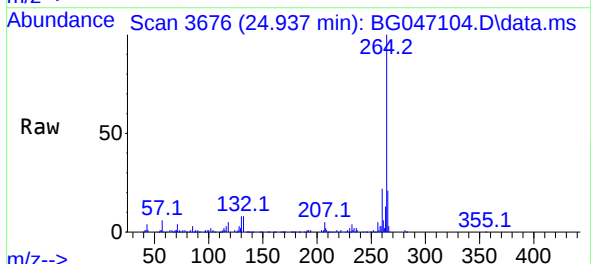
Manual Integrations  
APPROVED

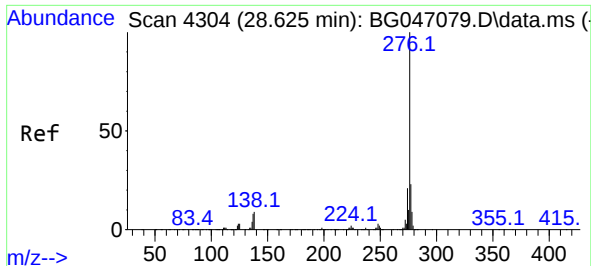
mohammad  
10/29/2020 10:43:43 AM



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 24.937 min Scan# 3676  
Delta R.T. 0.002 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

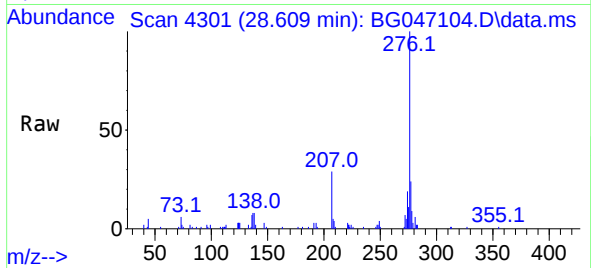
Tgt Ion:264 Resp: 351991  
Ion Ratio Lower Upper  
264 100  
260 21.5 18.8 28.2  
265 20.7 17.8 26.8





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.17 ng  
RT: 28.609 min Scan# 4301  
Delta R.T. -0.016 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

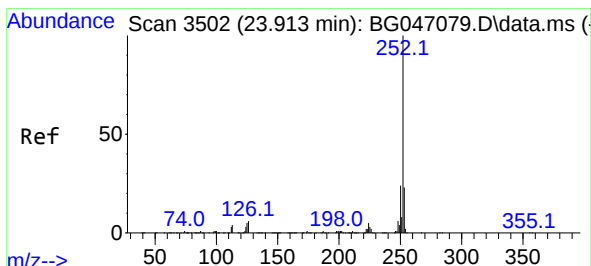
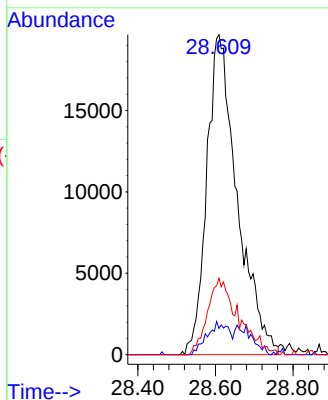
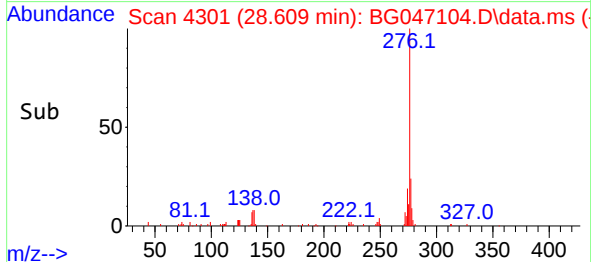
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020



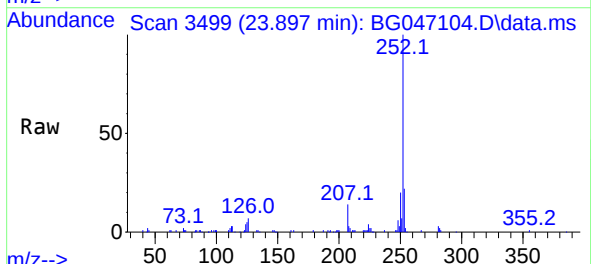
Tgt Ion:276 Resp: 107134  
Ion Ratio Lower Upper  
276 100  
138 7.3 16.2 24.2#  
277 24.2 20.3 30.5

Manual Integrations  
APPROVED

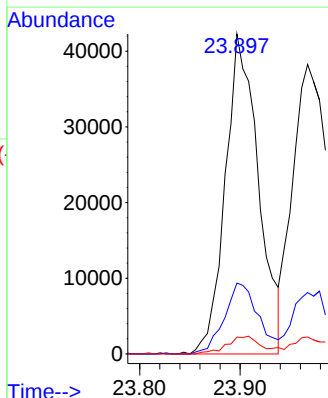
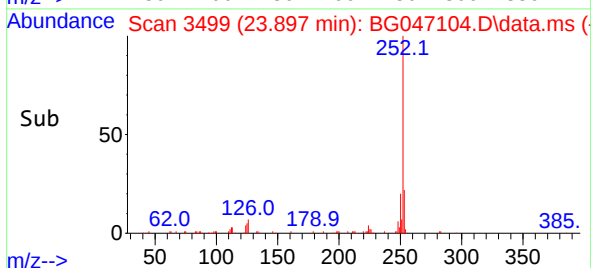
mohammad  
10/29/2020 10:43:43 AM

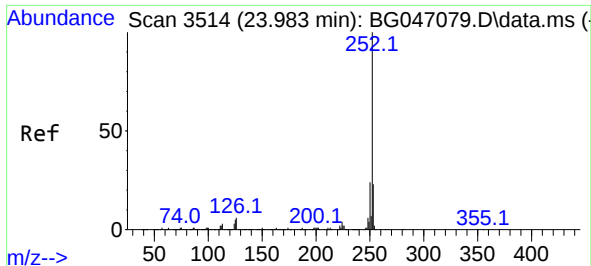


#88  
Benzo(b)fluoranthene  
Concen: 4.22 ng  
RT: 23.897 min Scan# 3499  
Delta R.T. -0.016 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04



Tgt Ion:252 Resp: 97157  
Ion Ratio Lower Upper  
252 100  
253 22.2 18.7 28.1  
125 5.3 6.5 9.7#





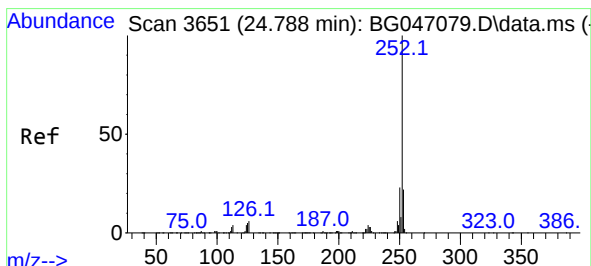
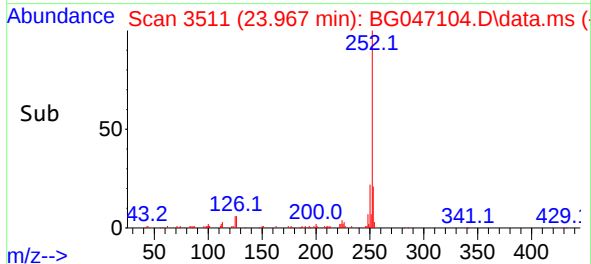
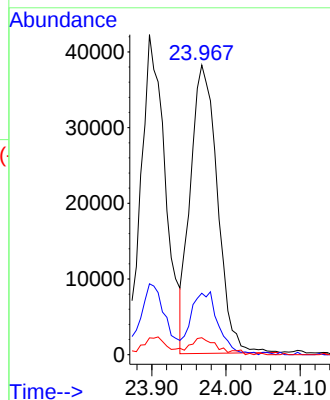
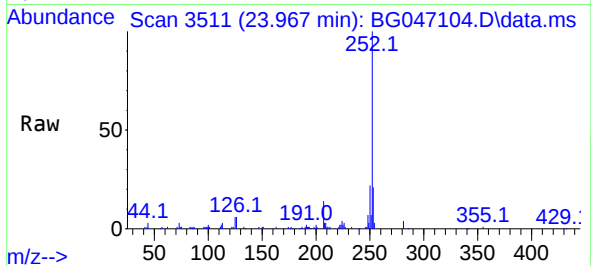
#89  
Benzo(k)fluoranthene  
Concen: 4.31 ng  
RT: 23.967 min Scan# 3511  
Delta R.T. -0.016 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:252 Resp: 96372  
Ion Ratio Lower Upper  
252 100  
253 21.2 18.6 27.8  
125 5.9 6.8 10.2#

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

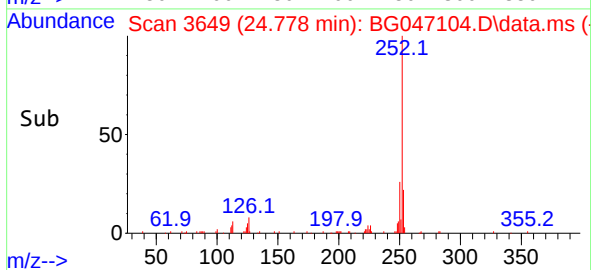
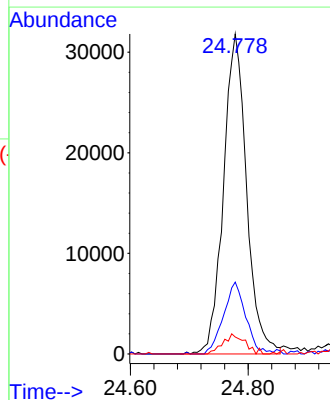
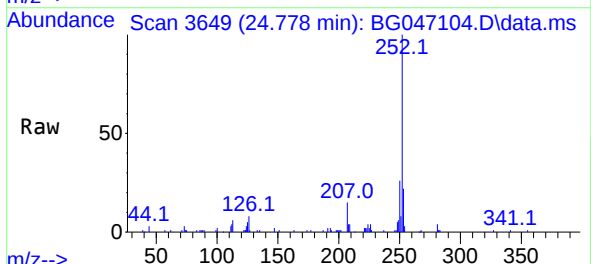
Manual Integrations  
APPROVED

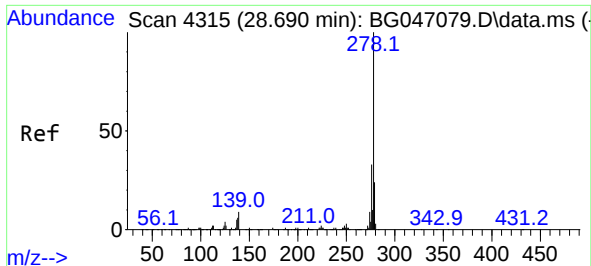
mohammad  
10/29/2020 10:43:43 AM



#90  
Benzo(a)pyrene  
Concen: 4.04 ng  
RT: 24.778 min Scan# 3649  
Delta R.T. -0.010 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

Tgt Ion:252 Resp: 86814  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.9 26.9  
125 5.3 7.0 10.4#





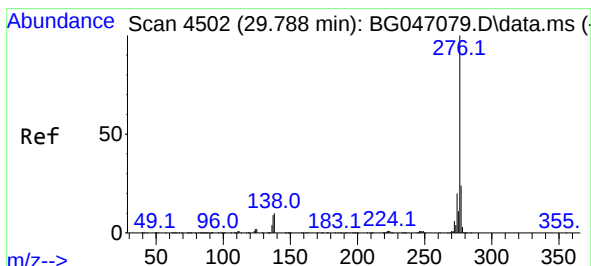
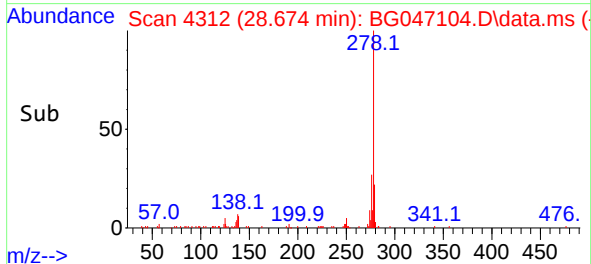
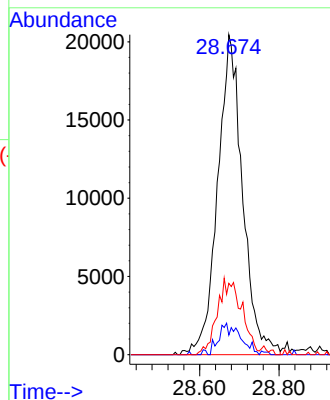
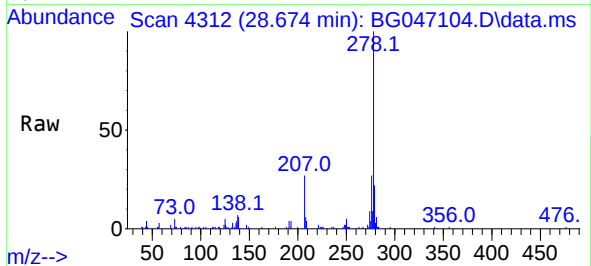
#91  
Dibenzo(a,h)anthracene  
Concen: 4.27 ng  
RT: 28.674 min Scan# 4312  
Delta R.T. -0.016 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 6.1   | 10.5  | 15.7# |
| 279     | 22.3  | 19.4  | 29.0  |

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT4-2020

Manual Integrations  
APPROVED

mohammad  
10/29/2020 10:43:43 AM



#92  
Benzo(g,h,i)perylene  
Concen: 4.24 ng  
RT: 29.749 min Scan# 4495  
Delta R.T. -0.040 min  
Lab File: BG047104.D  
Acq: 28 Oct 2020 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.7  | 19.6  | 29.4  |
| 138     | 11.0  | 13.4  | 20.2# |

