

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032023\  
 Data File : BM039039.D  
 Acq On : 20 Mar 2023 11:38  
 Operator : CG/JU  
 Sample : 01627-03  
 Misc : MDL-MDL-SOIL 4ppm  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2022

Quant Time: Mar 21 04:04:54 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM030823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 17 05:25:34 2023  
 Response via : Initial Calibration

| Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------|--------|------|----------|--------|-------|----------|
| -----                     |        |      |          |        |       |          |
| Internal Standards        |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4 | 7.975  | 152  | 355305   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.786 | 136  | 1466860  | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.610 | 164  | 916518   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.357 | 188  | 1935634  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.533 | 240  | 1789904  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12          | 23.968 | 264  | 1834696  | 20.000 | ng    | -0.01    |

|                             |        |     |         |         |    |      |
|-----------------------------|--------|-----|---------|---------|----|------|
| System Monitoring Compounds |        |     |         |         |    |      |
| 5) 2-Fluorophenol           | 5.522  | 112 | 2579866 | 110.316 | ng | 0.00 |
| 7) Phenol-d6                | 7.134  | 99  | 3411049 | 112.293 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 9.139  | 82  | 2481794 | 83.108  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 16.098 | 330 | 1249848 | 117.881 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 13.239 | 172 | 5366790 | 76.228  | ng | 0.00 |
| 79) Terphenyl-d14           | 19.980 | 244 | 8130476 | 83.050  | ng | 0.00 |

|                               |        |     |        |       |        |      |
|-------------------------------|--------|-----|--------|-------|--------|------|
| Target Compounds              |        |     |        |       | Qvalue |      |
| 2) 1,4-Dioxane                | 3.393  | 88  | 40023  | 3.847 | ng     | 98   |
| 3) Pyridine                   | 3.810  | 79  | 80706  | 2.797 | ng     | 94   |
| 4) n-Nitrosodimethylamine     | 3.710  | 42  | 43412  | 3.697 | ng     | # 91 |
| 6) Aniline                    | 7.298  | 93  | 146358 | 3.670 | ng     | 98   |
| 8) 2-Chlorophenol             | 7.534  | 128 | 95754  | 3.846 | ng     | 99   |
| 9) Benzaldehyde               | 7.110  | 77  | 94443  | 6.534 | ng     | 96   |
| 10) Phenol                    | 7.157  | 94  | 123119 | 3.817 | ng     | 97   |
| 11) bis(2-Chloroethyl)ether   | 7.393  | 93  | 102553 | 3.910 | ng     | 99   |
| 12) 1,3-Dichlorobenzene       | 7.863  | 146 | 103297 | 3.904 | ng     | 99   |
| 13) 1,4-Dichlorobenzene       | 8.010  | 146 | 105714 | 3.928 | ng     | 100  |
| 14) 1,2-Dichlorobenzene       | 8.328  | 146 | 104156 | 4.018 | ng     | 100  |
| 15) Benzyl Alcohol            | 8.210  | 79  | 83935  | 3.855 | ng     | 97   |
| 16) 2,2'-oxybis(1-Chloropr... | 8.498  | 45  | 144290 | 4.356 | ng     | 99   |
| 17) 2-Methylphenol            | 8.416  | 107 | 76250  | 3.441 | ng     | 99   |
| 18) Hexachloroethane          | 9.057  | 117 | 40086  | 4.037 | ng     | 97   |
| 19) n-Nitroso-di-n-propyla... | 8.781  | 70  | 80813  | 4.224 | ng     | 97   |
| 20) 3+4-Methylphenols         | 8.739  | 107 | 97697  | 3.302 | ng     | 97   |
| 22) Acetophenone              | 8.798  | 105 | 158820 | 3.859 | ng     | # 97 |
| 24) Nitrobenzene              | 9.181  | 77  | 128006 | 4.078 | ng     | 96   |
| 25) Isophorone                | 9.710  | 82  | 215073 | 3.914 | ng     | 100  |
| 26) 2-Nitrophenol             | 9.898  | 139 | 40506  | 5.731 | ng     | 99   |
| 27) 2,4-Dimethylphenol        | 9.951  | 122 | 83858  | 3.502 | ng     | 100  |
| 28) bis(2-Chloroethoxy)met... | 10.192 | 93  | 139471 | 3.950 | ng     | 100  |
| 29) 2,4-Dichlorophenol        | 10.428 | 162 | 74720  | 3.291 | ng     | 95   |
| 30) 1,2,4-Trichlorobenzene    | 10.645 | 180 | 91193  | 3.676 | ng     | 96   |
| 31) Naphthalene               | 10.833 | 128 | 309414 | 3.699 | ng     | 100  |
| 32) Benzoic acid              | 10.010 | 122 | 27118  | 7.092 | ng     | 99   |
| 33) 4-Chloroaniline           | 10.945 | 127 | 124037 | 3.480 | ng     | 99   |
| 34) Hexachlorobutadiene       | 11.122 | 225 | 49413  | 3.473 | ng     | 96   |
| 35) Caprolactam               | 11.710 | 113 | 23727  | 3.434 | ng     | 95   |
| 36) 4-Chloro-3-methylphenol   | 12.063 | 107 | 85779  | 3.549 | ng     | 98   |
| 37) 2-Methylnaphthalene       | 12.445 | 142 | 205123 | 3.659 | ng     | 97   |
| 38) 1-Methylnaphthalene       | 12.663 | 142 | 195132 | 3.714 | ng     | 98   |
| 40) 1,2,4,5-Tetrachloroben... | 12.810 | 216 | 98846  | 3.317 | ng     | 99   |
| 41) Hexachlorocyclopentadiene | 12.786 | 237 | 54836  | 3.353 | ng     | 99   |
| 43) 2,4,6-Trichlorophenol     | 13.045 | 196 | 56679  | 2.938 | ng     | 99   |

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 Sample : 01627-03  
 Misc : MDL-MDL-SOIL 4ppm  
 ALS Vial : 4 Sample Multiplier: 1

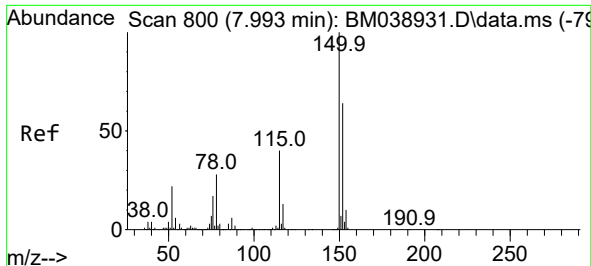
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 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2022

Quant Time: Mar 21 04:04:54 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM030823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 17 05:25:34 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.116 | 196  | 64193    | 2.842 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 13.451 | 154  | 295647   | 3.808 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.492 | 162  | 210914   | 3.602 | ng    | 99       |
| 48) 2-Nitroaniline            | 13.692 | 65   | 53170    | 4.921 | ng    | 95       |
| 49) Acenaphthylene            | 14.333 | 152  | 315912   | 3.387 | ng    | 98       |
| 50) Dimethylphthalate         | 14.069 | 163  | 266422   | 3.778 | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.186 | 165  | 45575    | 4.353 | ng    | # 84     |
| 52) Acenaphthene              | 14.674 | 154  | 202090   | 3.526 | ng    | 98       |
| 53) 3-Nitroaniline            | 14.516 | 138  | 49001    | 4.188 | ng    | 93       |
| 54) 2,4-Dinitrophenol         | 14.716 | 184  | 17115    | 6.976 | ng    | 90       |
| 55) Dibenzofuran              | 15.010 | 168  | 321181   | 3.581 | ng    | 99       |
| 56) 4-Nitrophenol             | 14.810 | 139  | 39349    | 2.809 | ng    | 92       |
| 57) 2,4-Dinitrotoluene        | 14.969 | 165  | 56282    | 4.695 | ng    | 87       |
| 58) Fluorene                  | 15.657 | 166  | 257248   | 3.662 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.233 | 232  | 57200    | 3.284 | ng    | 95       |
| 60) Diethylphthalate          | 15.427 | 149  | 261087   | 3.805 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.651 | 204  | 123890   | 3.589 | ng    | 96       |
| 62) 4-Nitroaniline            | 15.668 | 138  | 47641    | 4.222 | ng    | 90       |
| 63) Azobenzene                | 15.945 | 77   | 258701   | 3.563 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.727 | 198  | 25588    | 6.887 | ng    | 91       |
| 66) n-Nitrosodiphenylamine    | 15.863 | 169  | 213202   | 3.267 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.545 | 248  | 69200    | 3.310 | ng    | 93       |
| 68) Hexachlorobenzene         | 16.657 | 284  | 81398    | 3.483 | ng    | # 86     |
| 69) Atrazine                  | 16.815 | 200  | 67756    | 3.801 | ng    | 97       |
| 70) Pentachlorophenol         | 17.004 | 266  | 40506    | 2.356 | ng    | 95       |
| 71) Phenanthrene              | 17.398 | 178  | 410338   | 3.612 | ng    | 99       |
| 72) Anthracene                | 17.486 | 178  | 382072   | 3.372 | ng    | 99       |
| 73) Carbazole                 | 17.757 | 167  | 354893   | 3.432 | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.327 | 149  | 398904   | 4.843 | ng    | 99       |
| 75) Fluoranthene              | 19.409 | 202  | 428880   | 3.576 | ng    | 99       |
| 77) Benzidine                 | 19.598 | 184  | 182378   | 8.892 | ng    | 99       |
| 78) Pyrene                    | 19.774 | 202  | 453916   | 3.376 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.668 | 149  | 163824   | 5.984 | ng    | 93       |
| 81) Benzo(a)anthracene        | 21.515 | 228  | 454438   | 3.526 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 21.450 | 252  | 153081   | 3.864 | ng    | 98       |
| 83) Chrysene                  | 21.574 | 228  | 442250   | 3.528 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.445 | 149  | 255476   | 5.416 | ng    | 98       |
| 85) Di-n-octyl phthalate      | 22.386 | 149  | 397576   | 6.466 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 26.497 | 276  | 445213   | 3.189 | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 23.221 | 252  | 421621   | 3.597 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.274 | 252  | 433089   | 3.550 | ng    | 98       |
| 90) Benzo(a)pyrene            | 23.856 | 252  | 348715   | 3.091 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 26.515 | 278  | 376839   | 3.187 | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 27.274 | 276  | 360447   | 3.116 | ng    | 97       |

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

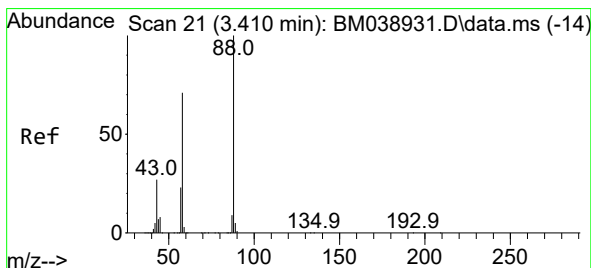
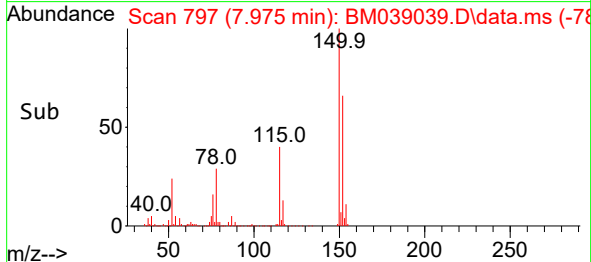
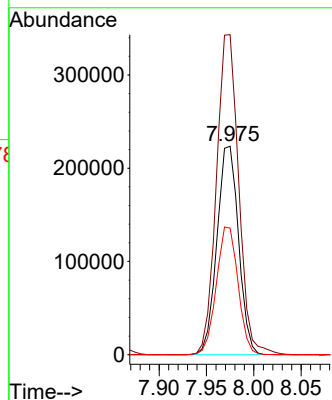
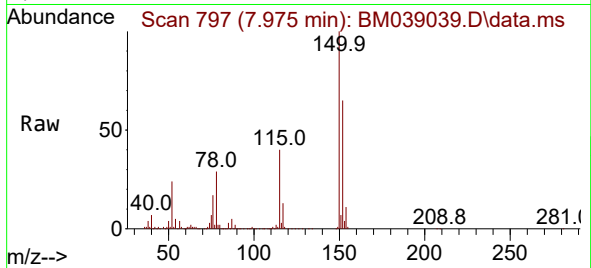




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.975 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

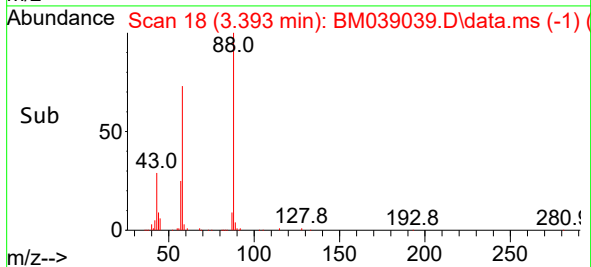
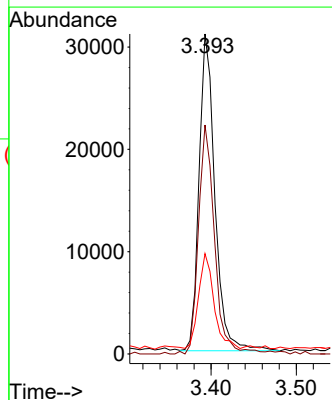
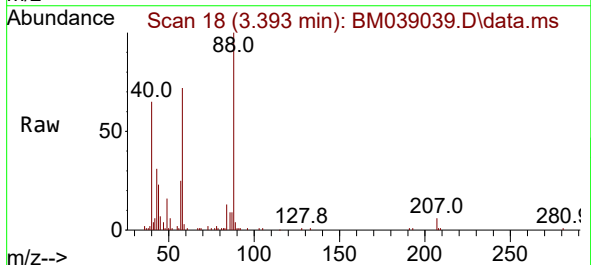
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BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

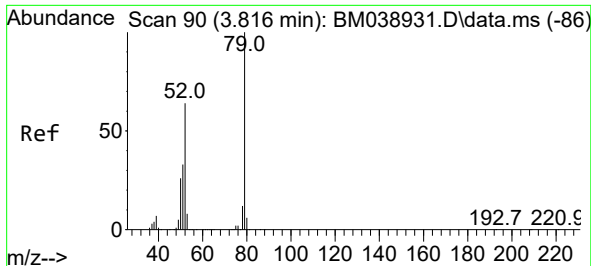
Tgt Ion:152 Resp: 355305  
Ion Ratio Lower Upper  
152 100  
150 153.4 125.1 187.7  
115 60.7 49.6 74.4



#2  
1,4-Dioxane  
Concen: 3.847 ng  
RT: 3.393 min Scan# 18  
Delta R.T. 0.000 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 88 Resp: 40023  
Ion Ratio Lower Upper  
88 100  
58 73.3 57.2 85.8  
43 29.2 22.0 33.0

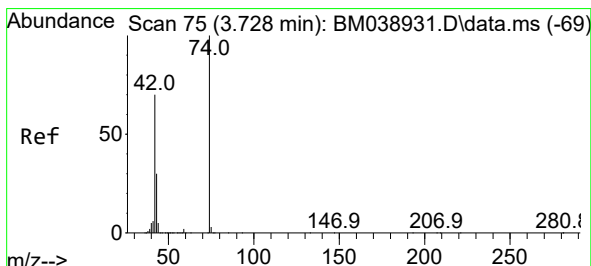
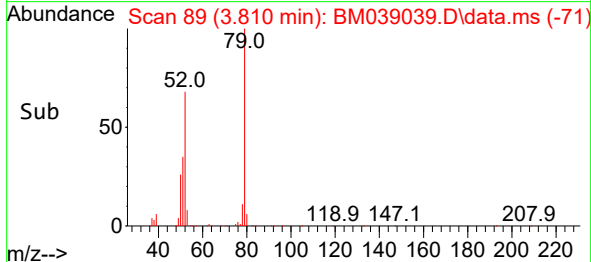
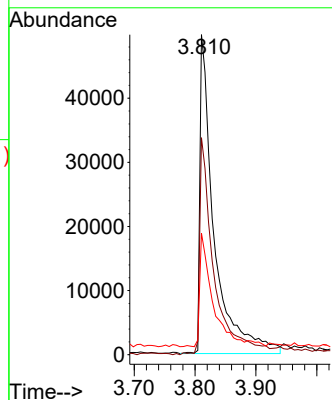
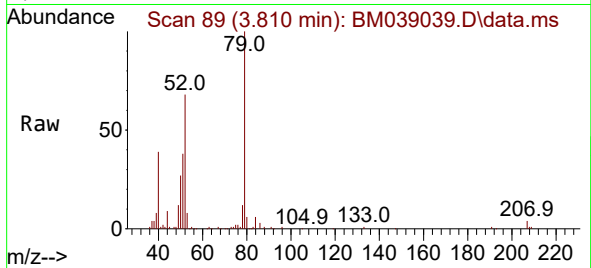




#3  
Pyridine  
Concen: 2.797 ng  
RT: 3.810 min Scan# 89  
Delta R.T. 0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

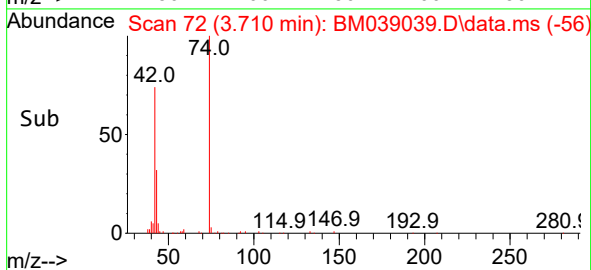
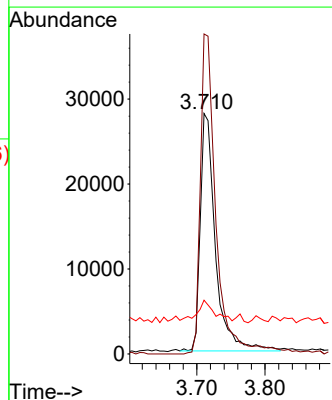
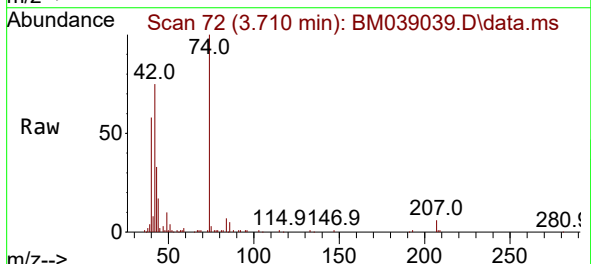
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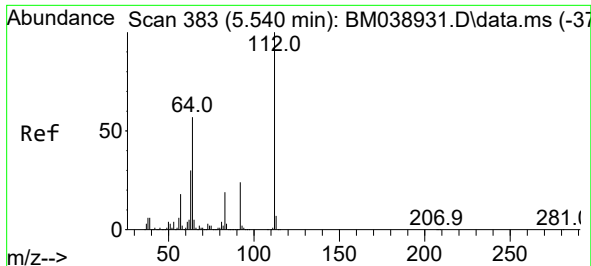
Tgt Ion: 79 Resp: 80706  
Ion Ratio Lower Upper  
79 100  
52 67.8 51.4 77.2  
51 38.0 26.6 40.0



#4  
n-Nitrosodimethylamine  
Concen: 3.697 ng  
RT: 3.710 min Scan# 72  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 42 Resp: 43412  
Ion Ratio Lower Upper  
42 100  
74 133.0 113.8 170.8  
44 22.4 6.2 9.2

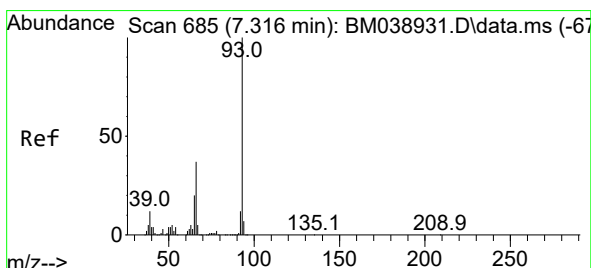
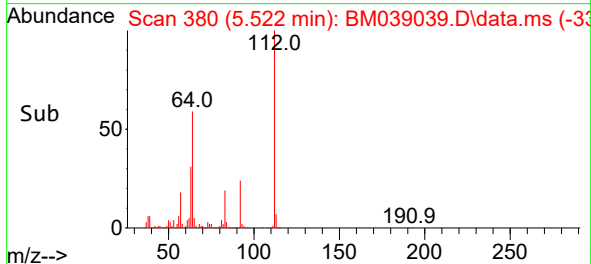
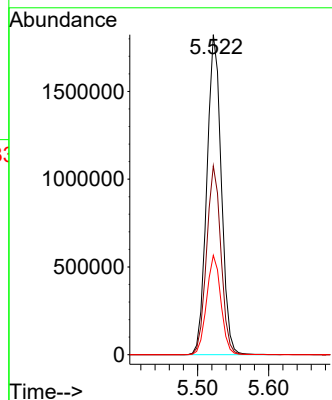
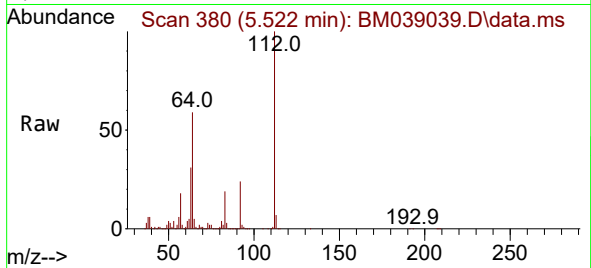




#5  
2-Fluorophenol  
Concen: 110.316 ng  
RT: 5.522 min Scan# 380  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

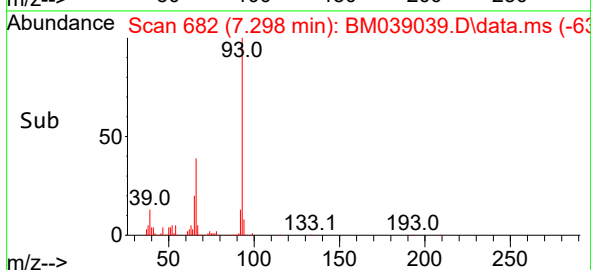
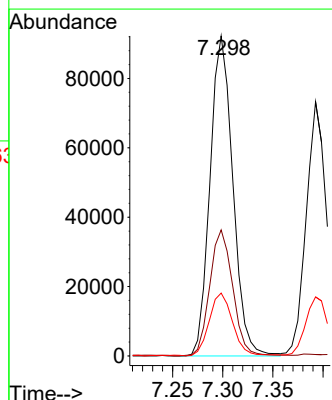
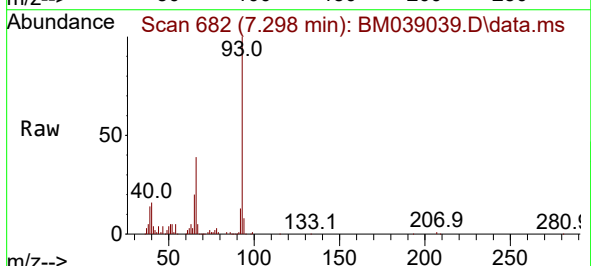
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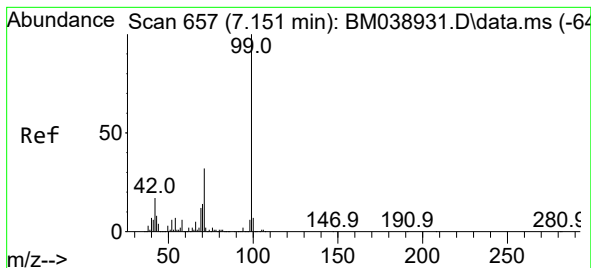
Tgt Ion:112 Resp: 2579866  
Ion Ratio Lower Upper  
112 100  
64 59.0 45.9 68.9  
63 31.1 23.8 35.8



#6  
Aniline  
Concen: 3.670 ng  
RT: 7.298 min Scan# 682  
Delta R.T. 0.000 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 93 Resp: 146358  
Ion Ratio Lower Upper  
93 100  
66 39.4 30.0 45.0  
65 19.7 15.8 23.6





#7

Phenol-d6

Concen: 112.293 ng

RT: 7.134 min Scan# 6

Delta R.T. 0.000 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

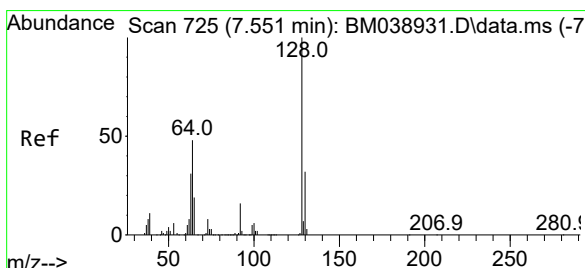
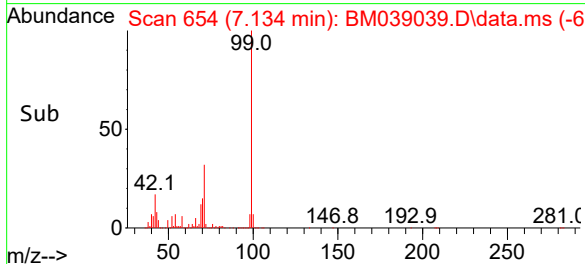
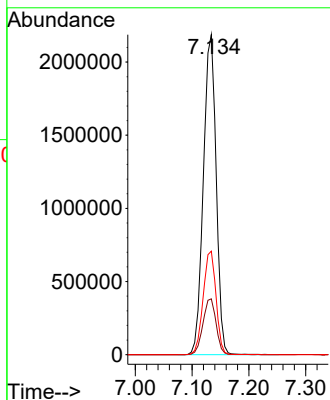
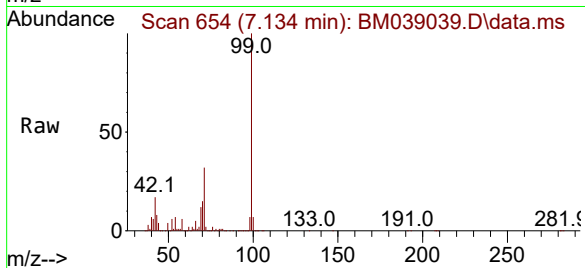
Tgt Ion: 99 Resp: 3411049

Ion Ratio Lower Upper

99 100

42 17.5 13.5 20.3

71 32.3 25.6 38.4



#8

2-Chlorophenol

Concen: 3.846 ng

RT: 7.534 min Scan# 722

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

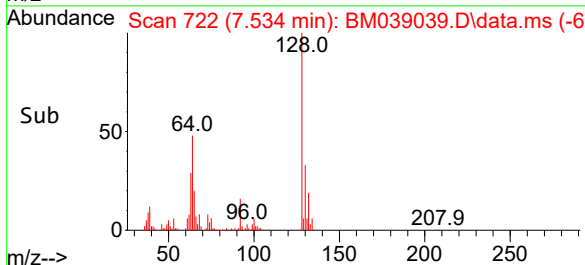
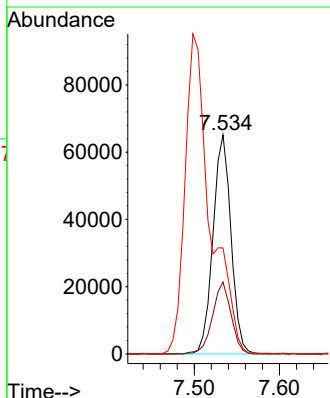
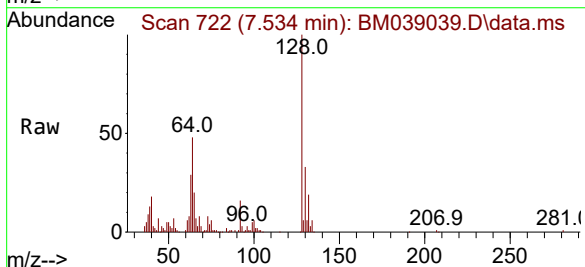
Tgt Ion:128 Resp: 95754

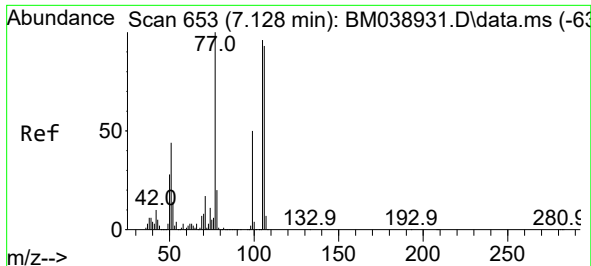
Ion Ratio Lower Upper

128 100

130 32.8 11.9 51.9

64 48.4 28.6 68.6

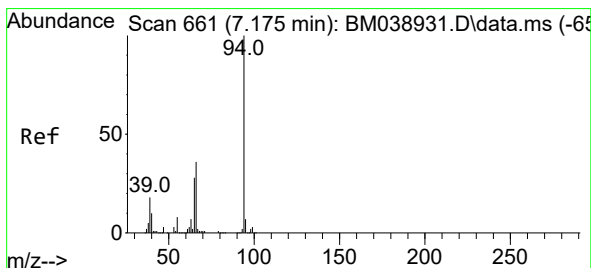
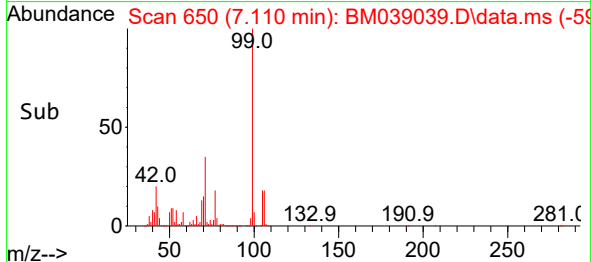
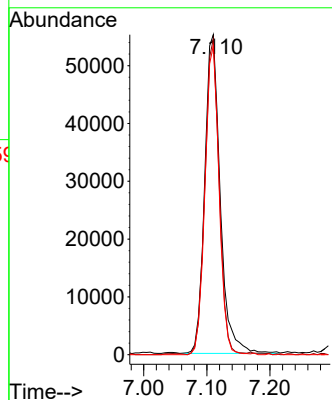
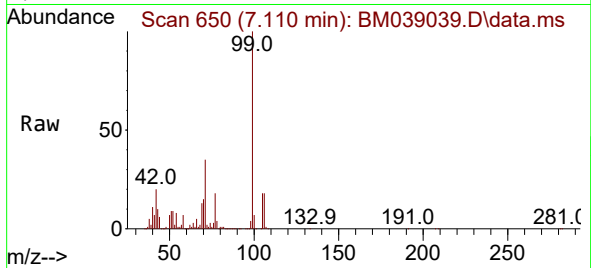




#9  
Benzaldehyde  
Concen: 6.534 ng  
RT: 7.110 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

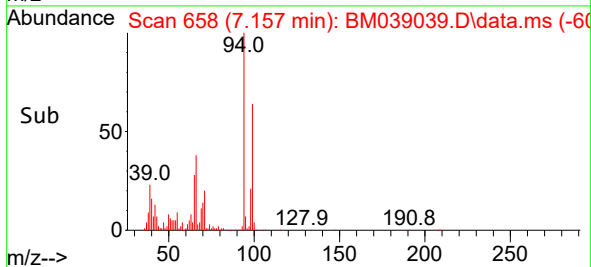
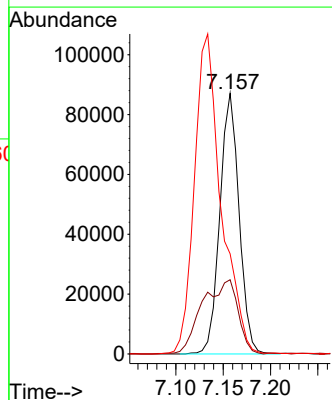
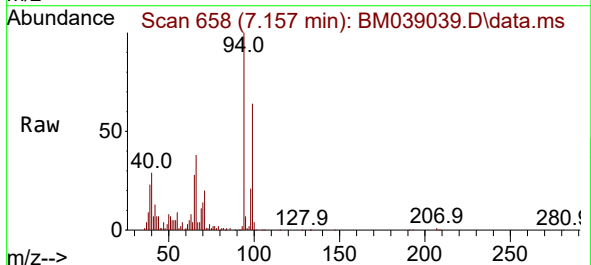
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

Tgt Ion: 77 Resp: 94443  
Ion Ratio Lower Upper  
77 100  
105 98.7 75.8 115.8  
106 96.6 72.6 112.6



#10  
Phenol  
Concen: 3.817 ng  
RT: 7.157 min Scan# 658  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 94 Resp: 123119  
Ion Ratio Lower Upper  
94 100  
65 28.5 7.9 47.9  
66 38.4 15.8 55.8

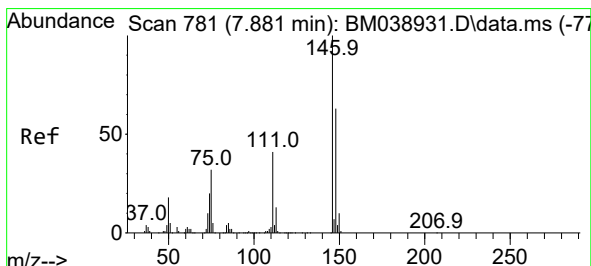
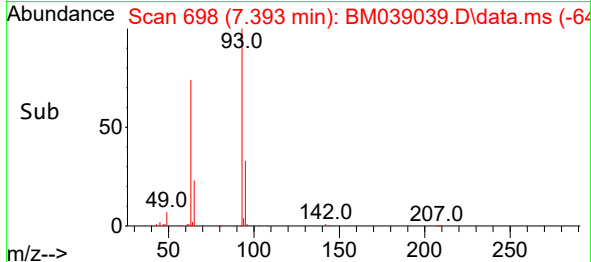
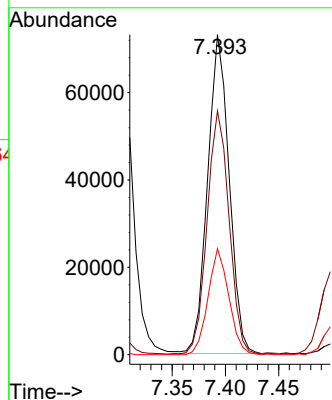
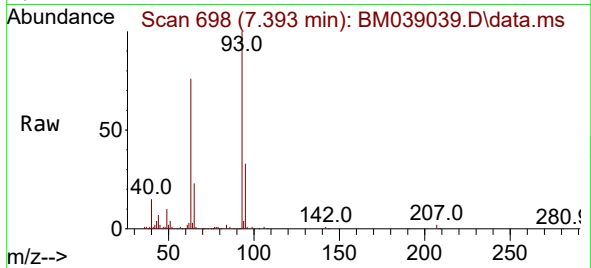




#11  
bis(2-Chloroethyl)ether  
Concen: 3.910 ng  
RT: 7.393 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

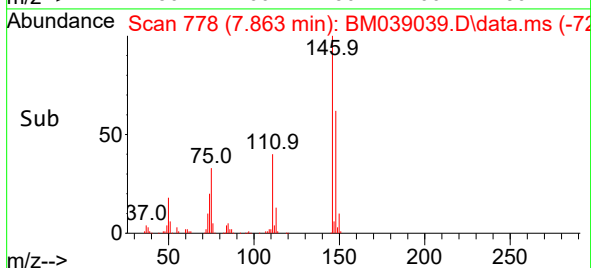
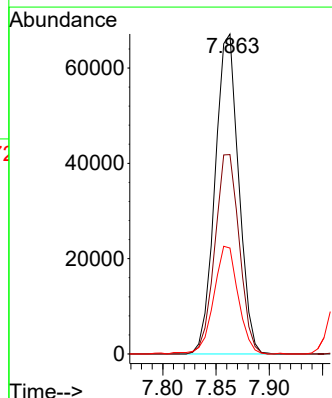
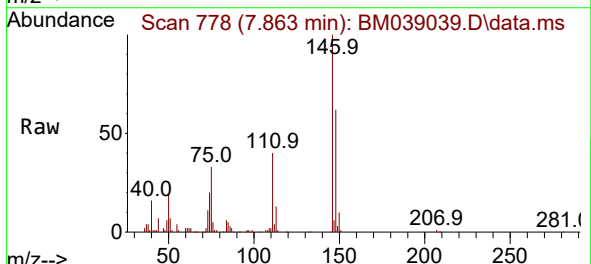
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

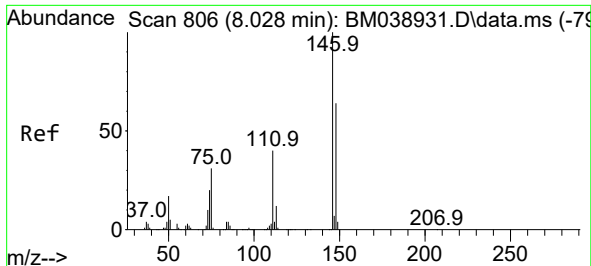
Tgt Ion: 93 Resp: 102553  
Ion Ratio Lower Upper  
93 100  
63 76.2 55.8 95.8  
95 33.1 12.2 52.2



#12  
1,3-Dichlorobenzene  
Concen: 3.904 ng  
RT: 7.863 min Scan# 778  
Delta R.T. 0.000 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 146 Resp: 103297  
Ion Ratio Lower Upper  
146 100  
148 62.3 50.6 75.8  
75 33.1 26.0 39.0

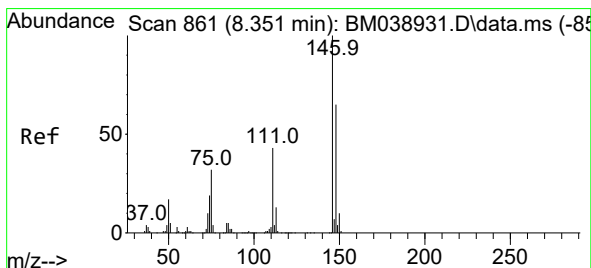
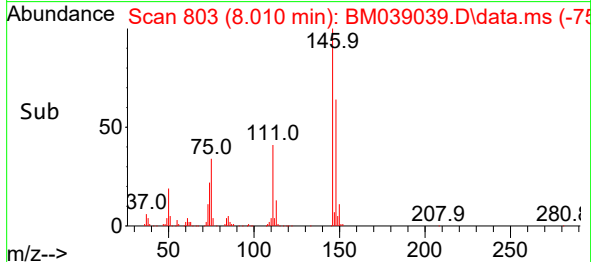
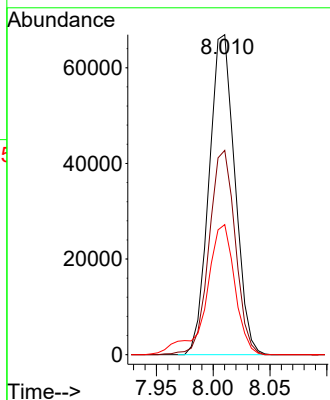
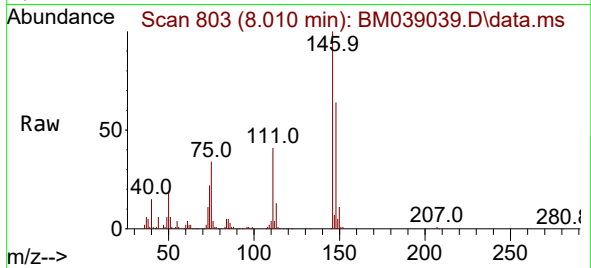




#13  
1,4-Dichlorobenzene  
Concen: 3.928 ng  
RT: 8.010 min Scan# 806  
Delta R.T. 0.000 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

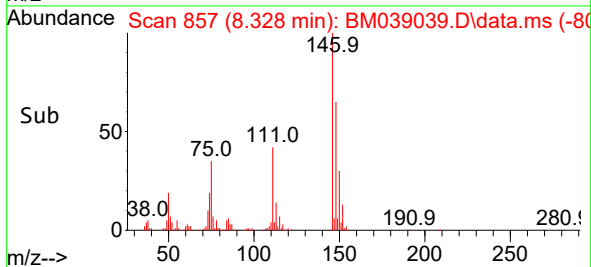
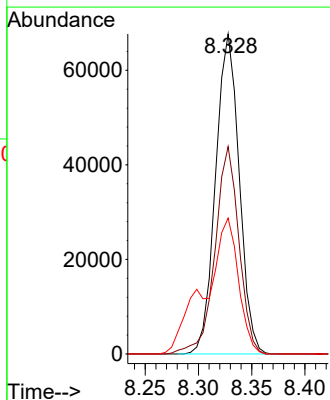
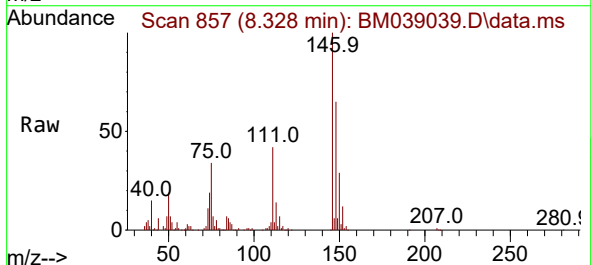
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

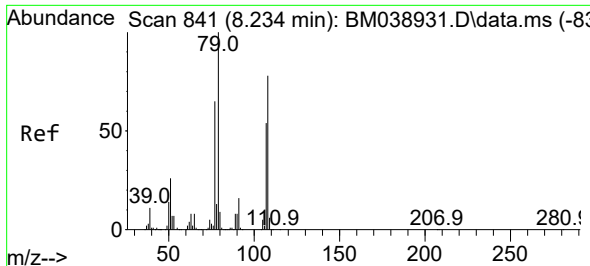
Tgt Ion:146 Resp: 105714  
Ion Ratio Lower Upper  
146 100  
148 63.9 51.0 76.4  
111 40.7 32.2 48.4



#14  
1,2-Dichlorobenzene  
Concen: 4.018 ng  
RT: 8.328 min Scan# 857  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:146 Resp: 104156  
Ion Ratio Lower Upper  
146 100  
148 64.8 51.7 77.5  
111 42.4 34.2 51.4

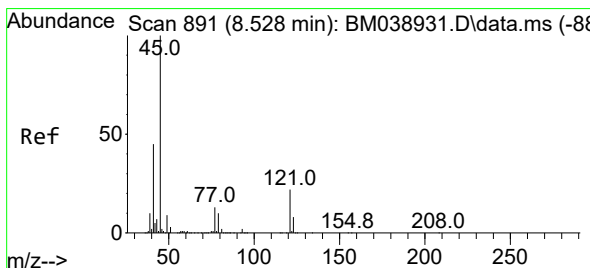
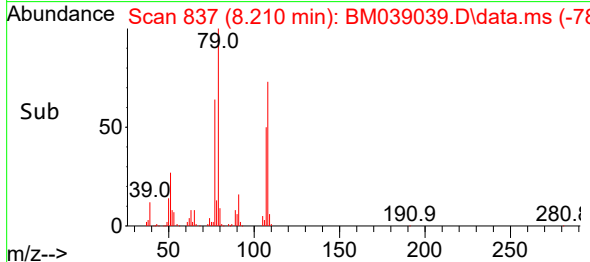
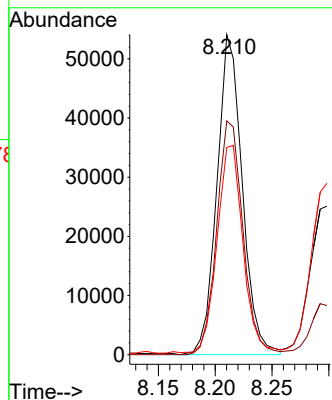
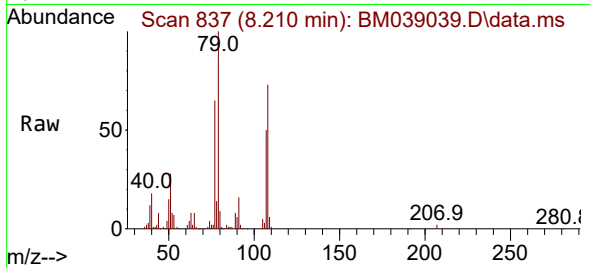




#15  
Benzyl Alcohol  
Concen: 3.855 ng  
RT: 8.210 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

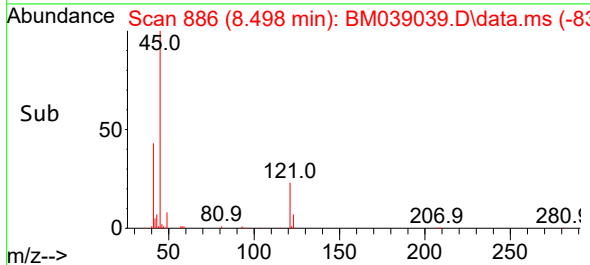
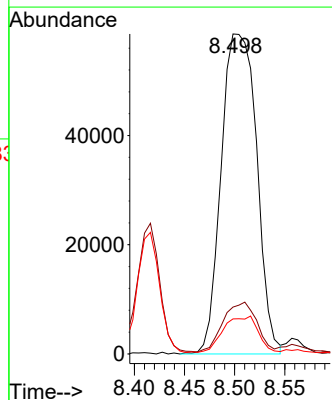
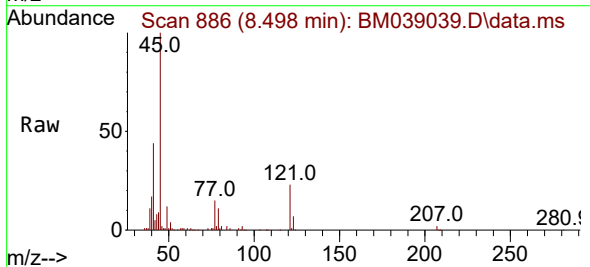
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

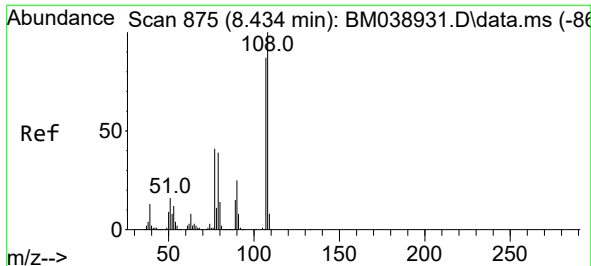
Tgt Ion: 79 Resp: 83935  
Ion Ratio Lower Upper  
79 100  
108 73.1 62.4 93.6  
77 64.7 52.2 78.4



#16  
2,2'-oxybis(1-chloropropane)  
Concen: 4.356 ng  
RT: 8.498 min Scan# 886  
Delta R.T. -0.012 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 45 Resp: 144290  
Ion Ratio Lower Upper  
45 100  
77 14.6 0.0 34.8  
79 11.0 0.0 31.5

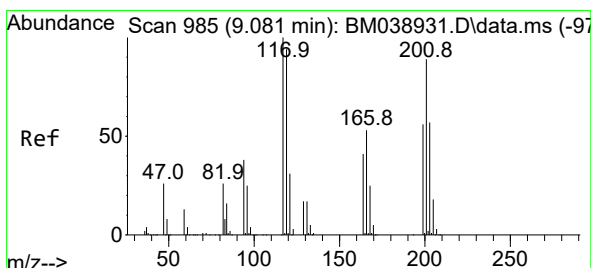
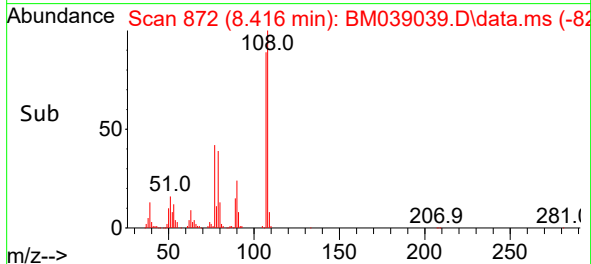
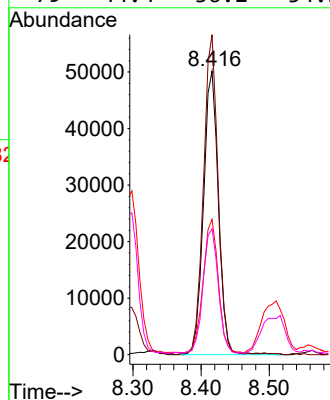
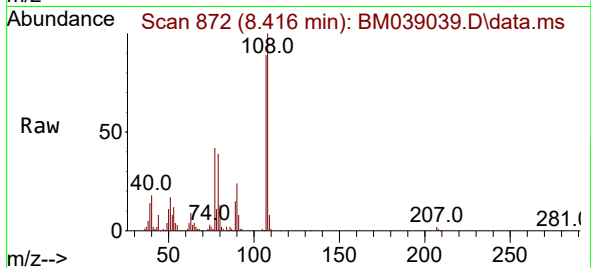




#17  
2-Methylphenol  
Concen: 3.441 ng  
RT: 8.416 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

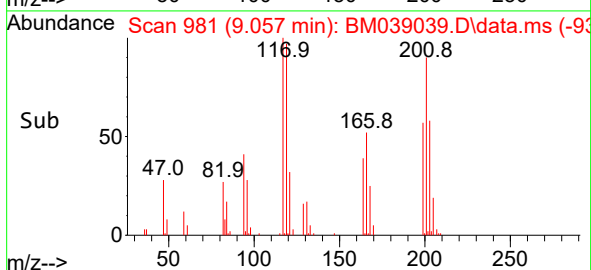
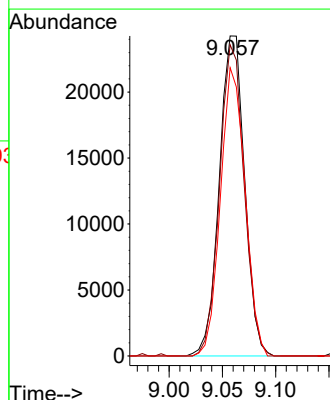
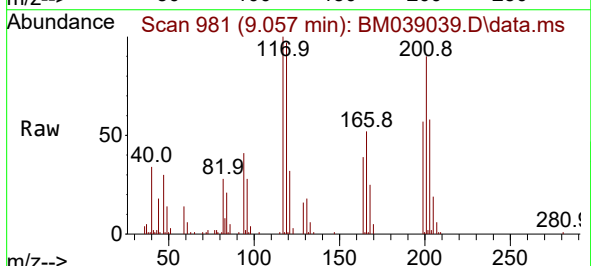
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

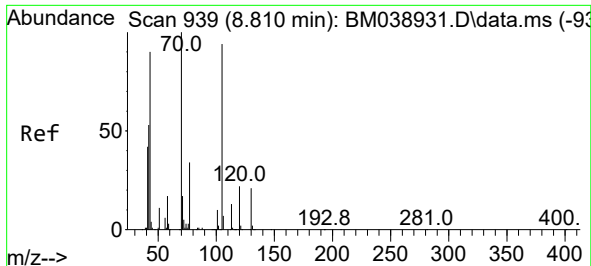
Tgt Ion:107 Resp: 76250  
Ion Ratio Lower Upper  
107 100  
108 112.8 91.7 137.5  
77 47.7 37.4 56.2  
79 44.4 36.2 54.2



#18  
Hexachloroethane  
Concen: 4.037 ng  
RT: 9.057 min Scan# 981  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:117 Resp: 40086  
Ion Ratio Lower Upper  
117 100  
119 97.2 75.4 113.0  
201 92.2 71.3 106.9

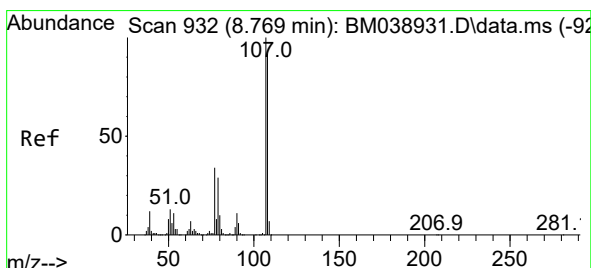
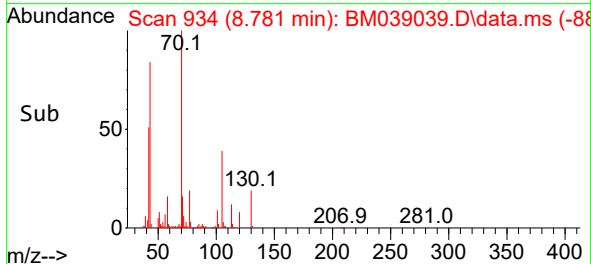
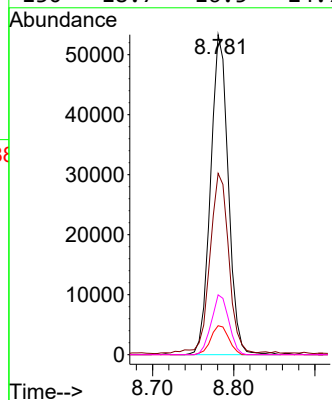
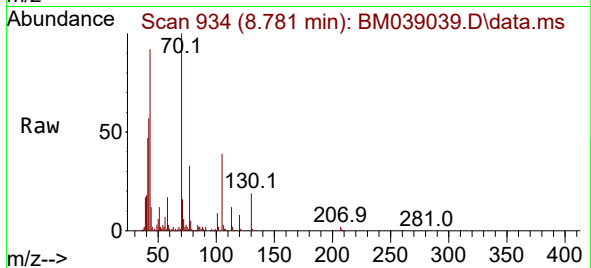




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.224 ng  
RT: 8.781 min Scan# 913  
Delta R.T. -0.012 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

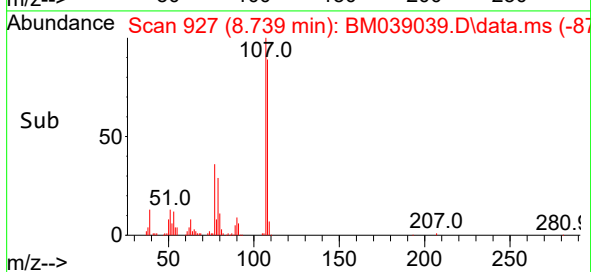
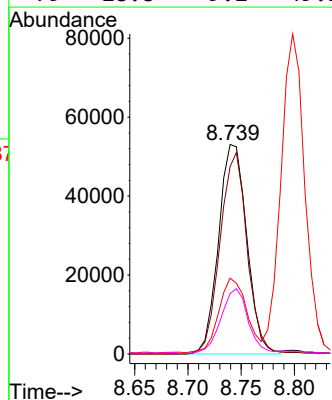
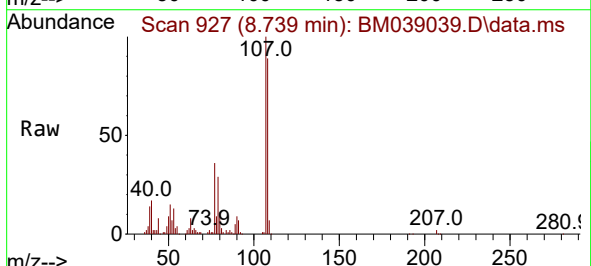
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

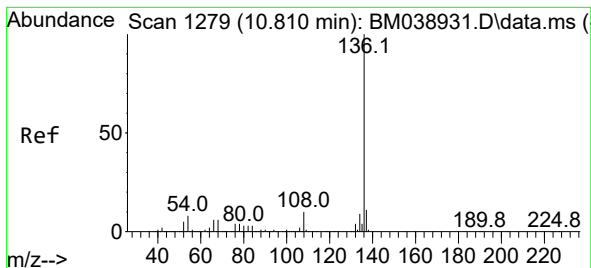
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 80813 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 56.6  | 43.4  | 65.2  |
| 101      | 9.1   | 7.6   | 11.4  |
| 130      | 18.7  | 16.5  | 24.7  |



#20  
3+4-Methylphenols  
Concen: 3.302 ng  
RT: 8.739 min Scan# 927  
Delta R.T. -0.012 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 97697 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 89.5  | 71.8  | 111.8 |
| 77       | 36.2  | 13.6  | 53.6  |
| 79       | 28.8  | 9.2   | 49.2  |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.786 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

Tgt Ion:136 Resp: 1466860

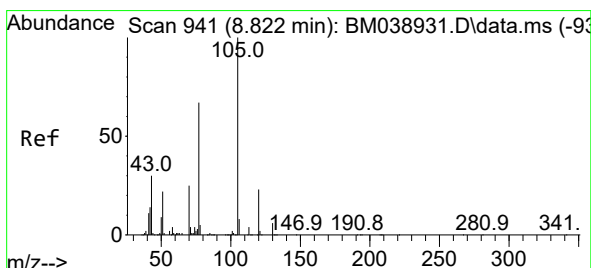
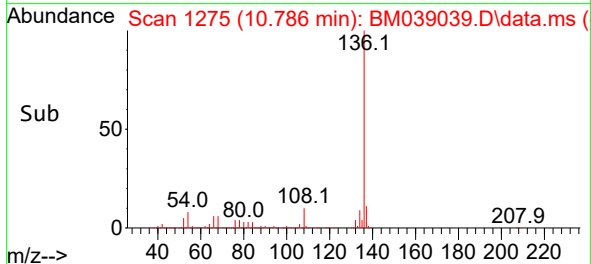
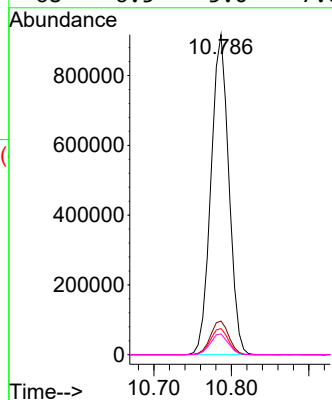
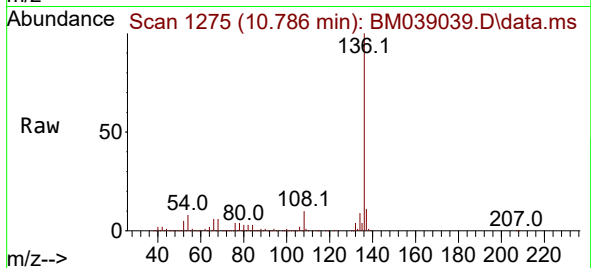
Ion Ratio Lower Upper

136 100

137 10.5 8.7 13.1

54 8.1 6.3 9.5

68 6.5 5.0 7.6



#22

Acetophenone

Concen: 3.859 ng

RT: 8.798 min Scan# 937

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Tgt Ion:105 Resp: 158820

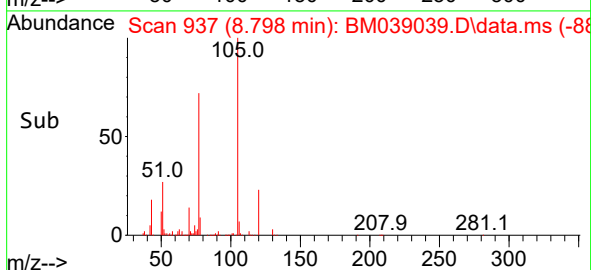
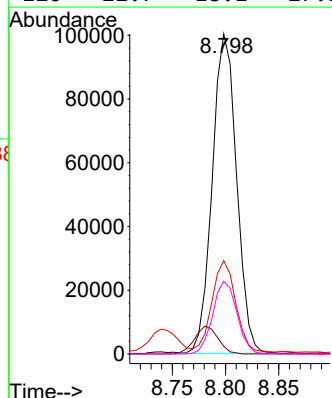
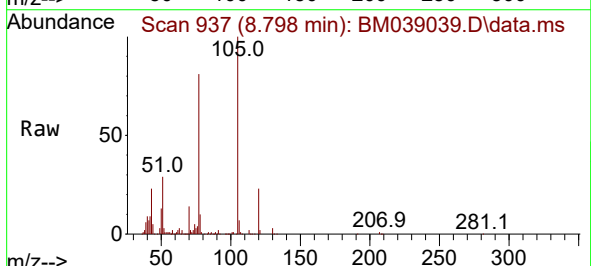
Ion Ratio Lower Upper

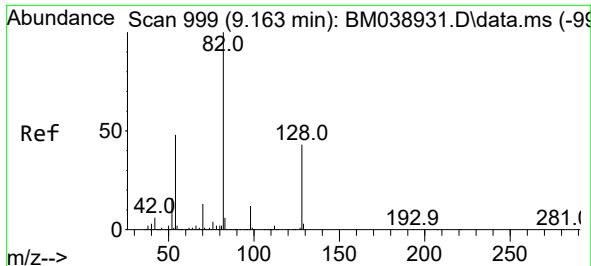
105 100

71 2.5 3.4 5.0#

51 29.1 21.0 31.4

120 22.7 18.1 27.1

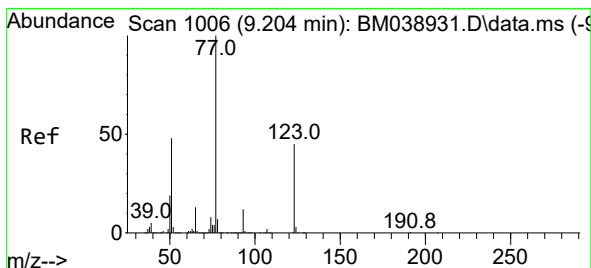
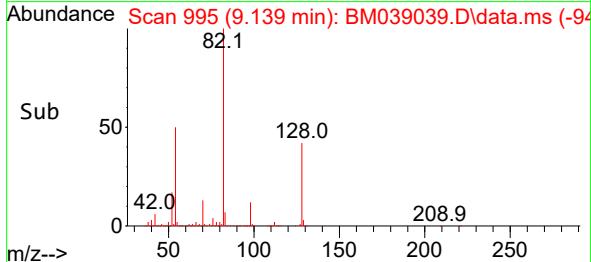
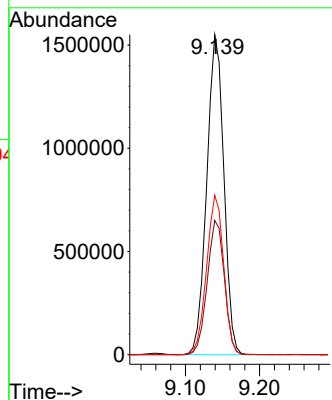
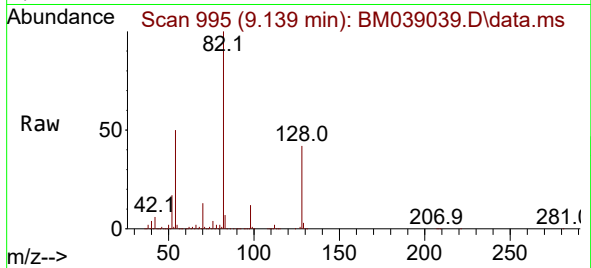




#23  
Nitrobenzene-d5  
Concen: 83.108 ng  
RT: 9.139 min Scan# 995  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

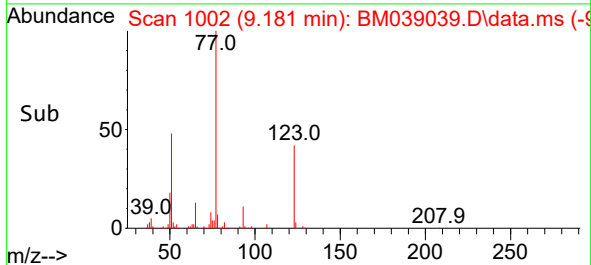
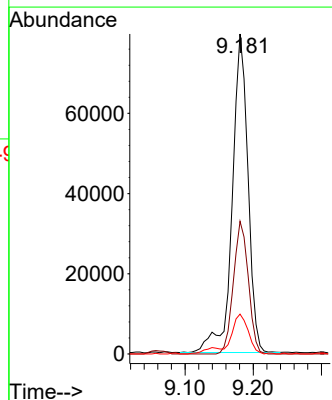
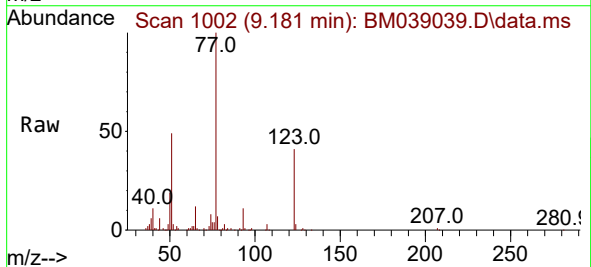
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

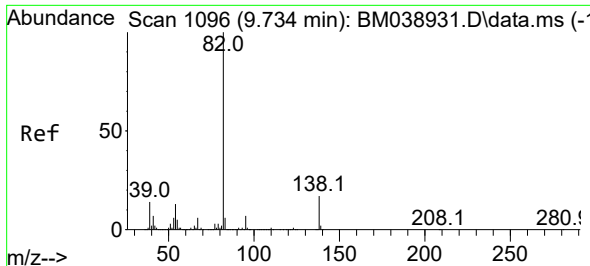
Tgt Ion: 82 Resp: 2481794  
Ion Ratio Lower Upper  
82 100  
128 42.0 34.4 51.6  
54 49.8 38.8 58.2



#24  
Nitrobenzene  
Concen: 4.078 ng  
RT: 9.181 min Scan# 1002  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 77 Resp: 128006  
Ion Ratio Lower Upper  
77 100  
123 41.5 35.8 53.6  
65 12.5 10.2 15.4

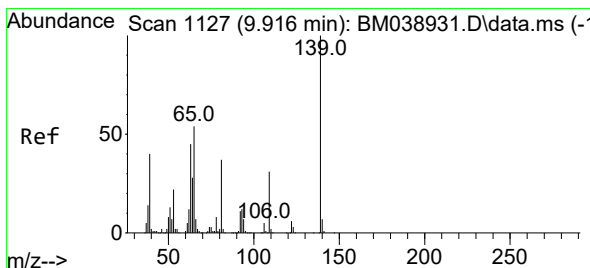
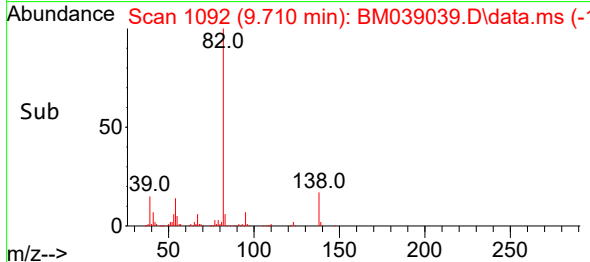
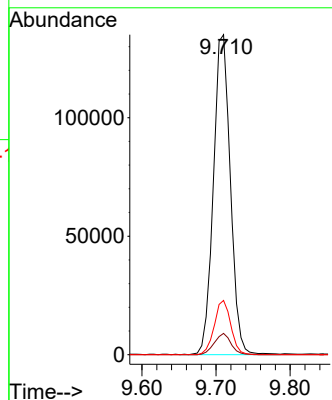
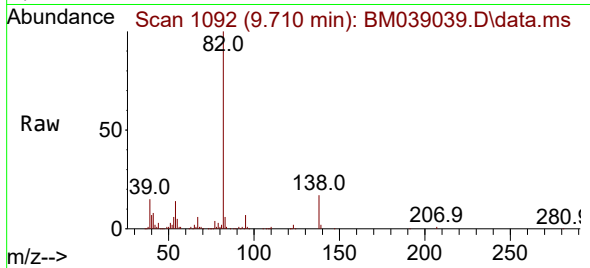




#25  
Isophorone  
Concen: 3.914 ng  
RT: 9.710 min Scan# 1096  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

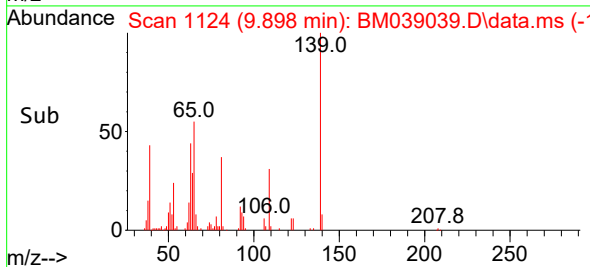
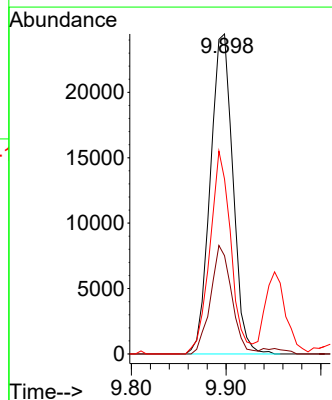
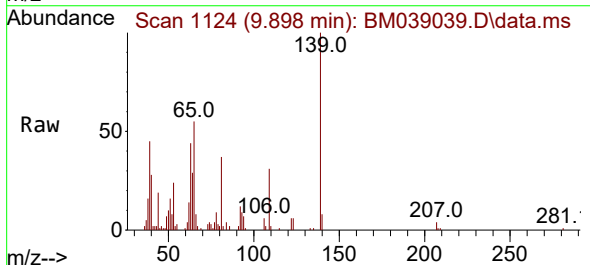
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

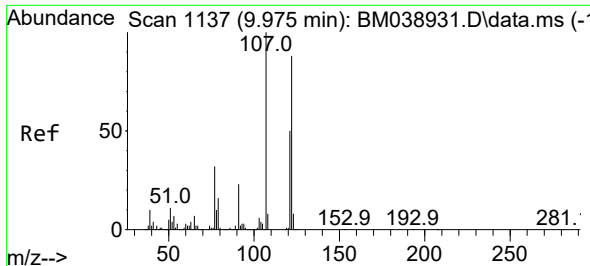
Tgt Ion: 82 Resp: 215073  
Ion Ratio Lower Upper  
82 100  
95 6.6 5.2 7.8  
138 16.9 13.6 20.4



#26  
2-Nitrophenol  
Concen: 5.731 ng  
RT: 9.898 min Scan# 1124  
Delta R.T. 0.000 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 139 Resp: 40506  
Ion Ratio Lower Upper  
139 100  
109 30.7 24.5 36.7  
65 54.6 43.0 64.6

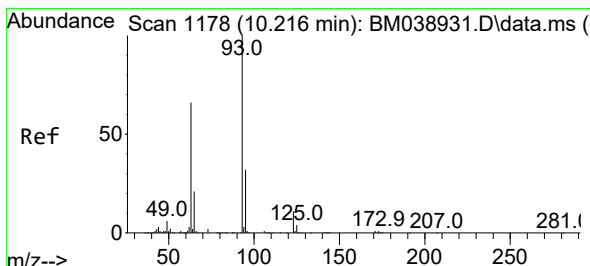
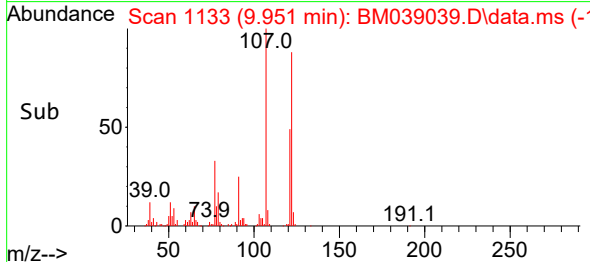
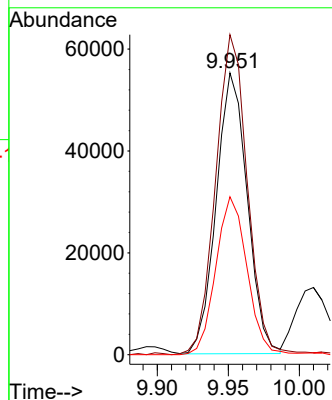
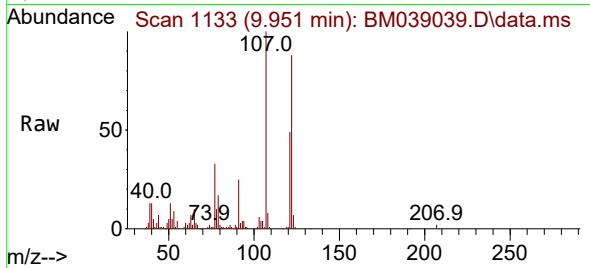




#27  
2,4-Dimethylphenol  
Concen: 3.502 ng  
RT: 9.951 min Scan# 1133  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

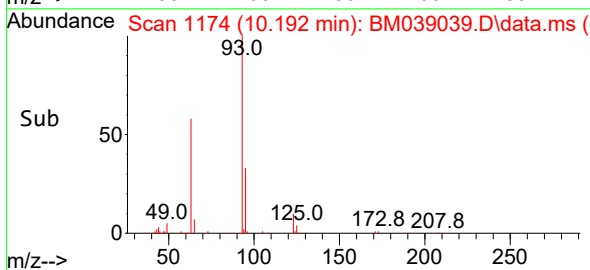
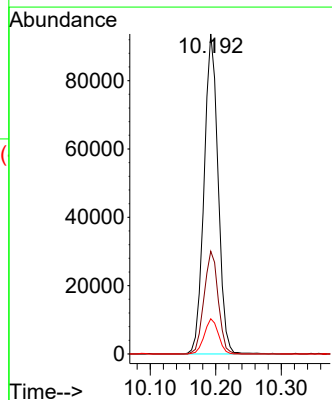
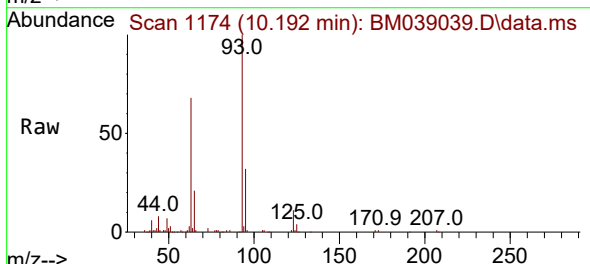
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

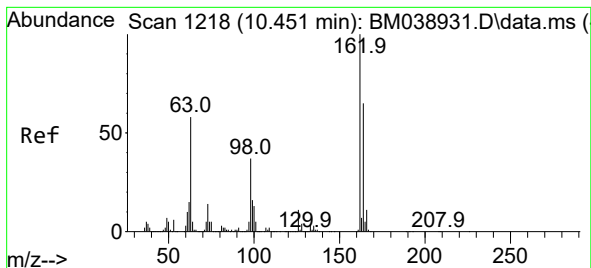
Tgt Ion:122 Resp: 83858  
Ion Ratio Lower Upper  
122 100  
107 113.6 91.0 136.4  
121 56.0 45.1 67.7



#28  
bis(2-Chloroethoxy)methane  
Concen: 3.950 ng  
RT: 10.192 min Scan# 1174  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 93 Resp: 139471  
Ion Ratio Lower Upper  
93 100  
95 32.1 25.9 38.9  
123 11.0 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 3.291 ng

RT: 10.428 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

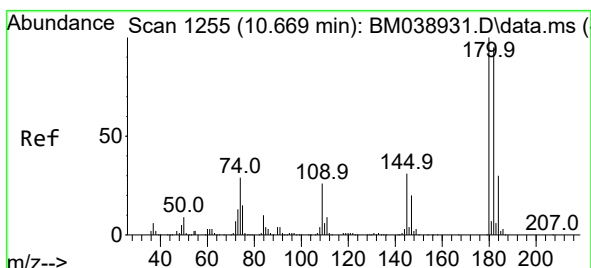
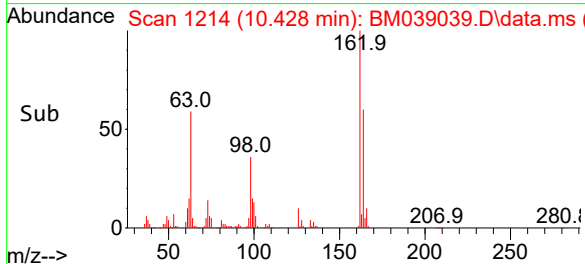
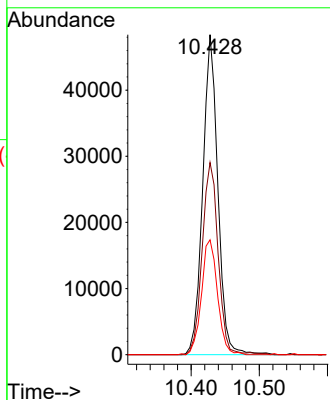
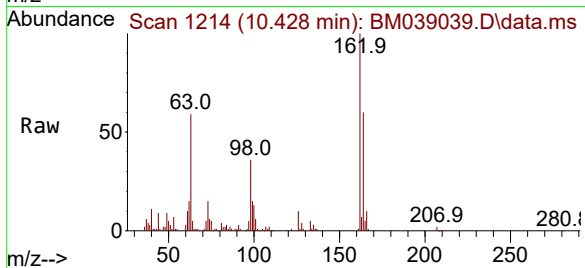
Tgt Ion:162 Resp: 74720

Ion Ratio Lower Upper

162 100

164 60.1 44.6 84.6

98 35.9 17.5 57.5



#30

1,2,4-Trichlorobenzene

Concen: 3.676 ng

RT: 10.645 min Scan# 1251

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

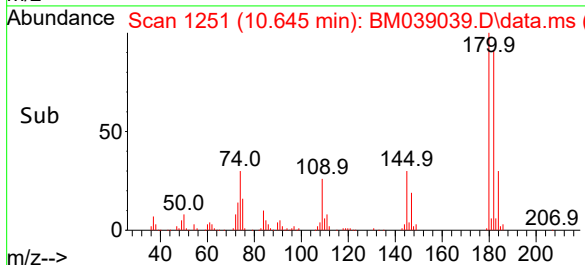
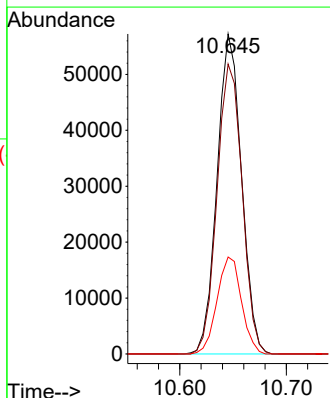
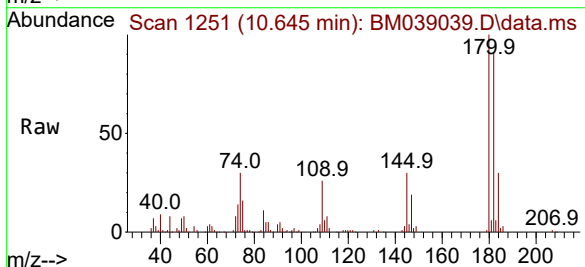
Tgt Ion:180 Resp: 91193

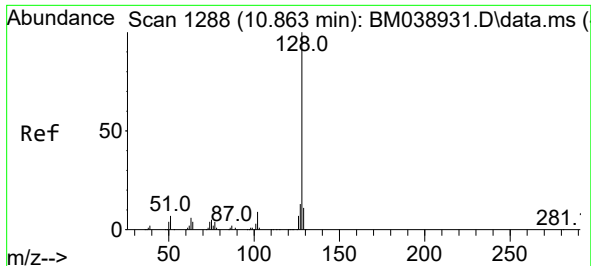
Ion Ratio Lower Upper

180 100

182 90.6 76.3 114.5

145 30.3 25.0 37.4

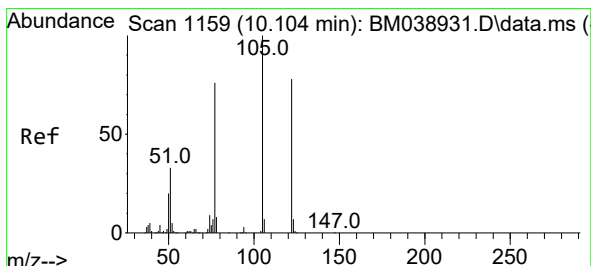
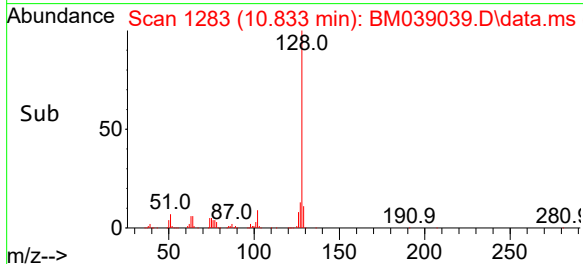
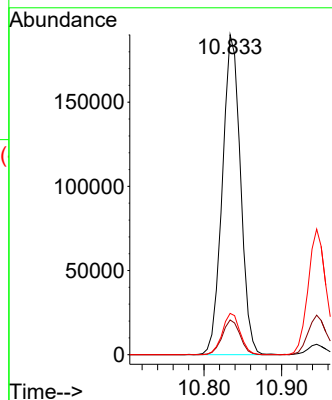
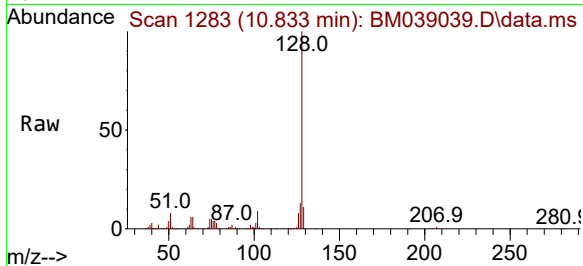




#31  
Naphthalene  
Concen: 3.699 ng  
RT: 10.833 min Scan# 1143  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

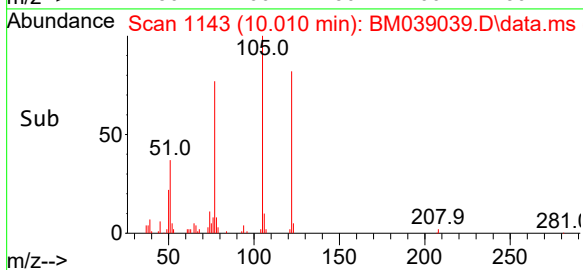
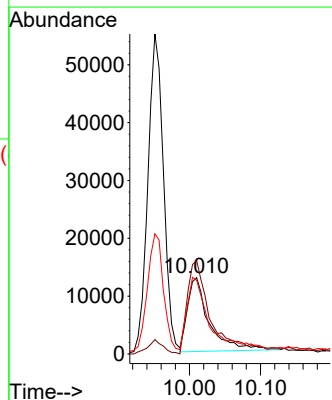
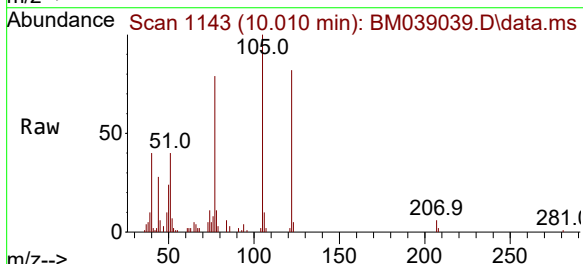
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

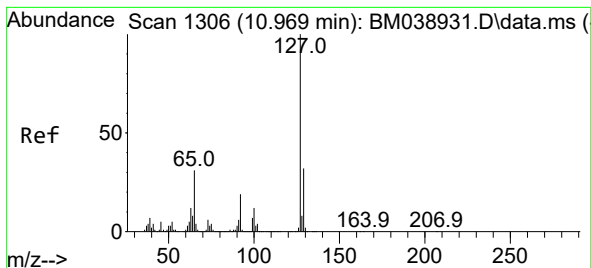
Tgt Ion:128 Resp: 309414  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.6 13.0  
127 12.9 10.2 15.4



#32  
Benzoic acid  
Concen: 7.092 ng  
RT: 10.010 min Scan# 1143  
Delta R.T. -0.088 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:122 Resp: 27118  
Ion Ratio Lower Upper  
122 100  
105 122.4 104.2 144.2  
77 96.3 75.1 115.1





#33

4-Chloroaniline

Concen: 3.480 ng

RT: 10.945 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

Tgt Ion:127 Resp: 124037

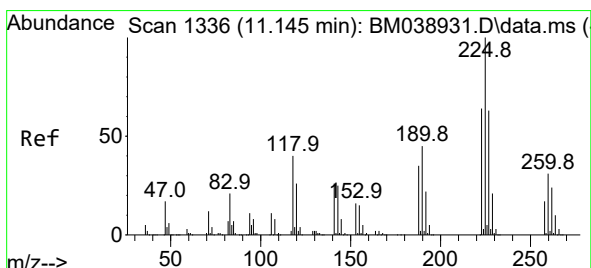
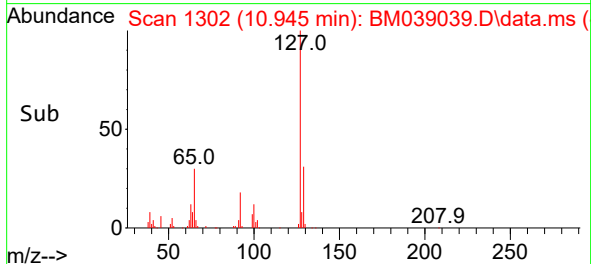
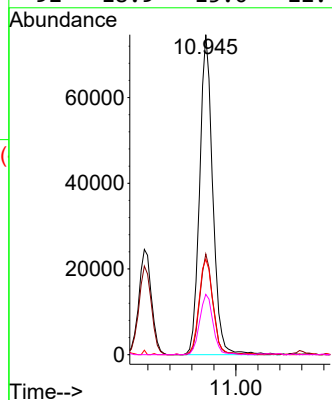
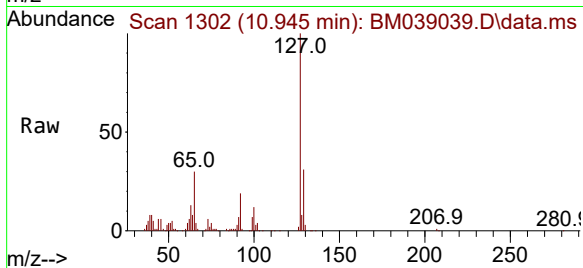
Ion Ratio Lower Upper

127 100

129 31.5 25.4 38.2

65 29.8 24.4 36.6

92 18.9 15.0 22.4



#34

Hexachlorobutadiene

Concen: 3.473 ng

RT: 11.122 min Scan# 1332

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

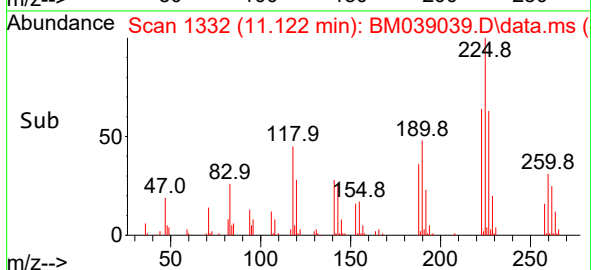
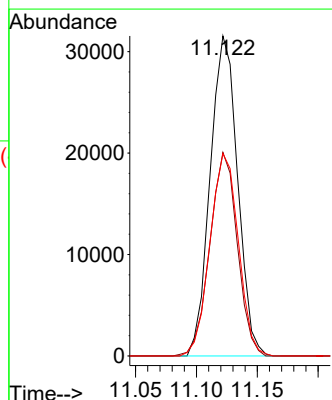
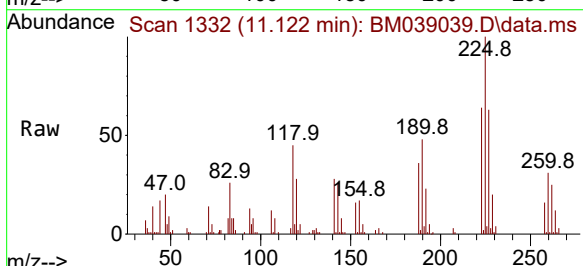
Tgt Ion:225 Resp: 49413

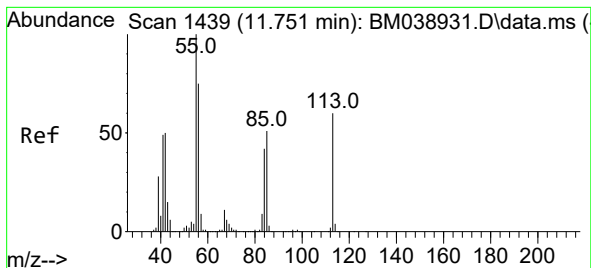
Ion Ratio Lower Upper

225 100

223 61.0 51.3 76.9

227 60.7 50.6 76.0





#35

Caprolactam

Concen: 3.434 ng

RT: 11.710 min Scan# 1439

Delta R.T. -0.029 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

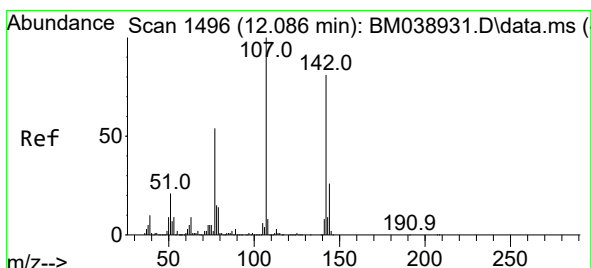
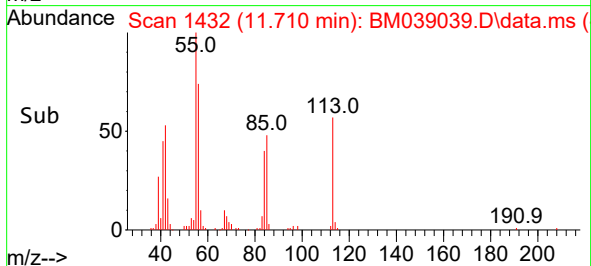
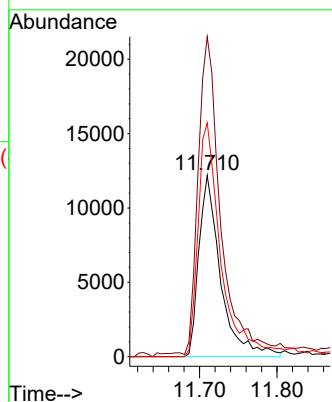
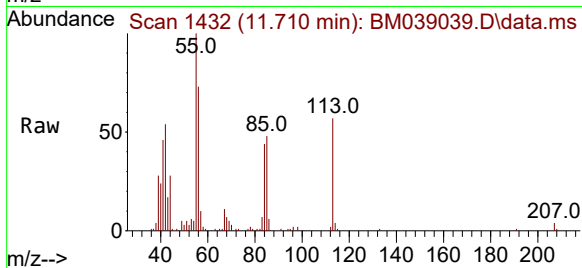
Tgt Ion:113 Resp: 23727

Ion Ratio Lower Upper

113 100

55 176.5 147.0 187.0

56 128.9 105.1 145.1



#36

4-Chloro-3-methylphenol

Concen: 3.549 ng

RT: 12.063 min Scan# 1492

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

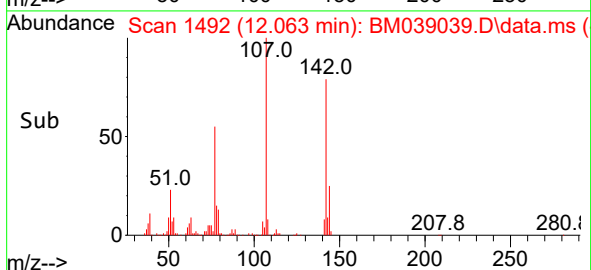
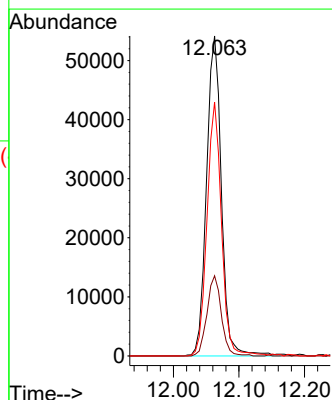
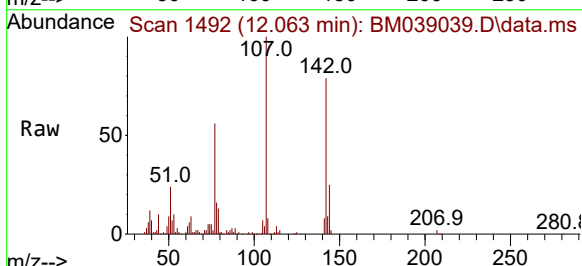
Tgt Ion:107 Resp: 85779

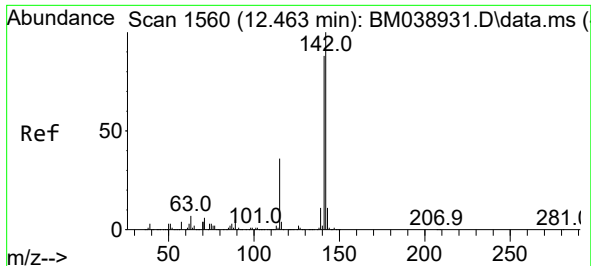
Ion Ratio Lower Upper

107 100

144 25.0 20.7 31.1

142 79.4 64.6 97.0





#37

2-Methylnaphthalene

Concen: 3.659 ng

RT: 12.445 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

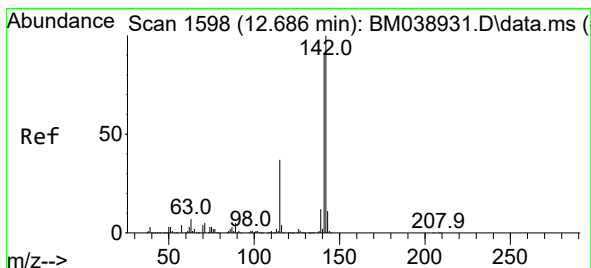
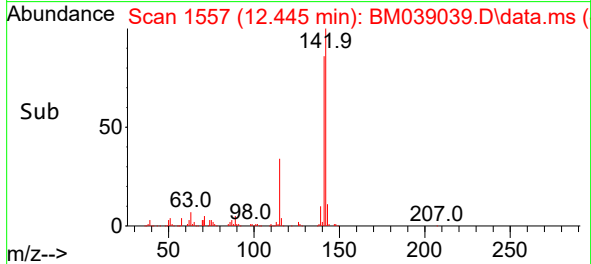
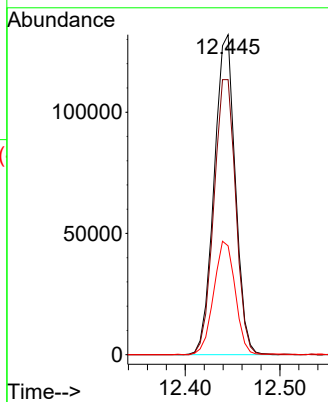
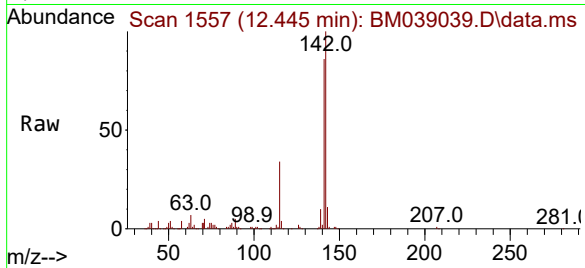
Tgt Ion:142 Resp: 205123

Ion Ratio Lower Upper

142 100

141 85.9 70.6 106.0

115 34.0 28.5 42.7



#38

1-Methylnaphthalene

Concen: 3.714 ng

RT: 12.663 min Scan# 1594

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

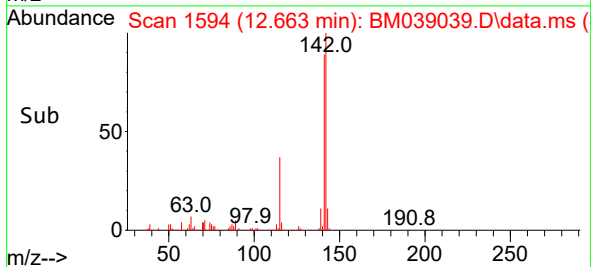
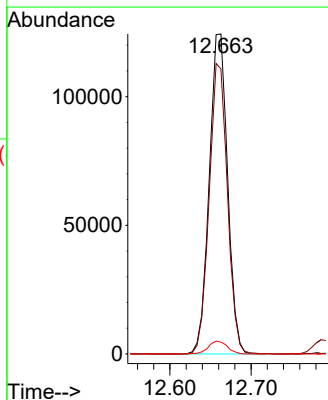
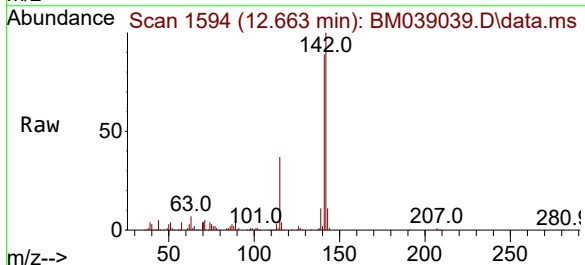
Tgt Ion:142 Resp: 195132

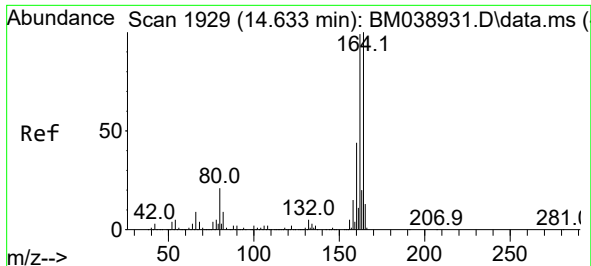
Ion Ratio Lower Upper

142 100

141 89.1 72.8 109.2

116 3.7 3.0 4.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.610 min Scan# 1619

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

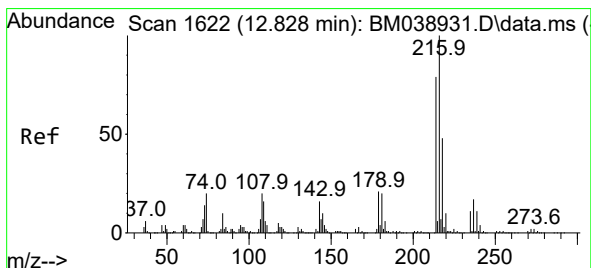
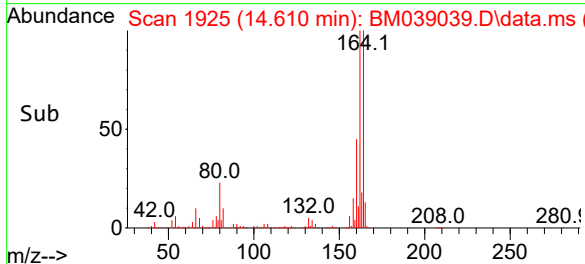
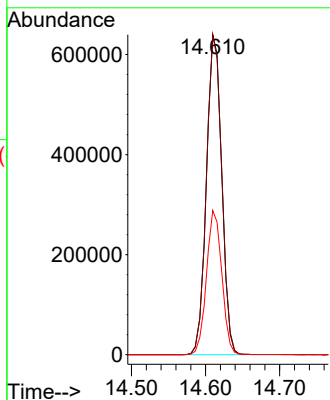
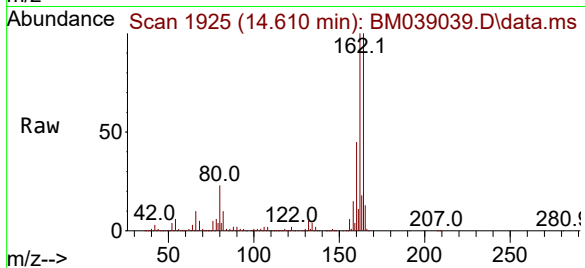
Tgt Ion:164 Resp: 916518

Ion Ratio Lower Upper

164 100

162 100.1 79.2 118.8

160 45.1 35.5 53.3



#40

1,2,4,5-Tetrachlorobenzene

Concen: 3.317 ng

RT: 12.810 min Scan# 1619

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Tgt Ion:216 Resp: 98846

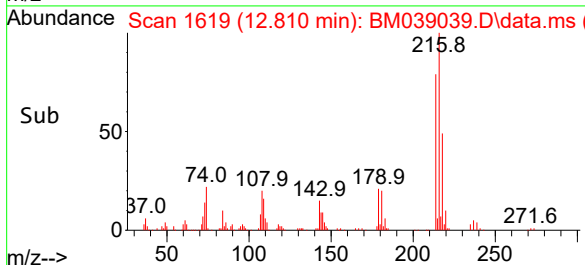
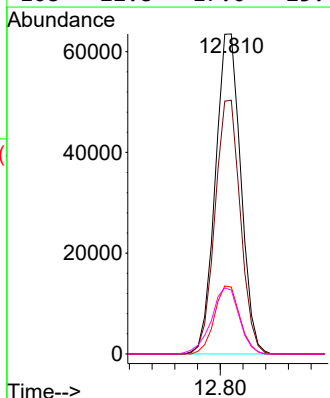
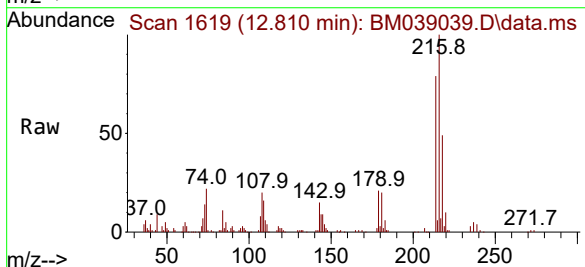
Ion Ratio Lower Upper

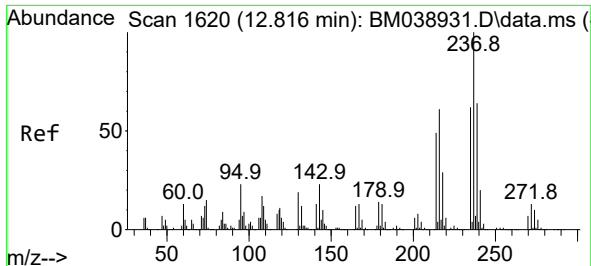
216 100

214 79.0 63.0 94.4

179 21.1 16.8 25.2

108 22.8 17.0 25.4

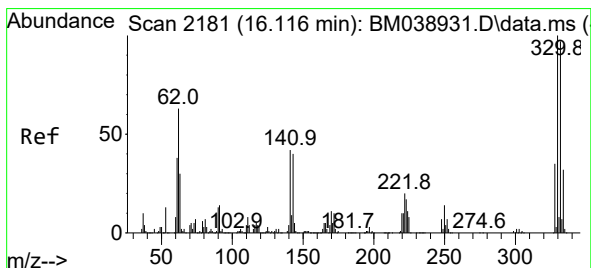
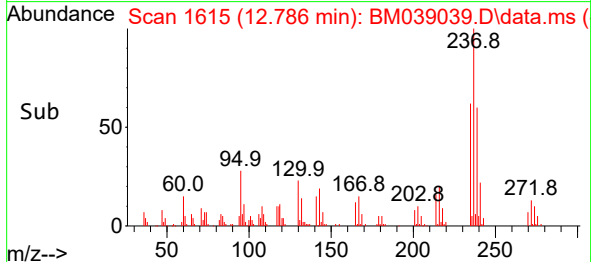
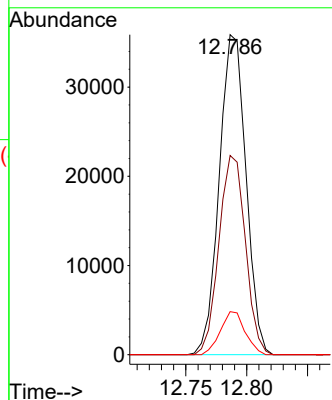
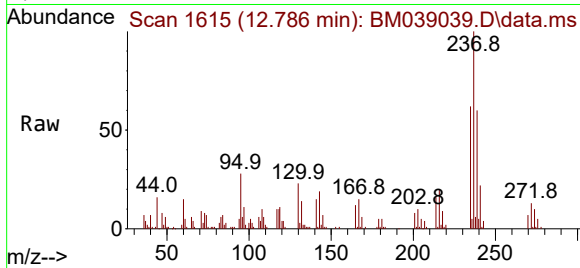




#41  
Hexachlorocyclopentadiene  
Concen: 3.353 ng  
RT: 12.786 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

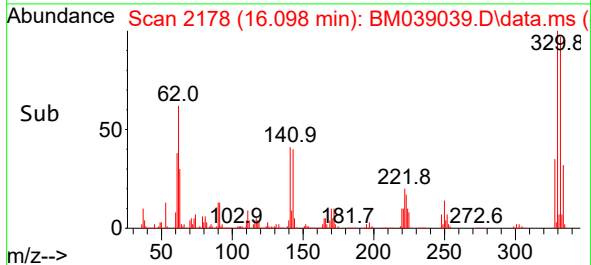
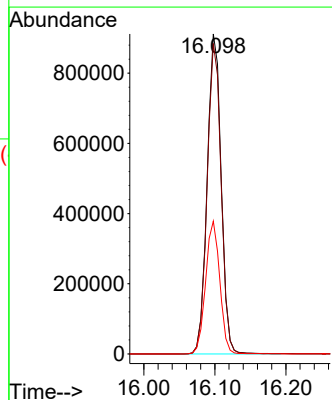
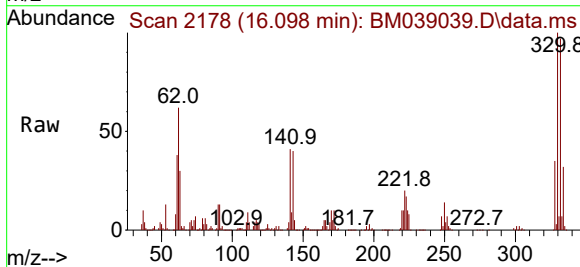
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

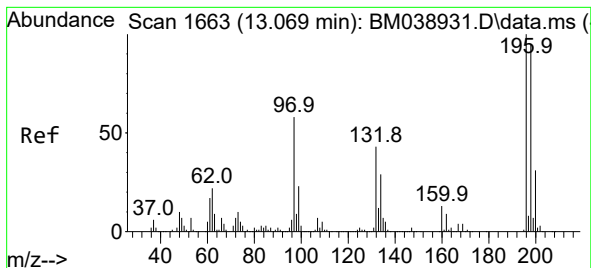
Tgt Ion:237 Resp: 54836  
Ion Ratio Lower Upper  
237 100  
235 62.2 41.7 81.7  
272 13.4 0.0 33.2



#42  
2,4,6-Tribromophenol  
Concen: 117.881 ng  
RT: 16.098 min Scan# 2178  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:330 Resp: 1249848  
Ion Ratio Lower Upper  
330 100  
332 97.0 77.4 116.0  
141 42.2 32.2 48.4





#43

2,4,6-Trichlorophenol

Concen: 2.938 ng

RT: 13.045 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

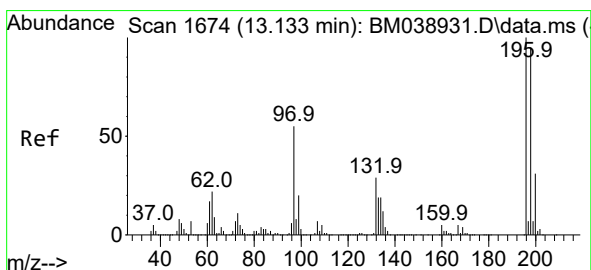
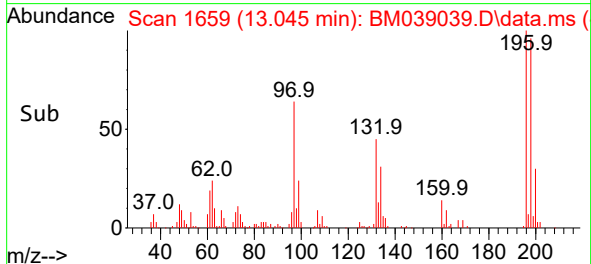
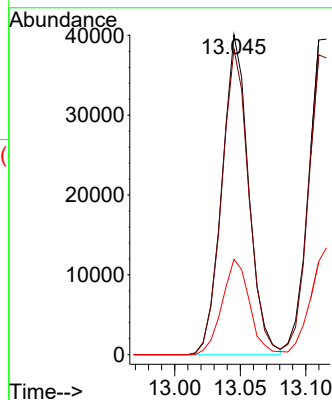
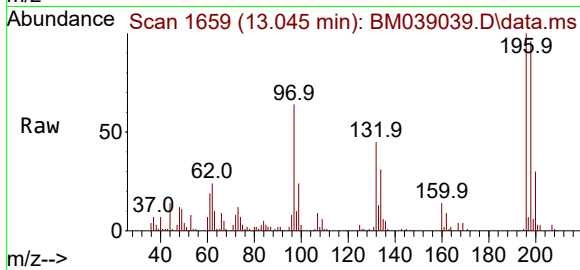
Tgt Ion:196 Resp: 56679

Ion Ratio Lower Upper

196 100

198 95.5 75.8 113.8

200 29.8 25.0 37.4



#44

2,4,5-Trichlorophenol

Concen: 2.842 ng

RT: 13.116 min Scan# 1671

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Tgt Ion:196 Resp: 64193

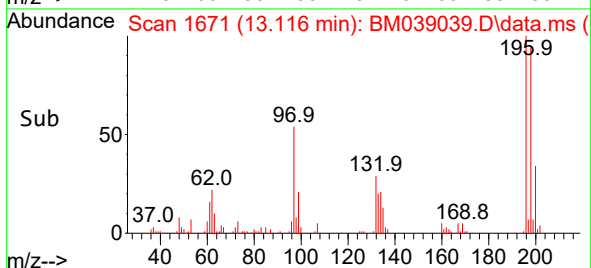
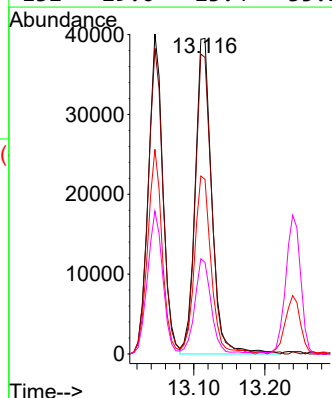
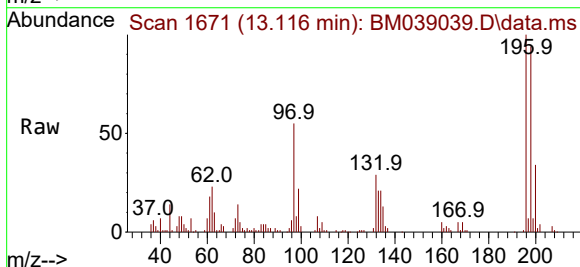
Ion Ratio Lower Upper

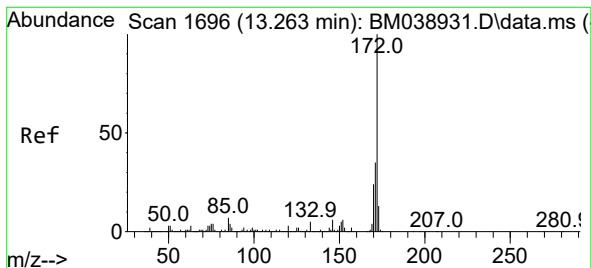
196 100

198 94.0 76.3 114.5

97 55.3 44.2 66.4

132 29.0 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 76.228 ng

RT: 13.239 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

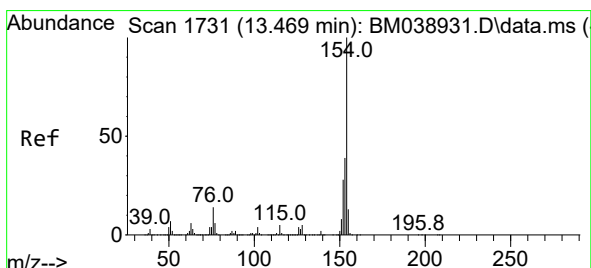
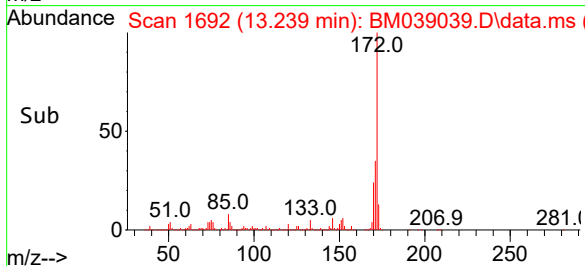
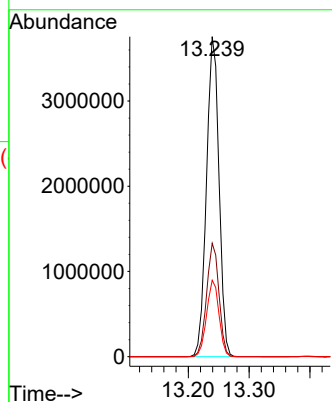
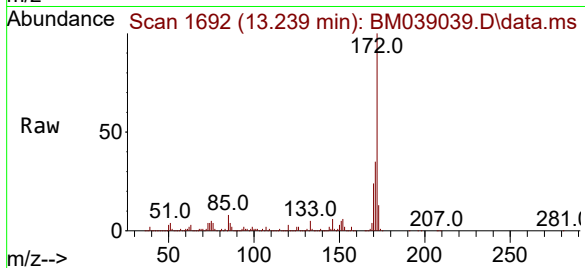
Tgt Ion:172 Resp: 5366790

Ion Ratio Lower Upper

172 100

171 35.4 28.2 42.2

170 23.9 19.1 28.7



#46

1,1'-Biphenyl

Concen: 3.808 ng

RT: 13.451 min Scan# 1728

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

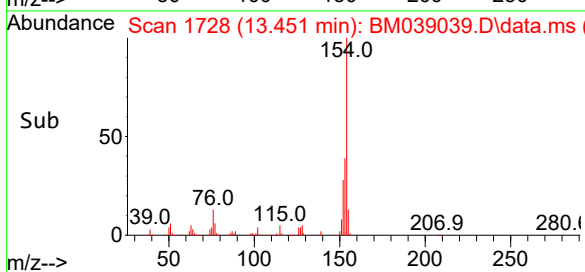
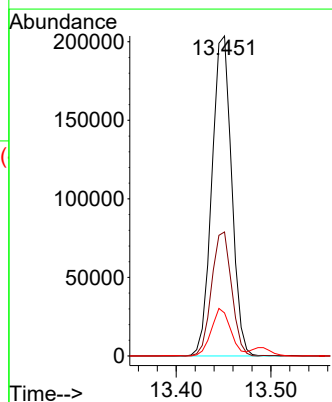
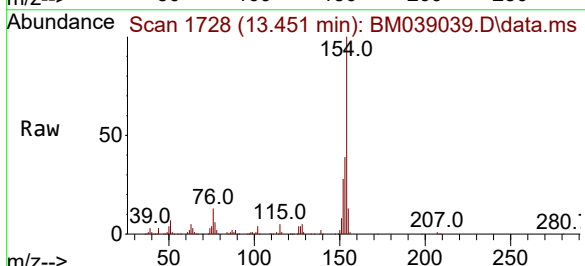
Tgt Ion:154 Resp: 295647

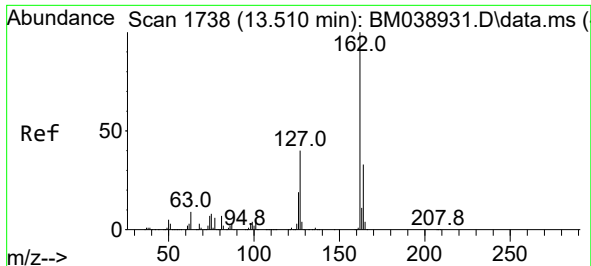
Ion Ratio Lower Upper

154 100

153 38.7 19.3 59.3

76 13.5 0.0 34.0





#47

2-Chloronaphthalene

Concen: 3.602 ng

RT: 13.492 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

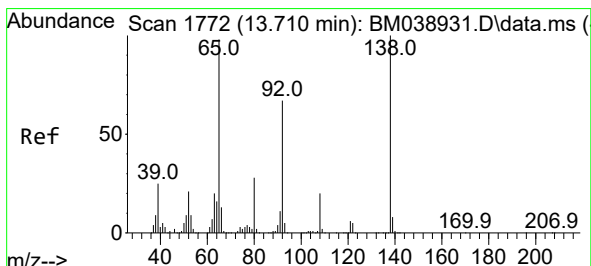
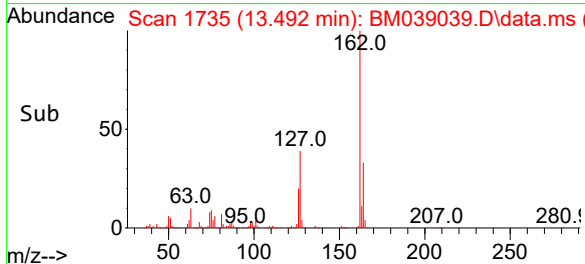
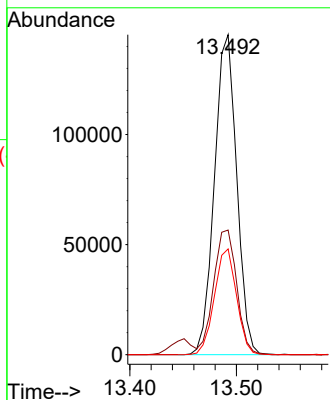
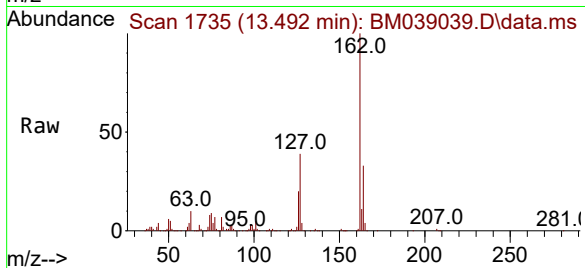
Tgt Ion:162 Resp: 210914

Ion Ratio Lower Upper

162 100

127 39.0 32.1 48.1

164 33.1 26.2 39.4



#48

2-Nitroaniline

Concen: 4.921 ng

RT: 13.692 min Scan# 1769

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

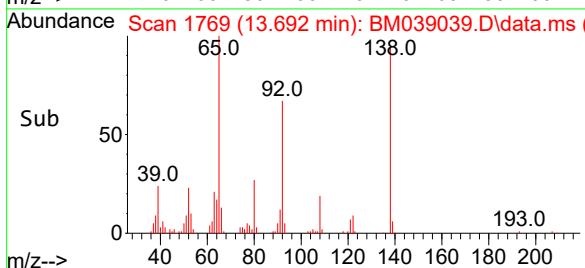
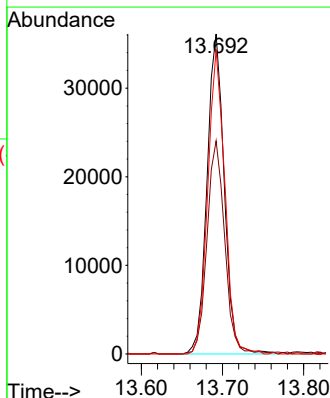
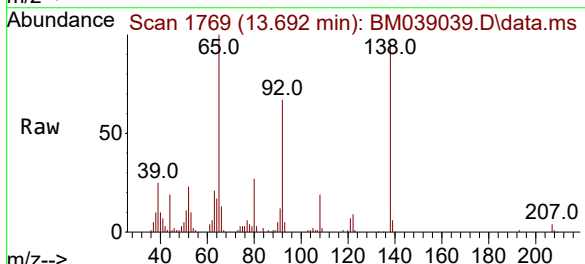
Tgt Ion: 65 Resp: 53170

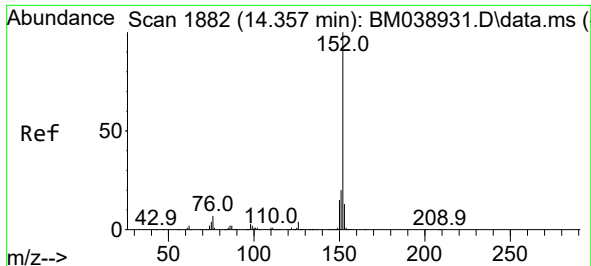
Ion Ratio Lower Upper

65 100

92 66.6 54.9 82.3

138 95.1 81.6 122.4

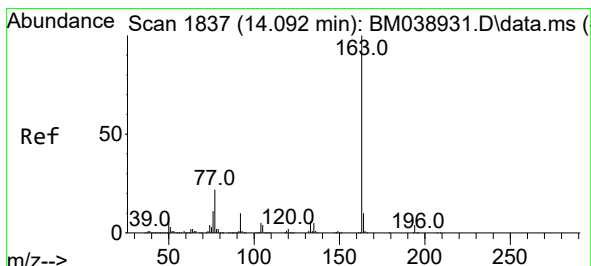
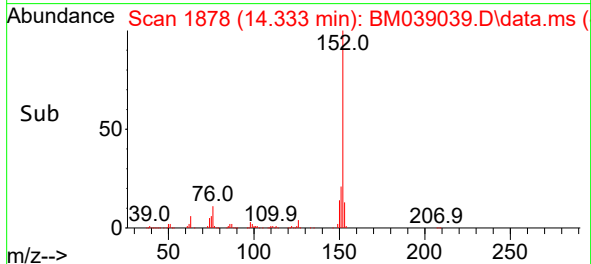
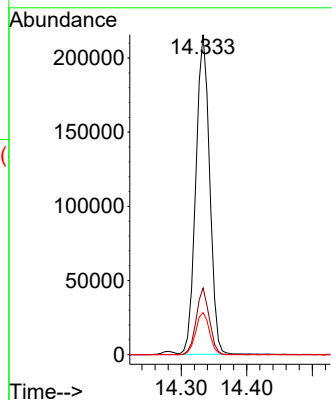
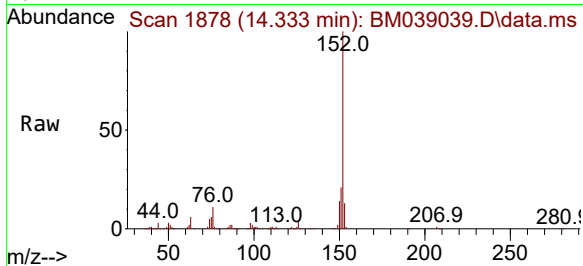




#49  
Acenaphthylene  
Concen: 3.387 ng  
RT: 14.333 min Scan# 1878  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

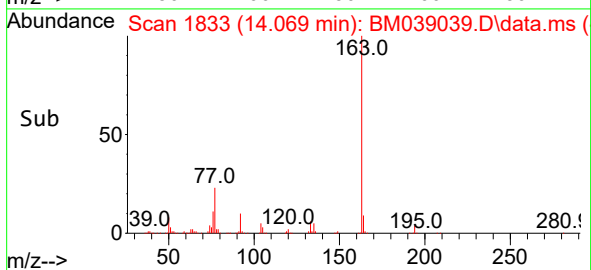
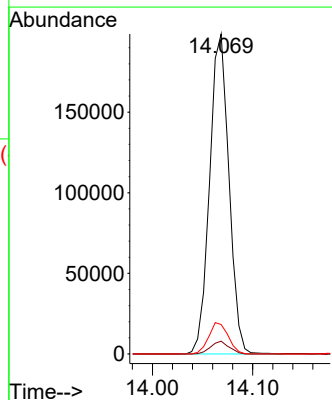
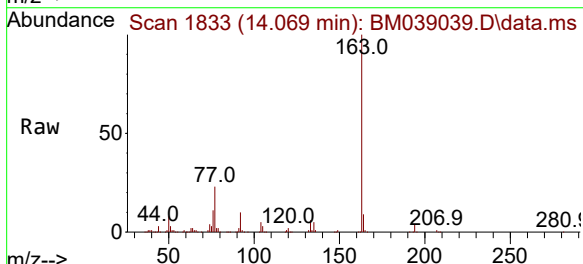
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

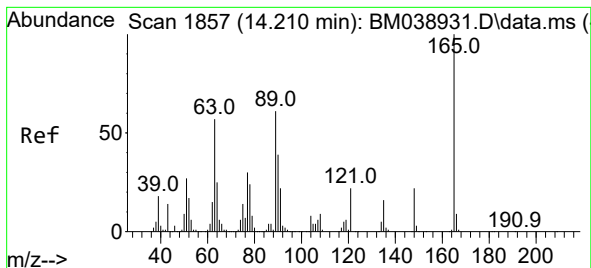
Tgt Ion:152 Resp: 315912  
Ion Ratio Lower Upper  
152 100  
151 20.8 15.8 23.8  
153 13.2 10.4 15.6



#50  
Dimethylphthalate  
Concen: 3.778 ng  
RT: 14.069 min Scan# 1833  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:163 Resp: 266422  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.1 4.7  
164 9.2 8.1 12.1





#51

2,6-Dinitrotoluene

Concen: 4.353 ng

RT: 14.186 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

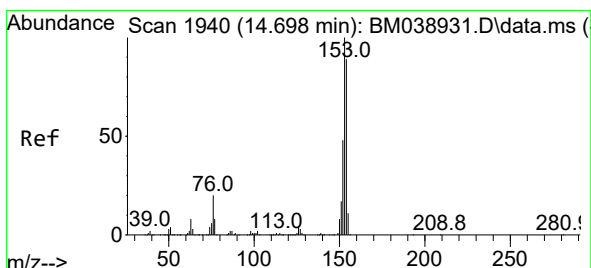
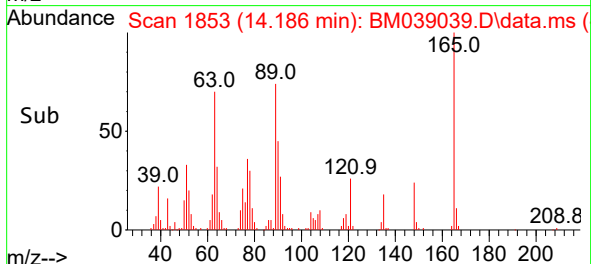
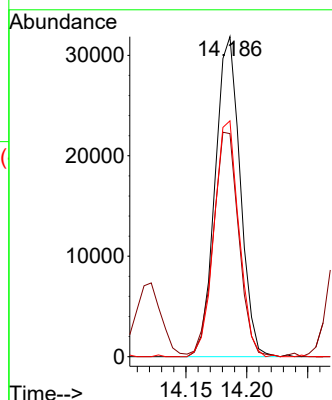
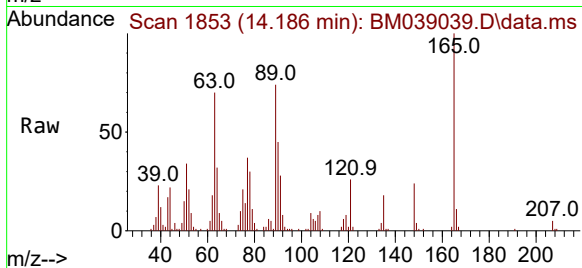
Tgt Ion:165 Resp: 45575

Ion Ratio Lower Upper

165 100

63 69.7 46.6 70.0

89 73.7 48.6 73.0#



#52

Acenaphthene

Concen: 3.526 ng

RT: 14.674 min Scan# 1936

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

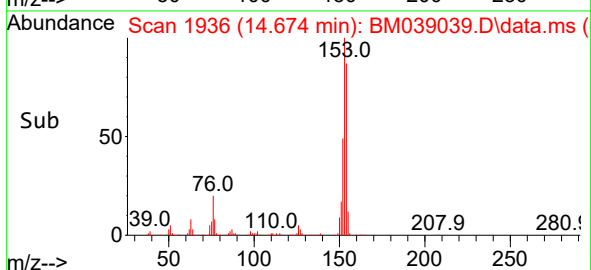
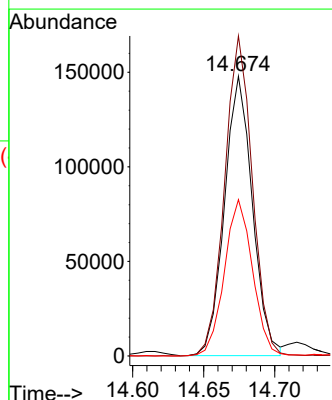
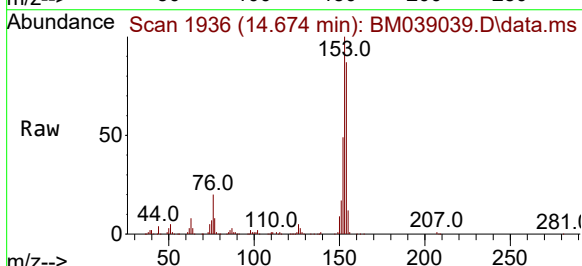
Tgt Ion:154 Resp: 202090

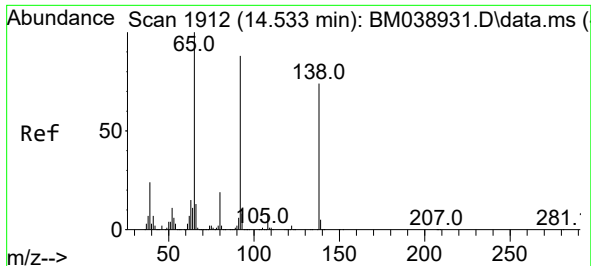
Ion Ratio Lower Upper

154 100

153 114.4 90.2 135.2

152 55.9 43.4 65.2

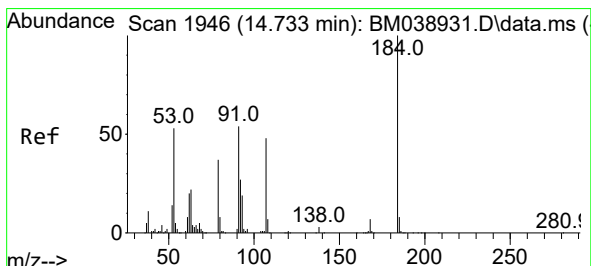
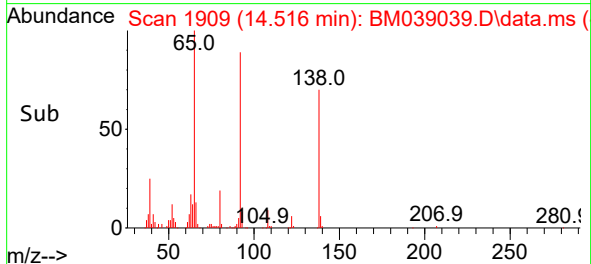
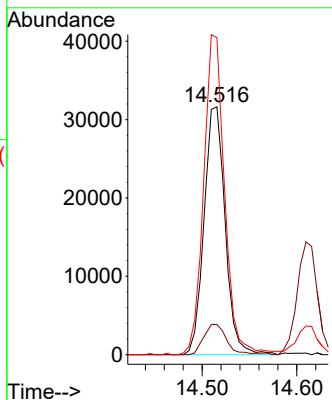
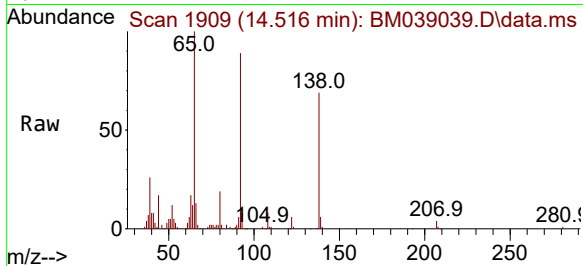




#53  
3-Nitroaniline  
Concen: 4.188 ng  
RT: 14.516 min Scan# 1909  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

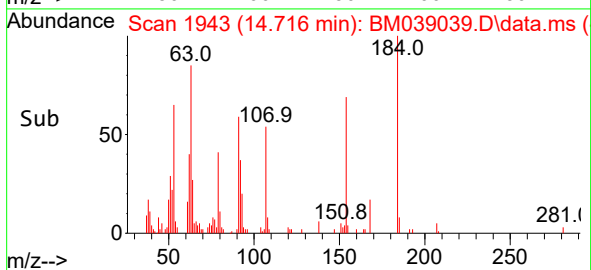
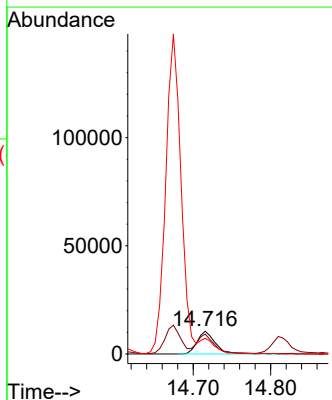
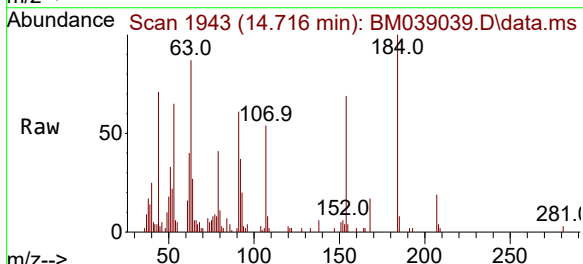
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

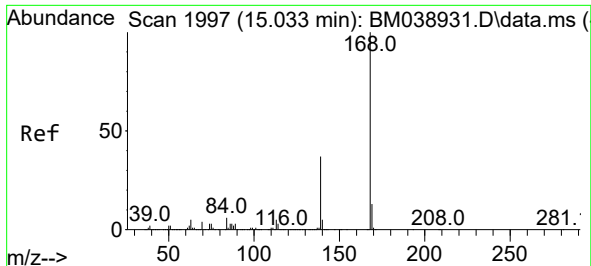
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 138   | Resp: | 49001 |
| Ion      | Ratio | Lower | Upper |
| 138      | 100   |       |       |
| 108      | 12.2  | 8.3   | 12.5  |
| 92       | 127.9 | 95.8  | 143.8 |



#54  
2,4-Dinitrophenol  
Concen: 6.976 ng  
RT: 14.716 min Scan# 1943  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 184   | Resp: | 17115 |
| Ion      | Ratio | Lower | Upper |
| 184      | 100   |       |       |
| 63       | 86.7  | 60.6  | 90.8  |
| 154      | 68.8  | 51.4  | 77.2  |

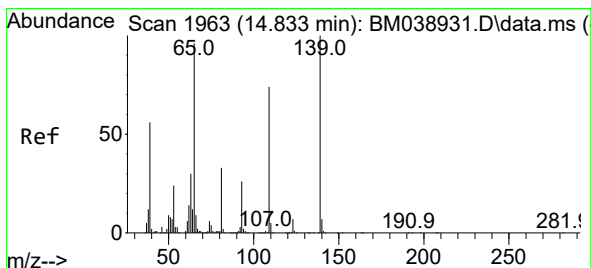
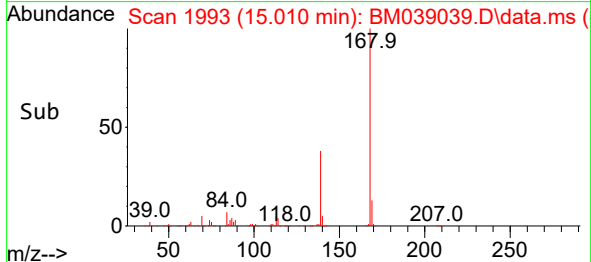
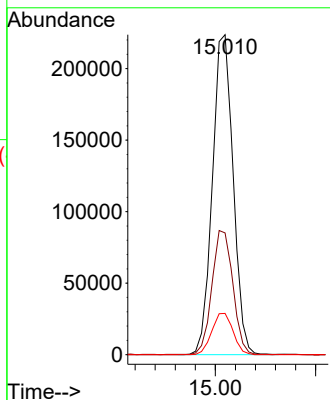
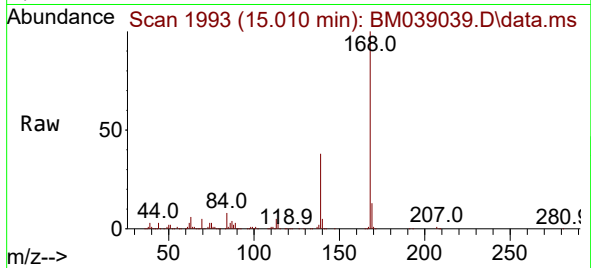




#55  
Dibenzenofuran  
Concen: 3.581 ng  
RT: 15.010 min Scan# 1993  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

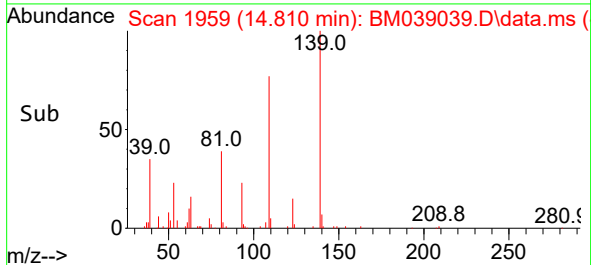
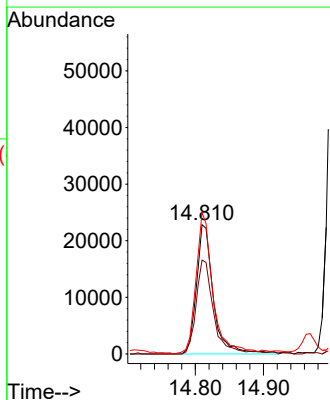
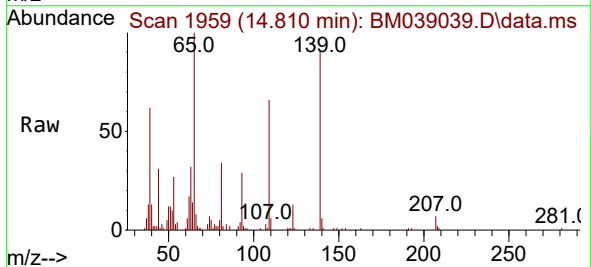
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

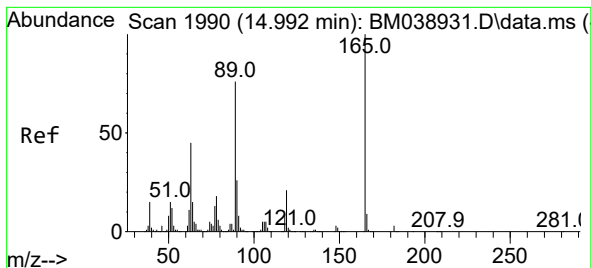
Tgt Ion:168 Resp: 321181  
Ion Ratio Lower Upper  
168 100  
139 38.1 29.9 44.9  
169 12.9 10.7 16.1



#56  
4-Nitrophenol  
Concen: 2.809 ng  
RT: 14.810 min Scan# 1959  
Delta R.T. -0.012 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:139 Resp: 39349  
Ion Ratio Lower Upper  
139 100  
109 72.7 53.5 93.5  
65 109.6 76.4 116.4





#57

2,4-Dinitrotoluene

Concen: 4.695 ng

RT: 14.969 min Scan# 1990

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

Tgt Ion:165 Resp: 56282

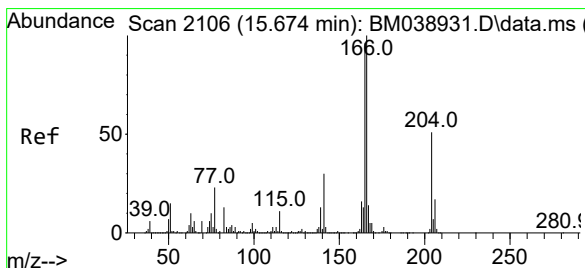
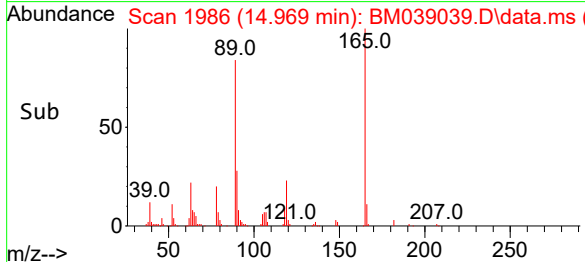
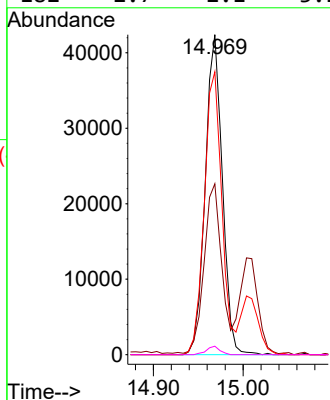
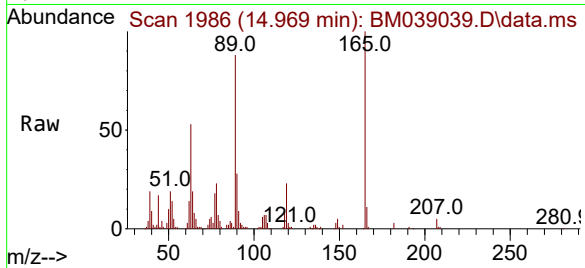
Ion Ratio Lower Upper

165 100

63 53.4 35.9 53.9

89 88.4 61.0 91.6

182 2.7 2.1 3.1



#58

Fluorene

Concen: 3.662 ng

RT: 15.657 min Scan# 2103

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

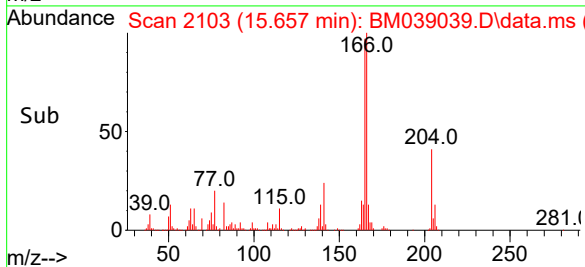
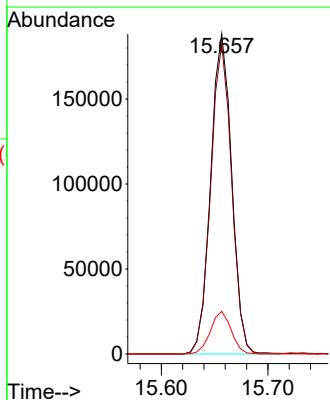
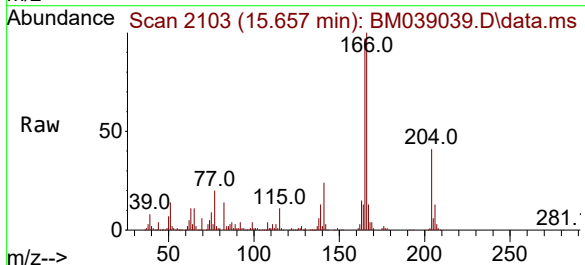
Tgt Ion:166 Resp: 257248

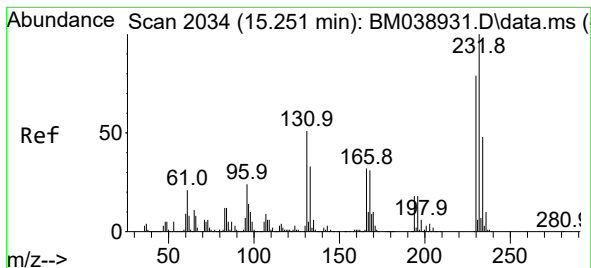
Ion Ratio Lower Upper

166 100

165 96.9 77.1 115.7

167 13.3 10.9 16.3

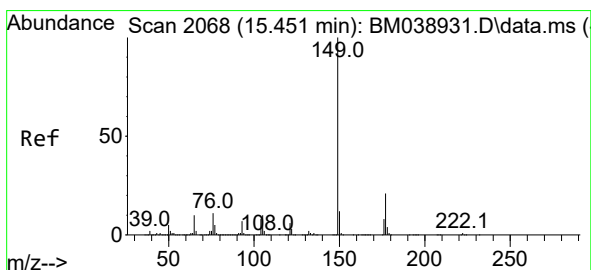
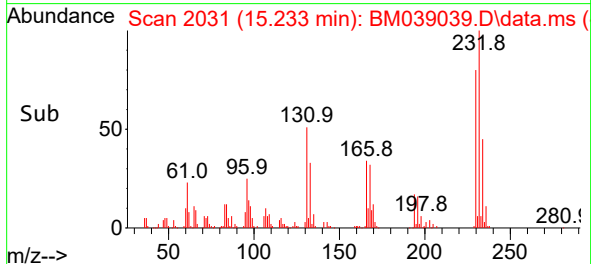
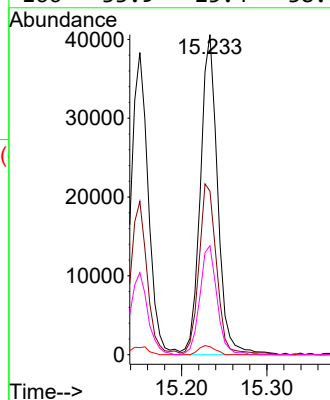
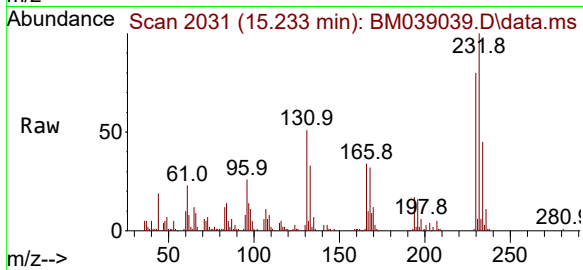




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 3.284 ng  
RT: 15.233 min Scan# 2031  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

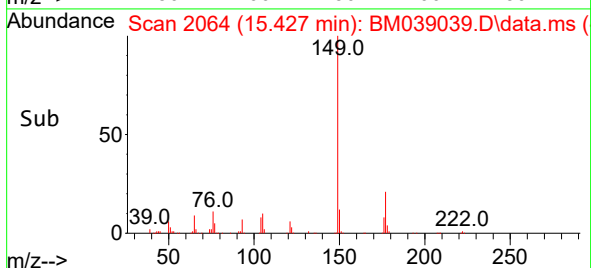
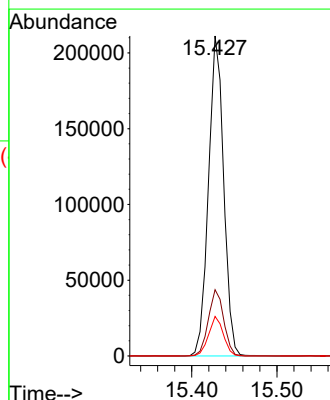
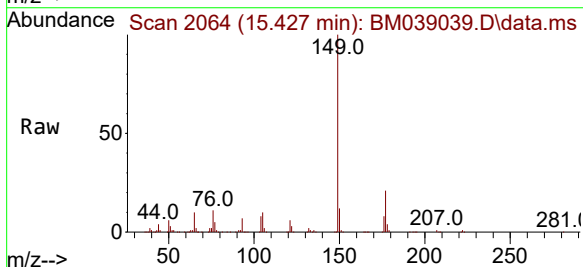
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

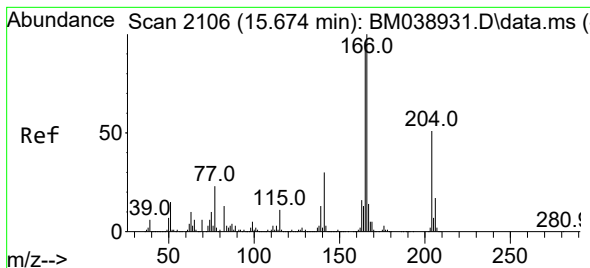
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:232 | Resp: | 57200     |
| Ion Ratio   | Lower | Upper     |
| 232         | 100   |           |
| 131         | 54.6  | 40.0 60.0 |
| 130         | 2.7   | 2.0 3.0   |
| 166         | 33.9  | 25.4 38.0 |



#60  
Diethylphthalate  
Concen: 3.805 ng  
RT: 15.427 min Scan# 2064  
Delta R.T. -0.012 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:149 | Resp: | 261087    |
| Ion Ratio   | Lower | Upper     |
| 149         | 100   |           |
| 177         | 20.7  | 17.1 25.7 |
| 150         | 12.3  | 9.7 14.5  |

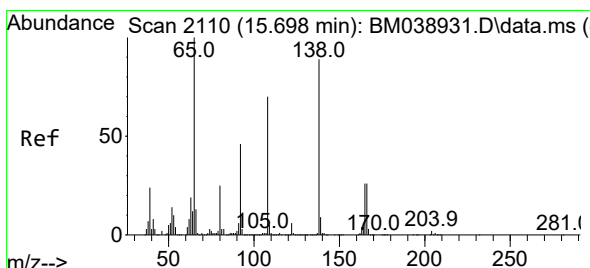
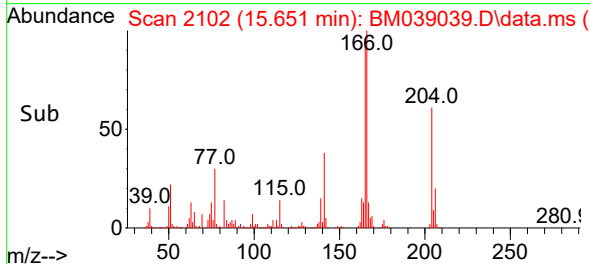
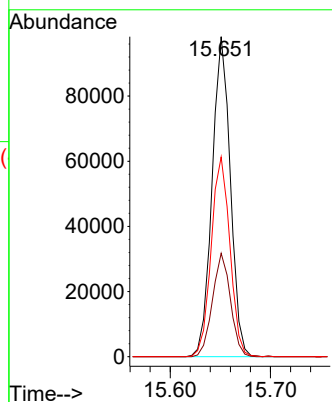
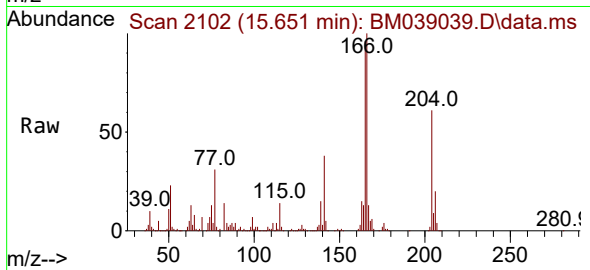




#61  
4-Chlorophenyl-phenylether  
Concen: 3.589 ng  
RT: 15.651 min Scan# 2105  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

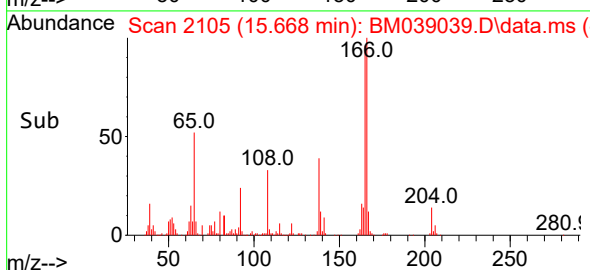
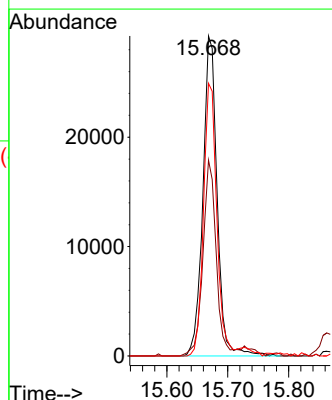
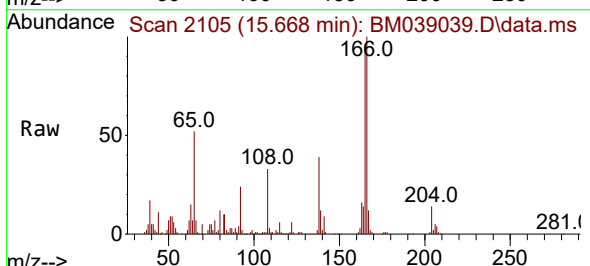
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ClientSampleId :  
MDL-SOIL-03-QT1-2022

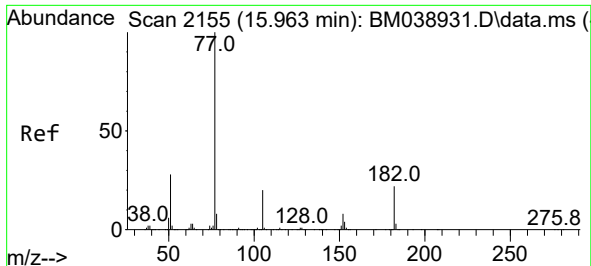
Tgt Ion:204 Resp: 123890  
Ion Ratio Lower Upper  
204 100  
206 32.3 26.4 39.6  
141 62.4 46.4 69.6



#62  
4-Nitroaniline  
Concen: 4.222 ng  
RT: 15.668 min Scan# 2105  
Delta R.T. -0.018 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:138 Resp: 47641  
Ion Ratio Lower Upper  
138 100  
92 61.2 31.6 71.6  
108 85.2 58.6 98.6

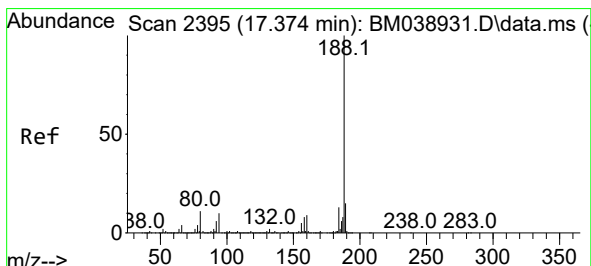
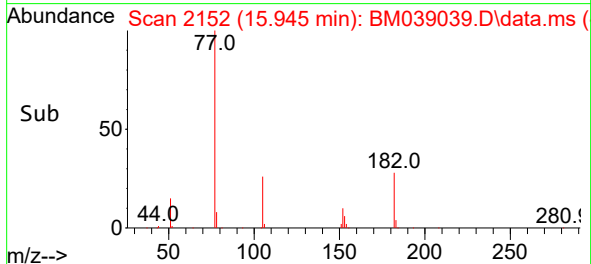
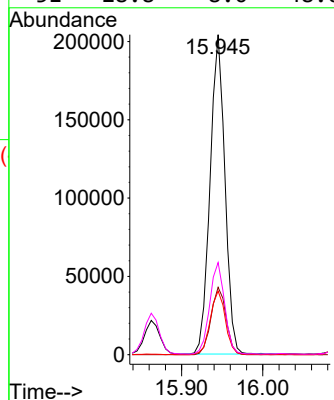
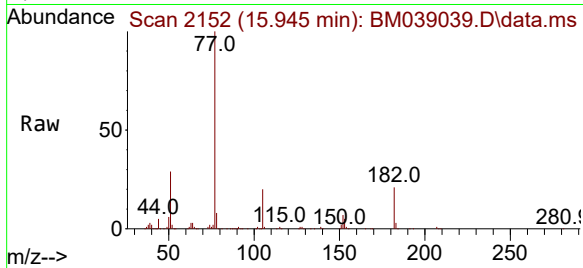




#63  
Azobenzene  
Concen: 3.563 ng  
RT: 15.945 min Scan# 2152  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

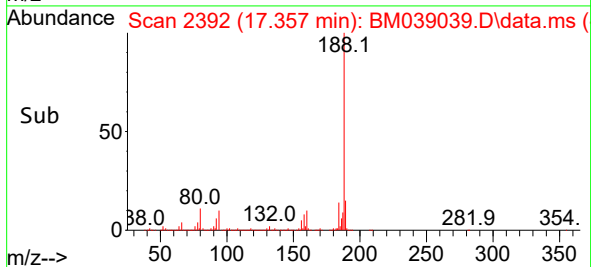
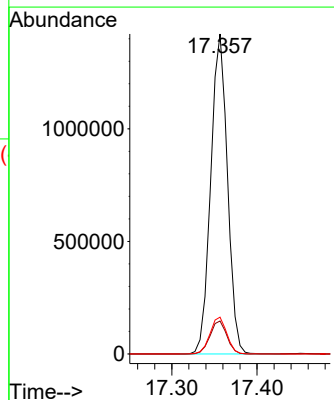
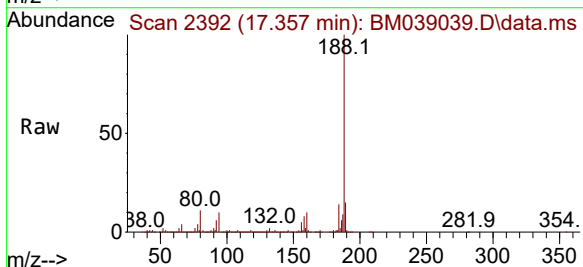
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

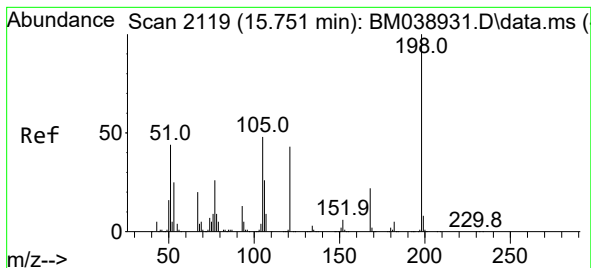
Tgt Ion: 77 Resp: 258701  
Ion Ratio Lower Upper  
77 100  
182 21.1 2.0 42.0  
105 19.9 0.4 40.4  
51 28.8 8.0 48.0



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.357 min Scan# 2392  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion: 188 Resp: 1935634  
Ion Ratio Lower Upper  
188 100  
94 10.3 7.9 11.9  
80 11.5 8.5 12.7

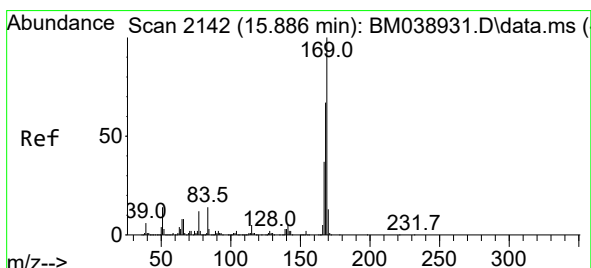
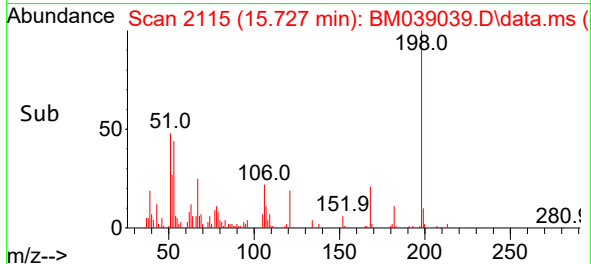
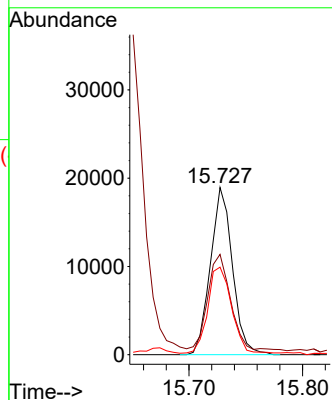
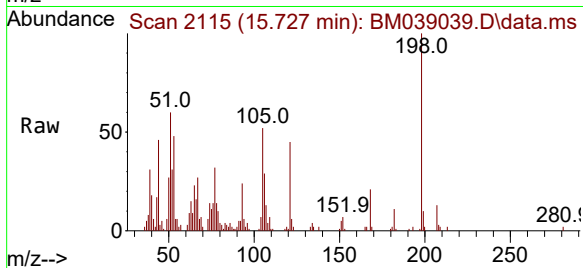




#65  
4,6-Dinitro-2-methylphenol  
Concen: 6.887 ng  
RT: 15.727 min Scan# 2115  
Delta R.T. -0.012 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

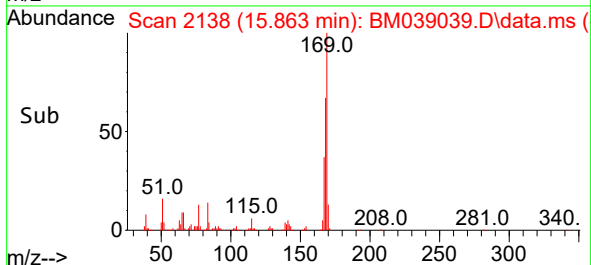
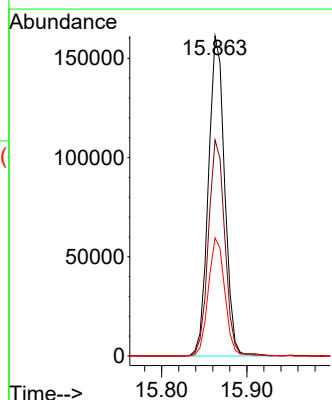
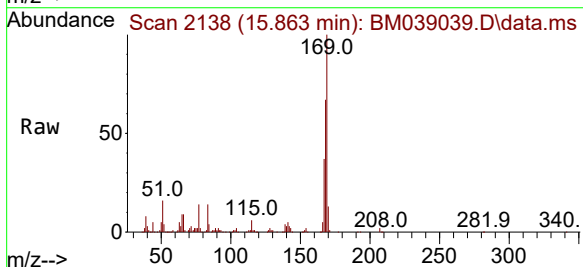
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

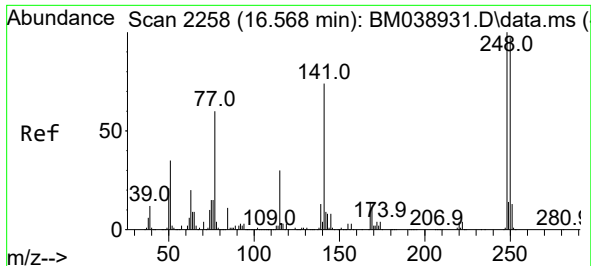
Tgt Ion:198 Resp: 25588  
Ion Ratio Lower Upper  
198 100  
51 60.0 30.1 70.1  
105 52.4 29.3 69.3



#66  
n-Nitrosodiphenylamine  
Concen: 3.267 ng  
RT: 15.863 min Scan# 2138  
Delta R.T. -0.012 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:169 Resp: 213202  
Ion Ratio Lower Upper  
169 100  
168 67.5 53.4 80.0  
167 36.9 29.4 44.0

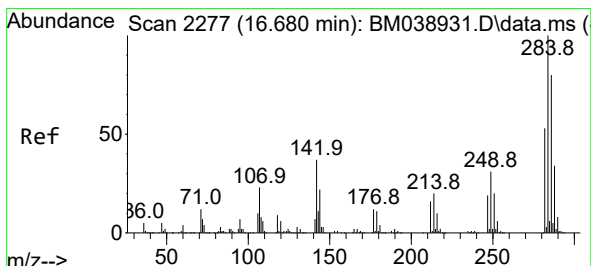
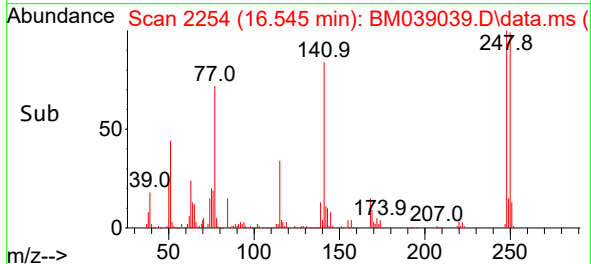
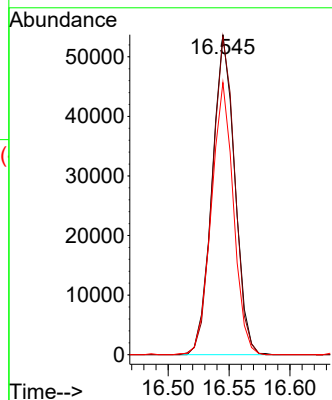
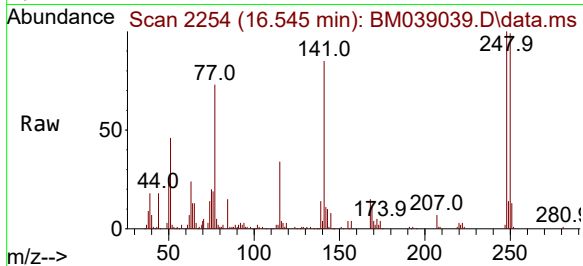




#67  
4-Bromophenyl-phenylether  
Concen: 3.310 ng  
RT: 16.545 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

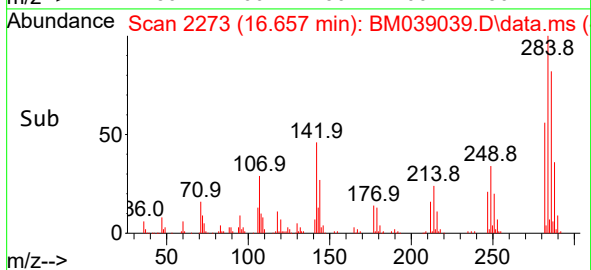
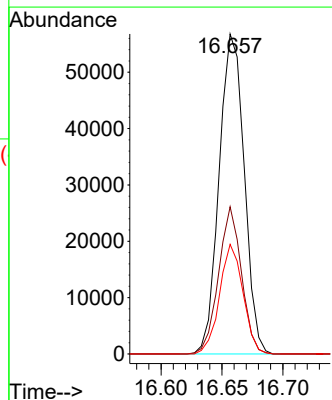
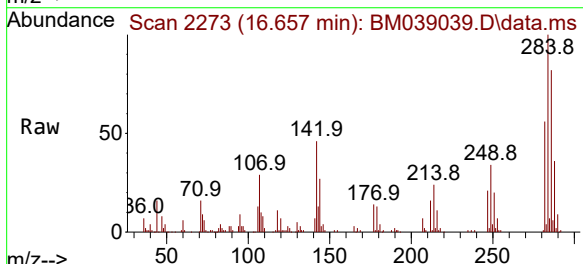
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

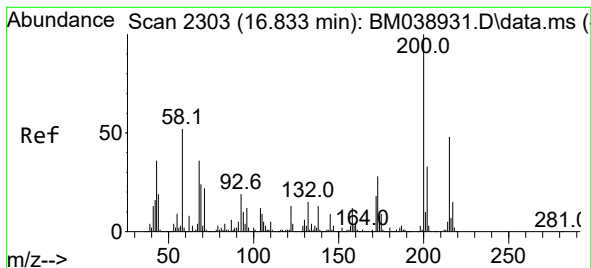
Tgt Ion:248 Resp: 69200  
Ion Ratio Lower Upper  
248 100  
250 99.4 77.8 116.8  
141 85.0 59.0 88.4



#68  
Hexachlorobenzene  
Concen: 3.483 ng  
RT: 16.657 min Scan# 2273  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:284 Resp: 81398  
Ion Ratio Lower Upper  
284 100  
142 46.0 29.5 44.3#  
249 38.1 25.0 37.4#





#69

Atrazine

Concen: 3.801 ng

RT: 16.815 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

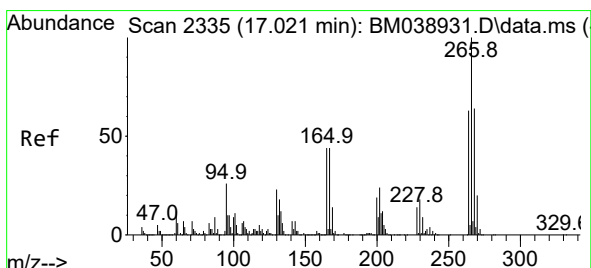
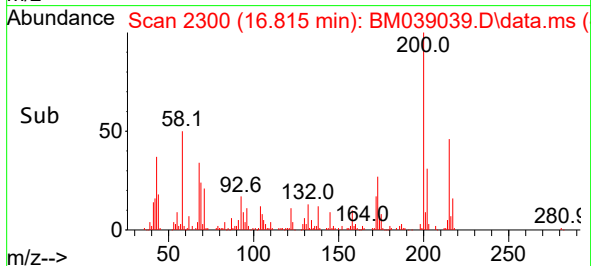
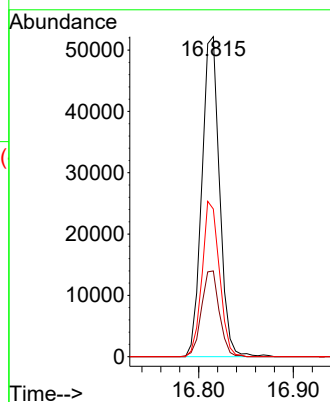
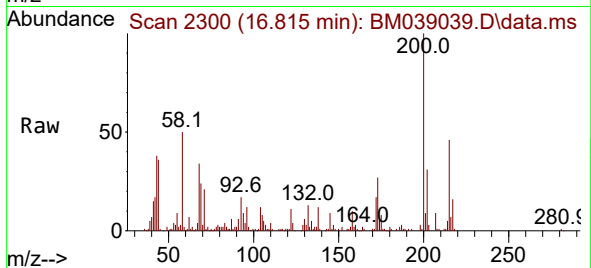
Tgt Ion:200 Resp: 67756

Ion Ratio Lower Upper

200 100

173 26.8 8.2 48.2

215 46.2 27.8 67.8



#70

Pentachlorophenol

Concen: 2.356 ng

RT: 17.004 min Scan# 2332

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

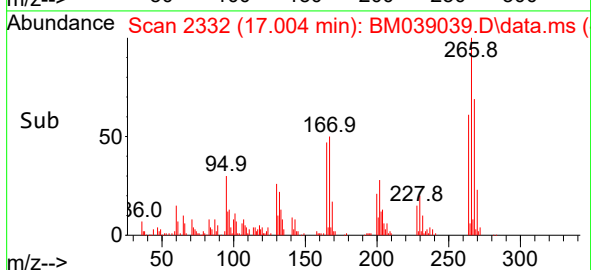
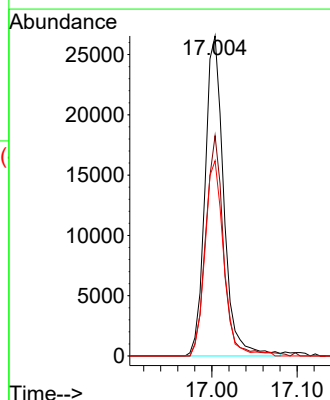
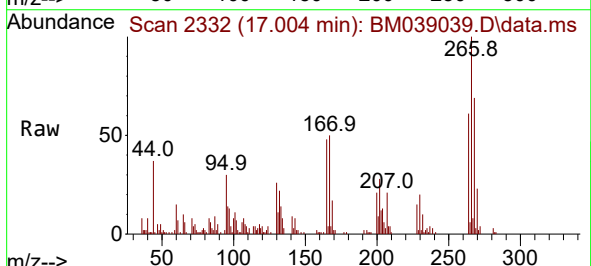
Tgt Ion:266 Resp: 40506

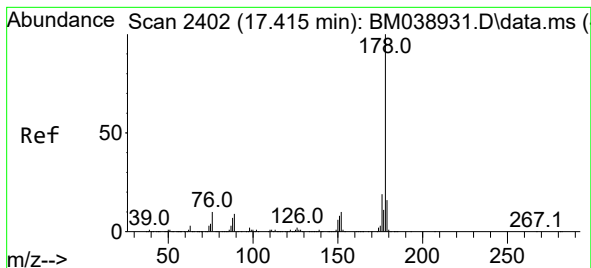
Ion Ratio Lower Upper

266 100

268 68.8 51.0 76.4

264 61.0 50.3 75.5





#71

Phenanthrene

Concen: 3.612 ng

RT: 17.398 min Scan# 2414

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

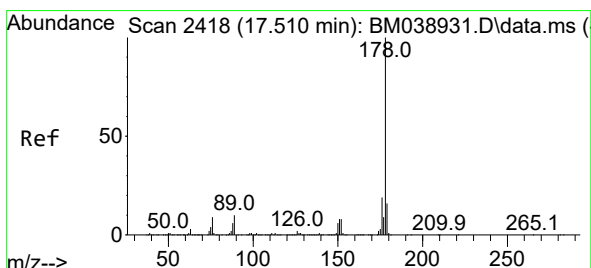
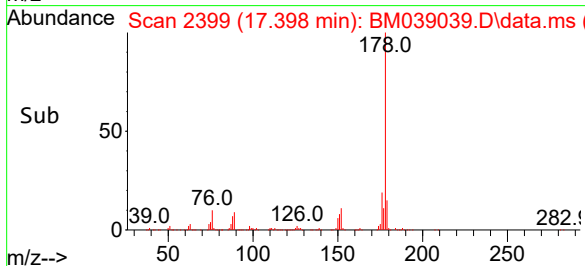
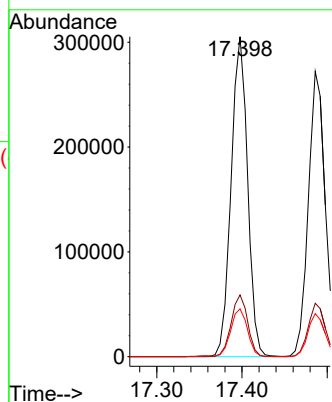
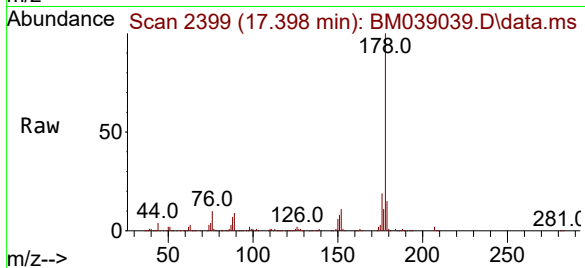
Tgt Ion:178 Resp: 410338

Ion Ratio Lower Upper

178 100

176 19.3 15.6 23.4

179 15.0 12.5 18.7



#72

Anthracene

Concen: 3.372 ng

RT: 17.486 min Scan# 2414

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

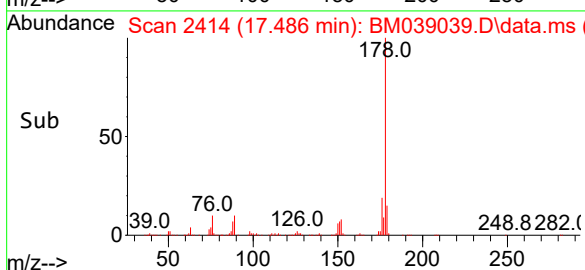
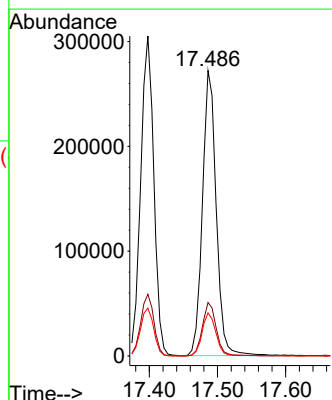
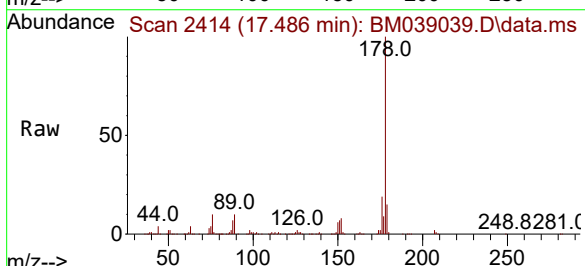
Tgt Ion:178 Resp: 382072

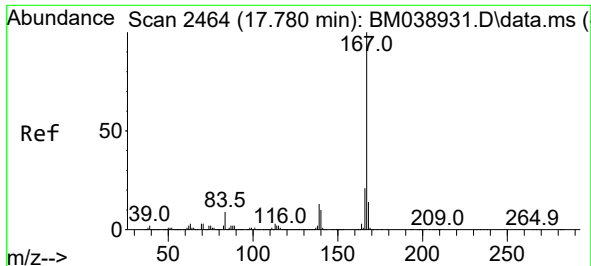
Ion Ratio Lower Upper

178 100

176 18.7 15.3 22.9

179 15.1 12.5 18.7

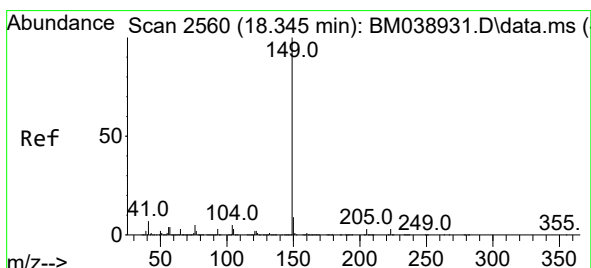
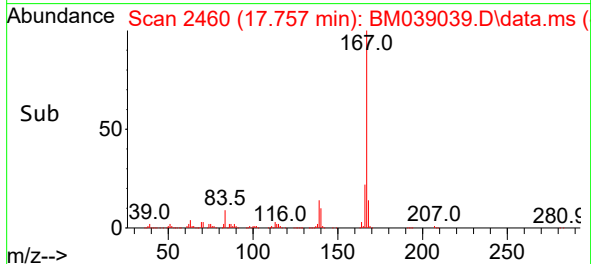
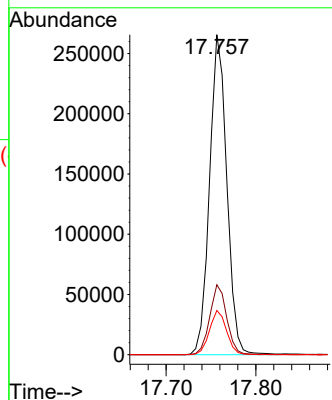
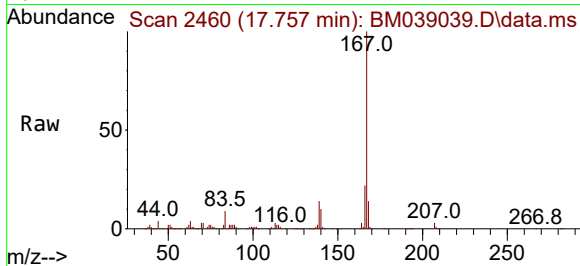




#73  
Carbazole  
Concen: 3.432 ng  
RT: 17.757 min Scan# 24  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

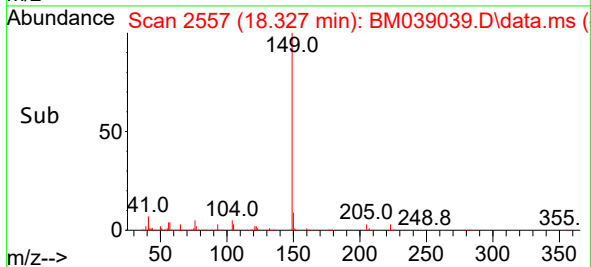
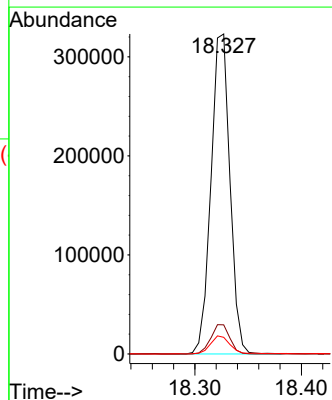
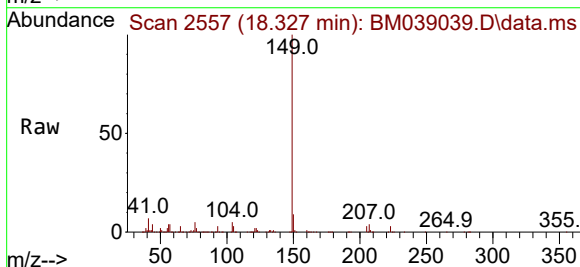
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

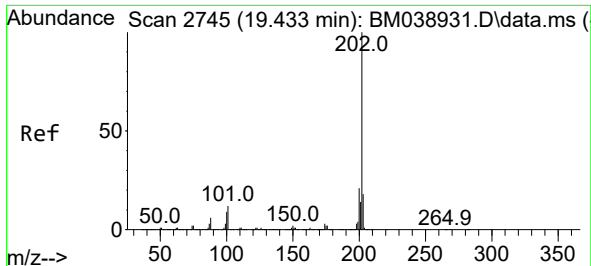
Tgt Ion:167 Resp: 354893  
Ion Ratio Lower Upper  
167 100  
166 21.9 17.0 25.4  
139 13.8 10.3 15.5



#74  
Di-n-butylphthalate  
Concen: 4.843 ng  
RT: 18.327 min Scan# 2557  
Delta R.T. 0.000 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:149 Resp: 398904  
Ion Ratio Lower Upper  
149 100  
150 9.1 7.4 11.2  
104 5.2 4.3 6.5

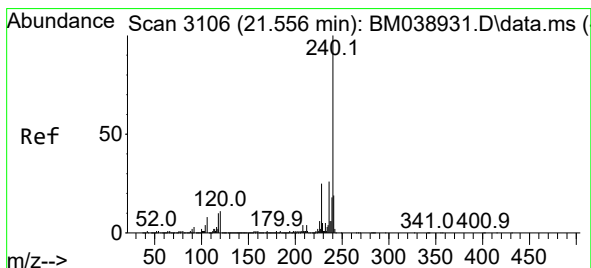
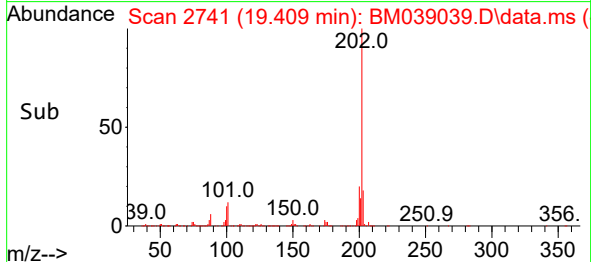
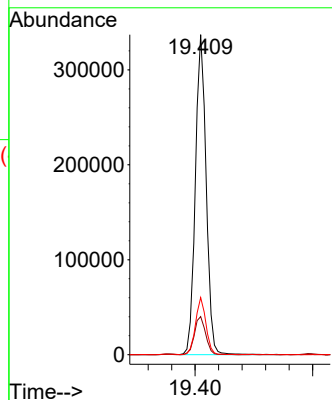
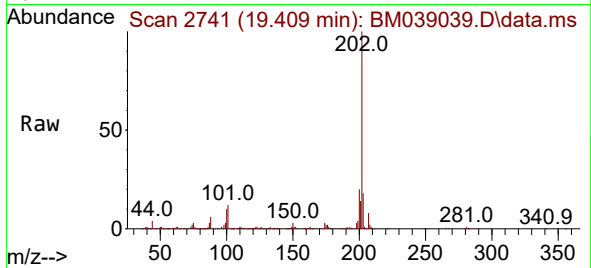




#75  
Fluoranthene  
Concen: 3.576 ng  
RT: 19.409 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

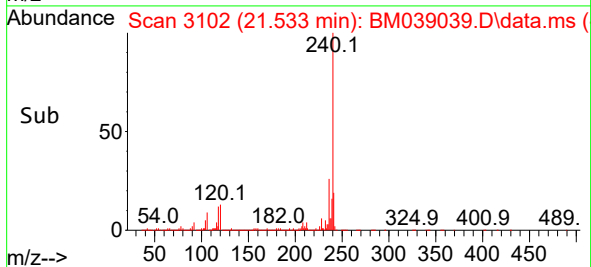
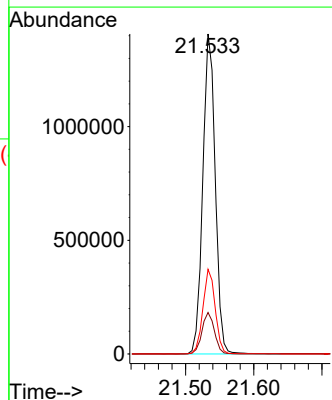
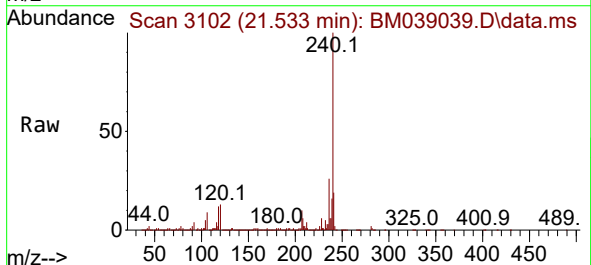
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

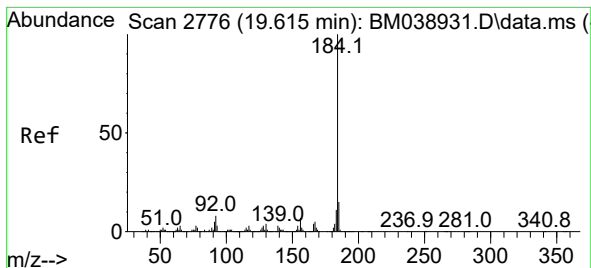
Tgt Ion:202 Resp: 428880  
Ion Ratio Lower Upper  
202 100  
101 11.9 0.0 31.7  
203 17.9 0.0 37.6



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.533 min Scan# 3102  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:240 Resp: 1789904  
Ion Ratio Lower Upper  
240 100  
120 12.9 9.2 13.8  
236 26.4 20.8 31.2





#77

Benzidine

Concen: 8.892 ng

RT: 19.598 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

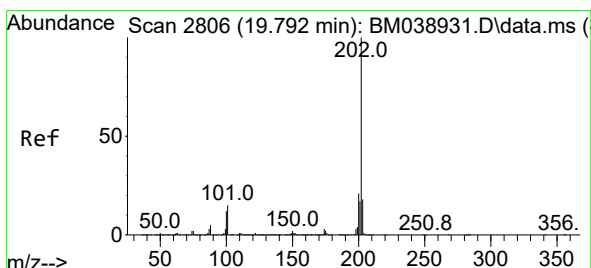
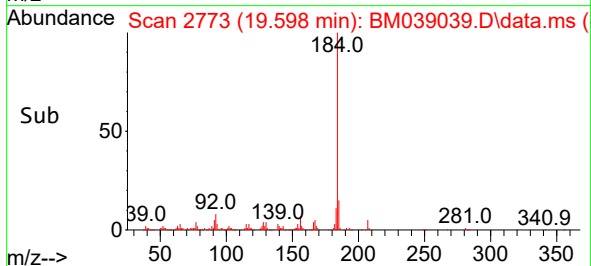
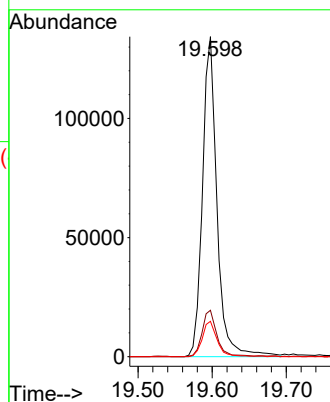
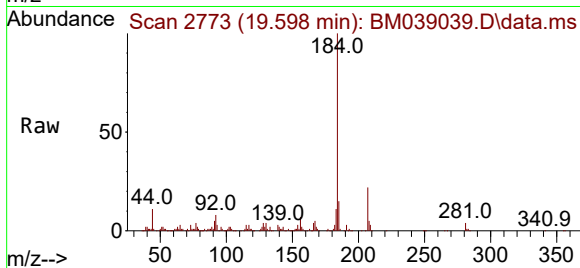
Tgt Ion:184 Resp: 182378

Ion Ratio Lower Upper

184 100

185 14.5 12.2 18.4

183 11.0 8.8 13.2



#78

Pyrene

Concen: 3.376 ng

RT: 19.774 min Scan# 2803

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

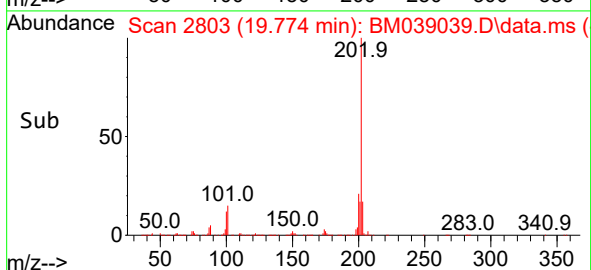
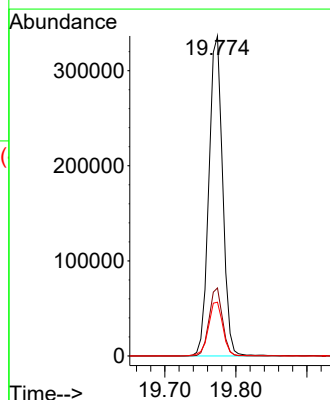
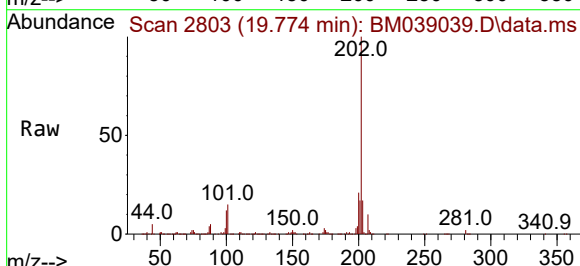
Tgt Ion:202 Resp: 453916

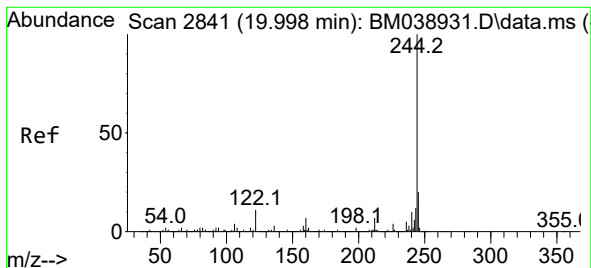
Ion Ratio Lower Upper

202 100

200 21.2 17.1 25.7

203 16.8 14.1 21.1





#79

Terphenyl-d14

Concen: 83.050 ng

RT: 19.980 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

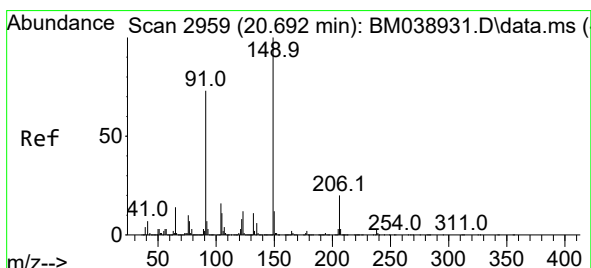
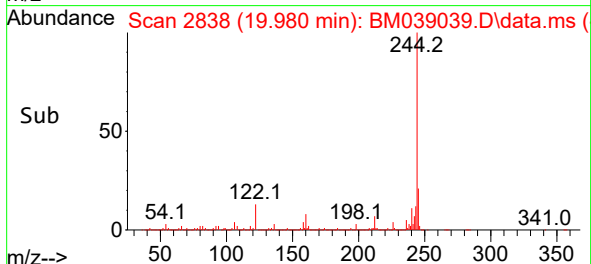
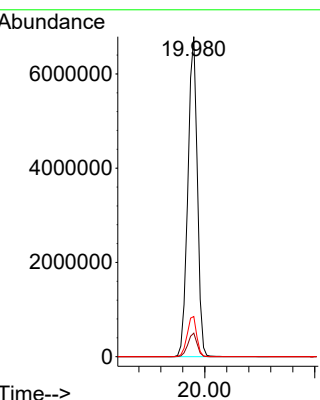
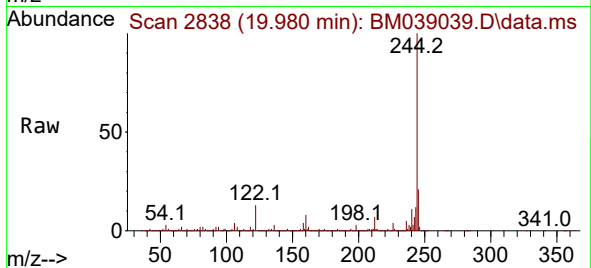
Tgt Ion:244 Resp: 8130476

Ion Ratio Lower Upper

244 100

212 7.3 5.5 8.3

122 12.5 9.0 13.4



#80

Butylbenzylphthalate

Concen: 5.984 ng

RT: 20.668 min Scan# 2955

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

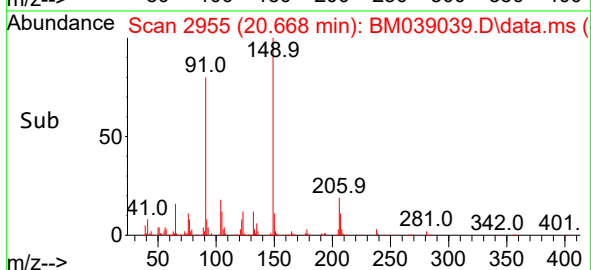
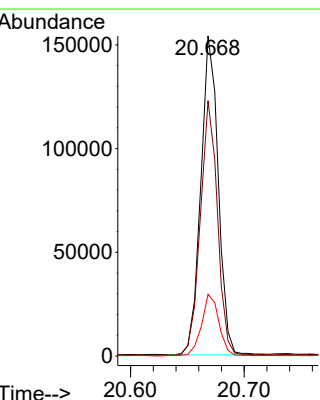
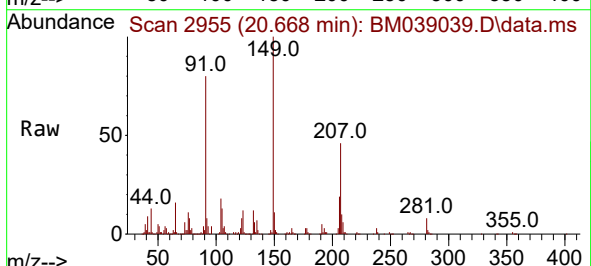
Tgt Ion:149 Resp: 163824

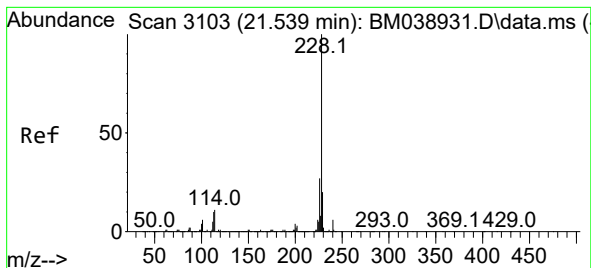
Ion Ratio Lower Upper

149 100

91 79.8 58.4 87.6

206 19.3 16.1 24.1





#81

Benzo(a)anthracene

Concen: 3.526 ng

RT: 21.515 min Scan# 3088

Delta R.T. -0.012 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

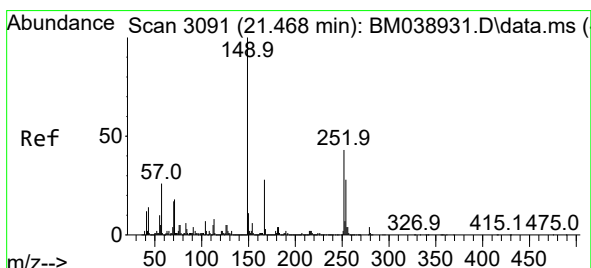
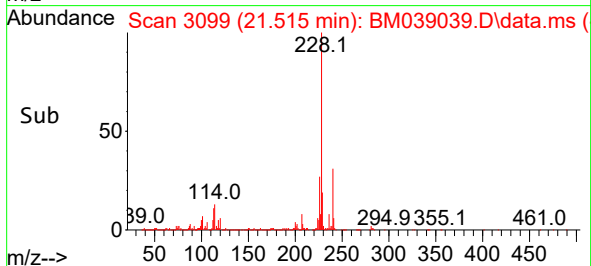
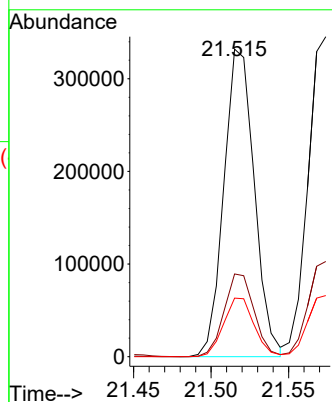
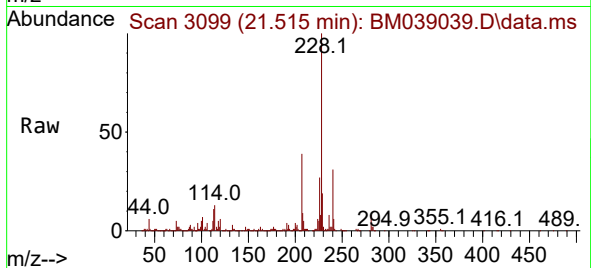
Tgt Ion:228 Resp: 454438

Ion Ratio Lower Upper

228 100

226 26.9 21.4 32.2

229 19.1 15.7 23.5



#82

3,3'-Dichlorobenzidine

Concen: 3.864 ng

RT: 21.450 min Scan# 3088

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

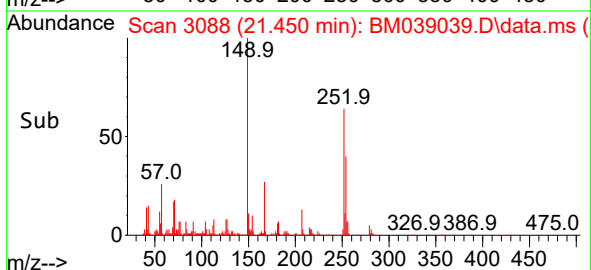
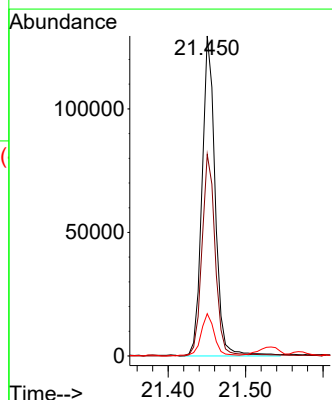
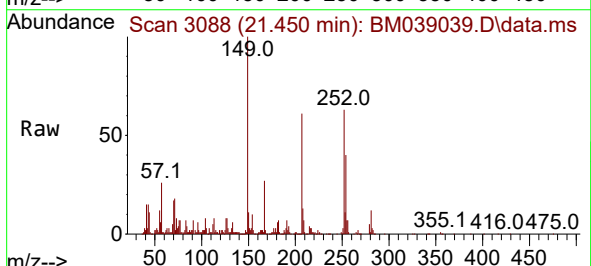
Tgt Ion:252 Resp: 153081

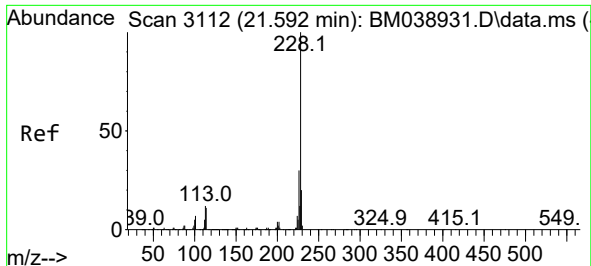
Ion Ratio Lower Upper

252 100

254 63.0 51.5 77.3

126 13.2 9.9 14.9

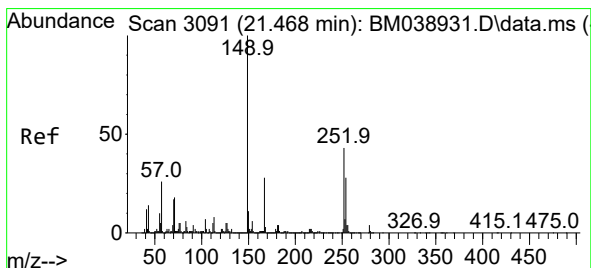
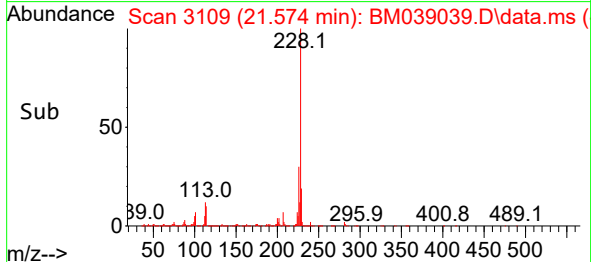
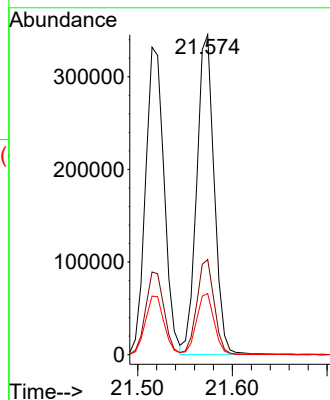
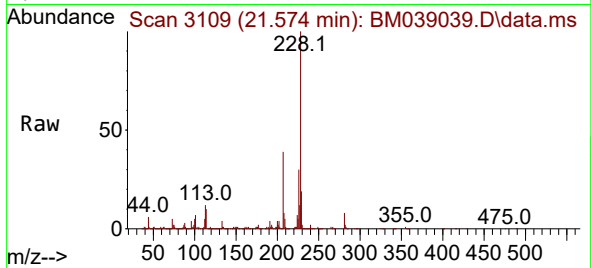




#83  
Chrysene  
Concen: 3.528 ng  
RT: 21.574 min Scan# 3112  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

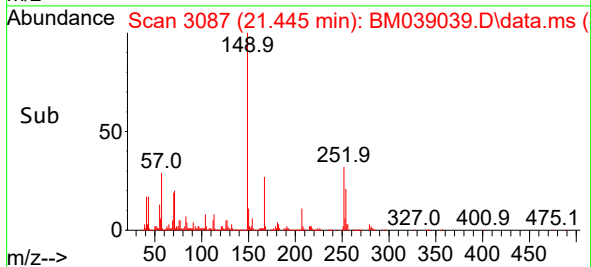
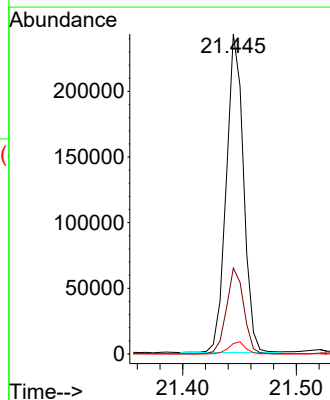
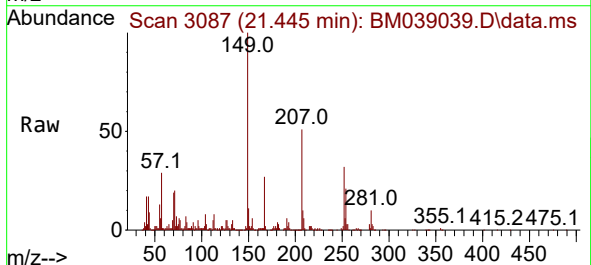
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

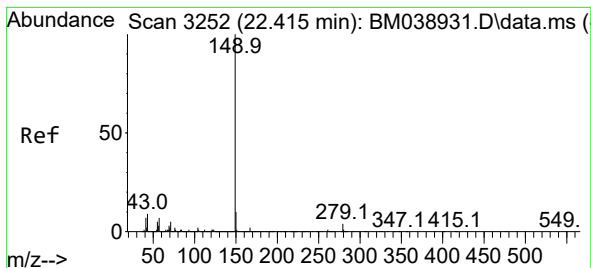
Tgt Ion:228 Resp: 442250  
Ion Ratio Lower Upper  
228 100  
226 29.8 24.0 36.0  
229 19.1 16.0 24.0



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 5.416 ng  
RT: 21.445 min Scan# 3087  
Delta R.T. -0.006 min  
Lab File: BM039039.D  
Acq: 20 Mar 2023 11:38

Tgt Ion:149 Resp: 255476  
Ion Ratio Lower Upper  
149 100  
167 26.9 22.3 33.5  
279 3.3 3.2 4.8





#85

Di-n-octyl phthalate

Concen: 6.466 ng

RT: 22.386 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

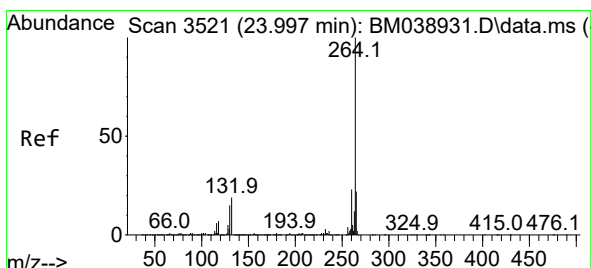
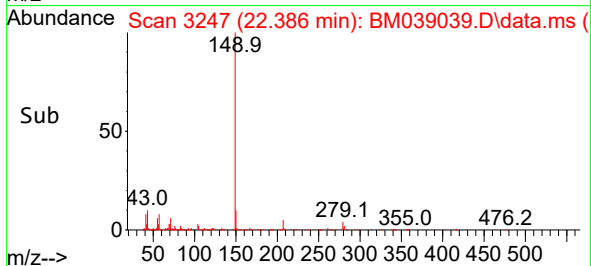
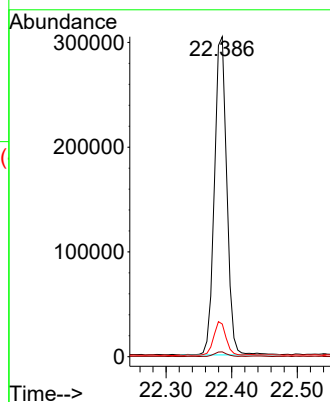
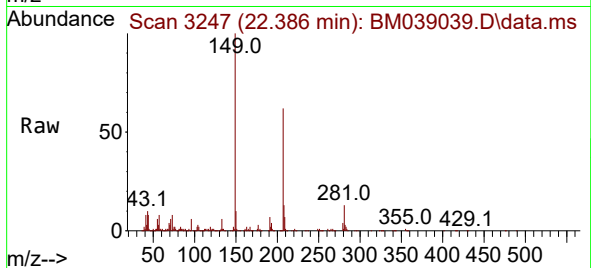
Tgt Ion:149 Resp: 397576

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

43 10.4 7.4 11.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.968 min Scan# 3516

Delta R.T. -0.012 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

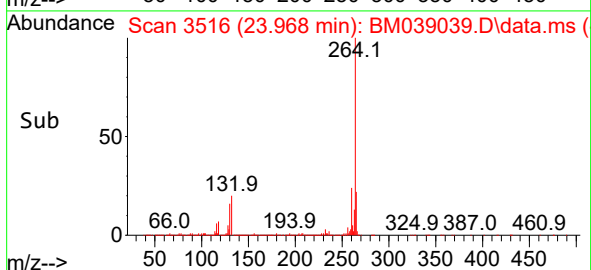
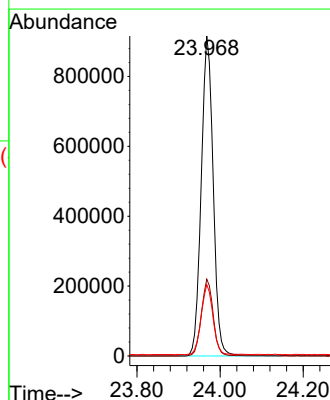
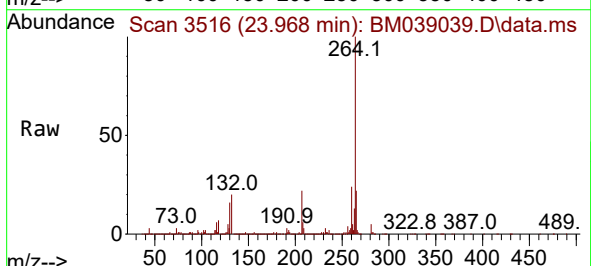
Tgt Ion:264 Resp: 1834696

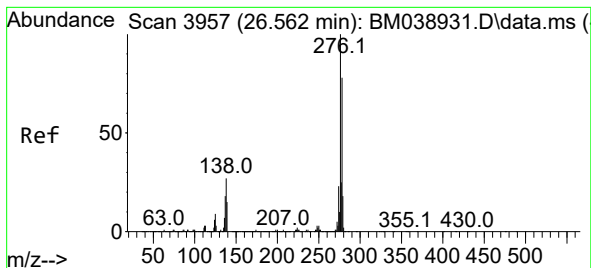
Ion Ratio Lower Upper

264 100

260 24.0 18.7 28.1

265 22.3 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.189 ng

RT: 26.497 min Scan# 3946

Delta R.T. -0.023 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

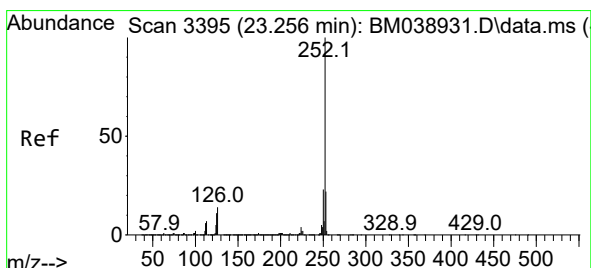
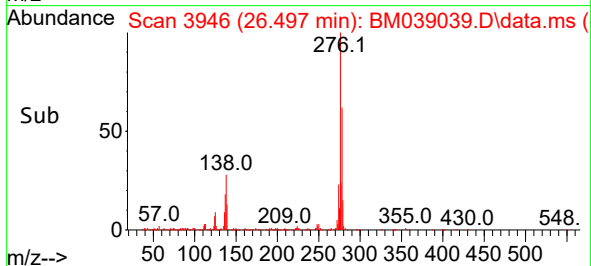
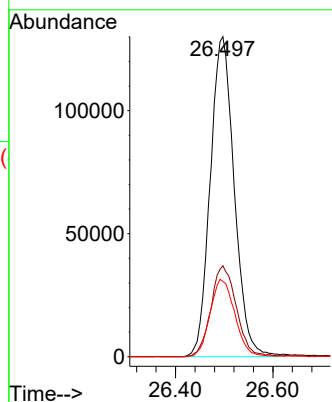
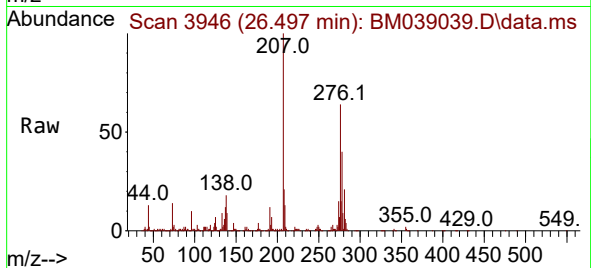
Tgt Ion:276 Resp: 445213

Ion Ratio Lower Upper

276 100

138 30.1 22.1 33.1

277 24.9 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 3.597 ng

RT: 23.221 min Scan# 3389

Delta R.T. -0.018 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

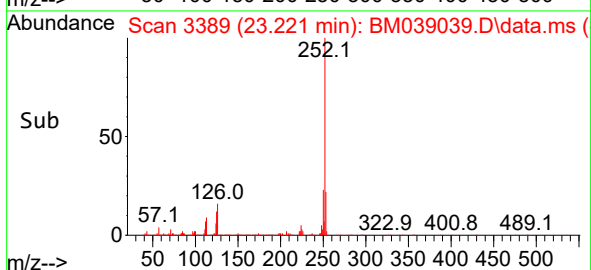
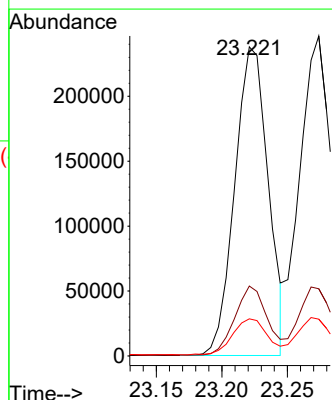
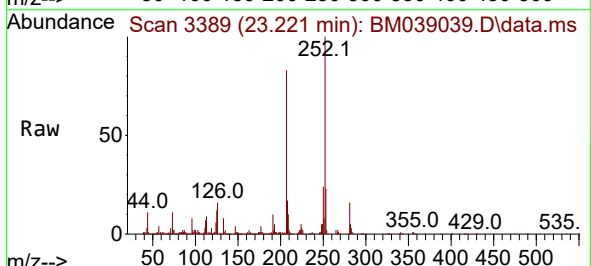
Tgt Ion:252 Resp: 421621

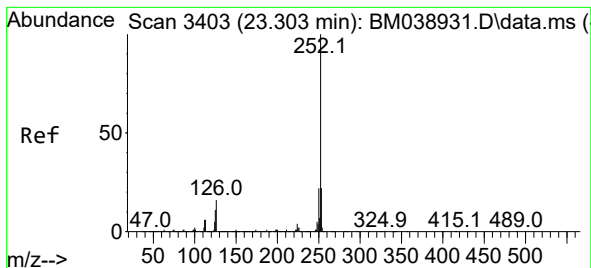
Ion Ratio Lower Upper

252 100

253 22.6 17.6 26.4

125 12.0 8.8 13.2





#89

Benzo(k)fluoranthene

Concen: 3.550 ng

RT: 23.274 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

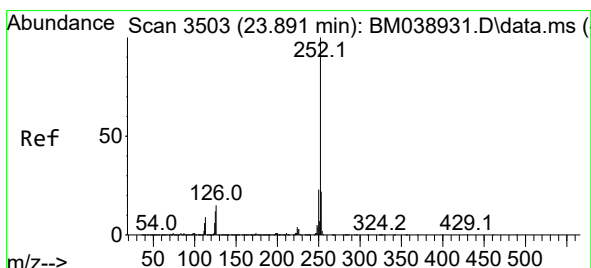
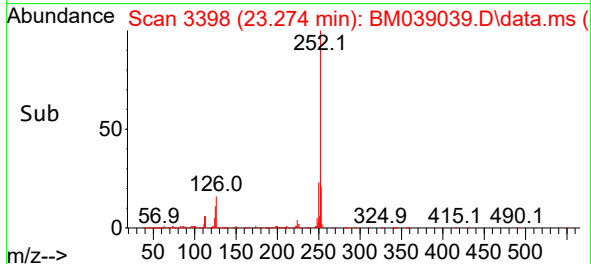
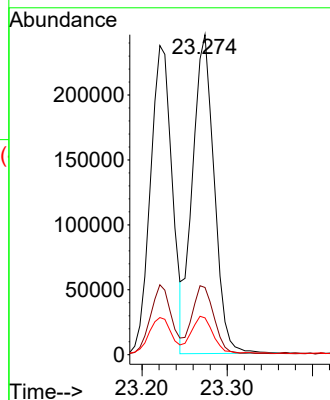
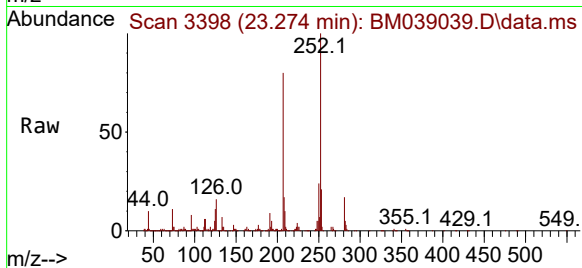
Tgt Ion:252 Resp: 433089

Ion Ratio Lower Upper

252 100

253 21.0 17.5 26.3

125 11.5 8.9 13.3



#90

Benzo(a)pyrene

Concen: 3.091 ng

RT: 23.856 min Scan# 3497

Delta R.T. -0.018 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

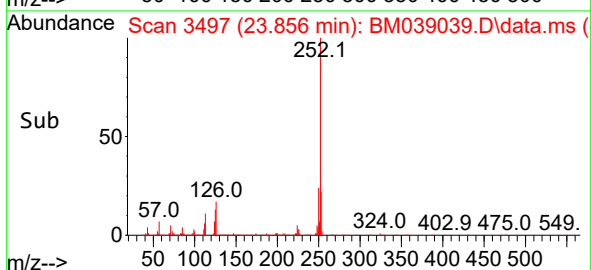
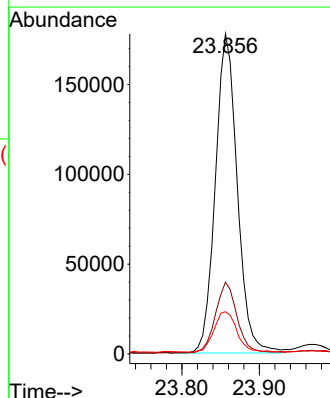
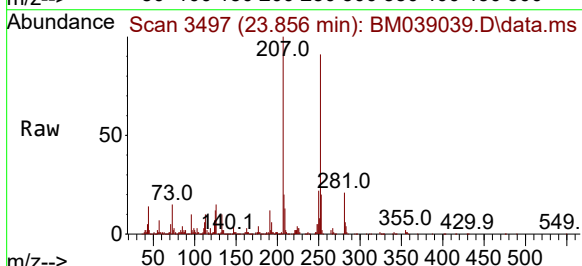
Tgt Ion:252 Resp: 348715

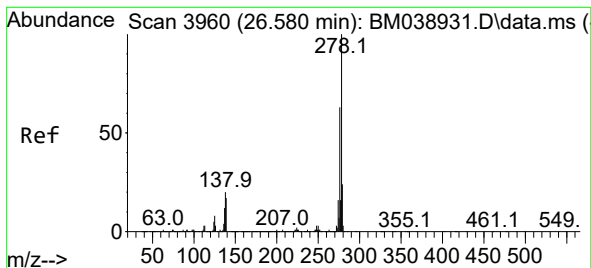
Ion Ratio Lower Upper

252 100

253 22.5 17.6 26.4

125 13.2 9.8 14.8





#91

Dibenzo(a,h)anthracene

Concen: 3.187 ng

RT: 26.515 min Scan# 3949

Delta R.T. -0.023 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2022

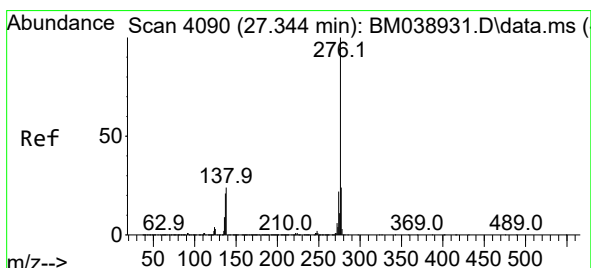
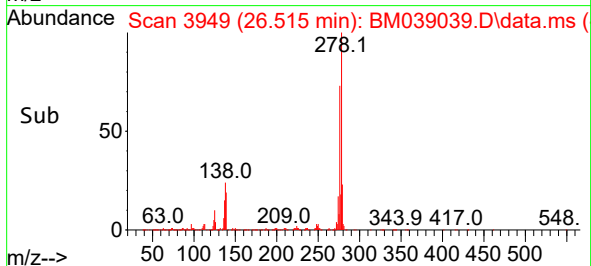
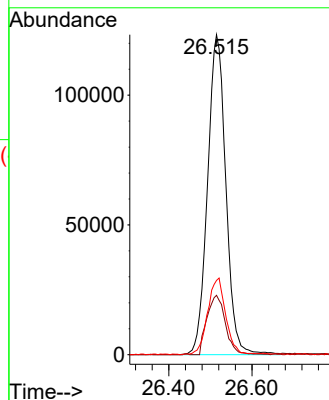
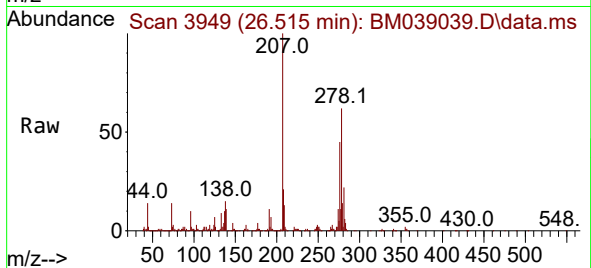
Tgt Ion:278 Resp: 376839

Ion Ratio Lower Upper

278 100

139 18.5 13.7 20.5

279 23.2 18.9 28.3



#92

Benzo(g,h,i)perylene

Concen: 3.116 ng

RT: 27.274 min Scan# 4078

Delta R.T. -0.029 min

Lab File: BM039039.D

Acq: 20 Mar 2023 11:38

Tgt Ion:276 Resp: 360447

Ion Ratio Lower Upper

276 100

277 23.4 19.3 28.9

138 26.5 19.0 28.6

