

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021224\  
 Data File : BM044052.D  
 Acq On : 12 Feb 2024 12:17  
 Operator : MA/JU  
 Sample : 03572-03  
 Misc : MDL-MDL-SOIL-4PPM  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2023

Quant Time: Feb 12 12:49:46 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 09 02:42:01 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.904  | 152  | 344551   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.710 | 136  | 1675474  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.551 | 164  | 1013399  | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.298 | 188  | 1977086  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.503 | 240  | 1618787  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.897 | 264  | 1818477  | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.475  | 112  | 3453520  | 145.781 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.075  | 99   | 4825807  | 160.105 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.075  | 82   | 2586556  | 81.918  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.045 | 330  | 1477409  | 134.648 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.180 | 172  | 5776208  | 80.443  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.945 | 244  | 7200315  | 77.974  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.387  | 88   | 39648    | 4.217   | ng    | 99       |
| 3) Pyridine                   | 3.793  | 79   | 95915    | 3.864   | ng    | # 94     |
| 4) n-Nitrosodimethylamine     | 3.710  | 42   | 40490    | 4.299   | ng    | # 89     |
| 6) Aniline                    | 7.239  | 93   | 153494   | 5.179   | ng    | 98       |
| 8) 2-Chlorophenol             | 7.469  | 128  | 97102    | 3.925   | ng    | 97       |
| 9) Benzaldehyde               | 7.057  | 77   | 89086    | 5.751   | ng    | 95       |
| 10) Phenol                    | 7.098  | 94   | 143574   | 4.720   | ng    | 93       |
| 11) bis(2-Chloroethyl)ether   | 7.339  | 93   | 109341   | 4.341   | ng    | 96       |
| 12) 1,3-Dichlorobenzene       | 7.792  | 146  | 102970   | 3.666   | ng    | 100      |
| 13) 1,4-Dichlorobenzene       | 7.939  | 146  | 105913   | 3.741   | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.257  | 146  | 101424   | 3.760   | ng    | 99       |
| 15) Benzyl Alcohol            | 8.151  | 79   | 91678    | 4.671   | ng    | 97       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.439  | 45   | 148653   | 4.655   | ng    | 97       |
| 17) 2-Methylphenol            | 8.351  | 107  | 87793    | 4.397   | ng    | 97       |
| 18) Hexachloroethane          | 8.975  | 117  | 37255    | 3.514   | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 8.716  | 70   | 85210    | 4.604   | ng    | 97       |
| 20) 3+4-Methylphenols         | 8.681  | 107  | 113027   | 4.113   | ng    | 94       |
| 22) Acetophenone              | 8.739  | 105  | 172678   | 4.060   | ng    | # 96     |
| 24) Nitrobenzene              | 9.116  | 77   | 129849   | 4.016   | ng    | 98       |
| 25) Isophorone                | 9.639  | 82   | 218782   | 3.598   | ng    | 97       |
| 26) 2-Nitrophenol             | 9.828  | 139  | 44564    | 2.973   | ng    | 92       |
| 27) 2,4-Dimethylphenol        | 9.886  | 122  | 83207    | 4.341   | ng    | 97       |
| 28) bis(2-Chloroethoxy)met... | 10.133 | 93   | 152063   | 3.867   | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 10.351 | 162  | 85536    | 3.389   | ng    | 95       |
| 30) 1,2,4-Trichlorobenzene    | 10.569 | 180  | 101324   | 3.571   | ng    | 99       |
| 31) Naphthalene               | 10.757 | 128  | 346114   | 3.743   | ng    | 99       |
| 33) 4-Chloroaniline           | 10.880 | 127  | 134898   | 3.852   | ng    | 97       |
| 34) Hexachlorobutadiene       | 11.033 | 225  | 54089    | 3.330   | ng    | 92       |
| 35) Caprolactam               | 11.651 | 113  | 23482    | 2.892   | ng    | 96       |
| 36) 4-Chloro-3-methylphenol   | 11.998 | 107  | 89575    | 3.278   | ng    | 97       |
| 37) 2-Methylnaphthalene       | 12.374 | 142  | 226978   | 3.685   | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.592 | 142  | 228330   | 3.772   | ng    | 97       |
| 40) 1,2,4,5-Tetrachloroben... | 12.733 | 216  | 111812   | 3.796   | ng    | 100      |
| 41) Hexachlorocyclopentadiene | 12.704 | 237  | 50665    | 3.941   | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 12.980 | 196  | 60664    | 3.026   | ng    | 99       |
| 44) 2,4,5-Trichlorophenol     | 13.045 | 196  | 67020    | 3.046   | ng    | 97       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021224\  
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 Operator : MA/JU  
 Sample : 03572-03  
 Misc : MDL-MDL-SOIL-4PPM  
 ALS Vial : 5 Sample Multiplier: 1

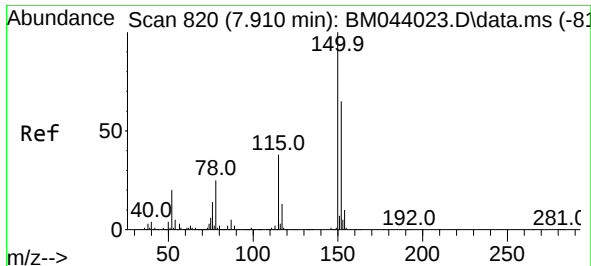
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2023

Quant Time: Feb 12 12:49:46 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 09 02:42:01 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) 1,1'-Biphenyl             | 13.386 | 154  | 307239   | 3.842 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.421 | 162  | 234550   | 3.703 | ng    | 99       |
| 48) 2-Nitroaniline            | 13.639 | 65   | 53002    | 2.974 | ng    | 89       |
| 49) Acenaphthylene            | 14.268 | 152  | 368079   | 3.895 | ng    | 99       |
| 50) Dimethylphthalate         | 14.015 | 163  | 269632   | 3.588 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.139 | 165  | 47433    | 2.861 | ng    | # 87     |
| 52) Acenaphthene              | 14.610 | 154  | 214490   | 3.667 | ng    | 99       |
| 53) 3-Nitroaniline            | 14.468 | 138  | 50449    | 2.832 | ng    | # 95     |
| 54) 2,4-Dinitrophenol         | 14.668 | 184  | 15159    | 7.005 | ng    | 91       |
| 55) Dibenzofuran              | 14.951 | 168  | 353404   | 3.904 | ng    | 99       |
| 56) 4-Nitrophenol             | 14.768 | 139  | 30346    | 2.095 | ng    | 92       |
| 57) 2,4-Dinitrotoluene        | 14.921 | 165  | 58452    | 2.698 | ng    | 93       |
| 58) Fluorene                  | 15.598 | 166  | 272052   | 3.889 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.174 | 232  | 57428    | 3.327 | ng    | 99       |
| 60) Diethylphthalate          | 15.380 | 149  | 259883   | 3.347 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.598 | 204  | 132767   | 3.917 | ng    | 96       |
| 62) 4-Nitroaniline            | 15.627 | 138  | 44797    | 2.498 | ng    | 87       |
| 63) Azobenzene                | 15.892 | 77   | 247695   | 3.400 | ng    | 97       |
| 65) 4,6-Dinitro-2-methylph... | 15.680 | 198  | 23730    | 2.014 | ng    | 87       |
| 66) n-Nitrosodiphenylamine    | 15.815 | 169  | 216010   | 3.596 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.498 | 248  | 65869    | 3.370 | ng    | 96       |
| 68) Hexachlorobenzene         | 16.592 | 284  | 86784    | 3.624 | ng    | 95       |
| 69) Atrazine                  | 16.774 | 200  | 64845    | 3.987 | ng    | 98       |
| 70) Pentachlorophenol         | 16.945 | 266  | 36225    | 2.326 | ng    | 97       |
| 71) Phenanthrene              | 17.339 | 178  | 407375   | 3.902 | ng    | 99       |
| 72) Anthracene                | 17.433 | 178  | 384004   | 3.715 | ng    | 99       |
| 73) Carbazole                 | 17.709 | 167  | 339715   | 3.380 | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.286 | 149  | 373346   | 2.857 | ng    | 99       |
| 75) Fluoranthene              | 19.362 | 202  | 407147   | 3.472 | ng    | 99       |
| 78) Pyrene                    | 19.727 | 202  | 429017   | 3.441 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.650 | 149  | 130601   | 2.357 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.486 | 228  | 403938   | 3.587 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 21.427 | 252  | 118639   | 3.211 | ng    | 99       |
| 83) Chrysene                  | 21.539 | 228  | 389215   | 3.659 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.439 | 149  | 199005   | 2.434 | ng    | 98       |
| 85) Di-n-octyl phthalate      | 22.374 | 149  | 305912   | 2.142 | ng    | # 97     |
| 87) Indeno(1,2,3-cd)pyrene    | 26.379 | 276  | 454439   | 3.531 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 23.168 | 252  | 389087   | 3.423 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.215 | 252  | 376935   | 3.490 | ng    | 98       |
| 90) Benzo(a)pyrene            | 23.791 | 252  | 326985   | 3.293 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 26.403 | 278  | 382542   | 3.553 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 27.138 | 276  | 374735   | 3.432 | ng    | 97       |

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

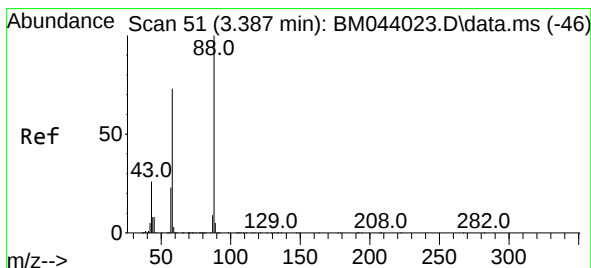
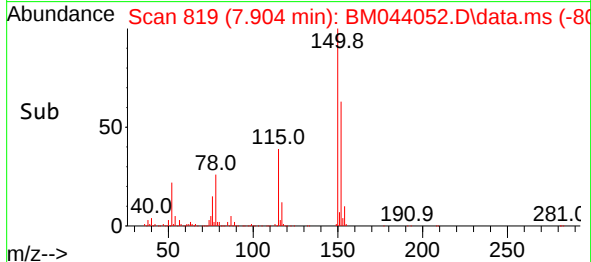
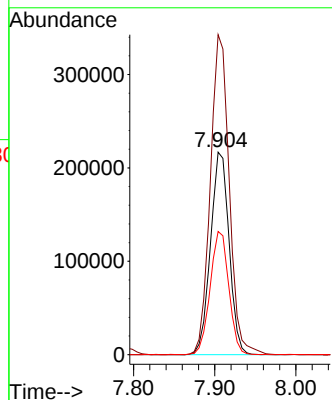
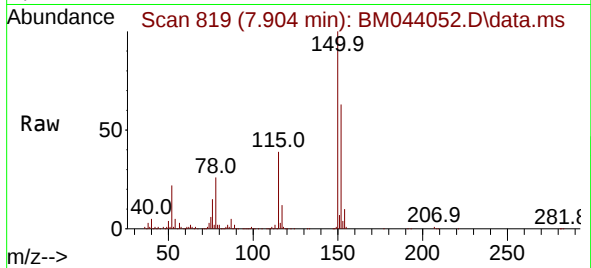




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.904 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

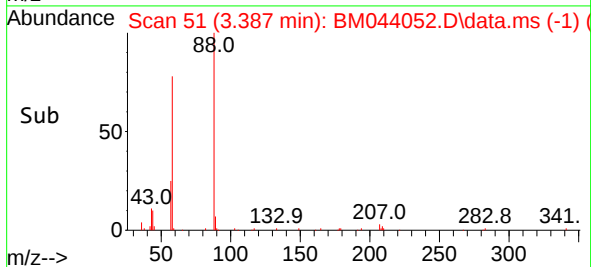
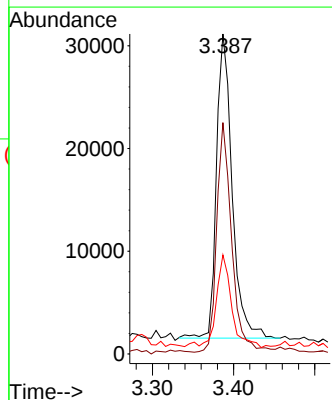
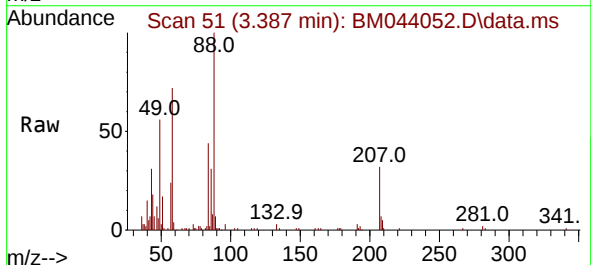
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

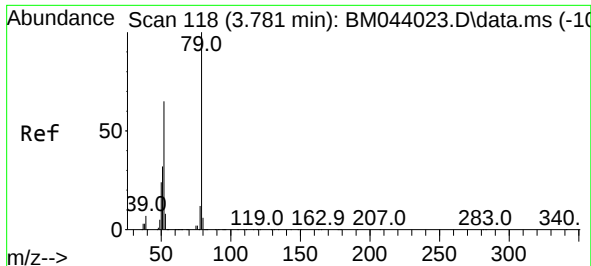
Tgt Ion:152 Resp: 344551  
Ion Ratio Lower Upper  
152 100  
150 158.0 122.7 184.1  
115 60.9 47.0 70.6



#2  
1,4-Dioxane  
Concen: 4.217 ng  
RT: 3.387 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion: 88 Resp: 39648  
Ion Ratio Lower Upper  
88 100  
58 72.2 58.1 87.1  
43 28.2 21.1 31.7

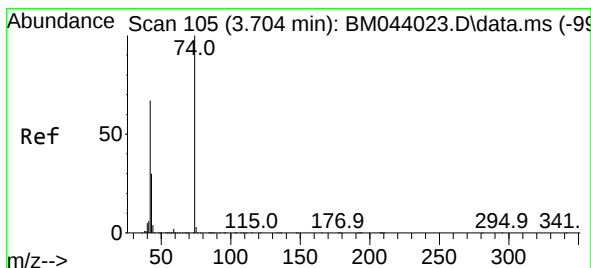
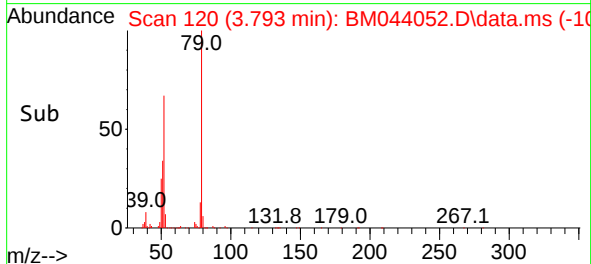
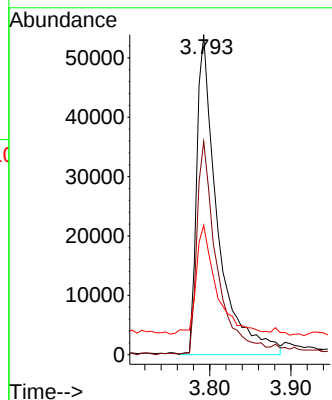
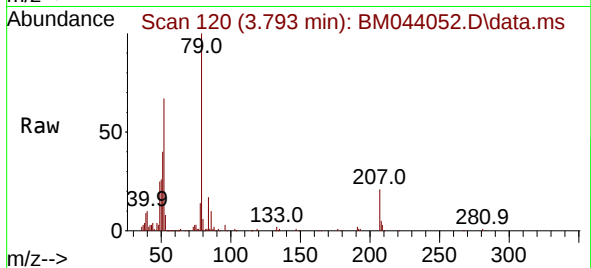




#3  
Pyridine  
Concen: 3.864 ng  
RT: 3.793 min Scan# 118  
Delta R.T. 0.012 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

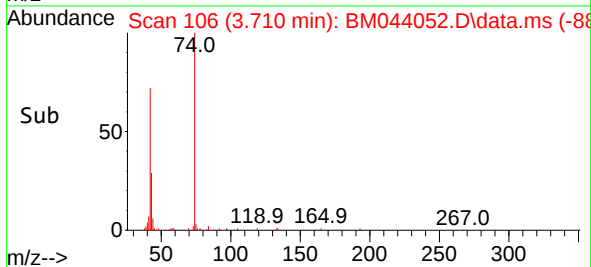
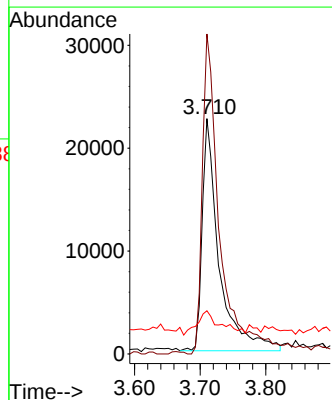
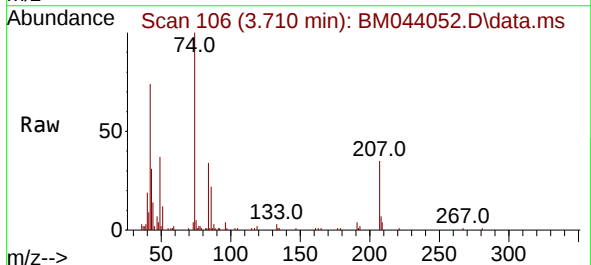
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

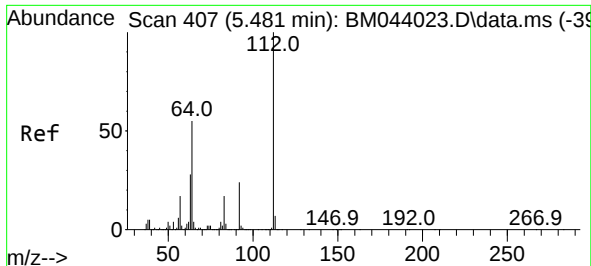
Tgt Ion: 79 Resp: 95915  
Ion Ratio Lower Upper  
79 100  
52 66.6 52.2 78.2  
51 40.5 26.2 39.4#



#4  
n-Nitrosodimethylamine  
Concen: 4.299 ng  
RT: 3.710 min Scan# 106  
Delta R.T. 0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion: 42 Resp: 40490  
Ion Ratio Lower Upper  
42 100  
74 136.0 118.6 178.0  
44 18.4 5.6 8.4#

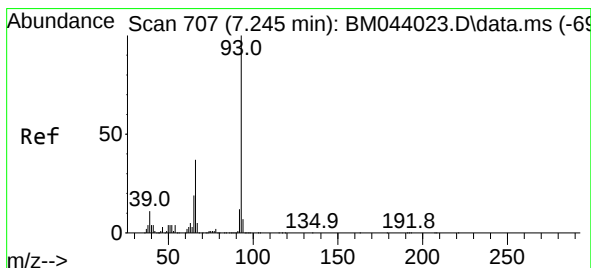
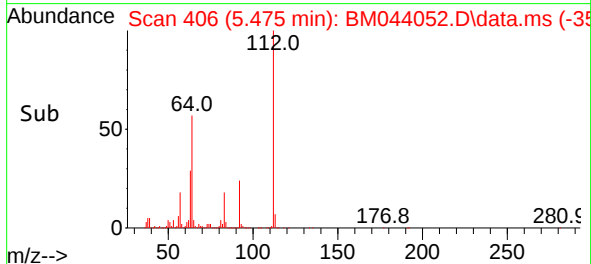
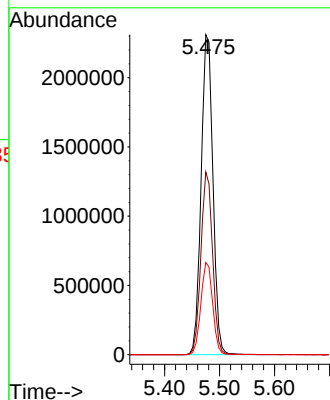
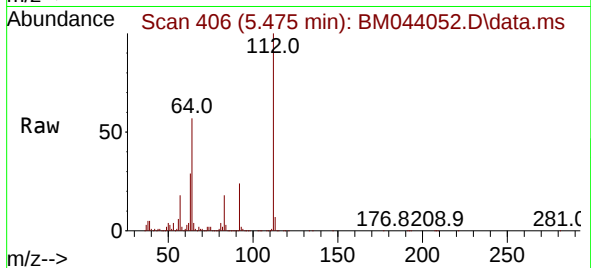




#5  
2-Fluorophenol  
Concen: 145.781 ng  
RT: 5.475 min Scan# 407  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

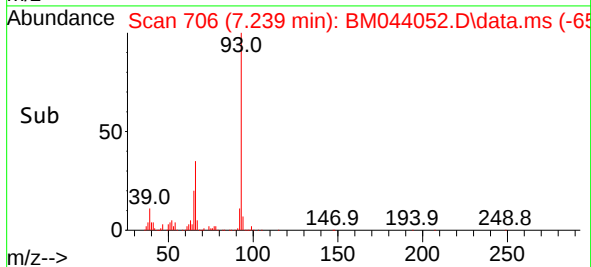
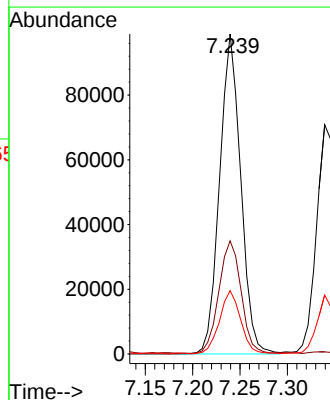
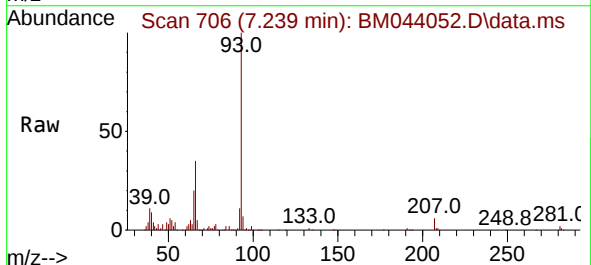
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

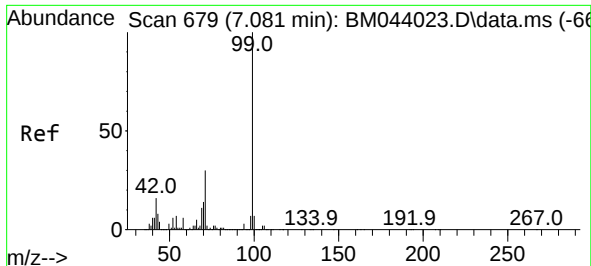
Tgt Ion:112 Resp: 3453520  
Ion Ratio Lower Upper  
112 100  
64 57.1 44.2 66.4  
63 28.8 22.6 34.0



#6  
Aniline  
Concen: 5.179 ng  
RT: 7.239 min Scan# 706  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion: 93 Resp: 153494  
Ion Ratio Lower Upper  
93 100  
66 35.4 29.4 44.0  
65 19.8 15.2 22.8



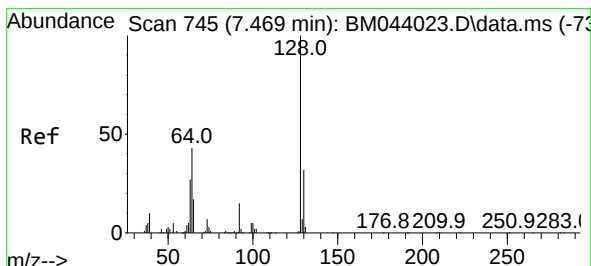
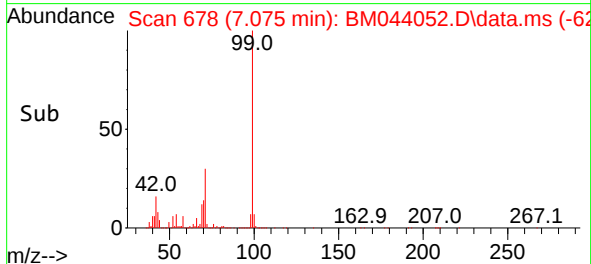
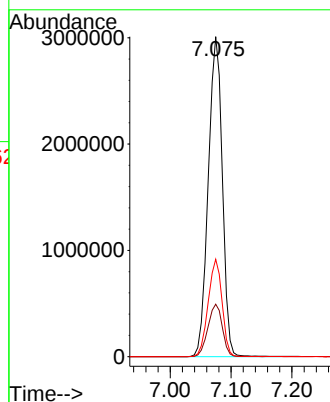
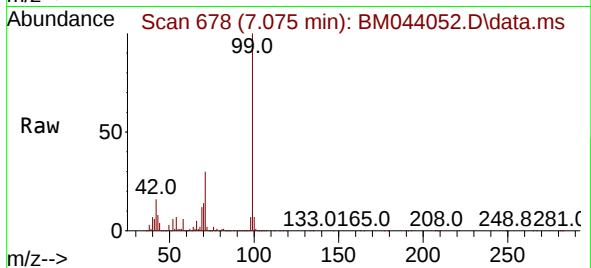


#7  
Phenol-d6  
Concen: 160.105 ng  
RT: 7.075 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

Tgt Ion: 99 Resp: 4825807

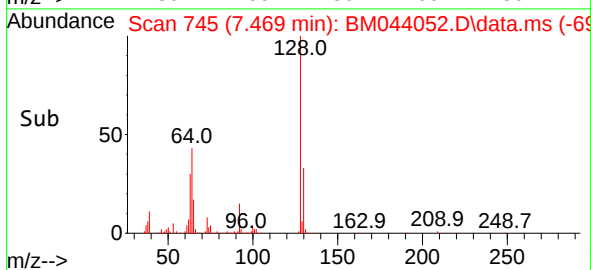
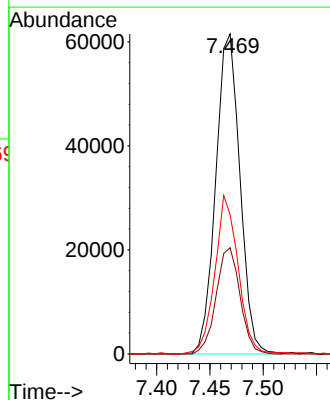
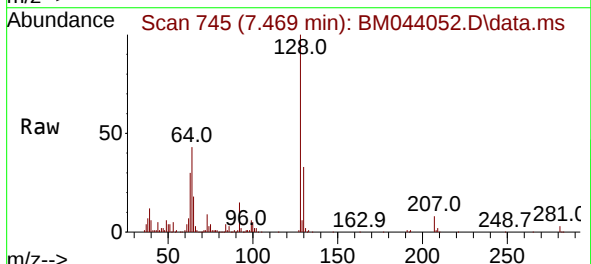
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 16.4  | 12.9  | 19.3  |
| 71  | 30.5  | 23.9  | 35.9  |

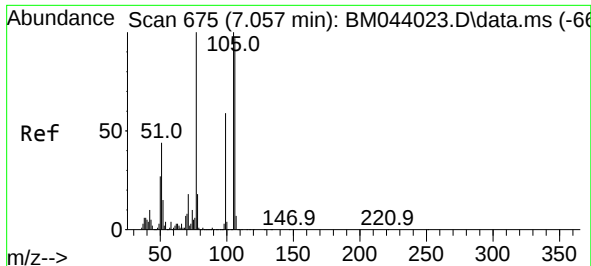


#8  
2-Chlorophenol  
Concen: 3.925 ng  
RT: 7.469 min Scan# 745  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion: 128 Resp: 97102

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 130 | 33.2  | 12.1  | 52.1  |
| 64  | 43.5  | 26.0  | 66.0  |

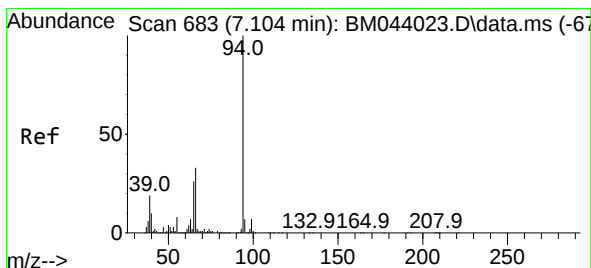
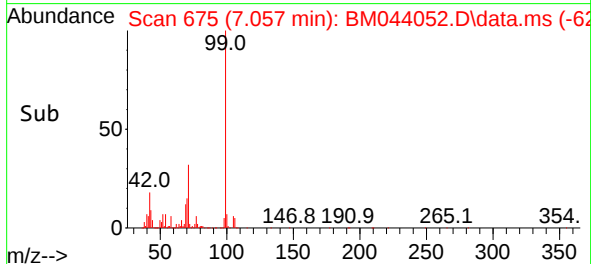
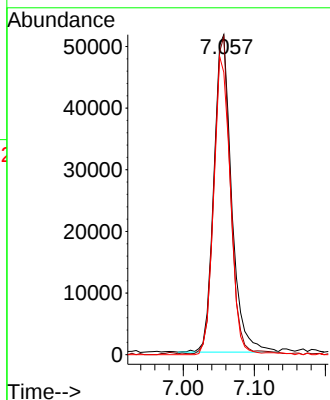
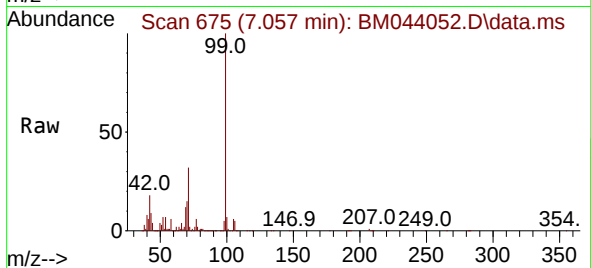




#9  
Benzaldehyde  
Concen: 5.751 ng  
RT: 7.057 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

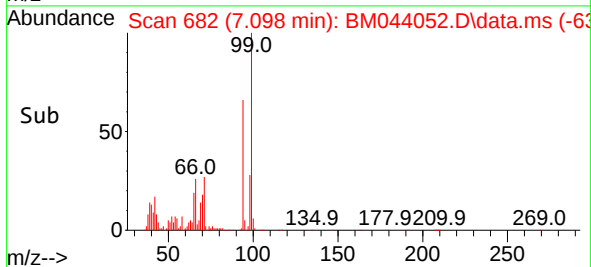
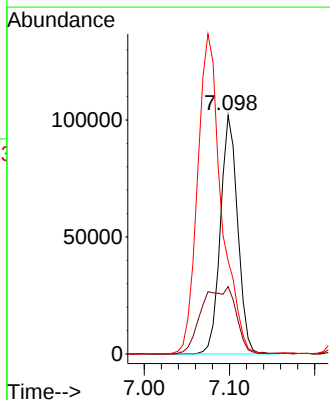
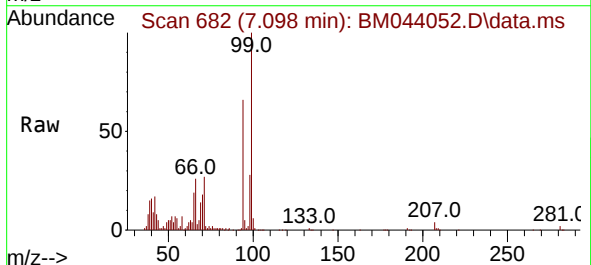
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

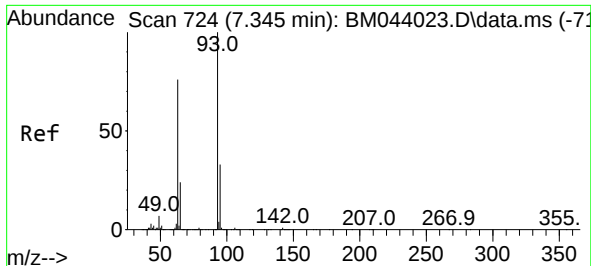
Tgt Ion: 77 Resp: 89086  
Ion Ratio Lower Upper  
77 100  
105 99.4 80.0 120.0  
106 88.3 76.8 116.8



#10  
Phenol  
Concen: 4.720 ng  
RT: 7.098 min Scan# 682  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion: 94 Resp: 143574  
Ion Ratio Lower Upper  
94 100  
65 28.3 6.4 46.4  
66 39.0 13.2 53.2

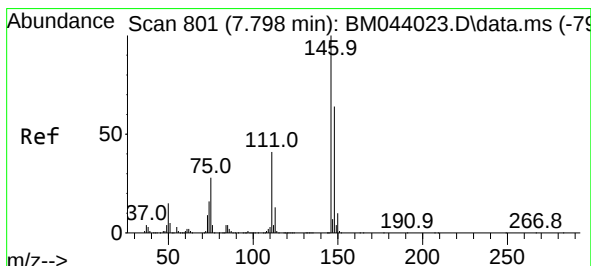
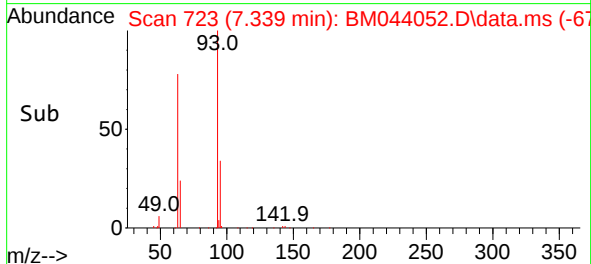
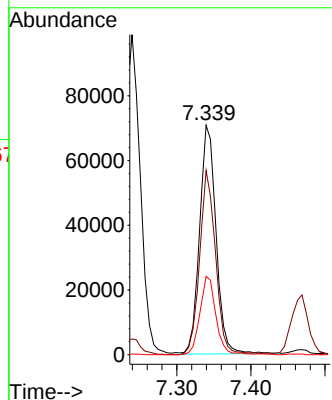
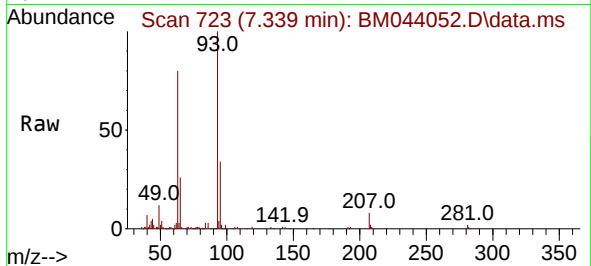




#11  
bis(2-Chloroethyl)ether  
Concen: 4.341 ng  
RT: 7.339 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

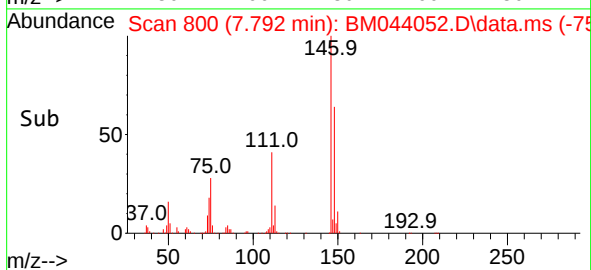
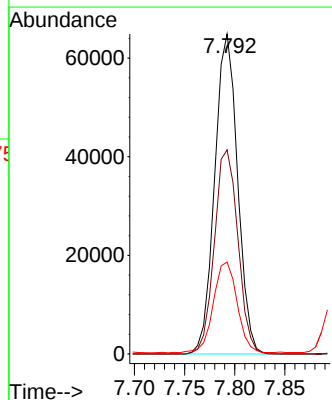
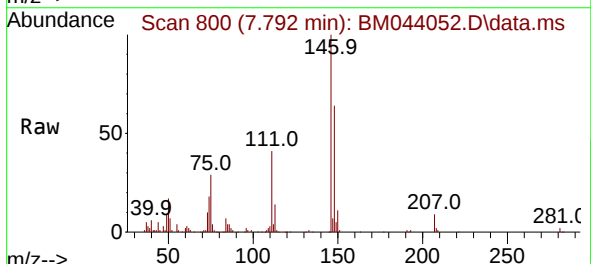
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

Tgt Ion: 93 Resp: 109341  
Ion Ratio Lower Upper  
93 100  
63 80.3 55.9 95.9  
95 34.1 13.0 53.0



#12  
1,3-Dichlorobenzene  
Concen: 3.666 ng  
RT: 7.792 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:146 Resp: 102970  
Ion Ratio Lower Upper  
146 100  
148 63.8 51.3 76.9  
75 28.7 22.7 34.1

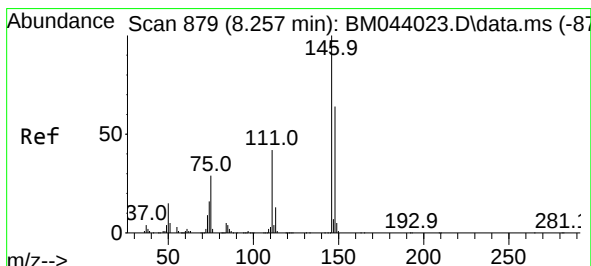
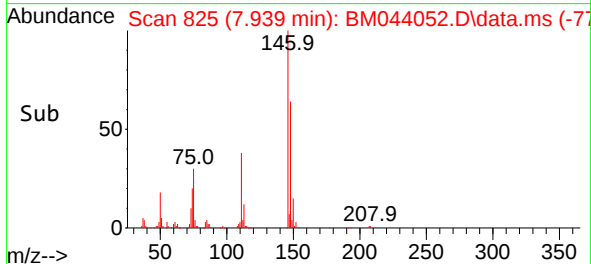
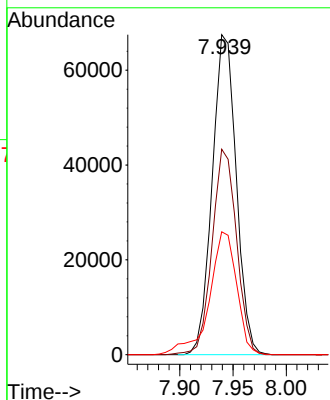
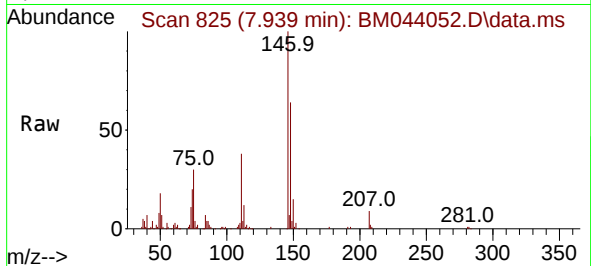




#13  
1,4-Dichlorobenzene  
Concen: 3.741 ng  
RT: 7.939 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

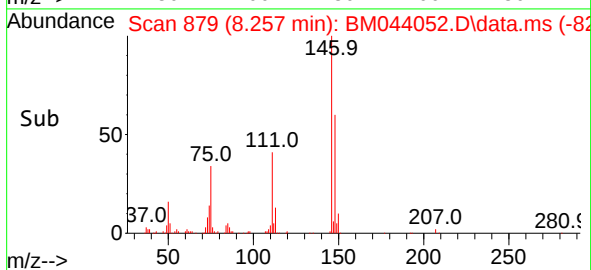
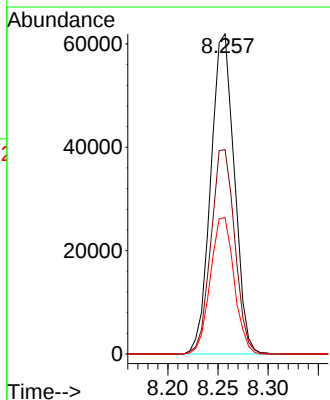
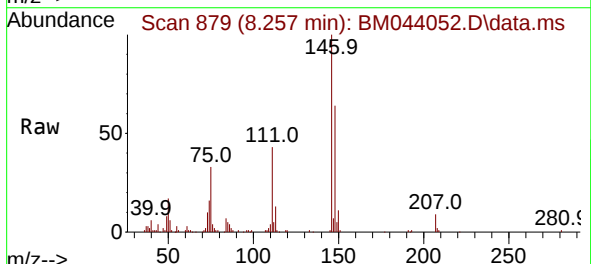
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

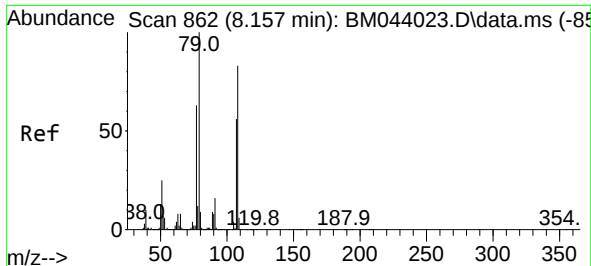
Tgt Ion:146 Resp: 105913  
Ion Ratio Lower Upper  
146 100  
148 64.2 51.2 76.8  
111 38.4 31.2 46.8



#14  
1,2-Dichlorobenzene  
Concen: 3.760 ng  
RT: 8.257 min Scan# 879  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:146 Resp: 101424  
Ion Ratio Lower Upper  
146 100  
148 63.9 51.4 77.2  
111 42.6 33.7 50.5

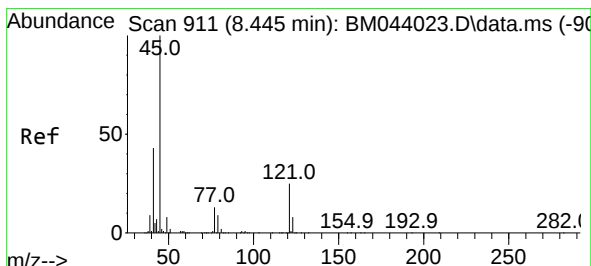
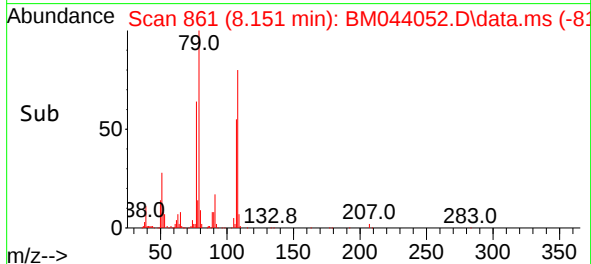
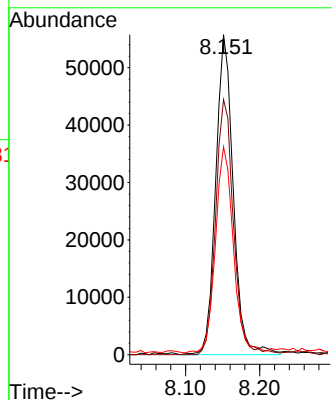
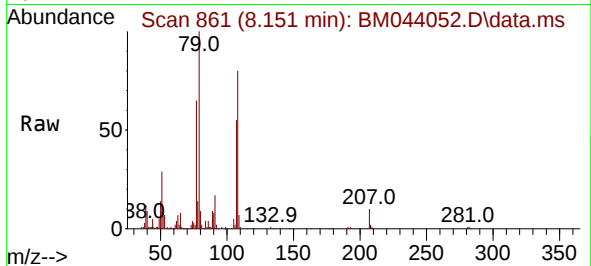




#15  
Benzyl Alcohol  
Concen: 4.671 ng  
RT: 8.151 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

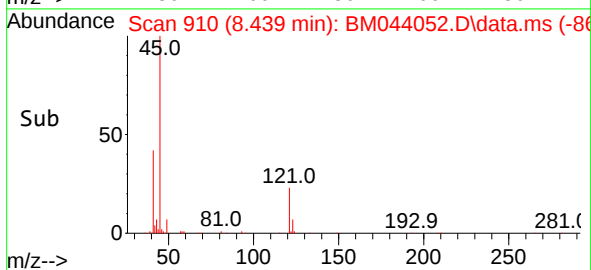
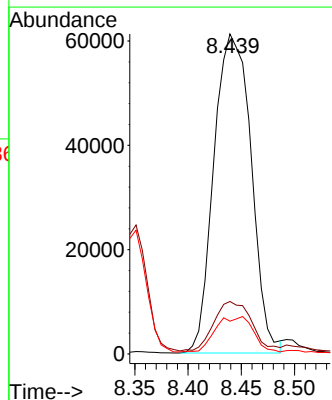
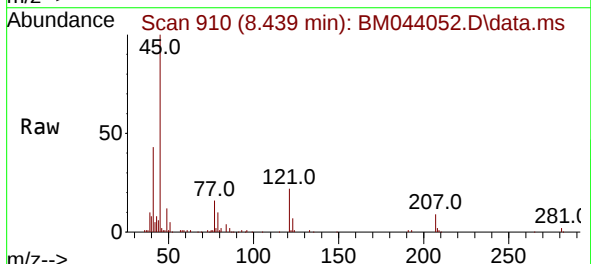
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

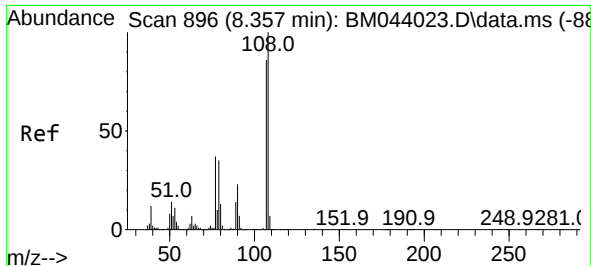
Tgt Ion: 79 Resp: 91678  
Ion Ratio Lower Upper  
79 100  
108 79.8 66.0 99.0  
77 64.9 50.4 75.6



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 4.655 ng  
RT: 8.439 min Scan# 910  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion: 45 Resp: 148653  
Ion Ratio Lower Upper  
45 100  
77 16.4 0.0 35.1  
79 10.3 0.0 31.5

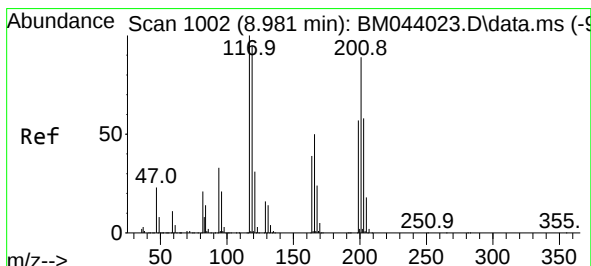
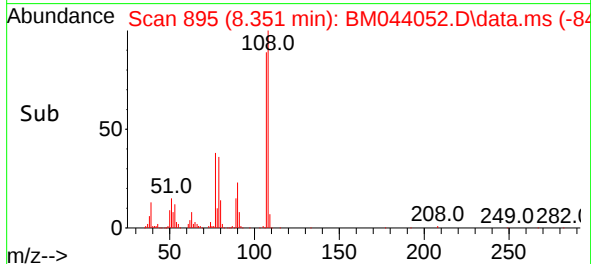
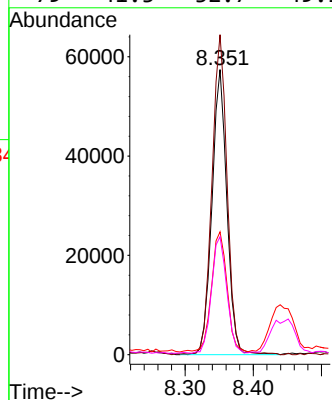
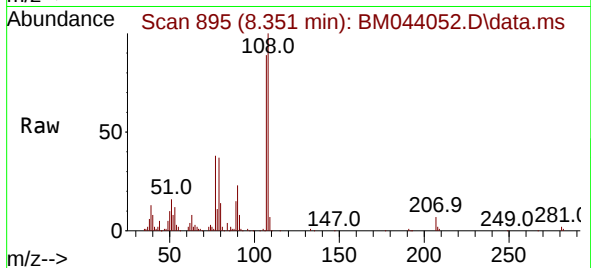




#17  
2-Methylphenol  
Concen: 4.397 ng  
RT: 8.351 min Scan# 895  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

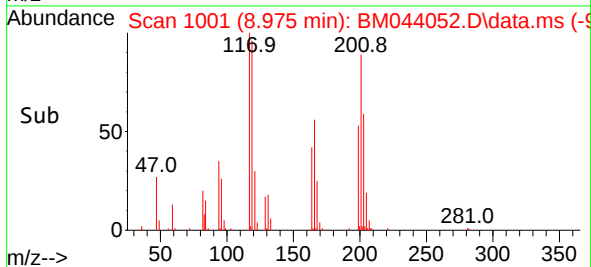
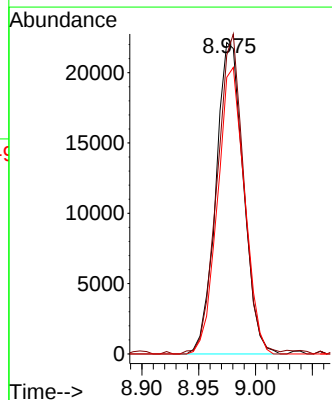
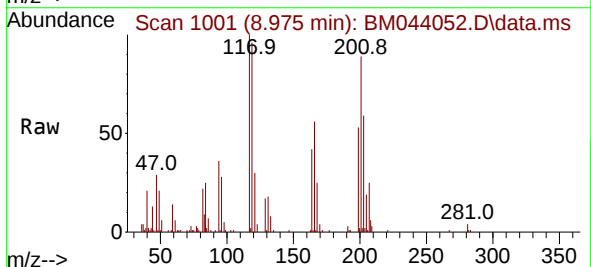
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

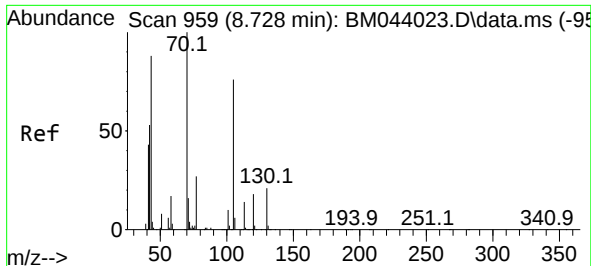
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 87793 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 112.2 | 93.4  | 140.2 |
| 77       | 43.1  | 34.7  | 52.1  |
| 79       | 41.3  | 32.7  | 49.1  |



#18  
Hexachloroethane  
Concen: 3.514 ng  
RT: 8.975 min Scan# 1001  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 37255 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 96.0  | 75.7  | 113.5 |
| 201      | 90.9  | 71.5  | 107.3 |

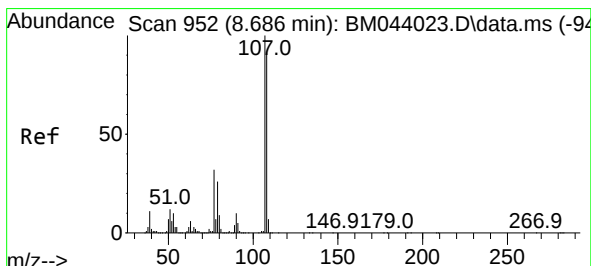
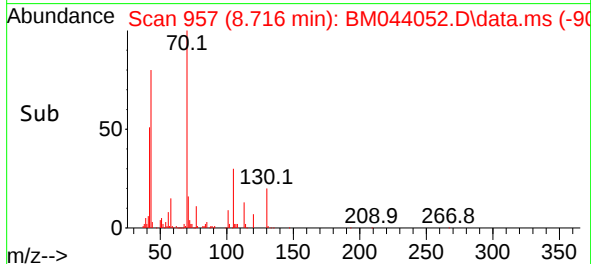
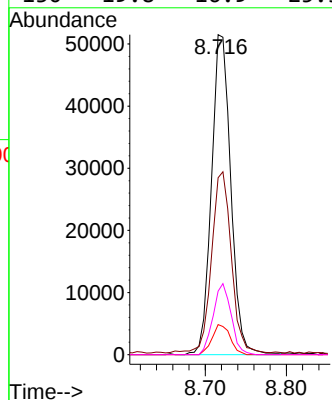
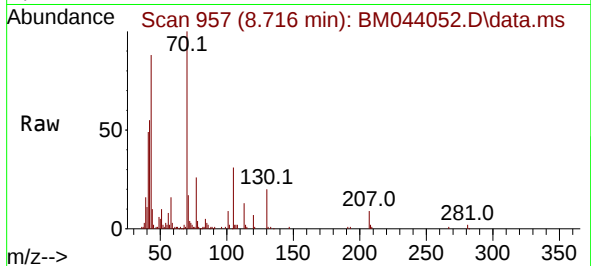




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.604 ng  
RT: 8.716 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

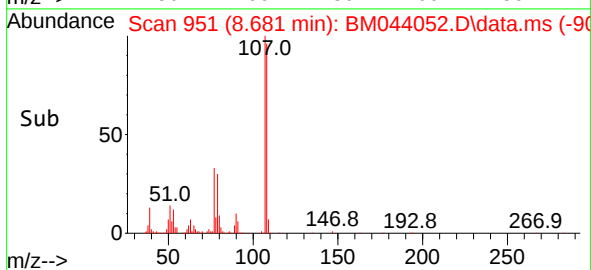
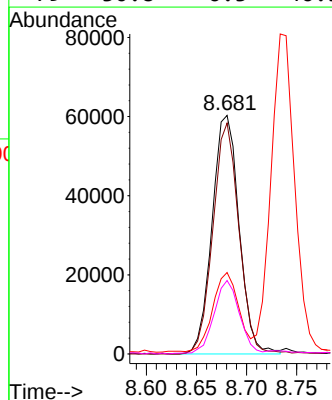
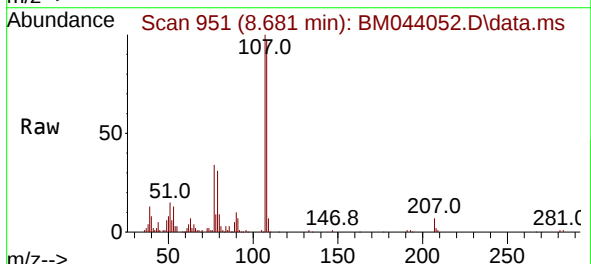
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

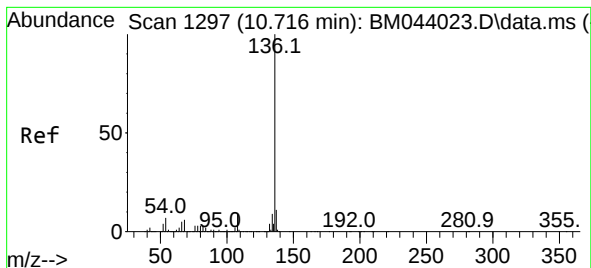
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 85210 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 55.3  | 42.6  | 64.0  |
| 101      | 9.4   | 7.8   | 11.6  |
| 130      | 19.8  | 16.9  | 25.3  |



#20  
3+4-Methylphenols  
Concen: 4.113 ng  
RT: 8.681 min Scan# 951  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 113027 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 96.8  | 71.5  | 111.5  |
| 77       | 34.1  | 11.8  | 51.8   |
| 79       | 30.8  | 6.3   | 46.3   |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.710 min Scan# 1297

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion:136 Resp: 1675474

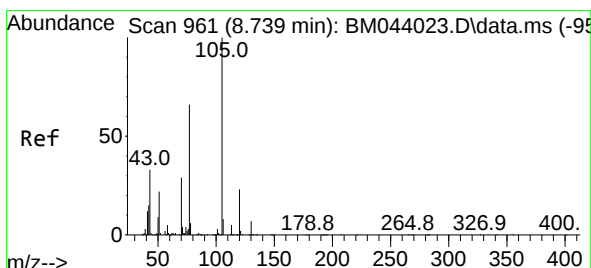
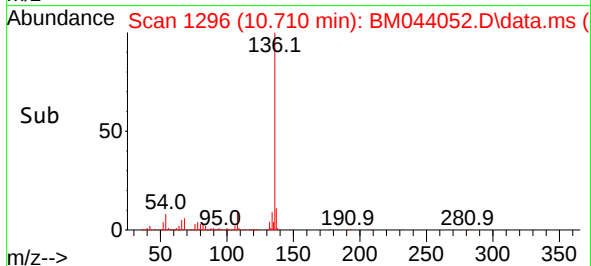
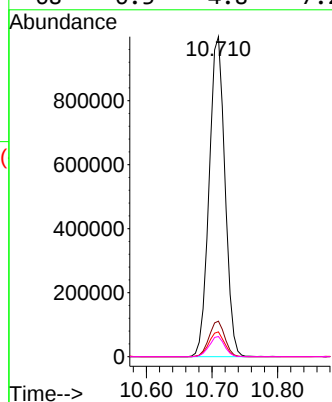
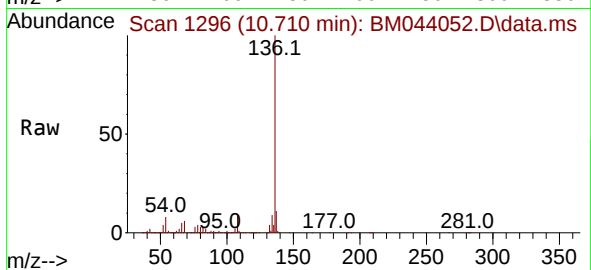
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 7.7 5.9 8.9

68 6.3 4.8 7.2



#22

Acetophenone

Concen: 4.060 ng

RT: 8.739 min Scan# 961

Delta R.T. -0.000 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Tgt Ion:105 Resp: 172678

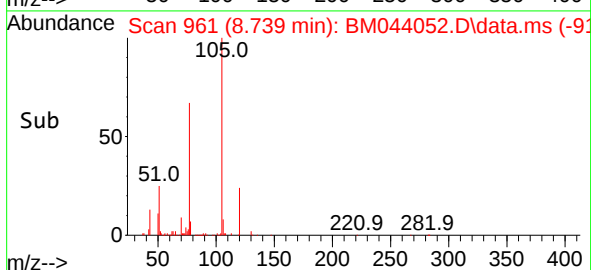
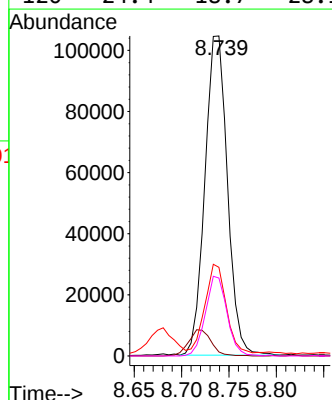
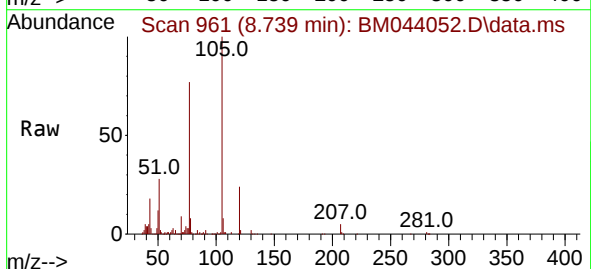
Ion Ratio Lower Upper

105 100

71 1.3 4.0 6.0#

51 27.7 20.1 30.1

120 24.4 18.7 28.1

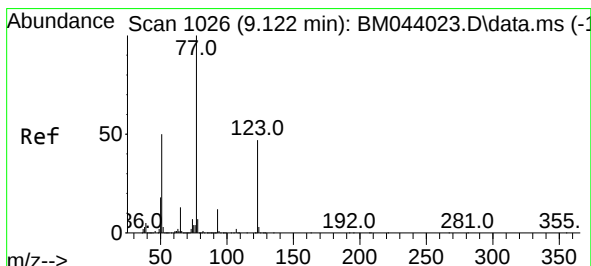
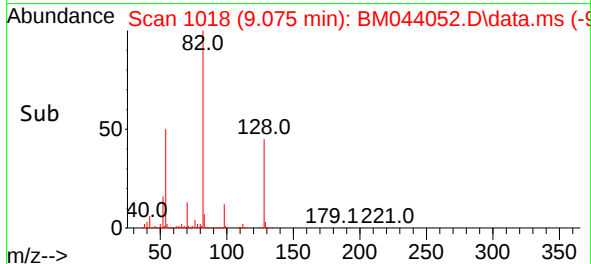
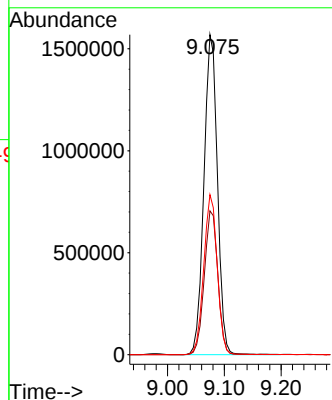
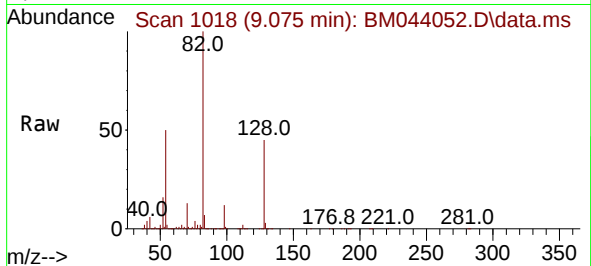




#23  
Nitrobenzene-d5  
Concen: 81.918 ng  
RT: 9.075 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

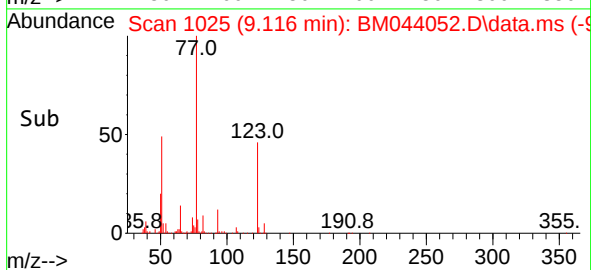
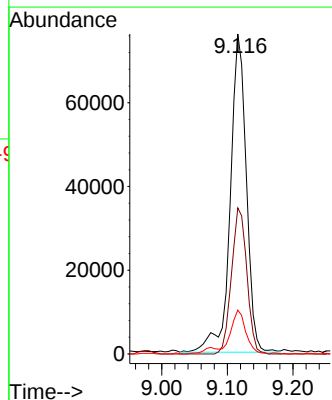
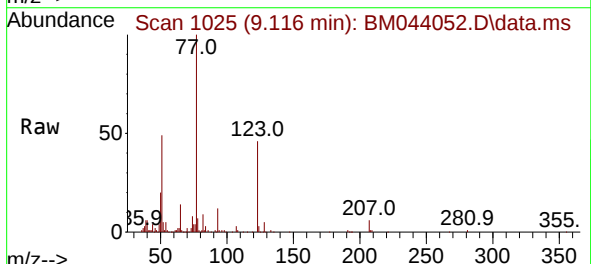
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

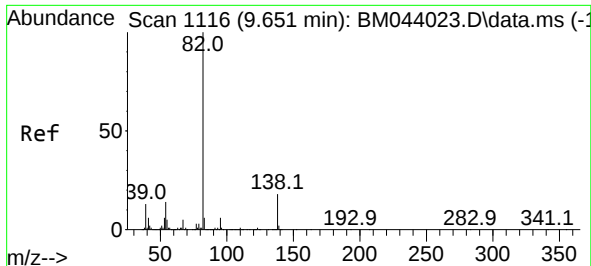
Tgt Ion: 82 Resp: 2586556  
Ion Ratio Lower Upper  
82 100  
128 44.9 37.1 55.7  
54 50.0 38.9 58.3



#24  
Nitrobenzene  
Concen: 4.016 ng  
RT: 9.116 min Scan# 1025  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion: 77 Resp: 129849  
Ion Ratio Lower Upper  
77 100  
123 45.7 37.8 56.8  
65 13.7 10.5 15.7

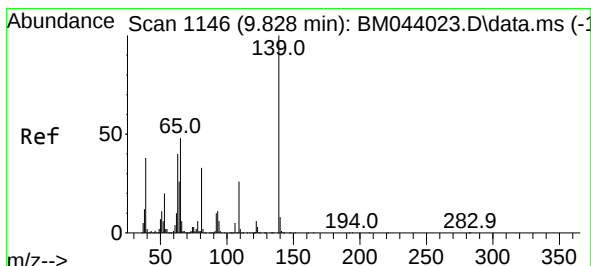
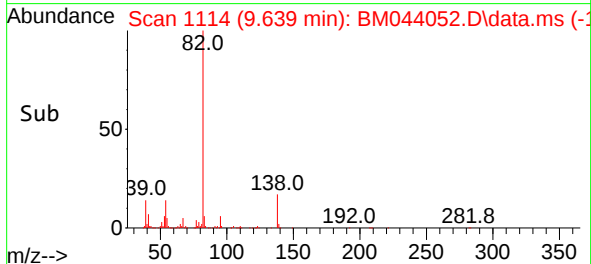
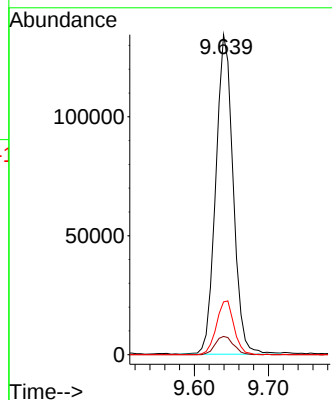
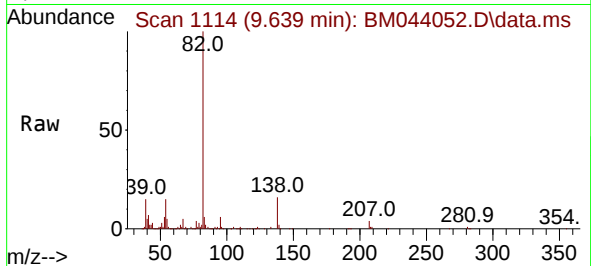




#25  
Isophorone  
Concen: 3.598 ng  
RT: 9.639 min Scan# 1114  
Delta R.T. -0.012 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

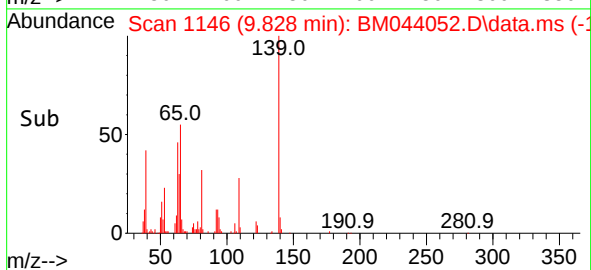
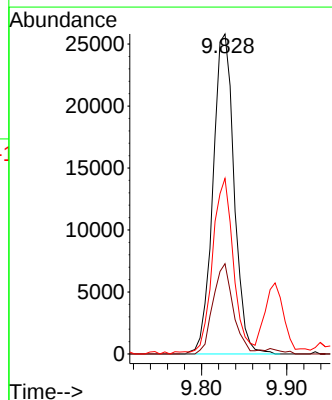
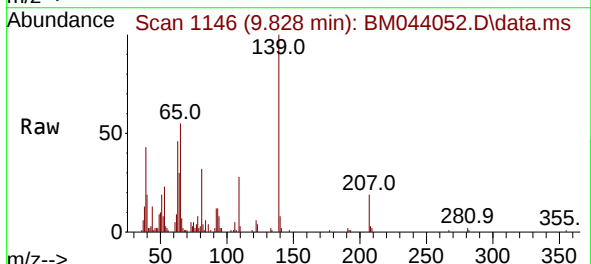
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

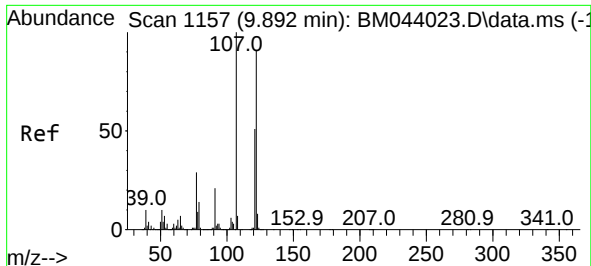
Tgt Ion: 82 Resp: 218782  
Ion Ratio Lower Upper  
82 100  
95 5.7 5.2 7.8  
138 16.5 14.3 21.5



#26  
2-Nitrophenol  
Concen: 2.973 ng  
RT: 9.828 min Scan# 1146  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:139 Resp: 44564  
Ion Ratio Lower Upper  
139 100  
109 28.2 21.2 31.8  
65 54.8 38.5 57.7

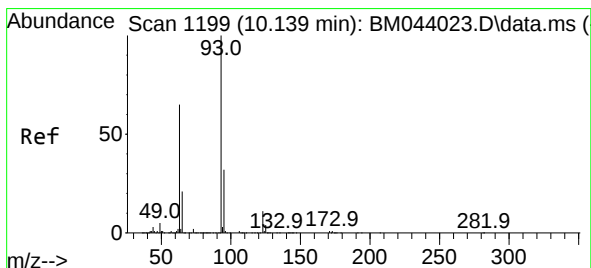
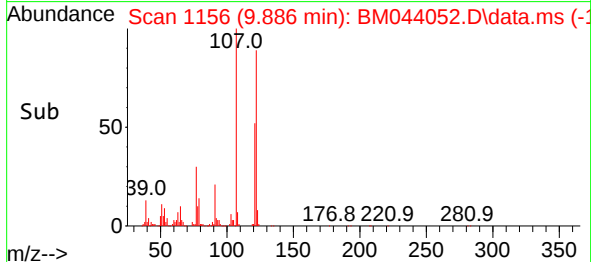
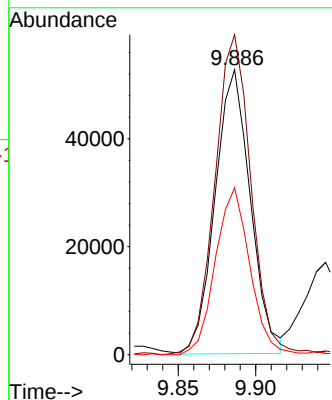
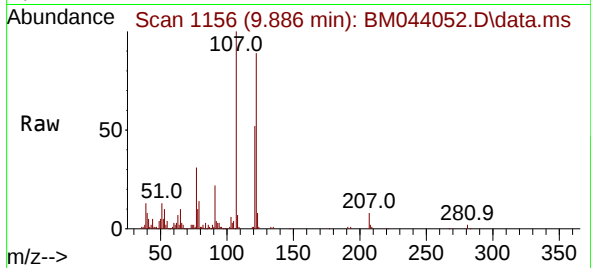




#27  
2,4-Dimethylphenol  
Concen: 4.341 ng  
RT: 9.886 min Scan# 1156  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

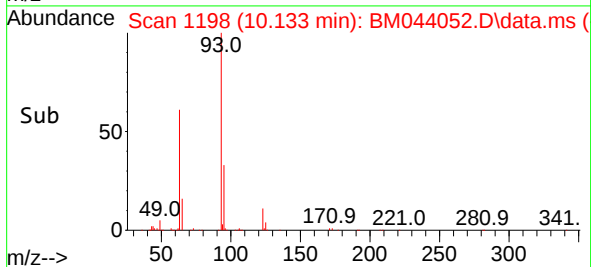
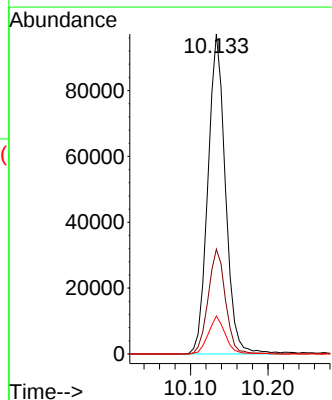
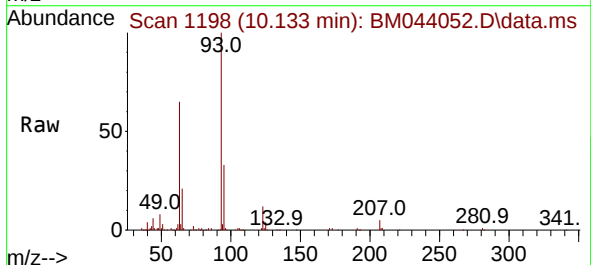
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

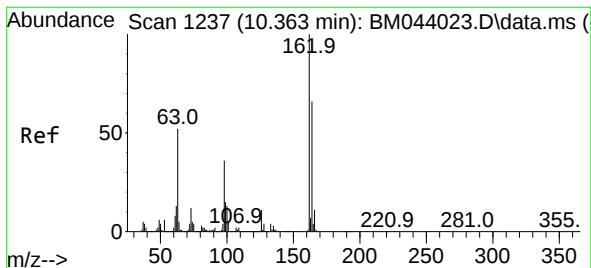
Tgt Ion:122 Resp: 83207  
Ion Ratio Lower Upper  
122 100  
107 112.3 87.8 131.8  
121 58.6 44.7 67.1



#28  
bis(2-Chloroethoxy)methane  
Concen: 3.867 ng  
RT: 10.133 min Scan# 1198  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion: 93 Resp: 152063  
Ion Ratio Lower Upper  
93 100  
95 32.7 26.0 39.0  
123 11.8 9.2 13.8





#29

2,4-Dichlorophenol

Concen: 3.389 ng

RT: 10.351 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

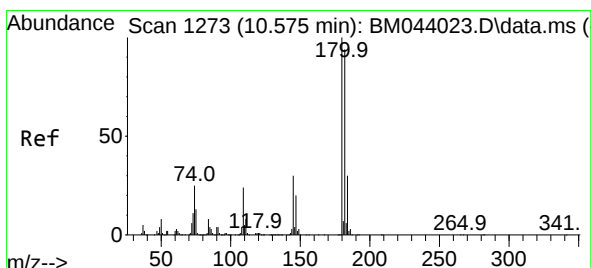
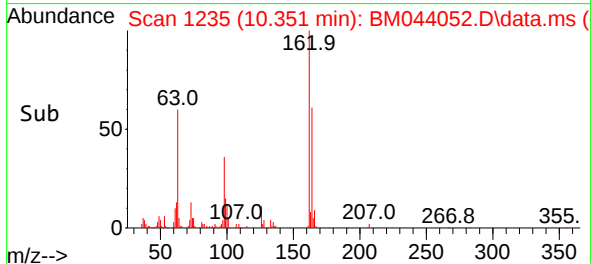
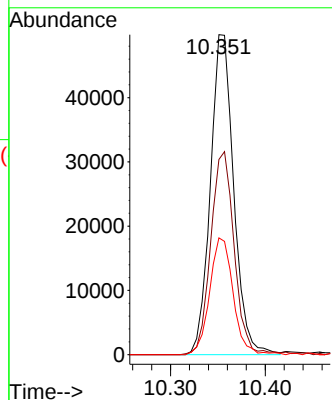
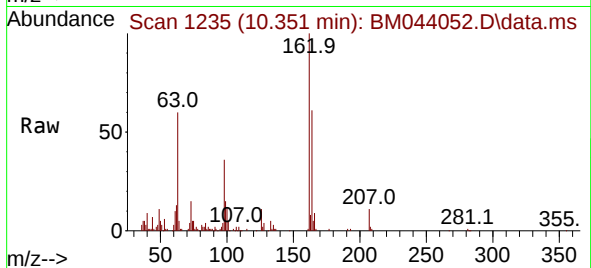
Tgt Ion:162 Resp: 85536

Ion Ratio Lower Upper

162 100

164 61.0 46.1 86.1

98 36.5 15.9 55.9



#30

1,2,4-Trichlorobenzene

Concen: 3.571 ng

RT: 10.569 min Scan# 1272

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

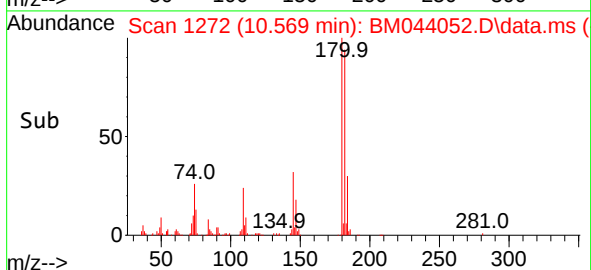
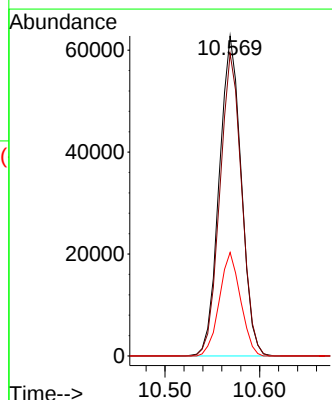
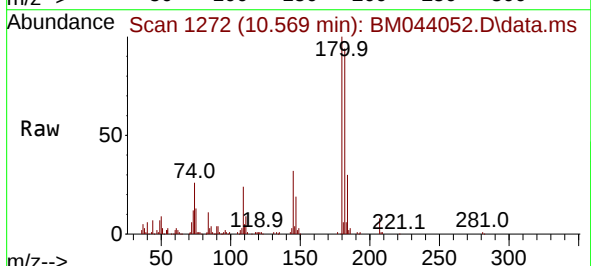
Tgt Ion:180 Resp: 101324

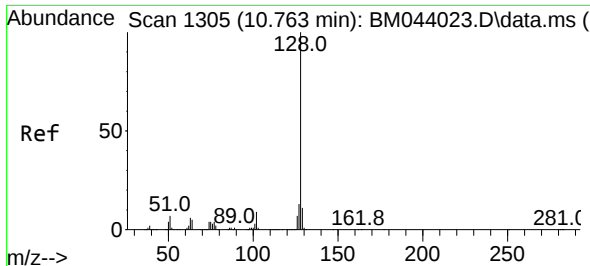
Ion Ratio Lower Upper

180 100

182 94.5 75.2 112.8

145 32.3 24.3 36.5

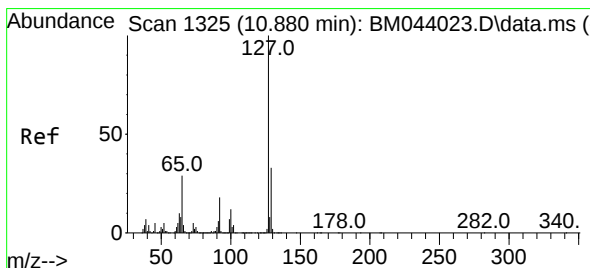
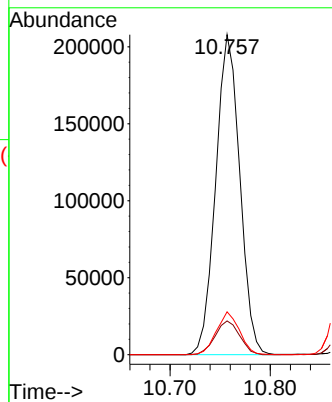
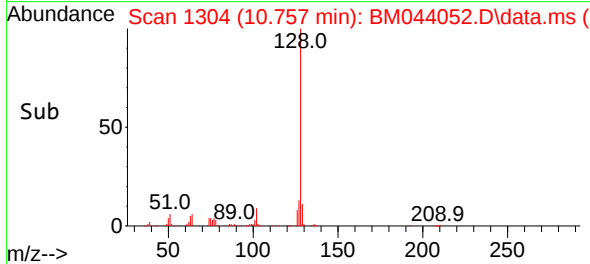
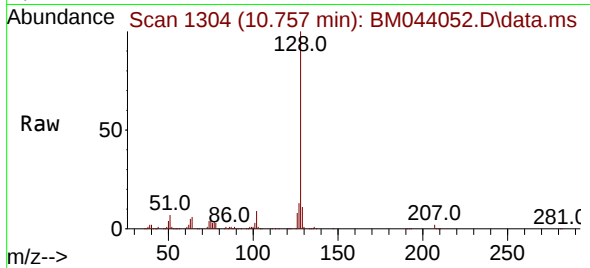




#31  
Naphthalene  
Concen: 3.743 ng  
RT: 10.757 min Scan# 1304  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

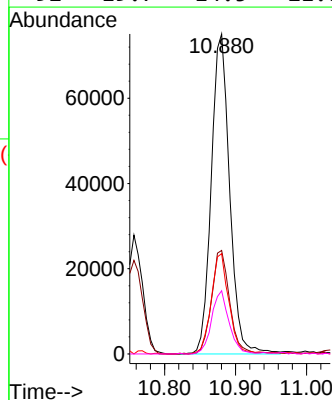
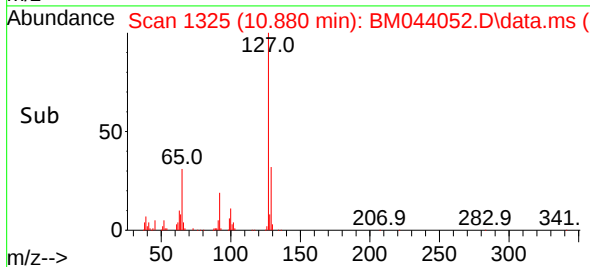
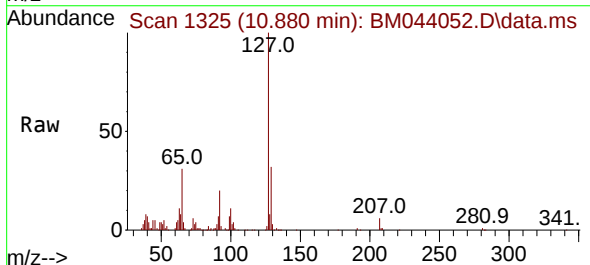
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

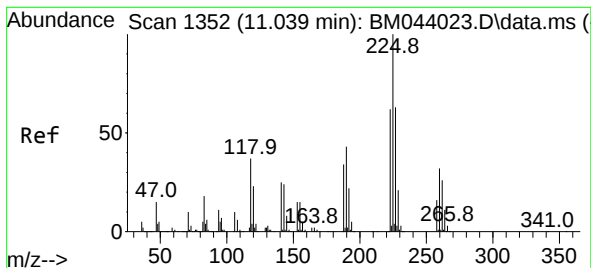
Tgt Ion:128 Resp: 346114  
Ion Ratio Lower Upper  
128 100  
129 10.6 9.0 13.4  
127 13.4 10.3 15.5



#33  
4-Chloroaniline  
Concen: 3.852 ng  
RT: 10.880 min Scan# 1325  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:127 Resp: 134898  
Ion Ratio Lower Upper  
127 100  
129 32.4 26.0 39.0  
65 31.4 23.0 34.6  
92 19.7 14.5 21.7





#34

Hexachlorobutadiene

Concen: 3.330 ng

RT: 11.033 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

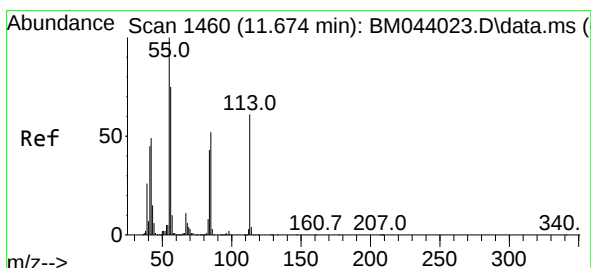
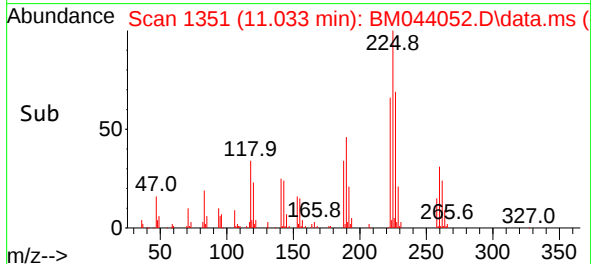
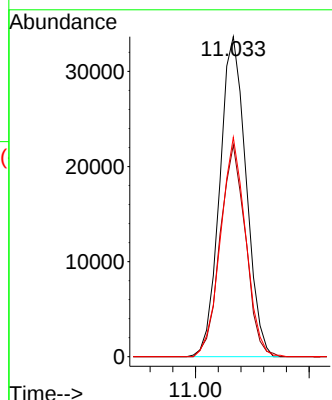
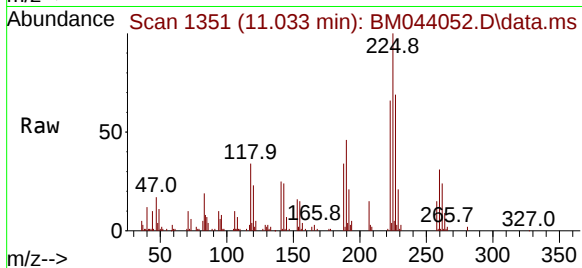
Tgt Ion:225 Resp: 54089

Ion Ratio Lower Upper

225 100

223 66.2 49.9 74.9

227 71.8 50.6 76.0



#35

Caprolactam

Concen: 2.892 ng

RT: 11.651 min Scan# 1456

Delta R.T. -0.024 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

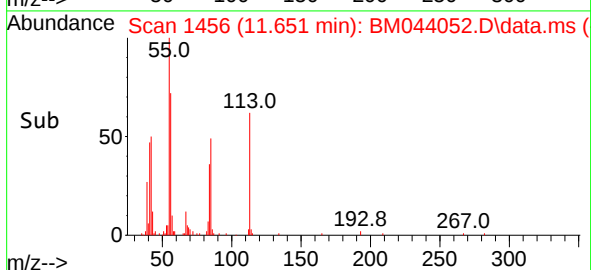
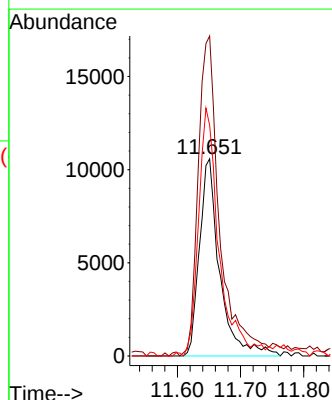
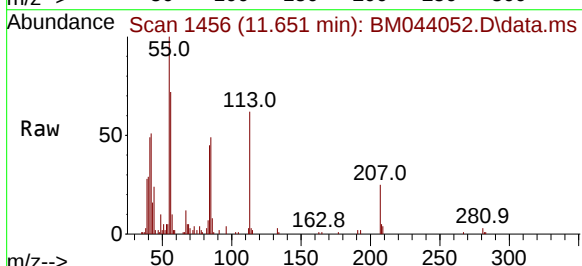
Tgt Ion:113 Resp: 23482

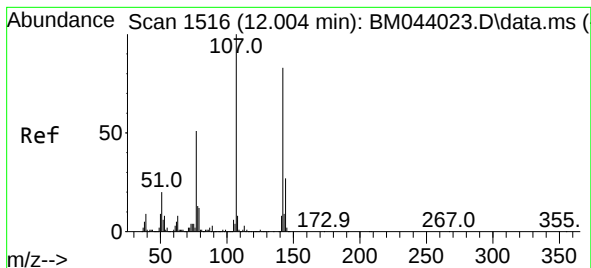
Ion Ratio Lower Upper

113 100

55 162.3 145.6 185.6

56 117.0 103.3 143.3

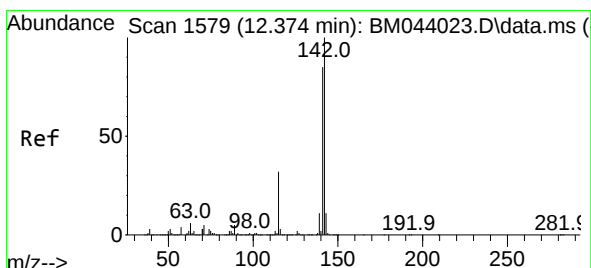
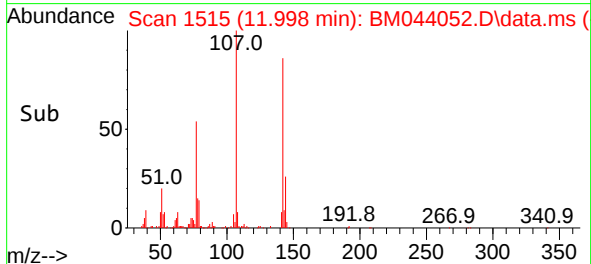
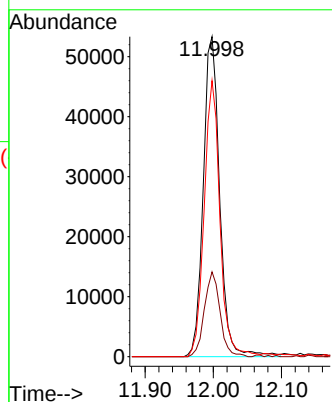
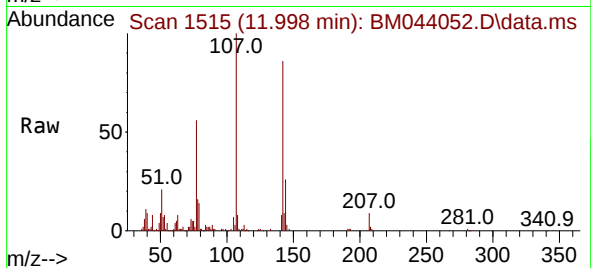




#36  
4-Chloro-3-methylphenol  
Concen: 3.278 ng  
RT: 11.998 min Scan# 1515  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

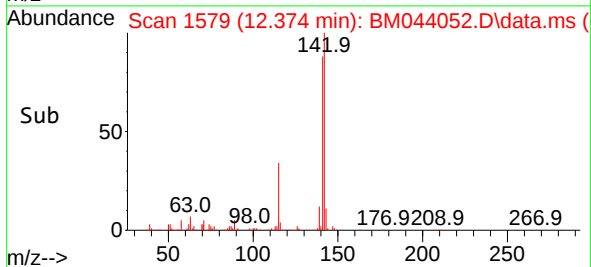
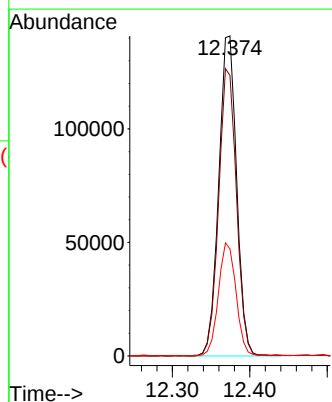
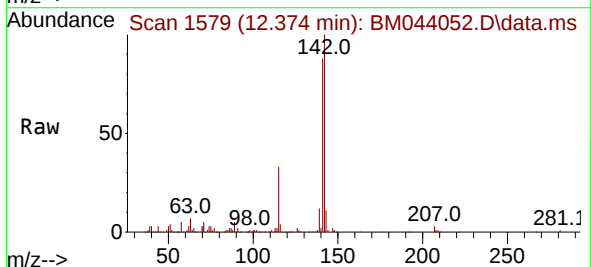
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

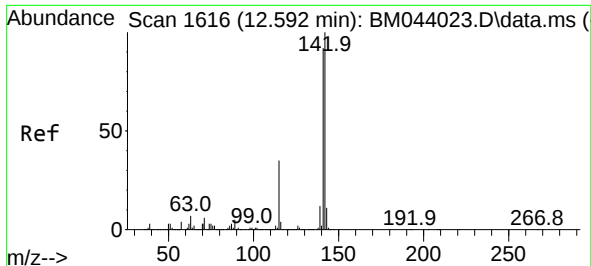
Tgt Ion:107 Resp: 89575  
Ion Ratio Lower Upper  
107 100  
144 26.5 21.3 31.9  
142 86.3 66.2 99.4



#37  
2-Methylnaphthalene  
Concen: 3.685 ng  
RT: 12.374 min Scan# 1579  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:142 Resp: 226978  
Ion Ratio Lower Upper  
142 100  
141 87.7 68.3 102.5  
115 33.4 25.7 38.5

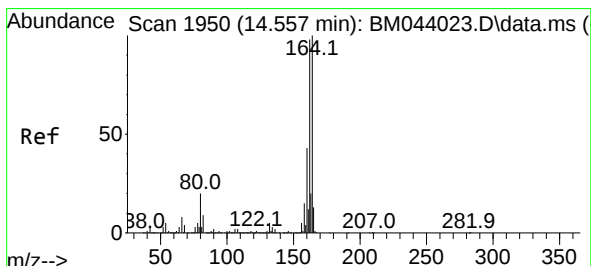
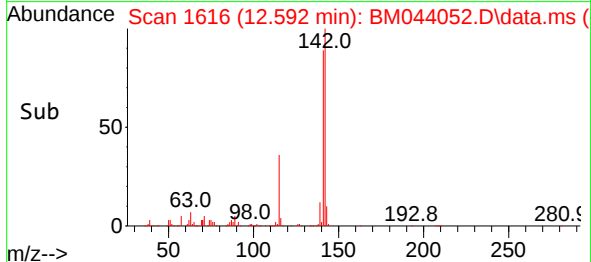
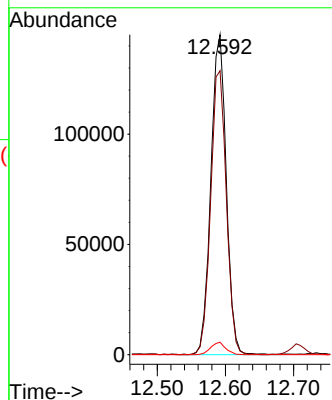
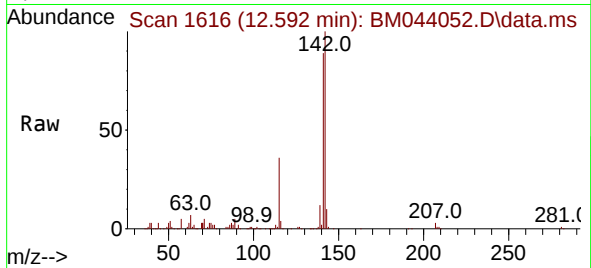




#38  
1-Methylnaphthalene  
Concen: 3.772 ng  
RT: 12.592 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

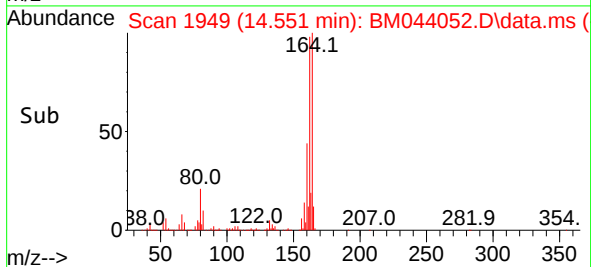
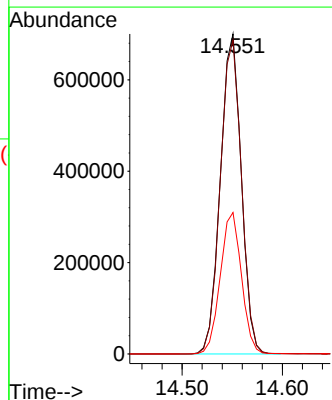
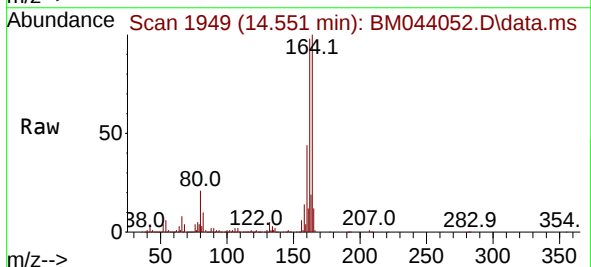
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

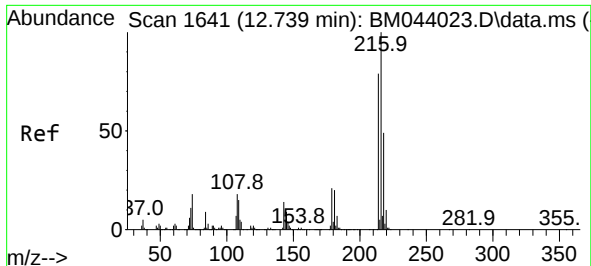
Tgt Ion:142 Resp: 228330  
Ion Ratio Lower Upper  
142 100  
141 88.7 73.4 110.0  
116 3.9 3.0 4.4



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.551 min Scan# 1949  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:164 Resp: 1013399  
Ion Ratio Lower Upper  
164 100  
162 98.0 78.4 117.6  
160 44.2 34.6 51.8

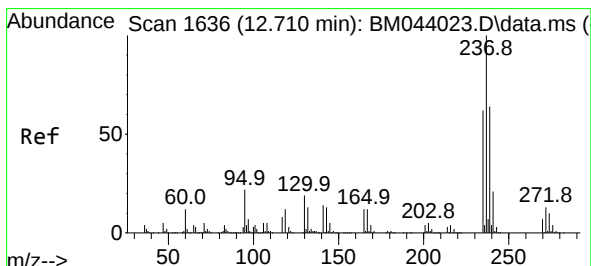
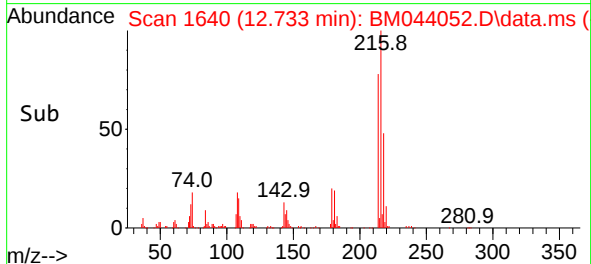
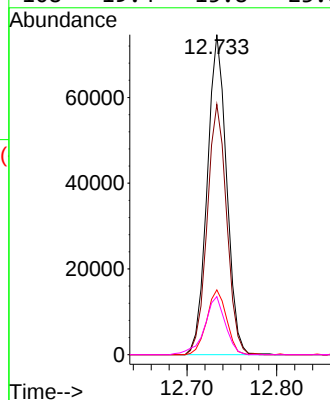
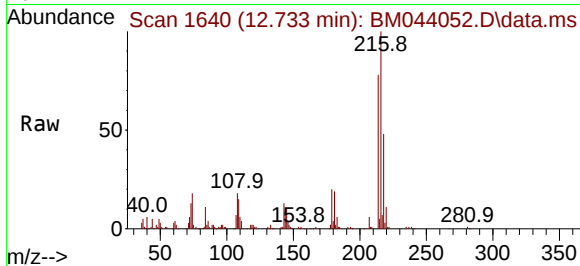




#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 3.796 ng  
RT: 12.733 min Scan# 1640  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

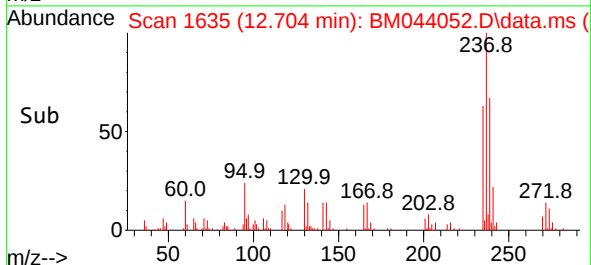
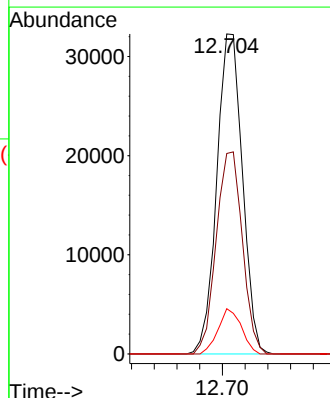
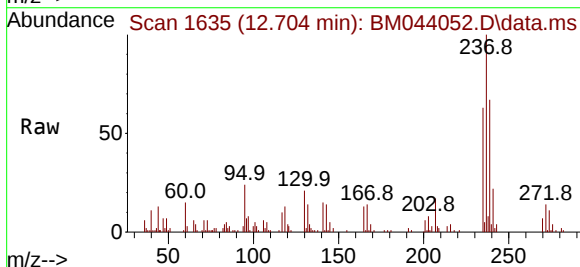
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

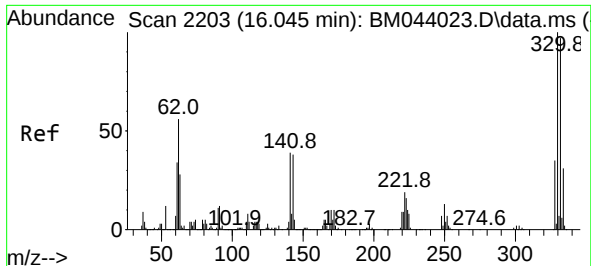
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 111812 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 78.8  | 63.1  | 94.7   |
| 179       | 20.8  | 17.0  | 25.6   |
| 108       | 19.4  | 15.8  | 23.8   |



#41  
Hexachlorocyclopentadiene  
Concen: 3.941 ng  
RT: 12.704 min Scan# 1635  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 237   | Resp: | 50665 |
| Ion Ratio | Lower | Upper |       |
| 237       | 100   |       |       |
| 235       | 62.6  | 42.4  | 82.4  |
| 272       | 14.1  | 0.0   | 33.3  |

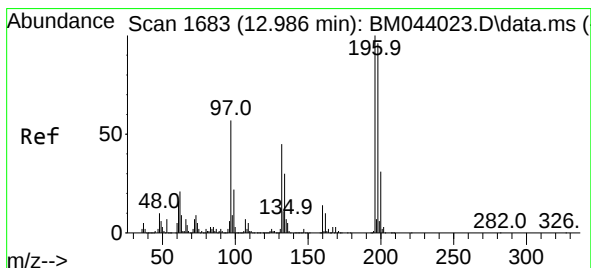
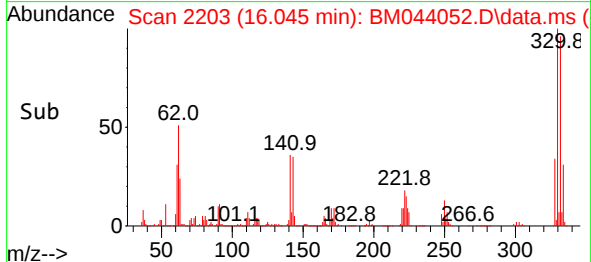
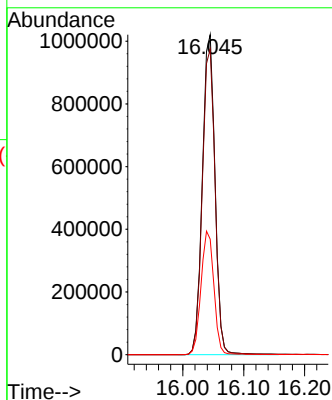
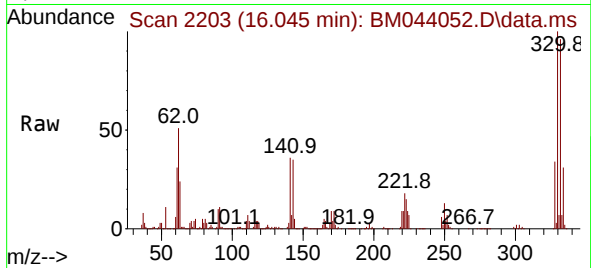




#42  
2,4,6-Tribromophenol  
Concen: 134.648 ng  
RT: 16.045 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

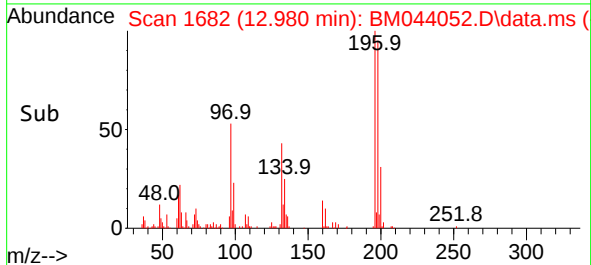
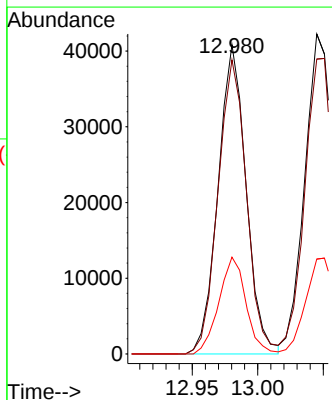
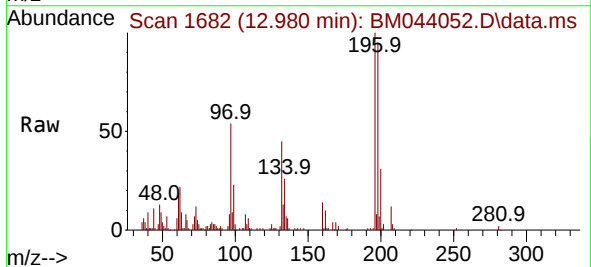
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

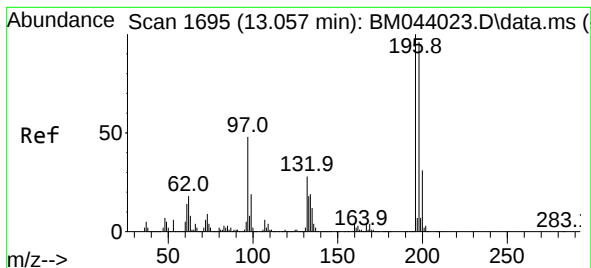
Tgt Ion:330 Resp: 1477409  
Ion Ratio Lower Upper  
330 100  
332 96.5 77.7 116.5  
141 39.4 31.0 46.4



#43  
2,4,6-Trichlorophenol  
Concen: 3.026 ng  
RT: 12.980 min Scan# 1682  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:196 Resp: 60664  
Ion Ratio Lower Upper  
196 100  
198 95.1 76.8 115.2  
200 31.3 24.6 37.0





#44

2,4,5-Trichlorophenol

Concen: 3.046 ng

RT: 13.045 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM044052.D

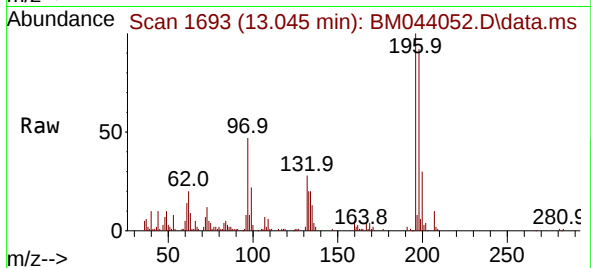
Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023



Tgt Ion:196 Resp: 67020

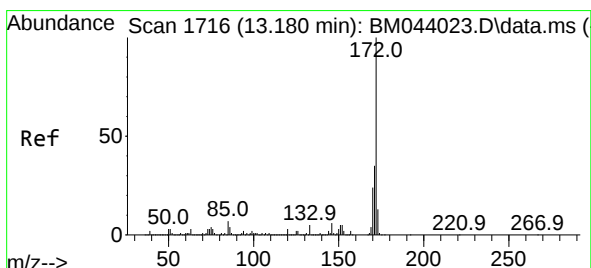
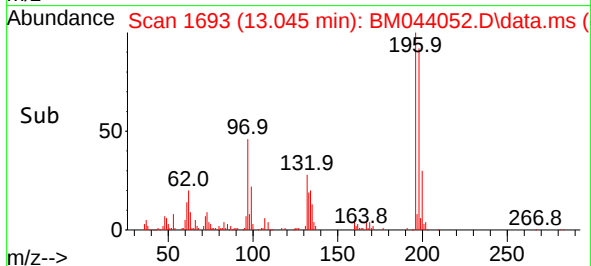
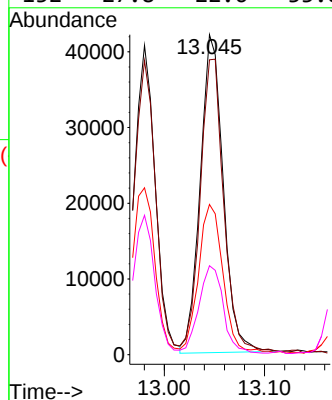
Ion Ratio Lower Upper

196 100

198 92.1 76.9 115.3

97 46.9 39.0 58.4

132 27.8 22.6 33.8



#45

2-Fluorobiphenyl

Concen: 80.443 ng

RT: 13.180 min Scan# 1716

Delta R.T. -0.000 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

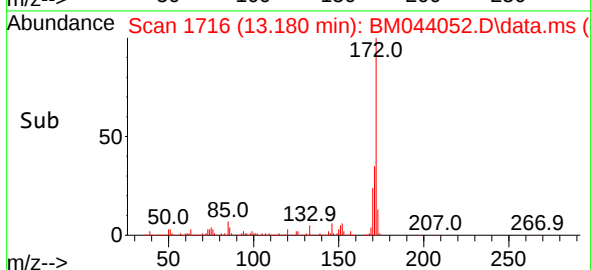
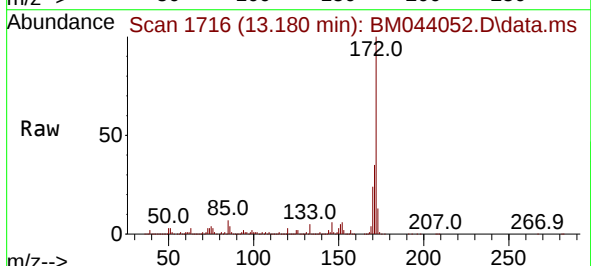
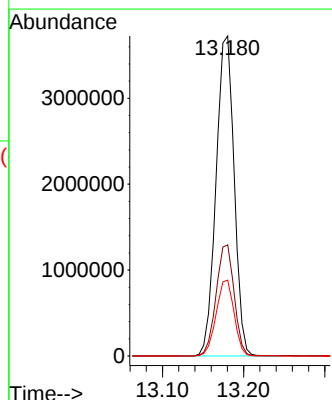
Tgt Ion:172 Resp: 5776208

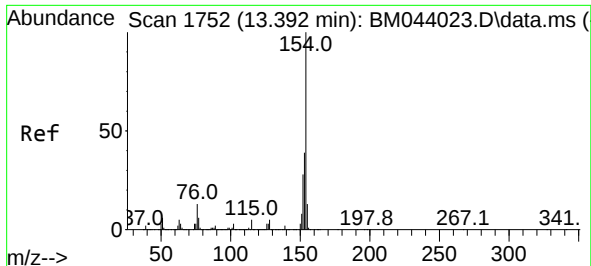
Ion Ratio Lower Upper

172 100

171 34.7 27.9 41.9

170 23.7 19.0 28.4

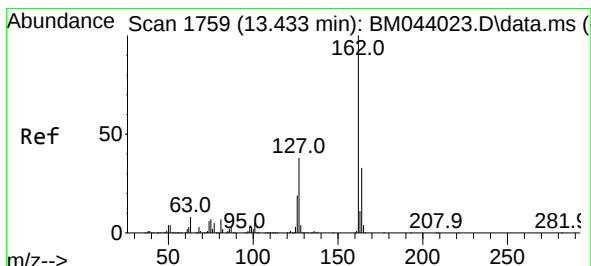
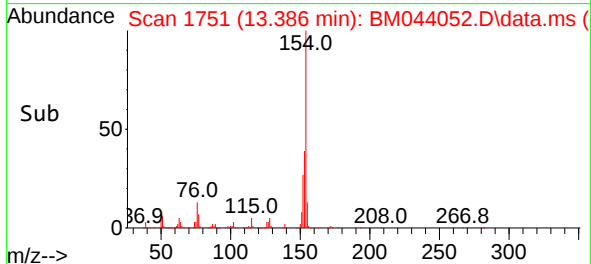
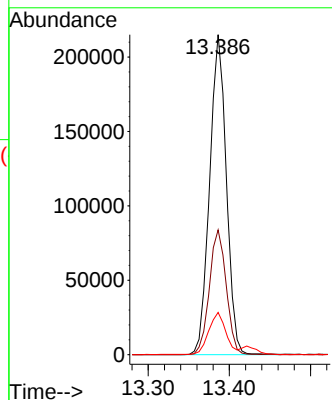
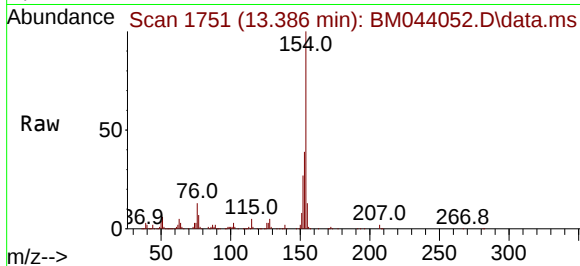




#46  
1,1'-Biphenyl  
Concen: 3.842 ng  
RT: 13.386 min Scan# 1751  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

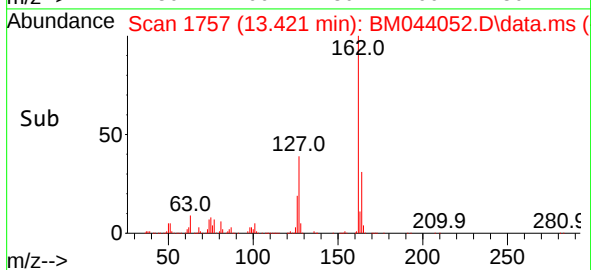
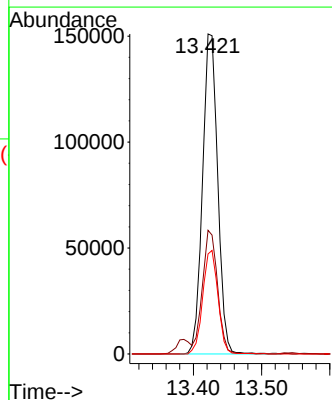
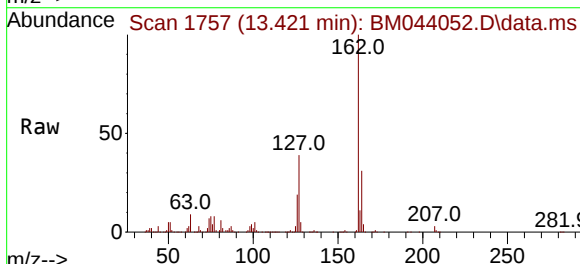
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

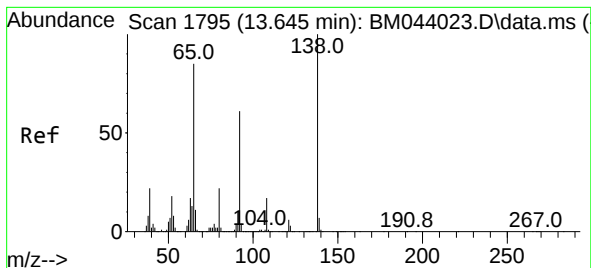
Tgt Ion:154 Resp: 307239  
Ion Ratio Lower Upper  
154 100  
153 39.0 19.4 59.4  
76 13.2 0.0 32.9



#47  
2-Chloronaphthalene  
Concen: 3.703 ng  
RT: 13.421 min Scan# 1757  
Delta R.T. -0.012 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:162 Resp: 234550  
Ion Ratio Lower Upper  
162 100  
127 38.6 30.9 46.3  
164 31.2 26.4 39.6





#48

2-Nitroaniline

Concen: 2.974 ng

RT: 13.639 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

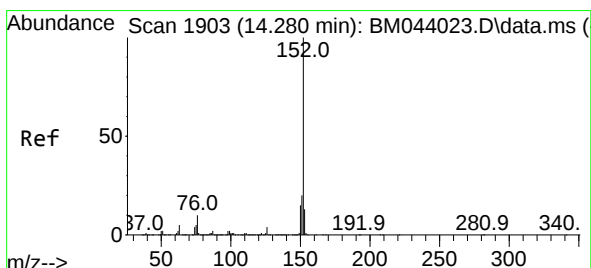
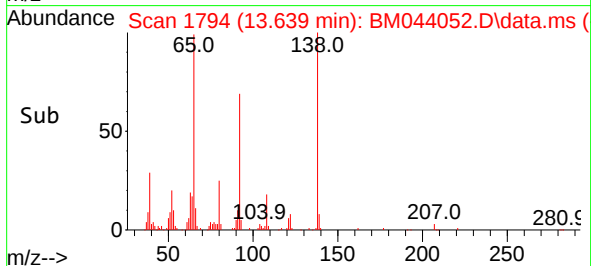
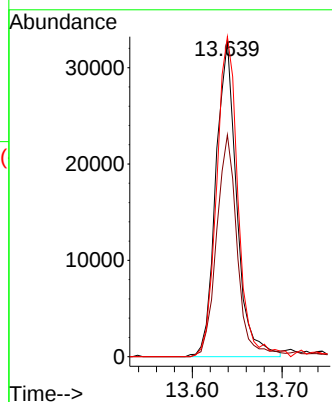
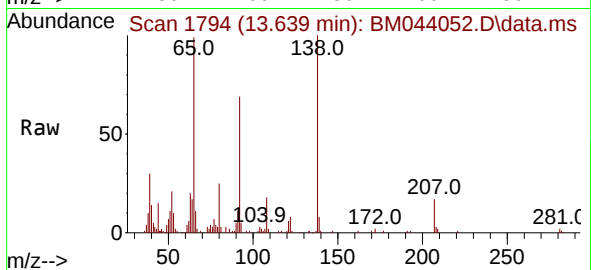
Tgt Ion: 65 Resp: 53002

Ion Ratio Lower Upper

65 100

92 70.1 58.1 87.1

138 101.1 94.6 142.0



#49

Acenaphthylene

Concen: 3.895 ng

RT: 14.268 min Scan# 1901

Delta R.T. -0.012 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

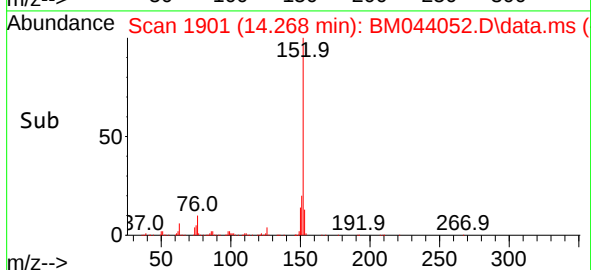
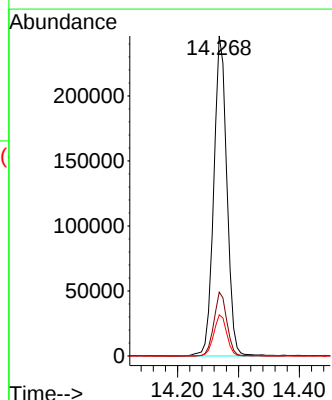
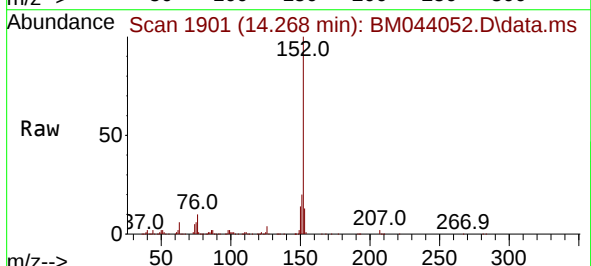
Tgt Ion: 152 Resp: 368079

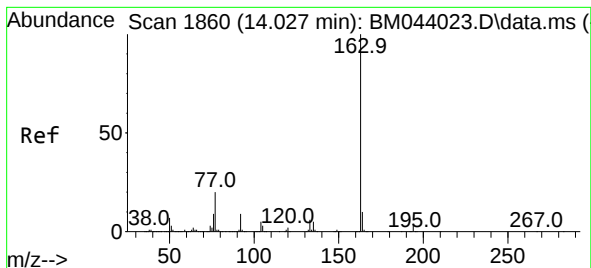
Ion Ratio Lower Upper

152 100

151 20.0 15.8 23.6

153 12.9 10.5 15.7





#50

Dimethylphthalate

Concen: 3.588 ng

RT: 14.015 min Scan# 1858

Delta R.T. -0.012 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

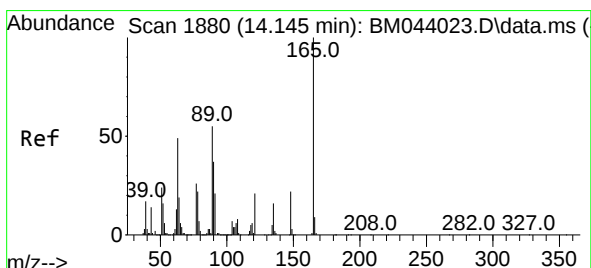
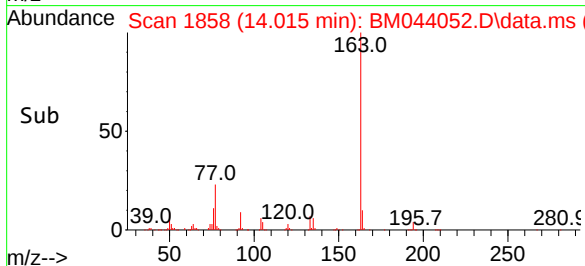
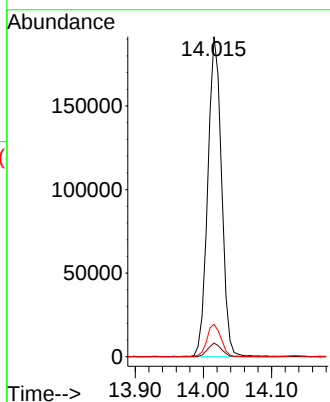
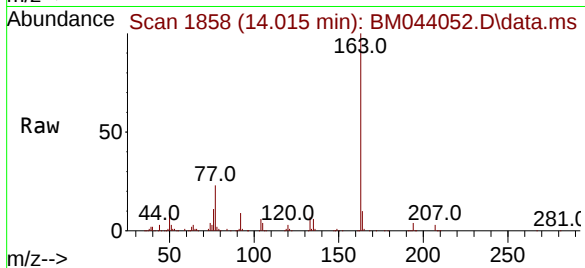
Tgt Ion:163 Resp: 269632

Ion Ratio Lower Upper

163 100

194 4.3 3.1 4.7

164 10.1 8.2 12.2



#51

2,6-Dinitrotoluene

Concen: 2.861 ng

RT: 14.139 min Scan# 1879

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

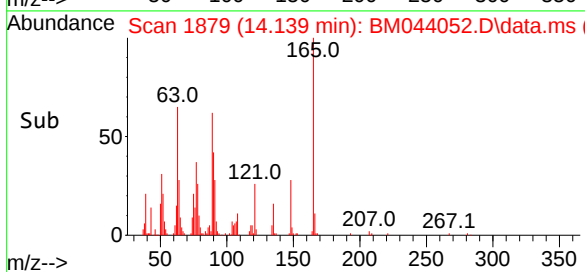
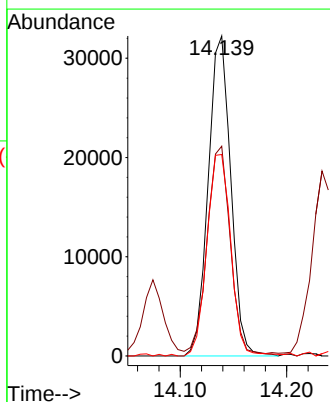
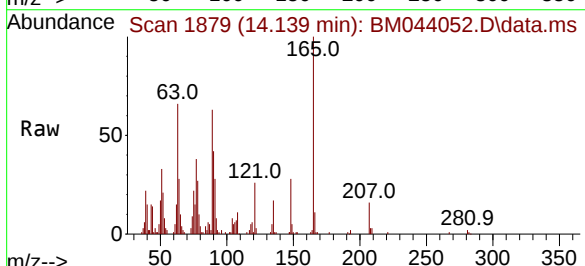
Tgt Ion:165 Resp: 47433

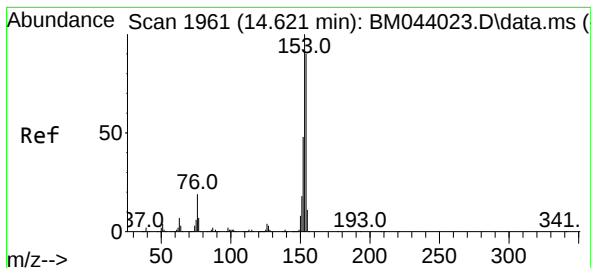
Ion Ratio Lower Upper

165 100

63 65.6 43.5 65.3#

89 62.9 44.4 66.6





#52

Acenaphthene

Concen: 3.667 ng

RT: 14.610 min Scan# 1959

Delta R.T. -0.012 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

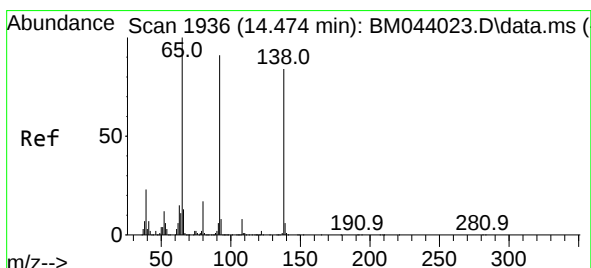
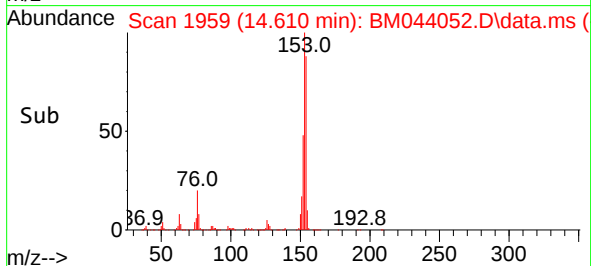
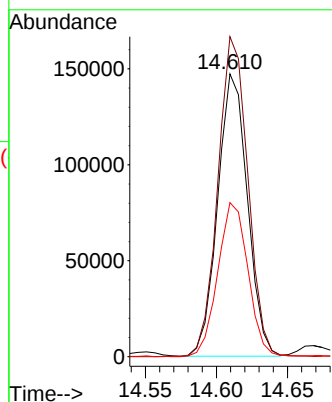
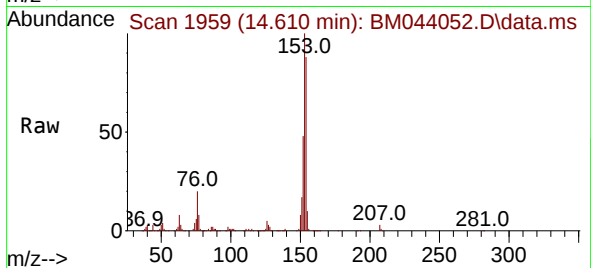
Tgt Ion:154 Resp: 214490

Ion Ratio Lower Upper

154 100

153 113.2 89.3 133.9

152 54.5 43.0 64.6



#53

3-Nitroaniline

Concen: 2.832 ng

RT: 14.468 min Scan# 1935

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

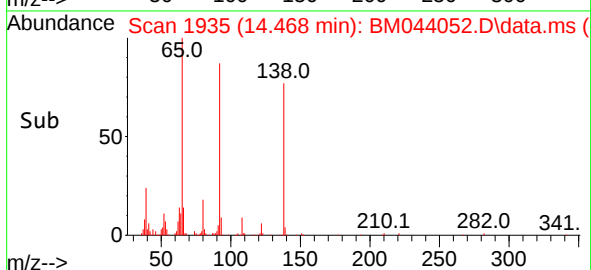
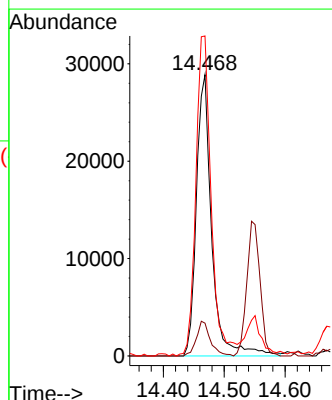
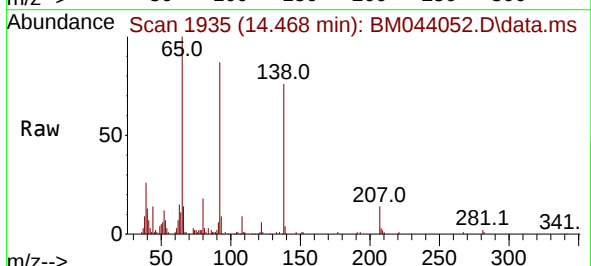
Tgt Ion:138 Resp: 50449

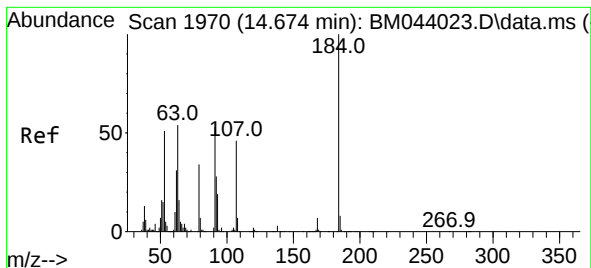
Ion Ratio Lower Upper

138 100

108 11.7 7.6 11.4#

92 113.7 86.5 129.7





#54

2,4-Dinitrophenol

Concen: 7.005 ng

RT: 14.668 min Scan# 1970

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

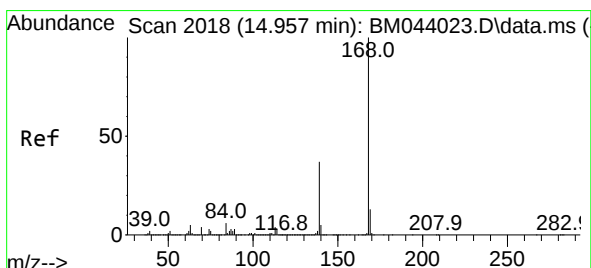
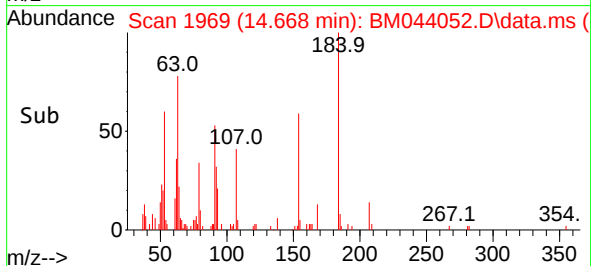
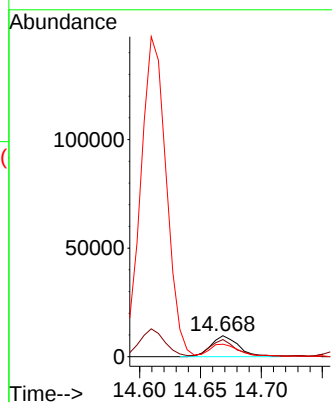
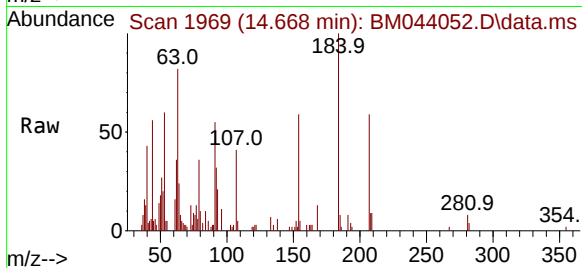
Tgt Ion:184 Resp: 15159

Ion Ratio Lower Upper

184 100

63 81.6 55.4 83.2

154 59.5 49.2 73.8



#55

Dibenzofuran

Concen: 3.904 ng

RT: 14.951 min Scan# 2017

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

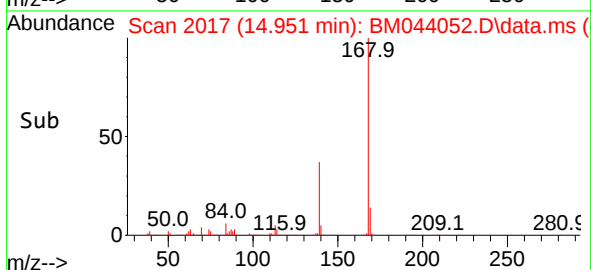
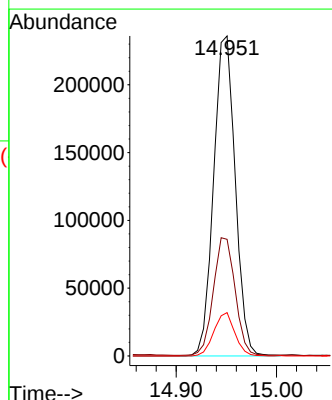
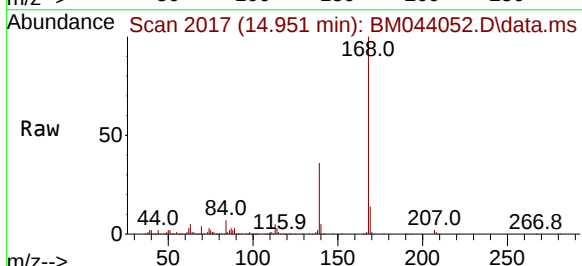
Tgt Ion:168 Resp: 353404

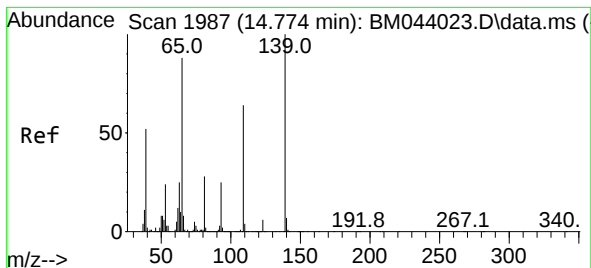
Ion Ratio Lower Upper

168 100

139 36.5 29.6 44.4

169 13.5 10.5 15.7

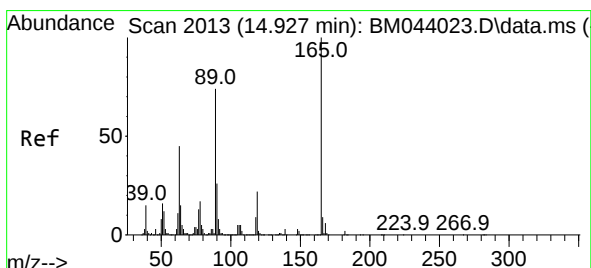
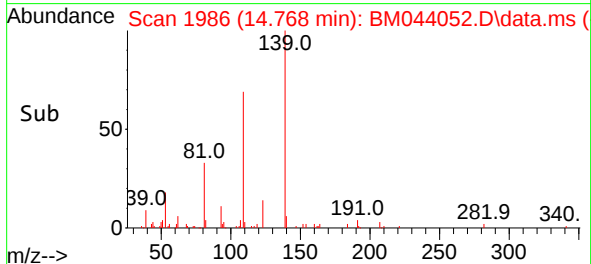
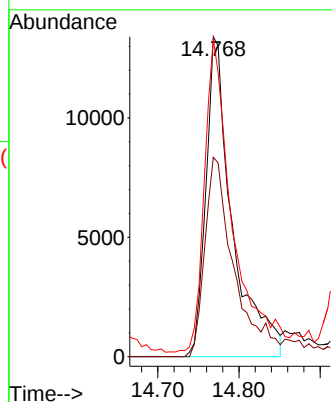
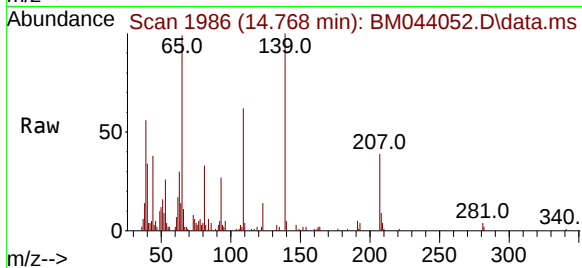




#56  
4-Nitrophenol  
Concen: 2.095 ng  
RT: 14.768 min Scan# 1986  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

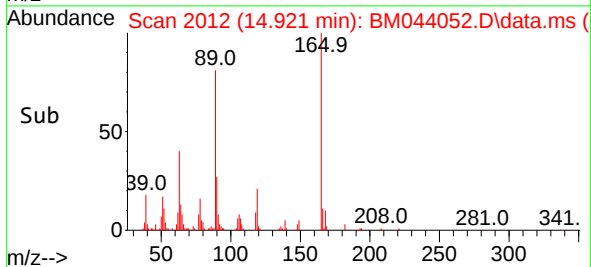
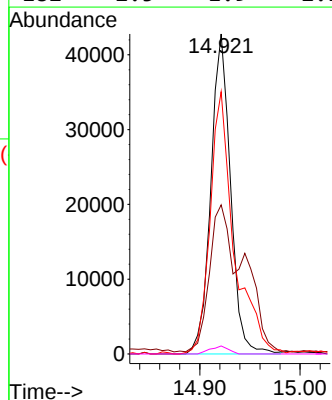
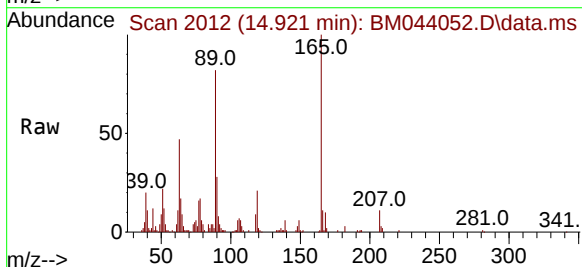
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

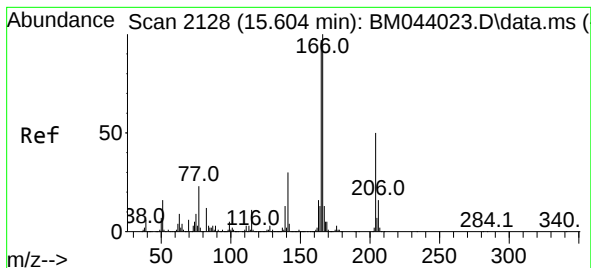
Tgt Ion:139 Resp: 30346  
Ion Ratio Lower Upper  
139 100  
109 62.3 43.8 83.8  
65 99.2 67.7 107.7



#57  
2,4-Dinitrotoluene  
Concen: 2.698 ng  
RT: 14.921 min Scan# 2012  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:165 Resp: 58452  
Ion Ratio Lower Upper  
165 100  
63 46.6 35.9 53.9  
89 81.9 58.9 88.3  
182 2.5 1.9 2.9





#58

Fluorene

Concen: 3.889 ng

RT: 15.598 min Scan# 2128

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

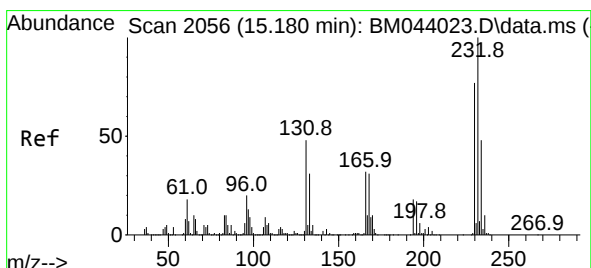
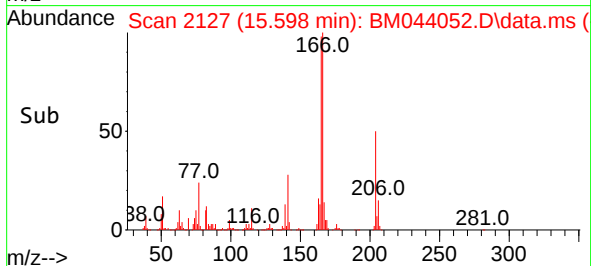
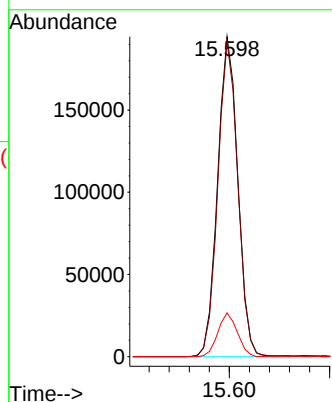
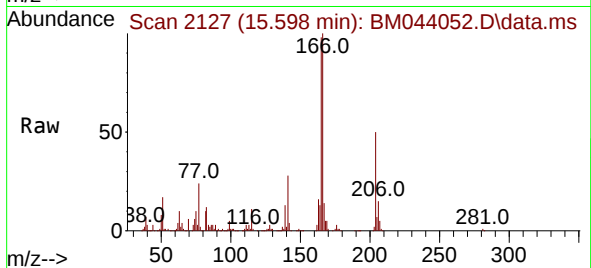
Tgt Ion:166 Resp: 272052

Ion Ratio Lower Upper

166 100

165 98.5 77.7 116.5

167 13.7 10.7 16.1



#59

2,3,4,6-Tetrachlorophenol

Concen: 3.327 ng

RT: 15.174 min Scan# 2055

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Tgt Ion:232 Resp: 57428

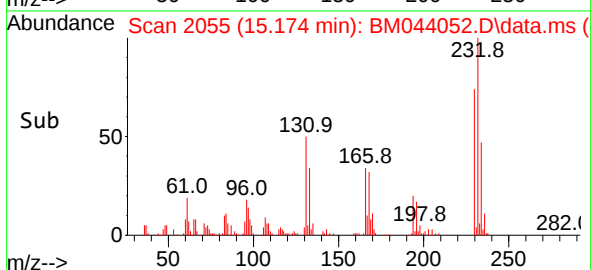
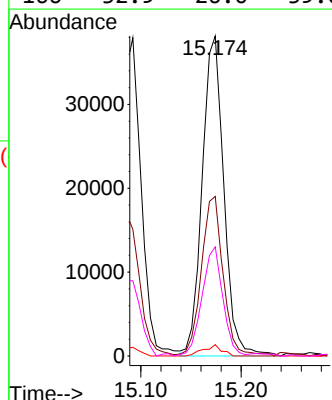
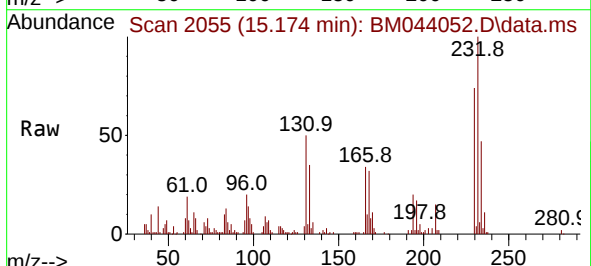
Ion Ratio Lower Upper

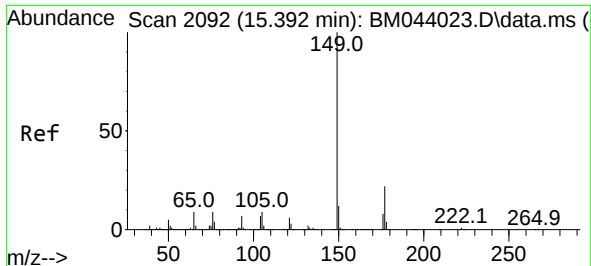
232 100

131 50.3 39.5 59.3

130 3.0 2.0 3.0

166 32.9 26.0 39.0

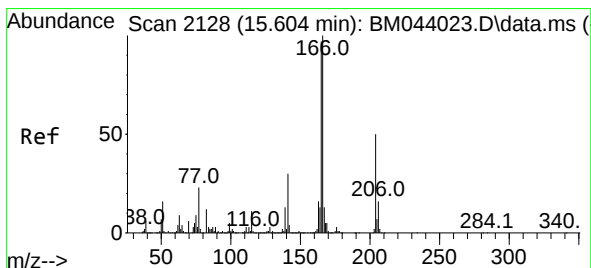
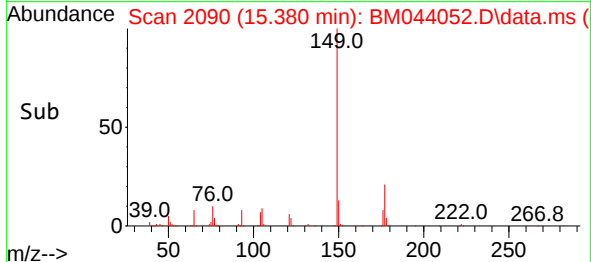
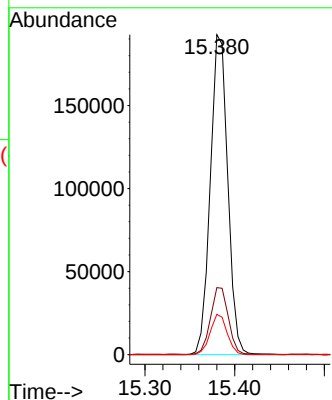
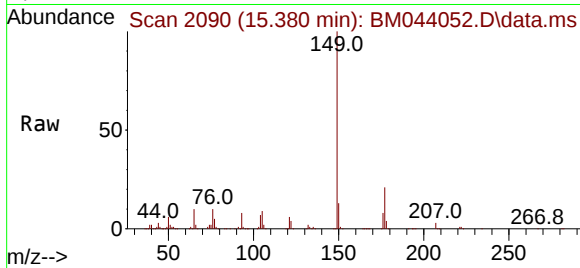




#60  
Diethylphthalate  
Concen: 3.347 ng  
RT: 15.380 min Scan# 2092  
Delta R.T. -0.012 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

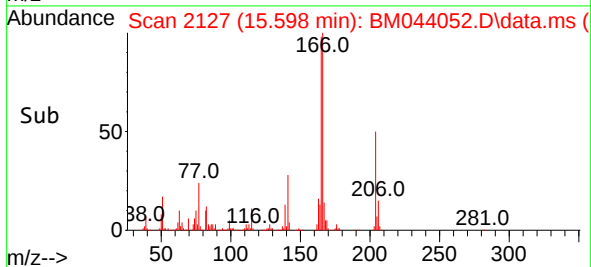
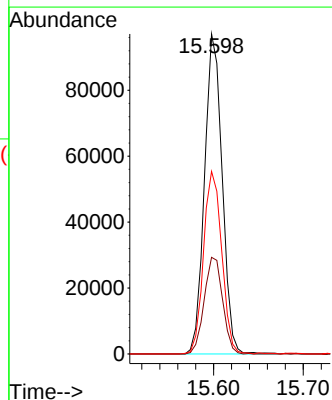
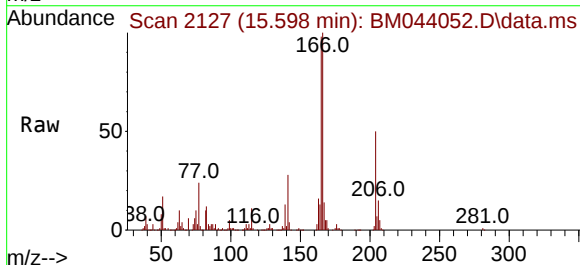
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

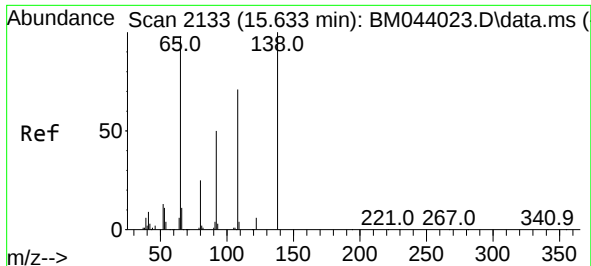
Tgt Ion:149 Resp: 259883  
Ion Ratio Lower Upper  
149 100  
177 21.0 17.5 26.3  
150 12.6 9.8 14.6



#61  
4-Chlorophenyl-phenylether  
Concen: 3.917 ng  
RT: 15.598 min Scan# 2127  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:204 Resp: 132767  
Ion Ratio Lower Upper  
204 100  
206 30.2 26.3 39.5  
141 57.0 47.7 71.5

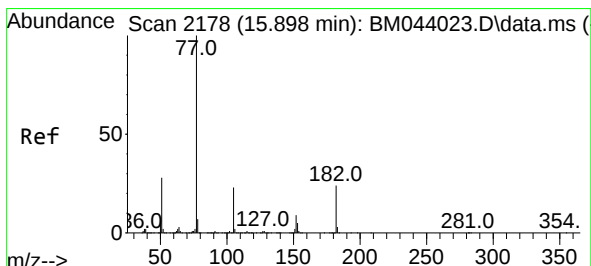
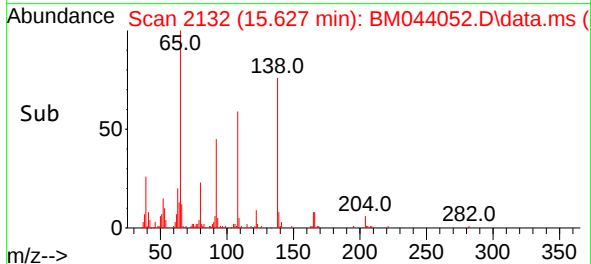
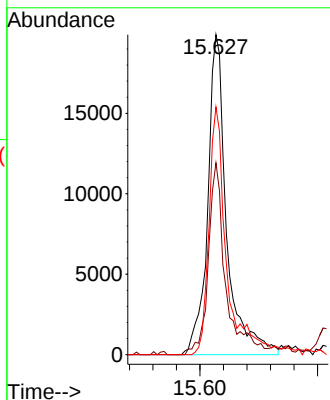
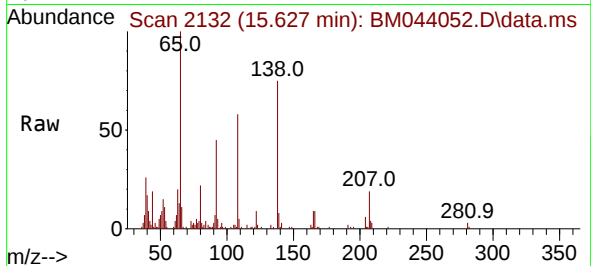




#62  
4-Nitroaniline  
Concen: 2.498 ng  
RT: 15.627 min Scan# 2132  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

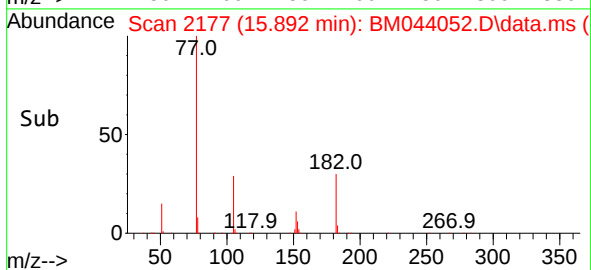
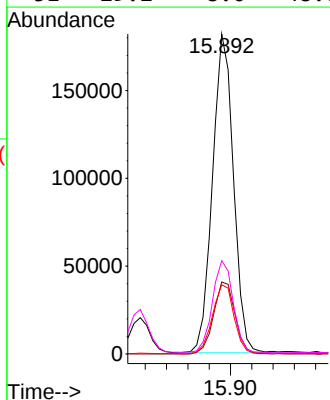
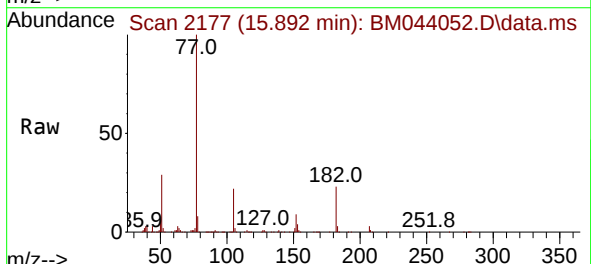
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

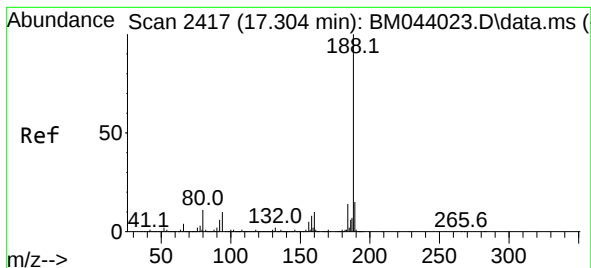
Tgt Ion:138 Resp: 44797  
Ion Ratio Lower Upper  
138 100  
92 60.0 29.6 69.6  
108 77.4 47.8 87.8



#63  
Azobenzene  
Concen: 3.400 ng  
RT: 15.892 min Scan# 2177  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion: 77 Resp: 247695  
Ion Ratio Lower Upper  
77 100  
182 22.5 4.0 44.0  
105 21.6 3.3 43.3  
51 29.2 8.0 48.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.298 min Scan# 2416

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

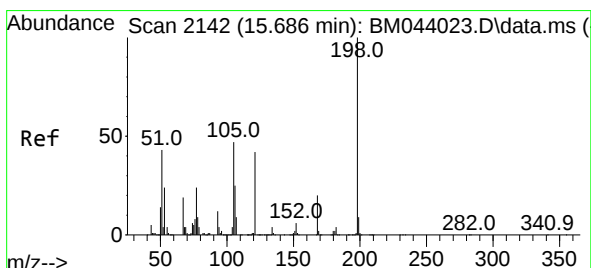
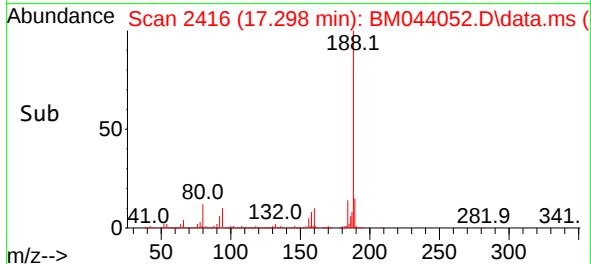
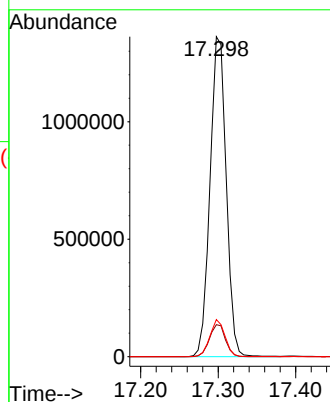
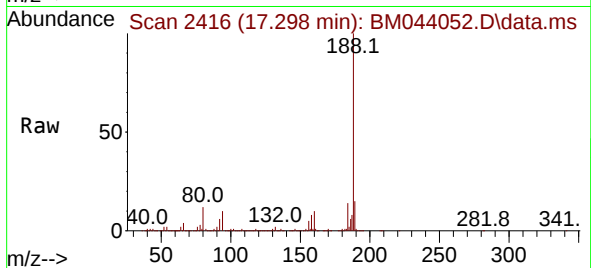
Tgt Ion:188 Resp: 1977086

Ion Ratio Lower Upper

188 100

94 10.0 8.2 12.2

80 11.6 8.8 13.2



#65

4,6-Dinitro-2-methylphenol

Concen: 2.014 ng

RT: 15.680 min Scan# 2141

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

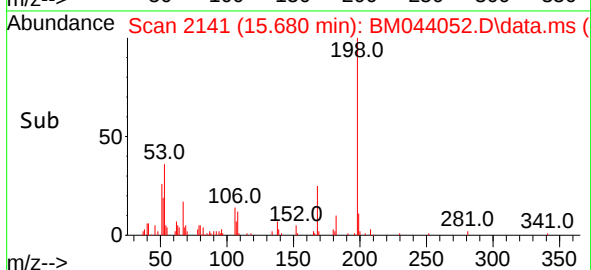
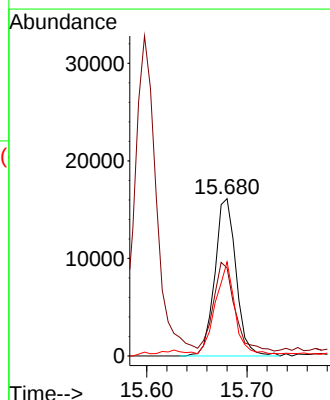
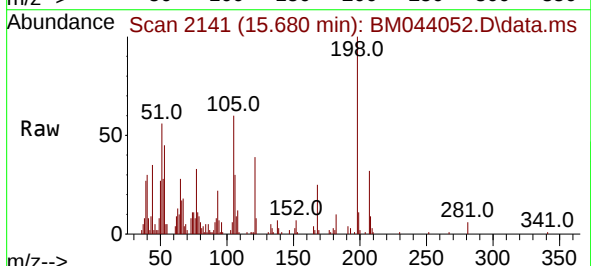
Tgt Ion:198 Resp: 23730

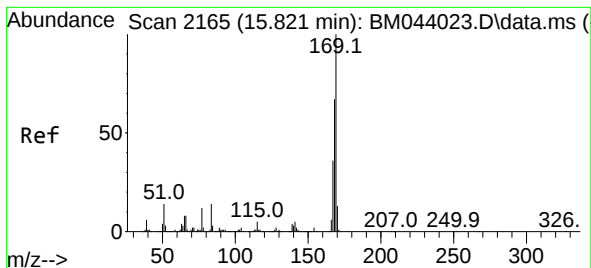
Ion Ratio Lower Upper

198 100

51 55.9 29.9 69.9

105 59.8 28.7 68.7





#66

n-Nitrosodiphenylamine

Concen: 3.596 ng

RT: 15.815 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

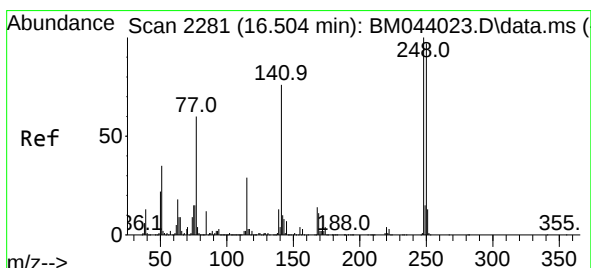
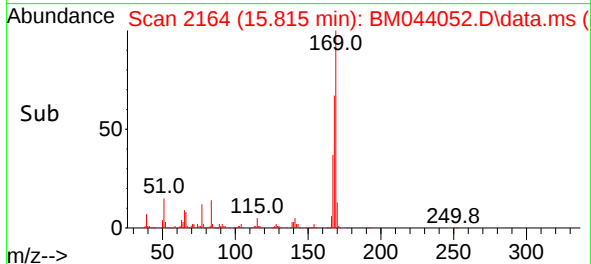
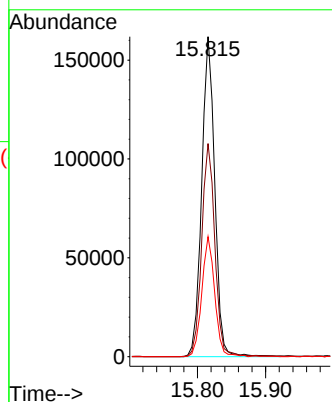
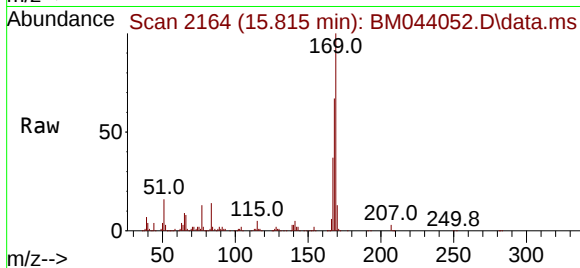
Tgt Ion:169 Resp: 216010

Ion Ratio Lower Upper

169 100

168 66.6 53.8 80.8

167 37.5 29.2 43.8



#67

4-Bromophenyl-phenylether

Concen: 3.370 ng

RT: 16.498 min Scan# 2280

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

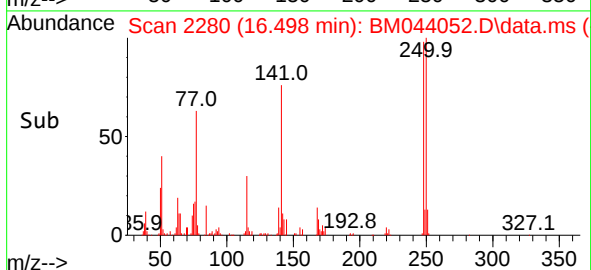
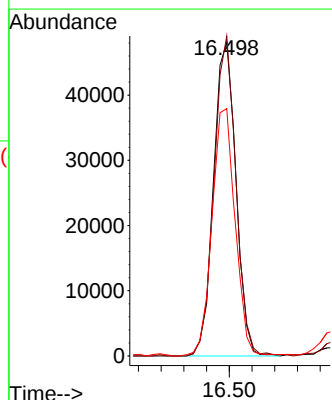
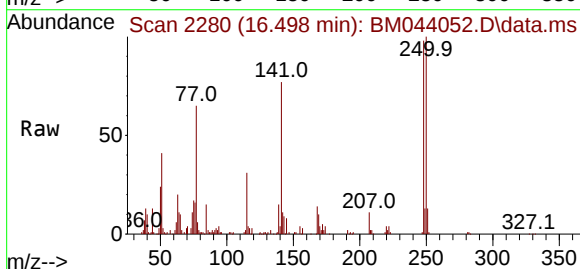
Tgt Ion:248 Resp: 65869

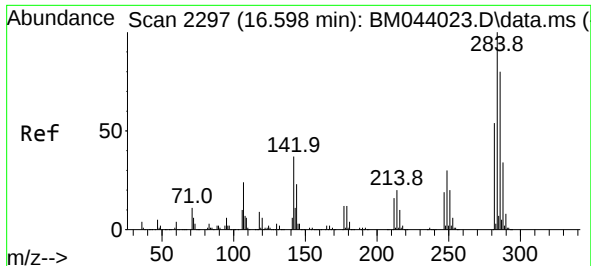
Ion Ratio Lower Upper

248 100

250 101.9 77.4 116.2

141 78.8 61.0 91.6

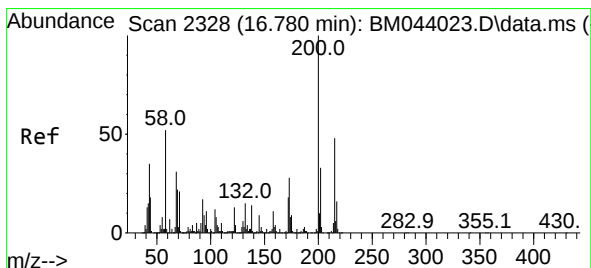
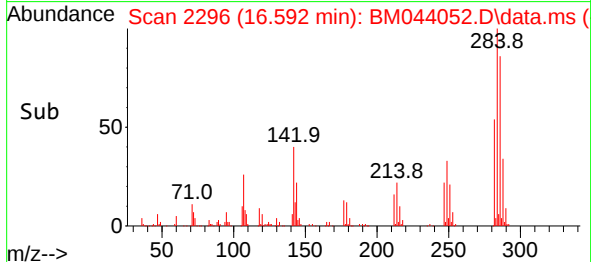
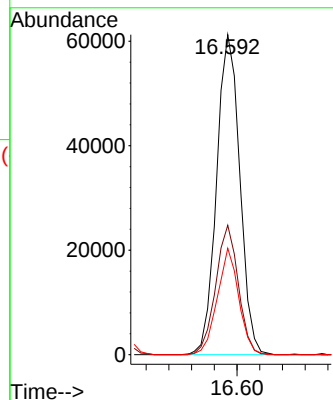
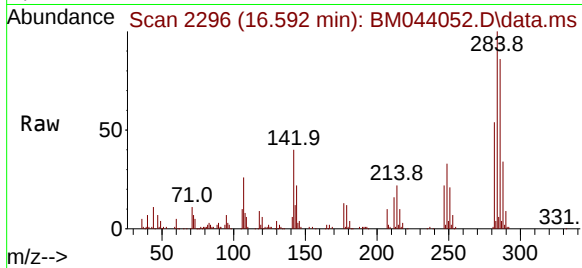




#68  
Hexachlorobenzene  
Concen: 3.624 ng  
RT: 16.592 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

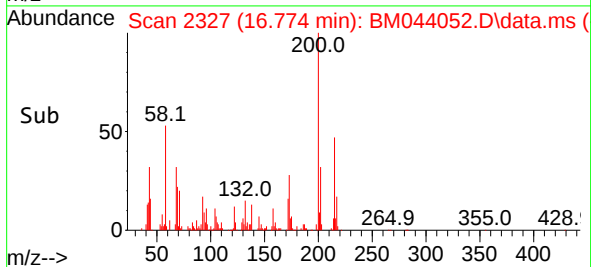
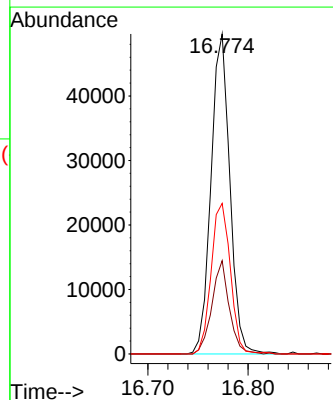
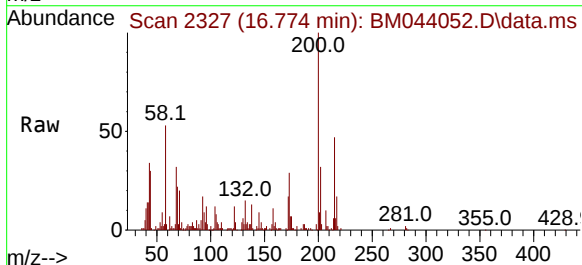
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

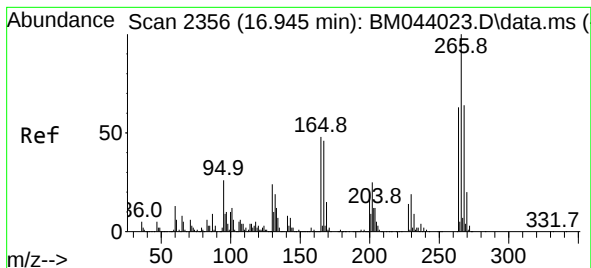
Tgt Ion:284 Resp: 86784  
Ion Ratio Lower Upper  
284 100  
142 40.4 30.0 45.0  
249 33.3 24.1 36.1



#69  
Atrazine  
Concen: 3.987 ng  
RT: 16.774 min Scan# 2327  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:200 Resp: 64845  
Ion Ratio Lower Upper  
200 100  
173 29.2 7.9 47.9  
215 47.0 27.9 67.9





#70

Pentachlorophenol

Concen: 2.326 ng

RT: 16.945 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM044052.D

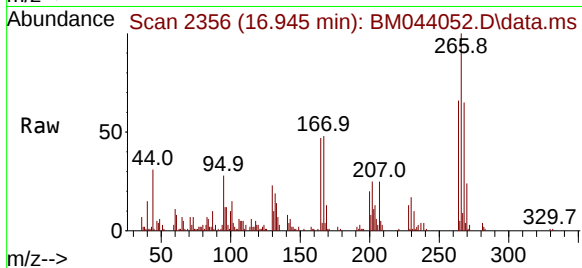
Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023



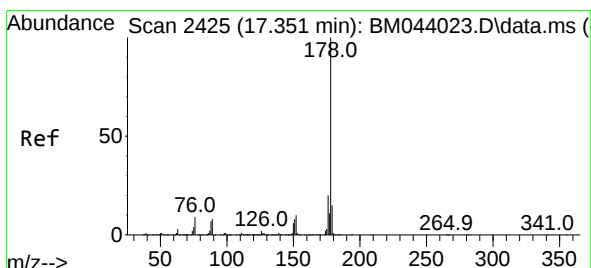
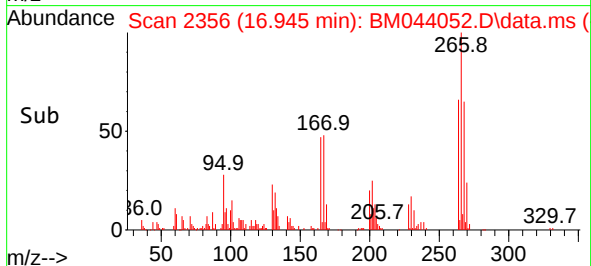
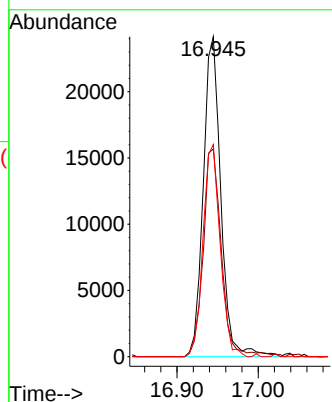
Tgt Ion:266 Resp: 36225

Ion Ratio Lower Upper

266 100

268 64.9 51.1 76.7

264 66.3 50.5 75.7



#71

Phenanthrene

Concen: 3.902 ng

RT: 17.339 min Scan# 2423

Delta R.T. -0.012 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

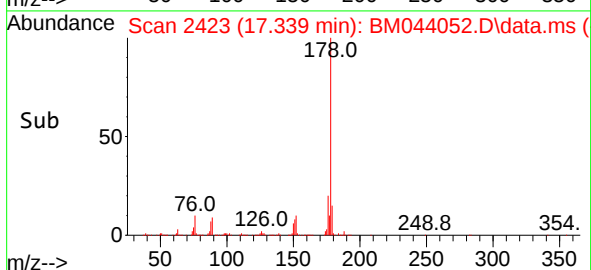
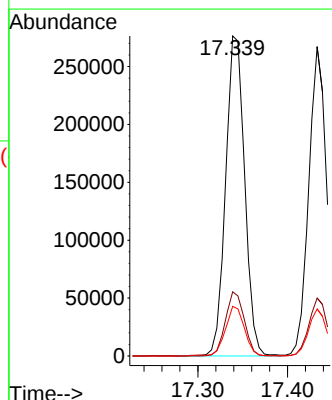
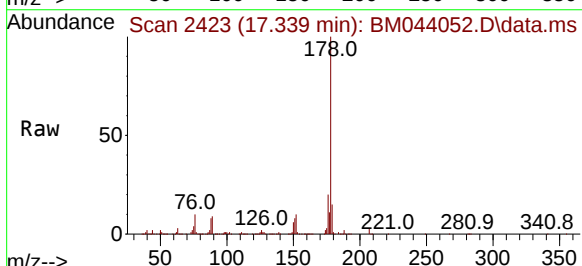
Tgt Ion:178 Resp: 407375

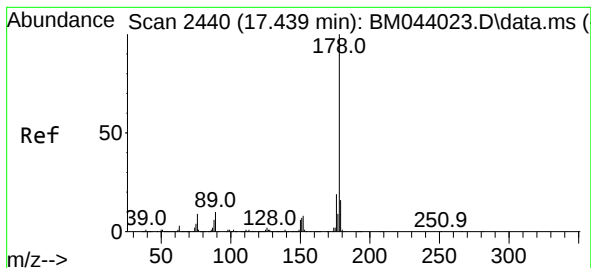
Ion Ratio Lower Upper

178 100

176 20.1 15.6 23.4

179 15.5 12.2 18.4





#72

Anthracene

Concen: 3.715 ng

RT: 17.433 min Scan# 2440

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

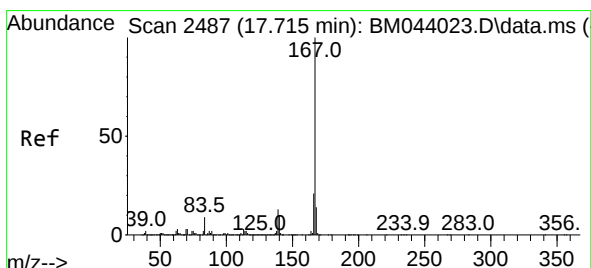
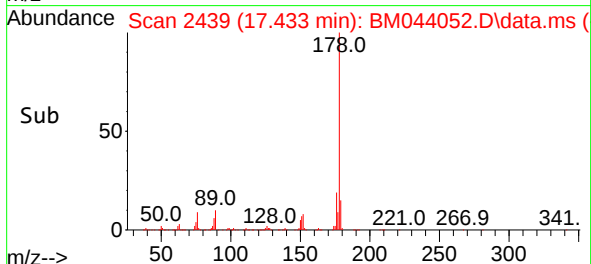
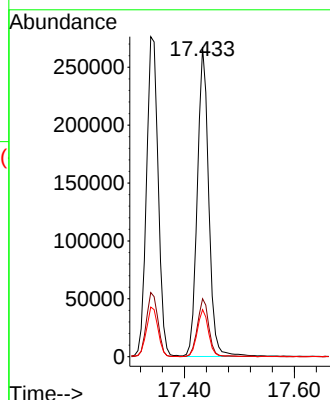
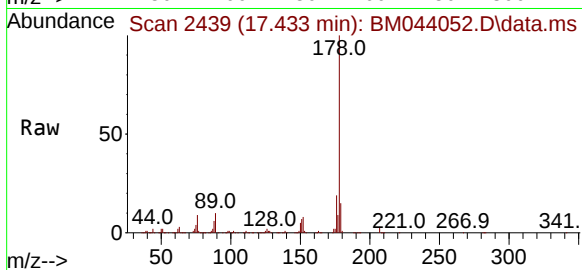
Tgt Ion:178 Resp: 384004

Ion Ratio Lower Upper

178 100

176 18.7 15.3 22.9

179 15.2 12.4 18.6



#73

Carbazole

Concen: 3.380 ng

RT: 17.709 min Scan# 2486

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

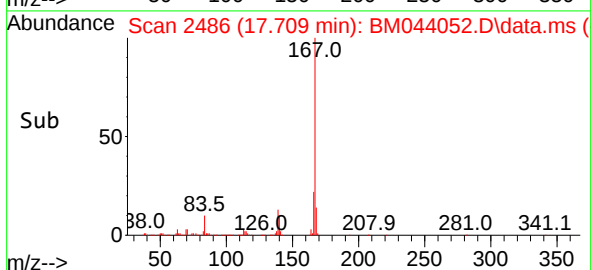
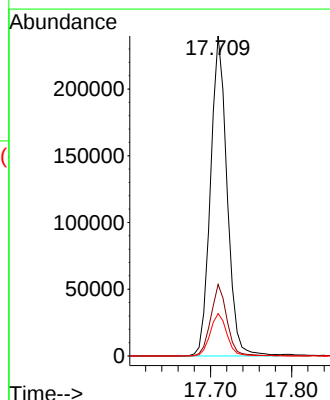
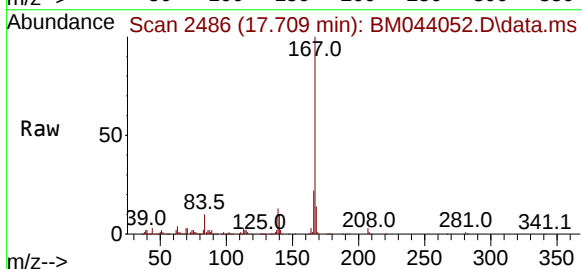
Tgt Ion:167 Resp: 339715

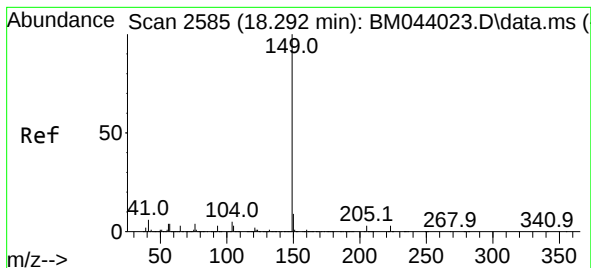
Ion Ratio Lower Upper

167 100

166 22.3 16.8 25.2

139 13.2 10.4 15.6





#74

Di-n-butylphthalate

Concen: 2.857 ng

RT: 18.286 min Scan# 2

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

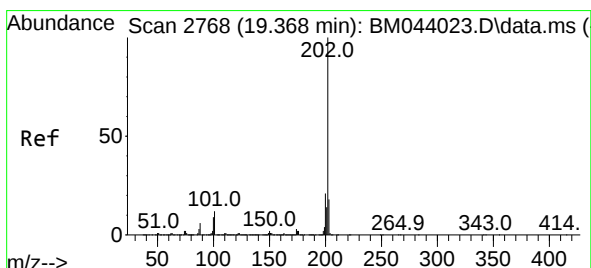
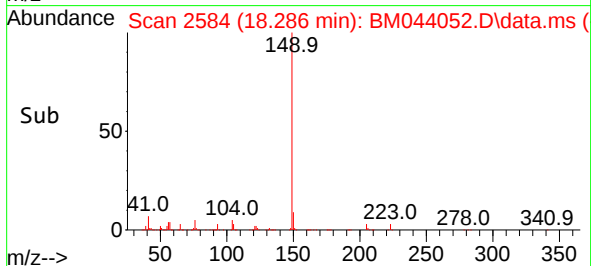
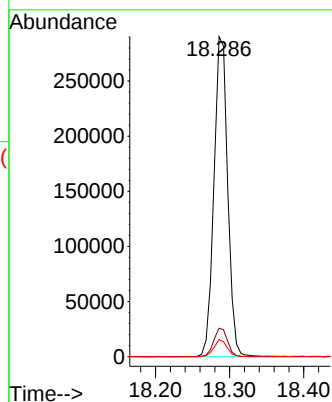
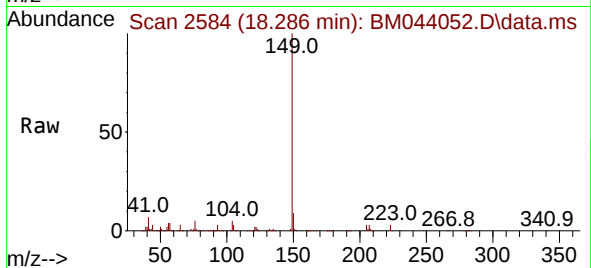
Tgt Ion:149 Resp: 373346

Ion Ratio Lower Upper

149 100

150 8.9 7.4 11.2

104 5.4 3.8 5.6



#75

Fluoranthene

Concen: 3.472 ng

RT: 19.362 min Scan# 2767

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

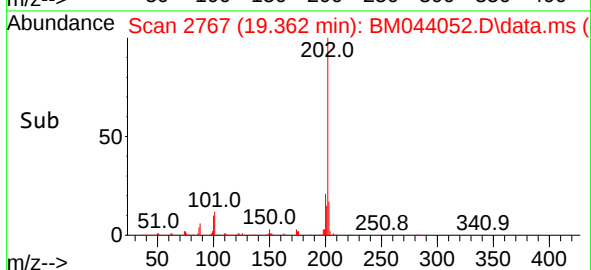
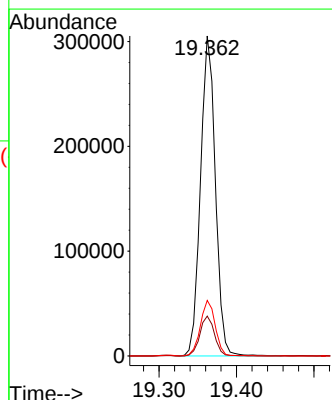
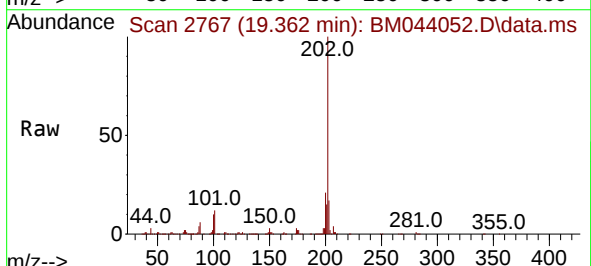
Tgt Ion:202 Resp: 407147

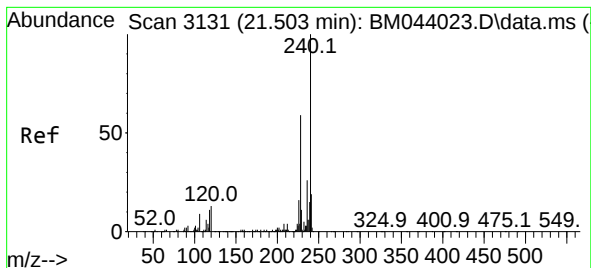
Ion Ratio Lower Upper

202 100

101 12.4 0.0 32.4

203 17.3 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.503 min Scan# 3131

Delta R.T. -0.000 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

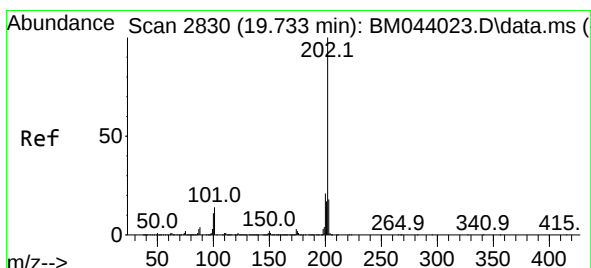
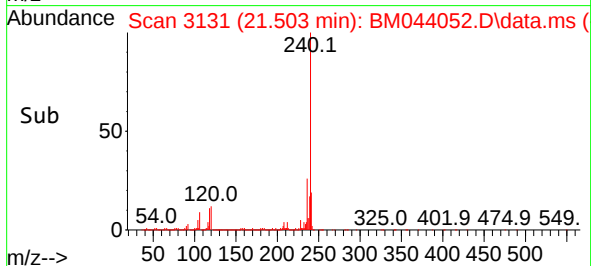
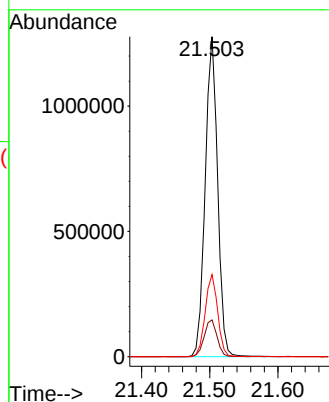
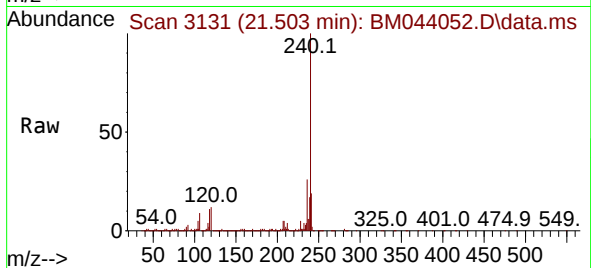
Tgt Ion:240 Resp: 1618787

Ion Ratio Lower Upper

240 100

120 11.5 10.1 15.1

236 25.7 20.6 31.0



#78

Pyrene

Concen: 3.441 ng

RT: 19.727 min Scan# 2829

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

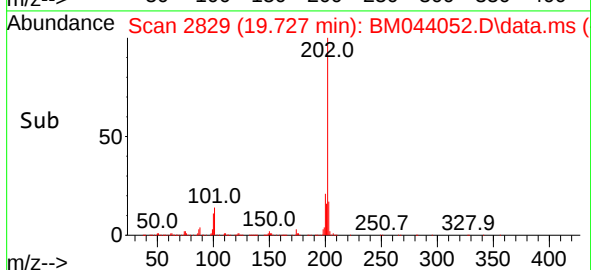
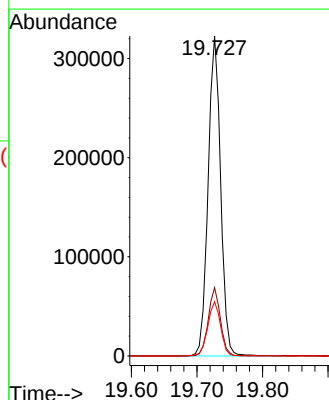
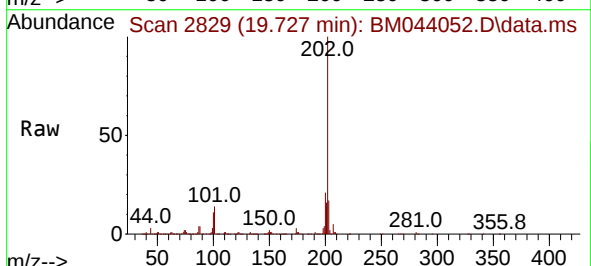
Tgt Ion:202 Resp: 429017

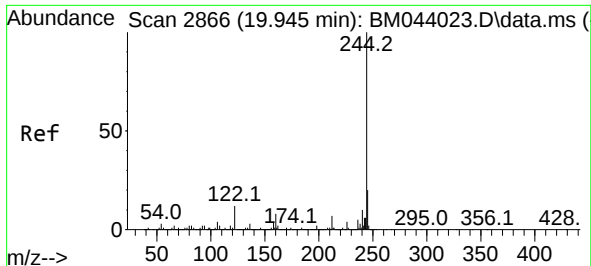
Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

203 17.0 14.0 21.0

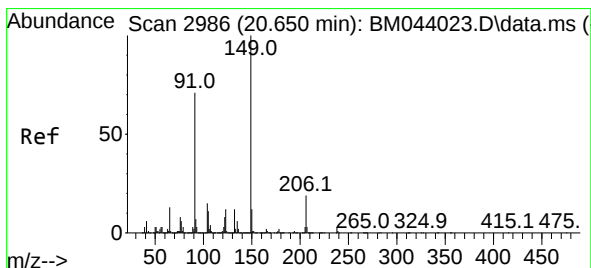
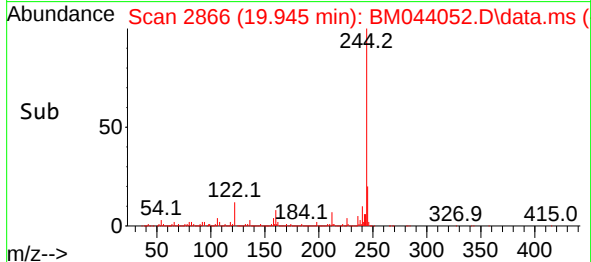
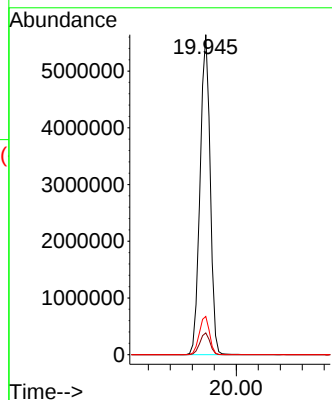
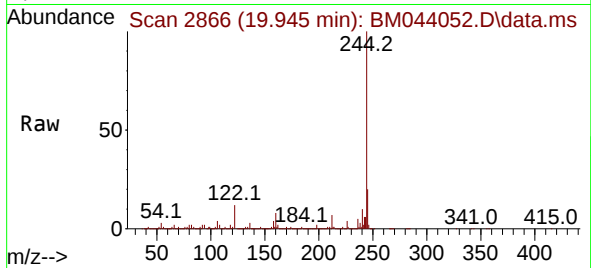




#79  
 Terphenyl-d14  
 Concen: 77.974 ng  
 RT: 19.945 min Scan# 2866  
 Delta R.T. -0.000 min  
 Lab File: BM044052.D  
 Acq: 12 Feb 2024 12:17

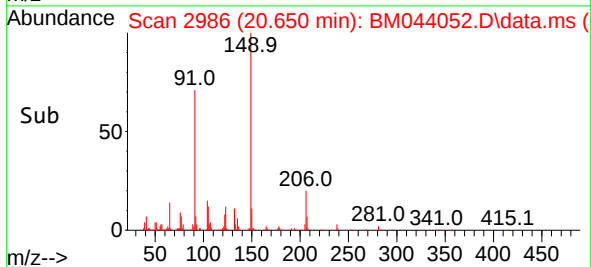
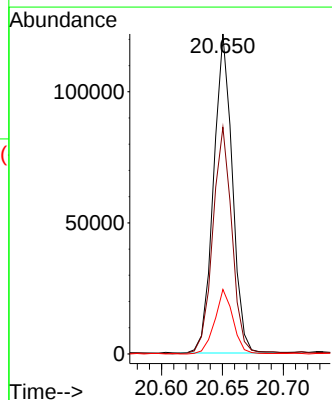
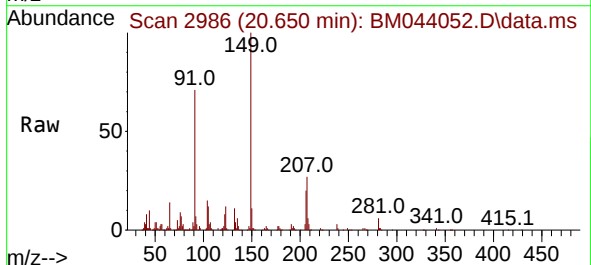
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2023

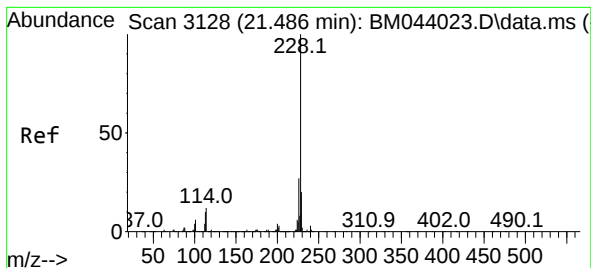
Tgt Ion:244 Resp: 7200315  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.4 8.2  
 122 11.9 9.5 14.3



#80  
 Butylbenzylphthalate  
 Concen: 2.357 ng  
 RT: 20.650 min Scan# 2986  
 Delta R.T. -0.000 min  
 Lab File: BM044052.D  
 Acq: 12 Feb 2024 12:17

Tgt Ion:149 Resp: 130601  
 Ion Ratio Lower Upper  
 149 100  
 91 70.8 56.8 85.2  
 206 20.2 15.0 22.6





#81

Benzo(a)anthracene

Concen: 3.587 ng

RT: 21.486 min Scan# 3128

Delta R.T. -0.000 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

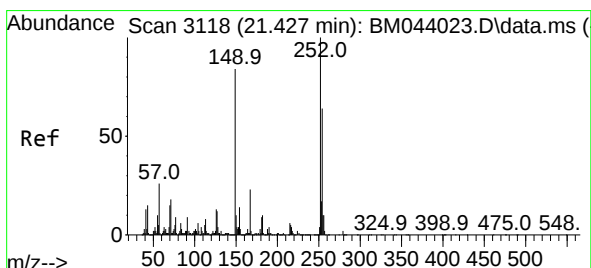
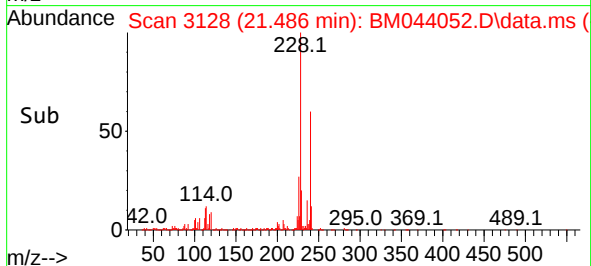
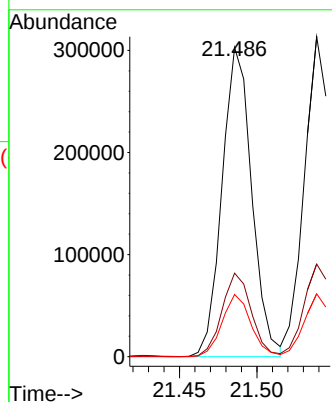
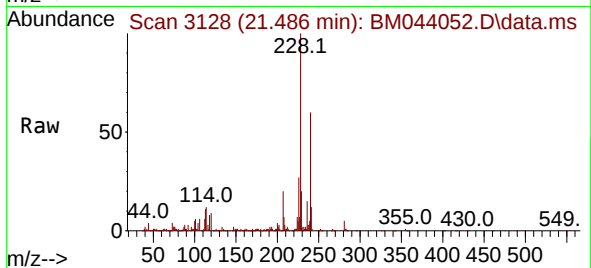
Tgt Ion:228 Resp: 403938

Ion Ratio Lower Upper

228 100

226 27.0 21.4 32.2

229 20.1 15.9 23.9



#82

3,3'-Dichlorobenzidine

Concen: 3.211 ng

RT: 21.427 min Scan# 3118

Delta R.T. -0.000 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

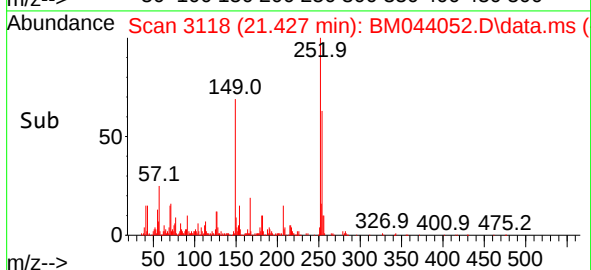
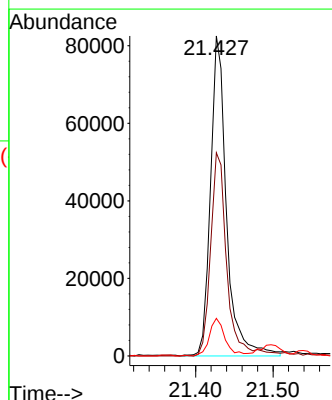
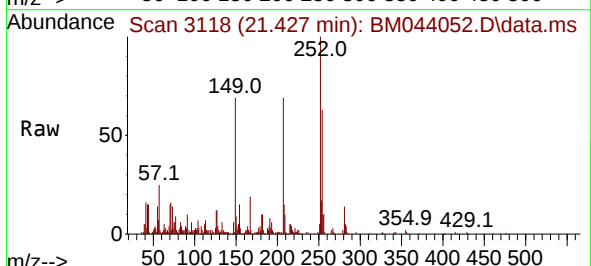
Tgt Ion:252 Resp: 118639

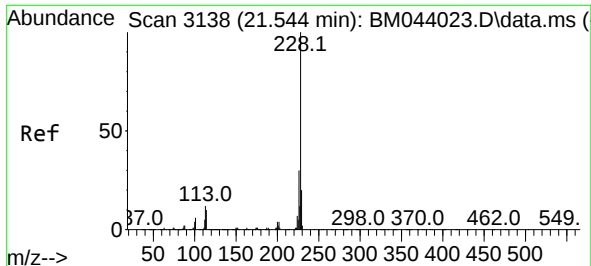
Ion Ratio Lower Upper

252 100

254 63.5 51.2 76.8

126 11.7 10.2 15.4

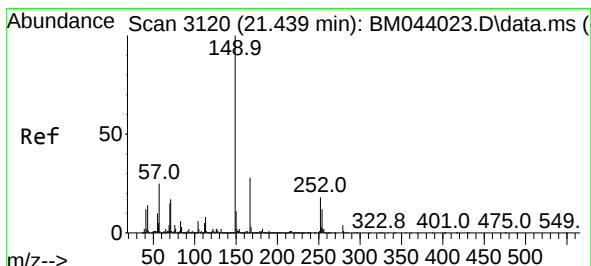
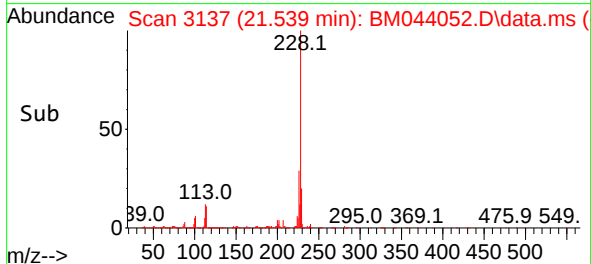
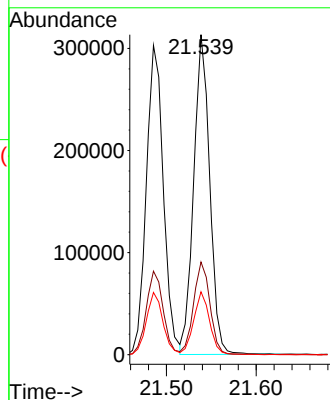
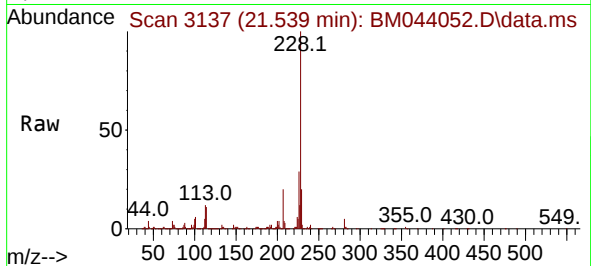




#83  
Chrysene  
Concen: 3.659 ng  
RT: 21.539 min Scan# 3137  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

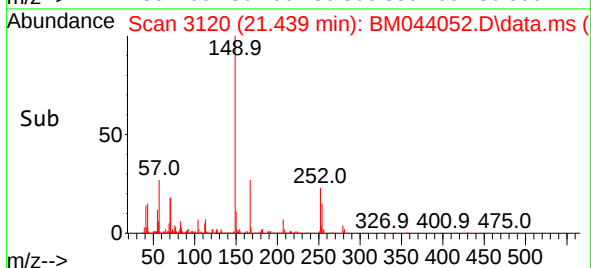
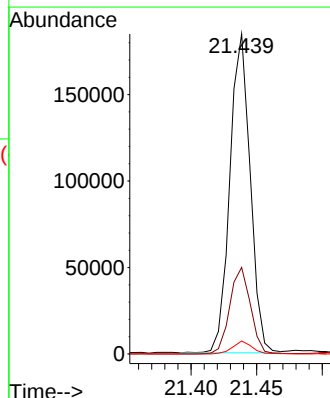
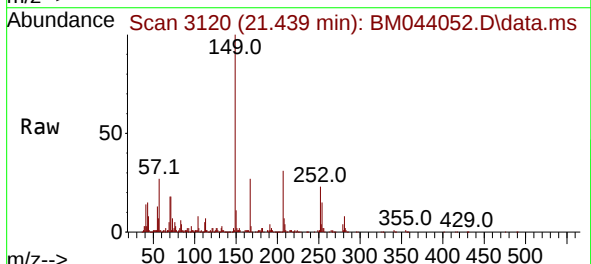
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

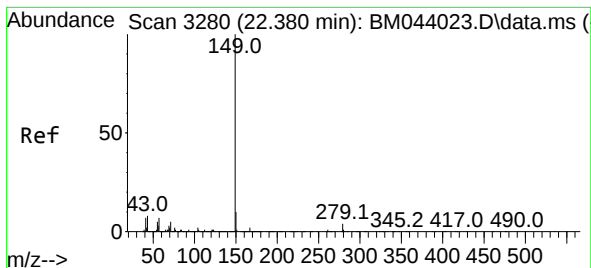
Tgt Ion:228 Resp: 389215  
Ion Ratio Lower Upper  
228 100  
226 28.9 24.2 36.2  
229 19.7 15.8 23.8



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 2.434 ng  
RT: 21.439 min Scan# 3120  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:149 Resp: 199005  
Ion Ratio Lower Upper  
149 100  
167 27.0 22.6 33.8  
279 4.0 3.1 4.7





#85

Di-n-octyl phthalate

Concen: 2.142 ng

RT: 22.374 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

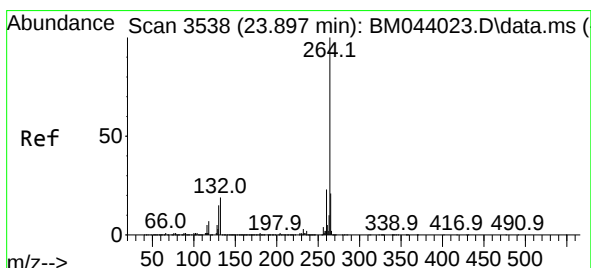
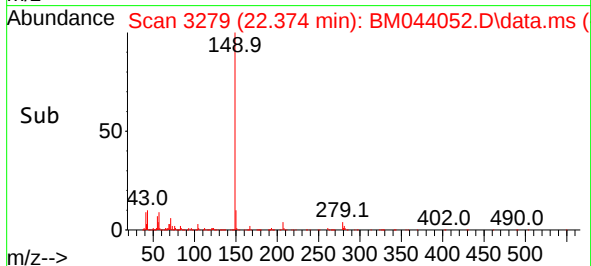
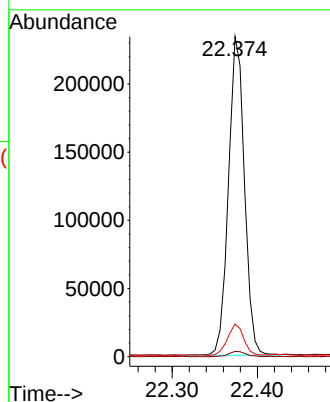
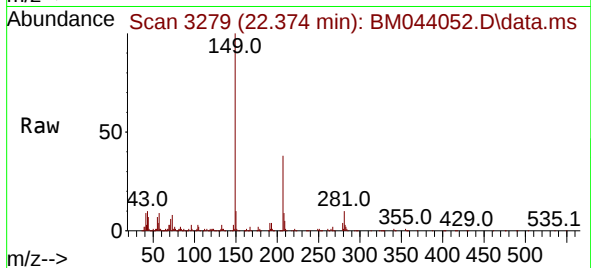
Tgt Ion:149 Resp: 305912

Ion Ratio Lower Upper

149 100

167 1.8 1.2 1.8#

43 10.0 7.0 10.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.897 min Scan# 3538

Delta R.T. -0.000 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

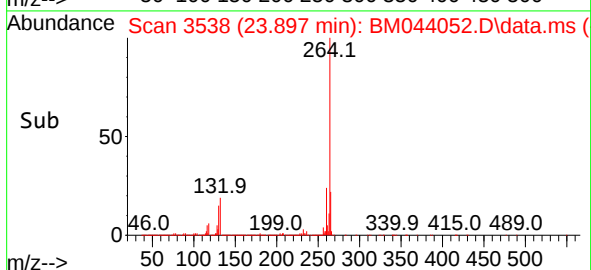
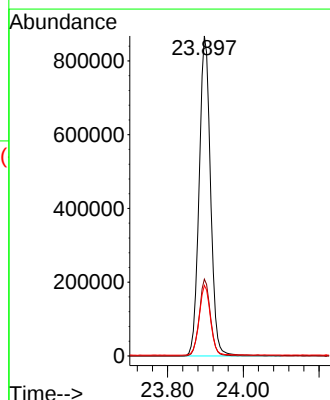
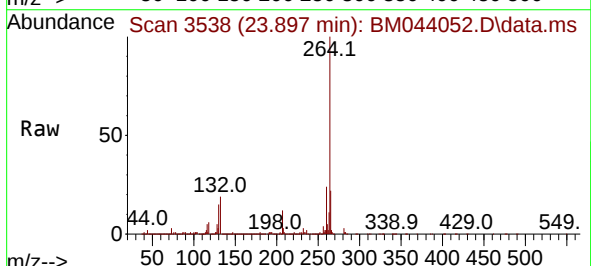
Tgt Ion:264 Resp: 1818477

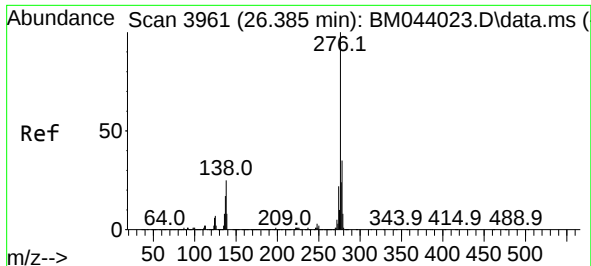
Ion Ratio Lower Upper

264 100

260 24.0 18.8 28.2

265 22.1 17.3 25.9

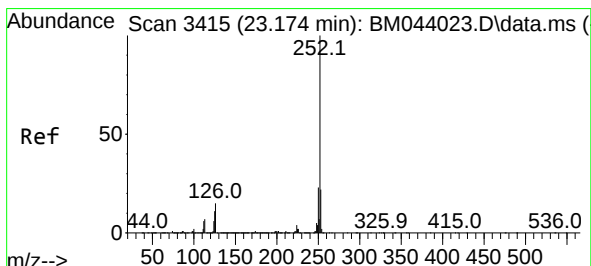
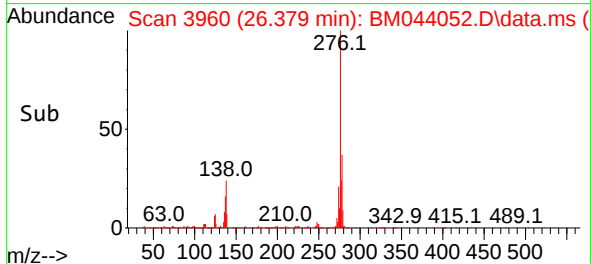
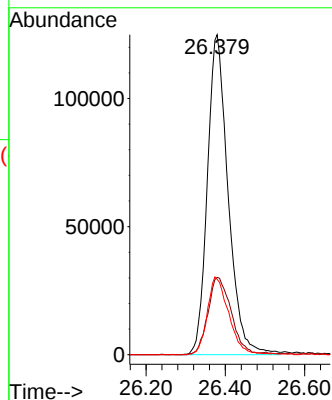
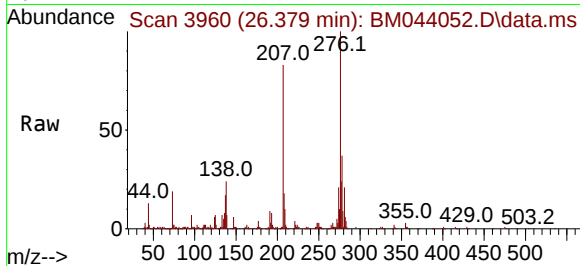




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.531 ng  
RT: 26.379 min Scan# 3961  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

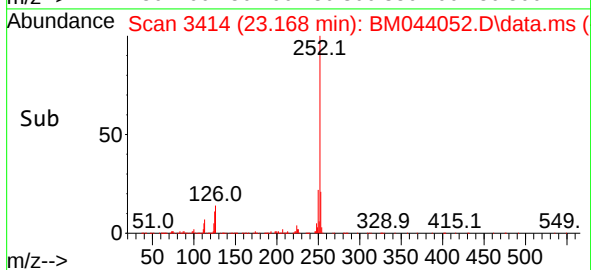
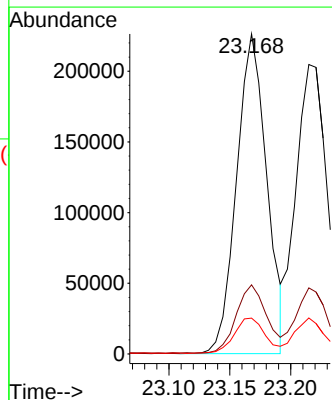
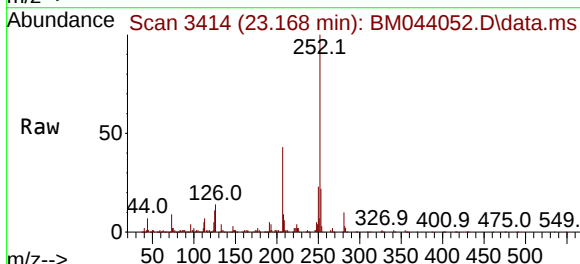
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

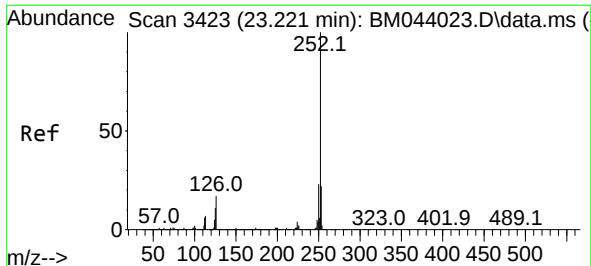
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 454439 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 27.1  | 22.6  | 34.0   |
| 277       | 24.9  | 20.2  | 30.2   |



#88  
Benzo(b)fluoranthene  
Concen: 3.423 ng  
RT: 23.168 min Scan# 3414  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 389087 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.6  | 17.6  | 26.4   |
| 125       | 11.2  | 8.8   | 13.2   |

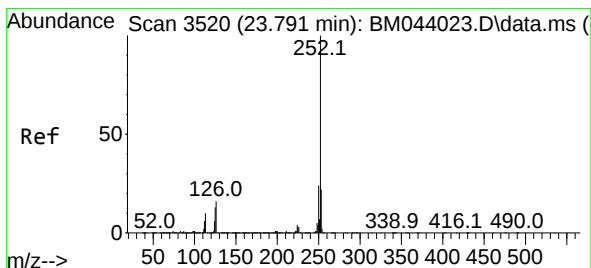
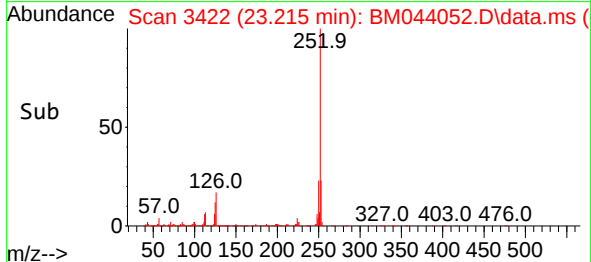
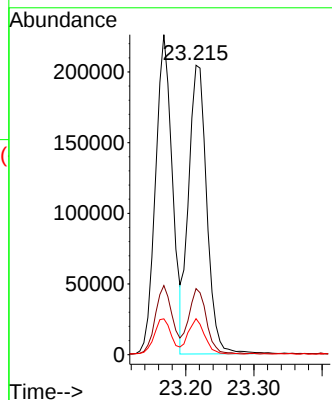
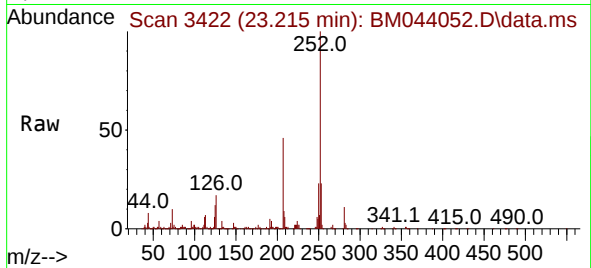




#89  
Benzo(k)fluoranthene  
Concen: 3.490 ng  
RT: 23.215 min Scan# 34  
Delta R.T. -0.006 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

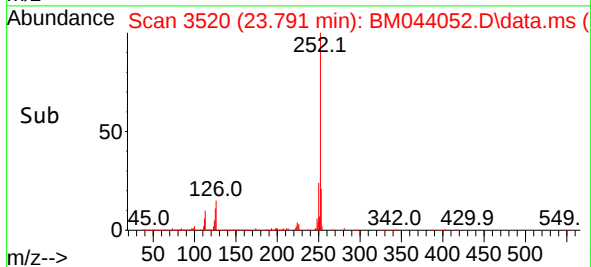
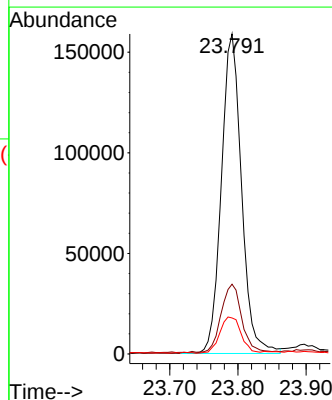
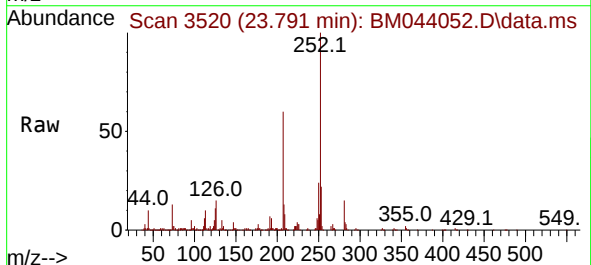
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2023

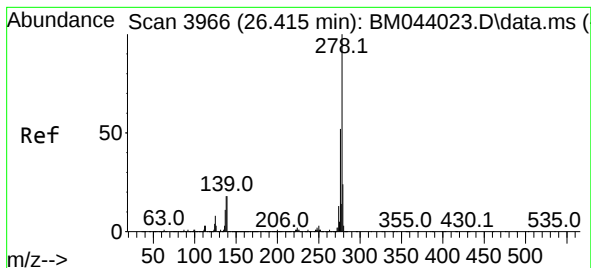
Tgt Ion:252 Resp: 376935  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.7 26.5  
125 12.4 9.0 13.4



#90  
Benzo(a)pyrene  
Concen: 3.293 ng  
RT: 23.791 min Scan# 3520  
Delta R.T. -0.000 min  
Lab File: BM044052.D  
Acq: 12 Feb 2024 12:17

Tgt Ion:252 Resp: 326985  
Ion Ratio Lower Upper  
252 100  
253 21.8 17.7 26.5  
125 11.2 10.1 15.1





#91

Dibenzo(a,h)anthracene

Concen: 3.553 ng

RT: 26.403 min Scan# 3966

Delta R.T. -0.012 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2023

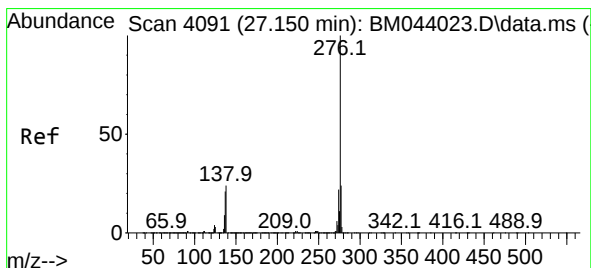
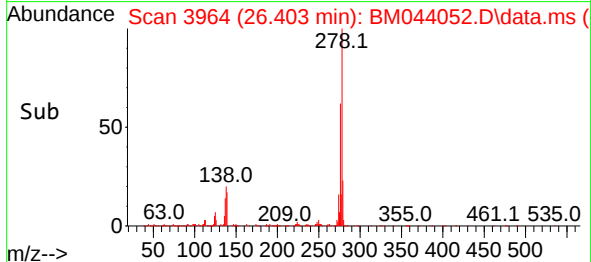
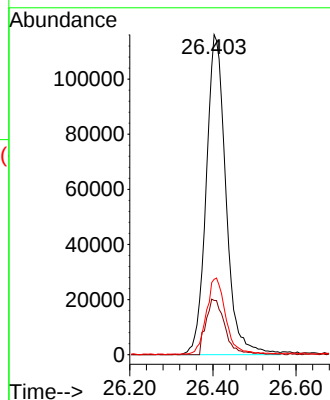
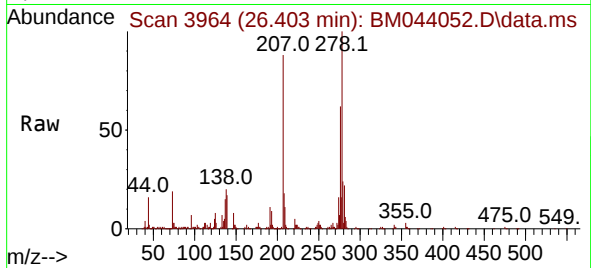
Tgt Ion:278 Resp: 382542

Ion Ratio Lower Upper

278 100

139 17.0 14.5 21.7

279 23.6 18.9 28.3



#92

Benzo(g,h,i)perylene

Concen: 3.432 ng

RT: 27.138 min Scan# 4089

Delta R.T. -0.012 min

Lab File: BM044052.D

Acq: 12 Feb 2024 12:17

Tgt Ion:276 Resp: 374735

Ion Ratio Lower Upper

276 100

277 22.4 19.0 28.4

138 21.9 19.1 28.7

