

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081324\  
 Data File : BM047170.D  
 Acq On : 13 Aug 2024 11:02  
 Operator : RC/JU  
 Sample : P3390-03  
 Misc : MDL-MDL-SOIL-4NG  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2024

Quant Time: Aug 13 12:39:19 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM081024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Aug 11 23:47:58 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.369  | 152  | 182499   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.128 | 136  | 787140   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.027 | 164  | 510539   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 16.792 | 188  | 1115889  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.027 | 240  | 1090704  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.721 | 264  | 1358635  | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.022  | 112  | 1305970  | 127.867 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.581  | 99   | 1777709  | 126.318 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.516  | 82   | 1352145  | 86.497  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.539 | 330  | 775824   | 131.056 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.639 | 172  | 2646970  | 79.975  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.456 | 244  | 4293965  | 84.358  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.034  | 88   | 19970    | 4.719   | ng    | 95       |
| 3) Pyridine                   | 3.422  | 79   | 48983    | 3.947   | ng    | # 94     |
| 4) n-Nitrosodimethylamine     | 3.334  | 42   | 22821    | 4.209   | ng    | # 89     |
| 6) Aniline                    | 6.722  | 93   | 69546    | 5.228   | ng    | 99       |
| 8) 2-Chlorophenol             | 6.945  | 128  | 48496    | 4.353   | ng    | 95       |
| 9) Benzaldehyde               | 6.534  | 77   | 53094    | 4.904   | ng    | 96       |
| 10) Phenol                    | 6.604  | 94   | 57477    | 4.093   | ng    | 86       |
| 11) bis(2-Chloroethyl)ether   | 6.822  | 93   | 53216    | 4.425   | ng    | 95       |
| 12) 1,3-Dichlorobenzene       | 7.257  | 146  | 56194    | 4.245   | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 7.404  | 146  | 56357    | 4.205   | ng    | 94       |
| 14) 1,2-Dichlorobenzene       | 7.716  | 146  | 54561    | 4.315   | ng    | 99       |
| 15) Benzyl Alcohol            | 7.622  | 79   | 39231    | 3.917   | ng    | 97       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.892  | 45   | 75425    | 4.888   | ng    | 97       |
| 17) 2-Methylphenol            | 7.828  | 107  | 38936    | 4.156   | ng    | 94       |
| 18) Hexachloroethane          | 8.422  | 117  | 22552    | 4.344   | ng    | # 83     |
| 19) n-Nitroso-di-n-propyla... | 8.181  | 70   | 44155    | 4.658   | ng    | 95       |
| 20) 3+4-Methylphenols         | 8.157  | 107  | 52060    | 3.975   | ng    | 97       |
| 22) Acetophenone              | 8.192  | 105  | 85472    | 4.498   | ng    | # 95     |
| 24) Nitrobenzene              | 8.557  | 77   | 66074    | 4.198   | ng    | 95       |
| 25) Isophorone                | 9.086  | 82   | 110590   | 4.063   | ng    | 99       |
| 26) 2-Nitrophenol             | 9.263  | 139  | 21737    | 3.118   | ng    | # 90     |
| 27) 2,4-Dimethylphenol        | 9.339  | 122  | 29623    | 3.628   | ng    | 93       |
| 28) bis(2-Chloroethoxy)met... | 9.575  | 93   | 70635    | 4.124   | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 9.798  | 162  | 41719    | 3.443   | ng    | 95       |
| 30) 1,2,4-Trichlorobenzene    | 9.998  | 180  | 51151    | 3.730   | ng    | 97       |
| 31) Naphthalene               | 10.175 | 128  | 166201   | 4.238   | ng    | 99       |
| 32) Benzoic acid              | 9.428  | 122  | 20908    | 2.204   | ng    | 95       |
| 33) 4-Chloroaniline           | 10.304 | 127  | 62217    | 4.126   | ng    | 100      |
| 34) Hexachlorobutadiene       | 10.463 | 225  | 27240    | 3.394   | ng    | 95       |
| 35) Caprolactam               | 11.086 | 113  | 13428    | 3.191   | ng    | # 85     |
| 36) 4-Chloro-3-methylphenol   | 11.445 | 107  | 45957    | 3.562   | ng    | 94       |
| 37) 2-Methylnaphthalene       | 11.804 | 142  | 111009   | 3.976   | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.027 | 142  | 107209   | 3.885   | ng    | 96       |
| 40) 1,2,4,5-Tetrachloroben... | 12.180 | 216  | 51229    | 3.679   | ng    | # 98     |
| 41) Hexachlorocyclopentadiene | 12.163 | 237  | 18315    | 3.767   | ng    | 88       |
| 43) 2,4,6-Trichlorophenol     | 12.445 | 196  | 32137    | 3.247   | ng    | 96       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081324\  
 Data File : BM047170.D  
 Acq On : 13 Aug 2024 11:02  
 Operator : RC/JU  
 Sample : P3390-03  
 Misc : MDL-MDL-SOIL-4NG  
 ALS Vial : 5 Sample Multiplier: 1

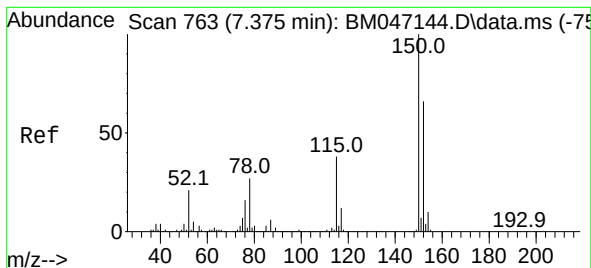
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT3-2024

Quant Time: Aug 13 12:39:19 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM081024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Aug 11 23:47:58 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.522 | 196  | 34248    | 3.116 | ng    | 96       |
| 46) 1,1'-Biphenyl             | 12.851 | 154  | 159606   | 4.391 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 12.886 | 162  | 118012   | 4.154 | ng    | 97       |
| 48) 2-Nitroaniline            | 13.110 | 65   | 31291    | 3.516 | ng    | # 84     |
| 49) Acenaphthylene            | 13.745 | 152  | 188284   | 4.496 | ng    | 100      |
| 50) Dimethylphthalate         | 13.504 | 163  | 146278   | 4.102 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 13.621 | 165  | 27823    | 3.338 | ng    | 91       |
| 52) Acenaphthene              | 14.092 | 154  | 111099   | 4.183 | ng    | 96       |
| 53) 3-Nitroaniline            | 13.957 | 138  | 28469    | 3.409 | ng    | # 84     |
| 54) 2,4-Dinitrophenol         | 14.174 | 184  | 9367     | 1.875 | ng    | 97       |
| 55) Dibenzofuran              | 14.433 | 168  | 184354   | 4.394 | ng    | 97       |
| 56) 4-Nitrophenol             | 14.298 | 139  | 20948    | 2.909 | ng    | 91       |
| 57) 2,4-Dinitrotoluene        | 14.421 | 165  | 35624    | 3.202 | ng    | # 70     |
| 58) Fluorene                  | 15.092 | 166  | 145123   | 4.192 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol | 14.674 | 232  | 32170    | 3.562 | ng    | 91       |
| 60) Diethylphthalate          | 14.892 | 149  | 145081   | 3.984 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.098 | 204  | 67429    | 4.091 | ng    | 99       |
| 62) 4-Nitroaniline            | 15.127 | 138  | 27418    | 3.332 | ng    | 94       |
| 63) Azobenzene                | 15.392 | 77   | 153047   | 4.433 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.192 | 198  | 15529    | 2.377 | ng    | 88       |
| 66) n-Nitrosodiphenylamine    | 15.315 | 169  | 121771   | 4.006 | ng    | 97       |
| 67) 4-Bromophenyl-phenylether | 15.992 | 248  | 37598    | 3.497 | ng    | 92       |
| 68) Hexachlorobenzene         | 16.098 | 284  | 48639    | 3.777 | ng    | 96       |
| 69) Atrazine                  | 16.286 | 200  | 38087    | 4.164 | ng    | 97       |
| 70) Pentachlorophenol         | 16.451 | 266  | 23461    | 2.599 | ng    | 98       |
| 71) Phenanthrene              | 16.833 | 178  | 244898   | 4.373 | ng    | 99       |
| 72) Anthracene                | 16.921 | 178  | 225516   | 4.139 | ng    | 100      |
| 73) Carbazole                 | 17.204 | 167  | 218839   | 3.933 | ng    | 99       |
| 74) Di-n-butylphthalate       | 17.792 | 149  | 236591   | 3.655 | ng    | # 98     |
| 75) Fluoranthene              | 18.868 | 202  | 253799   | 3.726 | ng    | 98       |
| 77) Benzidine                 | 19.074 | 184  | 71948    | 3.890 | ng    | 99       |
| 78) Pyrene                    | 19.233 | 202  | 275824   | 3.542 | ng    | 97       |
| 80) Butylbenzylphthalate      | 20.174 | 149  | 100391   | 3.159 | ng    | 93       |
| 81) Benzo(a)anthracene        | 21.009 | 228  | 282431   | 3.901 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 20.956 | 252  | 85234    | 3.762 | ng    | 97       |
| 83) Chrysene                  | 21.068 | 228  | 273990   | 3.988 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 20.974 | 149  | 149049   | 3.307 | ng    | 95       |
| 85) Di-n-octyl phthalate      | 22.003 | 149  | 229077   | 2.990 | ng    | # 96     |
| 87) Indeno(1,2,3-cd)pyrene    | 26.709 | 276  | 352379   | 4.013 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 22.880 | 252  | 287423   | 3.562 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 22.933 | 252  | 288710   | 3.788 | ng    | 98       |
| 90) Benzo(a)pyrene            | 23.591 | 252  | 258453   | 3.698 | ng    | # 98     |
| 91) Dibenzo(a,h)anthracene    | 26.756 | 278  | 291958   | 4.108 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 27.626 | 276  | 289415   | 3.922 | ng    | 98       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.369 min Scan# 7

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

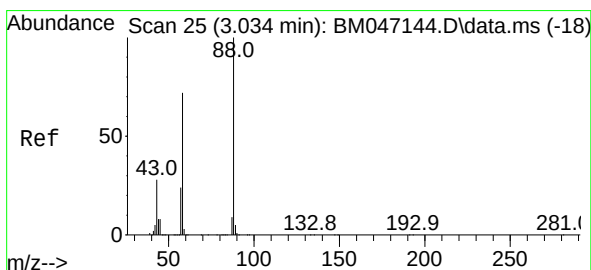
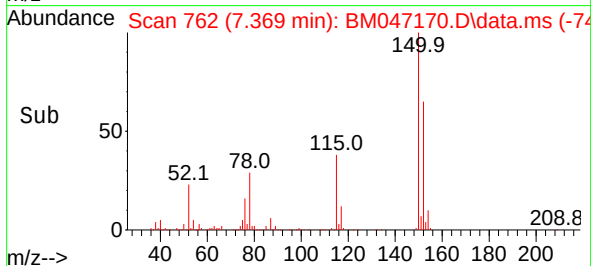
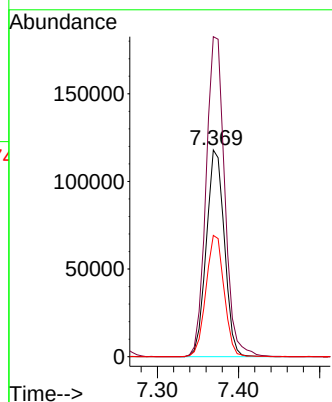
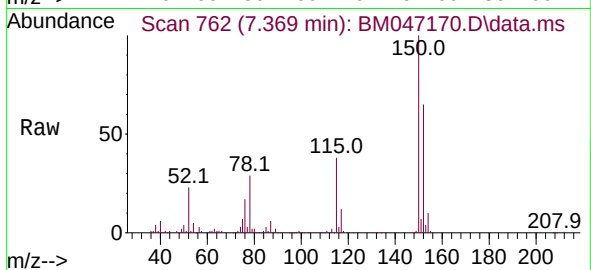
Tgt Ion:152 Resp: 182499

Ion Ratio Lower Upper

152 100

150 154.7 120.5 180.7

115 58.7 45.5 68.3



#2

1,4-Dioxane

Concen: 4.719 ng

RT: 3.034 min Scan# 25

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

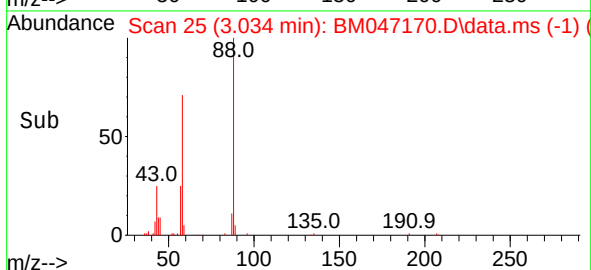
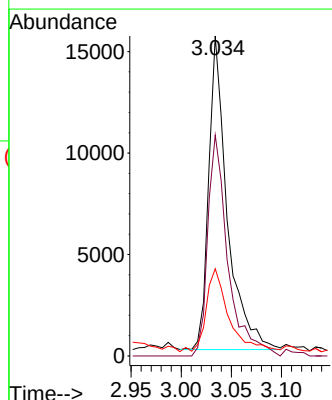
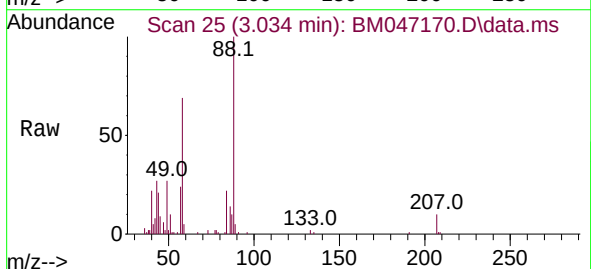
Tgt Ion: 88 Resp: 19970

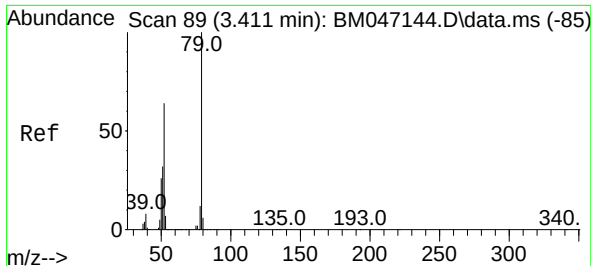
Ion Ratio Lower Upper

88 100

58 75.9 58.2 87.4

43 32.2 22.5 33.7

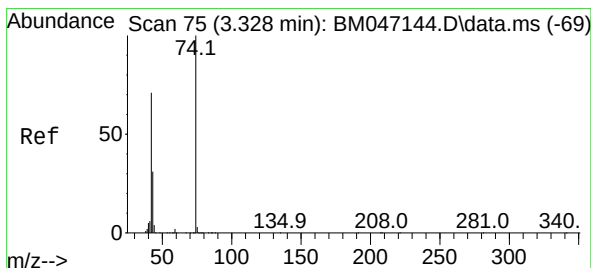
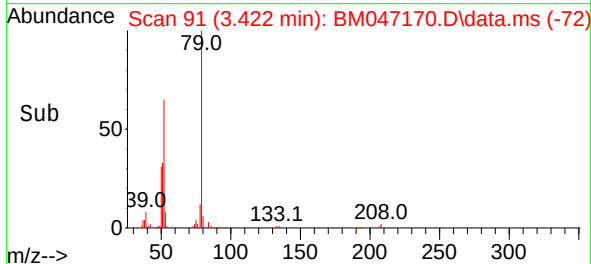
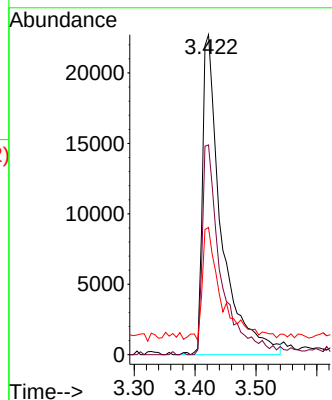
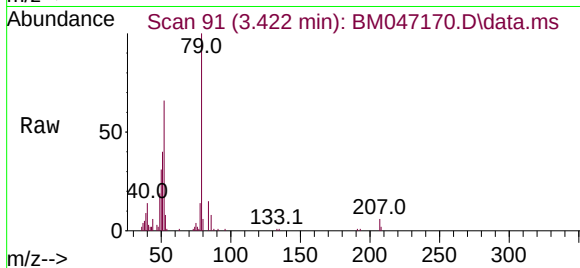




#3  
Pyridine  
Concen: 3.947 ng  
RT: 3.422 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

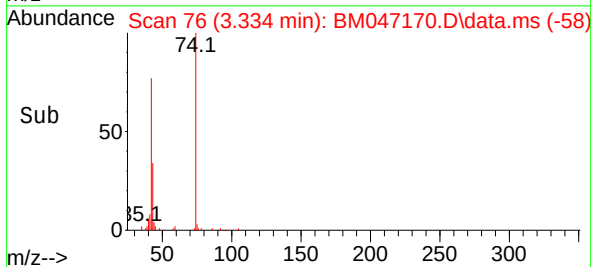
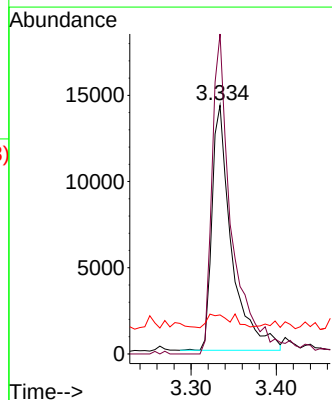
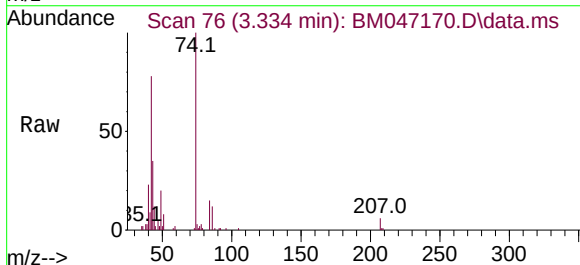
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

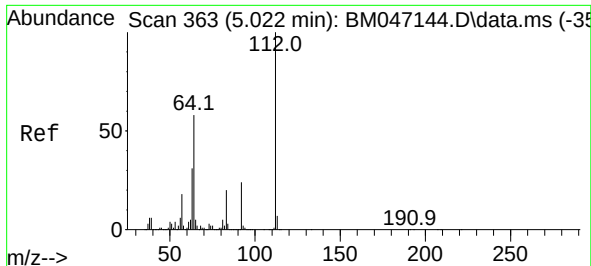
Tgt Ion: 79 Resp: 48983  
Ion Ratio Lower Upper  
79 100  
52 65.6 51.2 76.8  
51 39.8 26.1 39.1#



#4  
n-Nitrosodimethylamine  
Concen: 4.209 ng  
RT: 3.334 min Scan# 76  
Delta R.T. 0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion: 42 Resp: 22821  
Ion Ratio Lower Upper  
42 100  
74 128.7 112.9 169.3  
44 15.7 5.3 7.9#

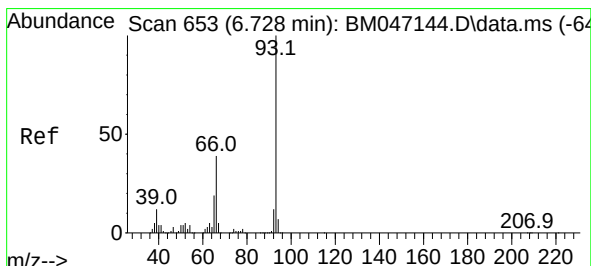
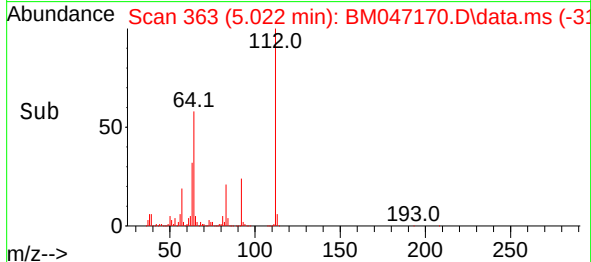
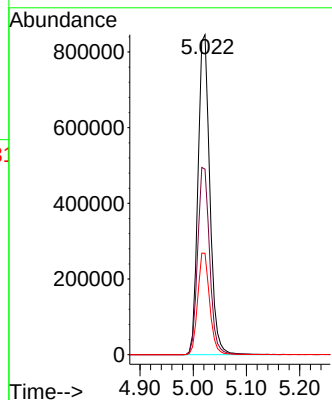
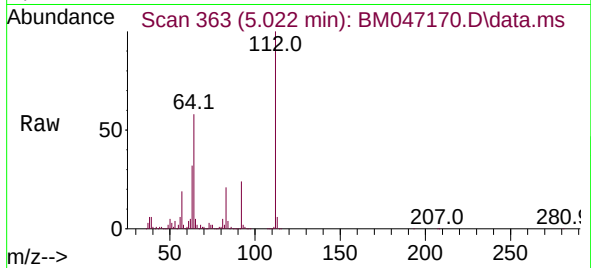




#5  
2-Fluorophenol  
Concen: 127.867 ng  
RT: 5.022 min Scan# 363  
Delta R.T. -0.000 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

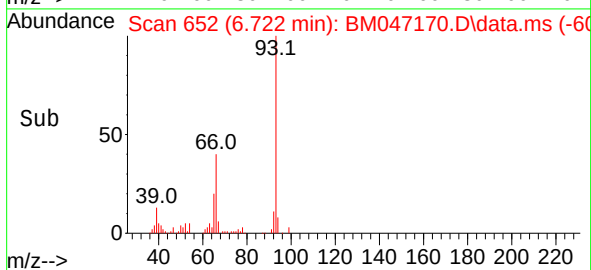
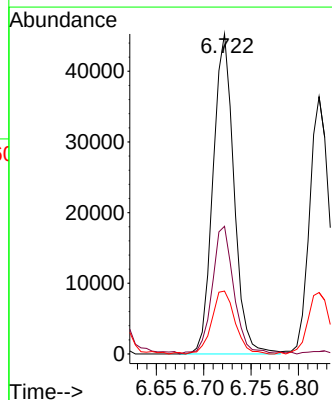
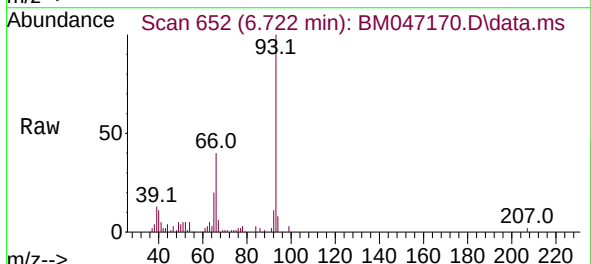
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

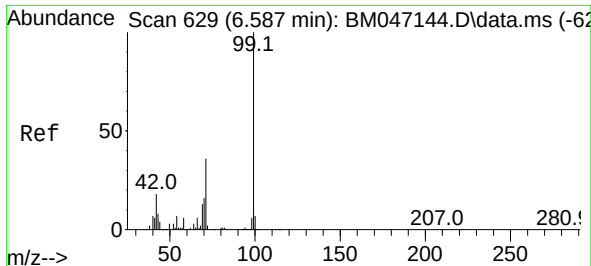
Tgt Ion:112 Resp: 1305970  
Ion Ratio Lower Upper  
112 100  
64 58.0 46.7 70.1  
63 31.7 24.8 37.2



#6  
Aniline  
Concen: 5.228 ng  
RT: 6.722 min Scan# 652  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion: 93 Resp: 69546  
Ion Ratio Lower Upper  
93 100  
66 39.9 31.4 47.2  
65 19.7 15.6 23.4

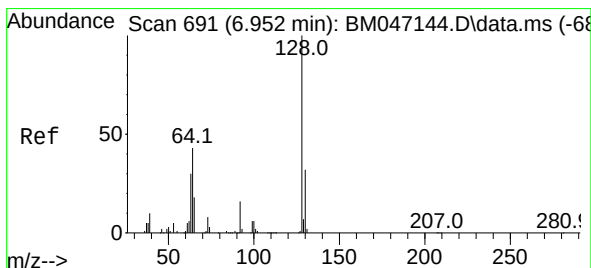
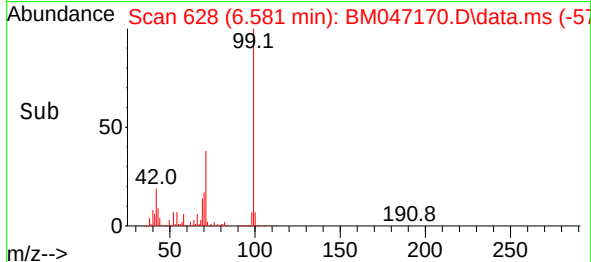
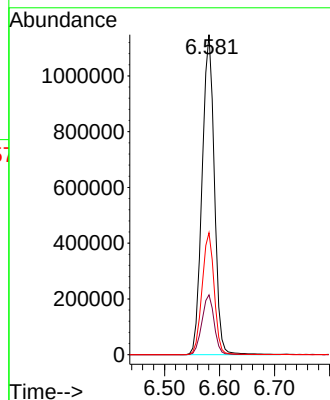
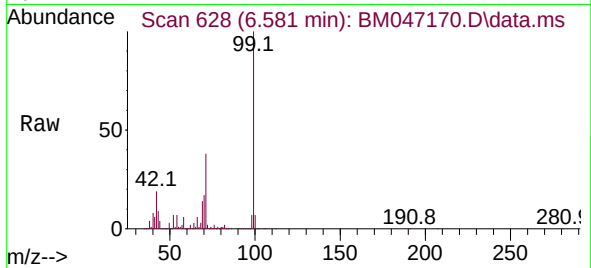




#7  
Phenol-d6  
Concen: 126.318 ng  
RT: 6.581 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

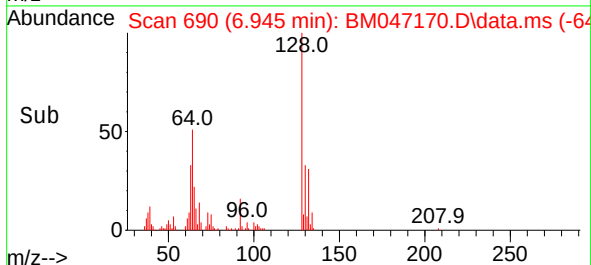
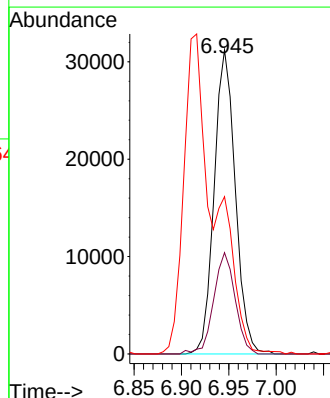
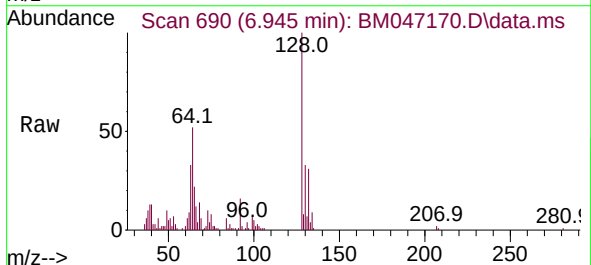
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

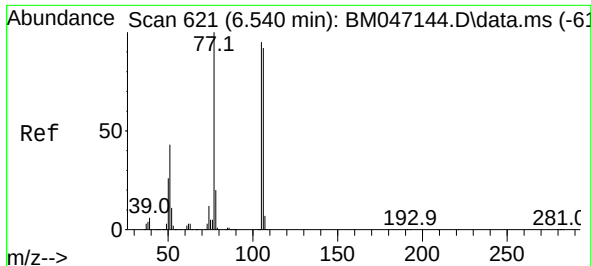
Tgt Ion: 99 Resp: 1777709  
Ion Ratio Lower Upper  
99 100  
42 18.7 14.1 21.1  
71 38.1 28.5 42.7



#8  
2-Chlorophenol  
Concen: 4.353 ng  
RT: 6.945 min Scan# 690  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion: 128 Resp: 48496  
Ion Ratio Lower Upper  
128 100  
130 33.3 12.1 52.1  
64 51.7 26.6 66.6

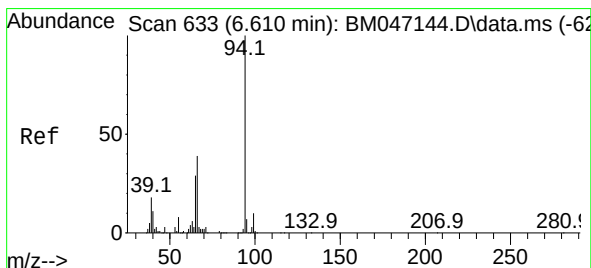
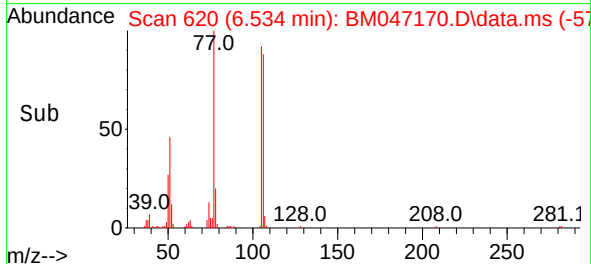
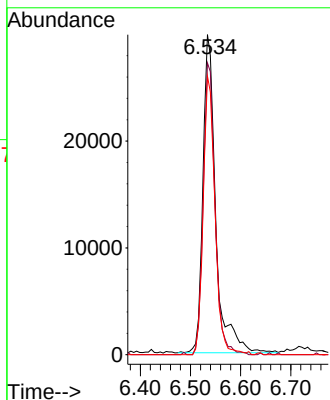
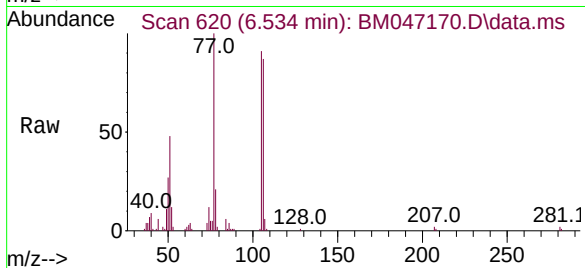




#9  
Benzaldehyde  
Concen: 4.904 ng  
RT: 6.534 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

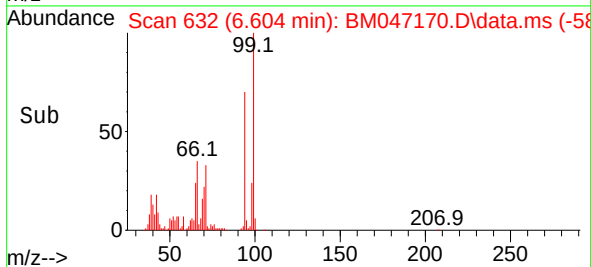
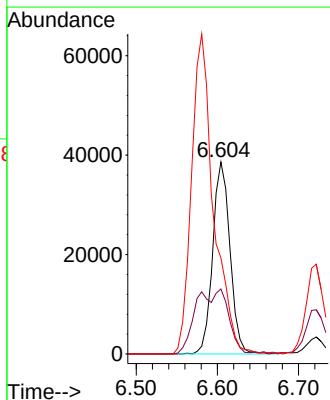
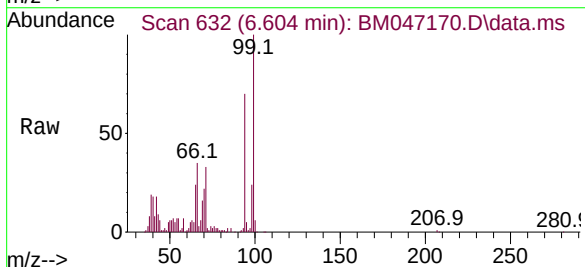
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

Tgt Ion: 77 Resp: 53094  
Ion Ratio Lower Upper  
77 100  
105 91.1 74.5 114.5  
106 87.0 72.3 112.3

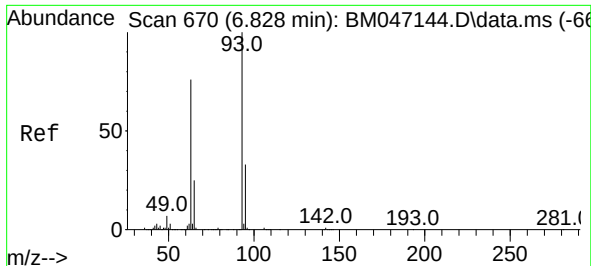


#10  
Phenol  
Concen: 4.093 ng  
RT: 6.604 min Scan# 632  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion: 94 Resp: 57477  
Ion Ratio Lower Upper  
94 100  
65 33.8 9.0 49.0  
66 50.0 18.9 58.9



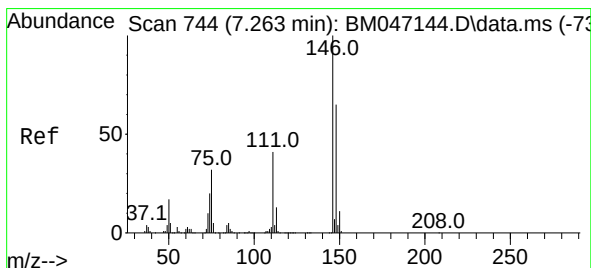
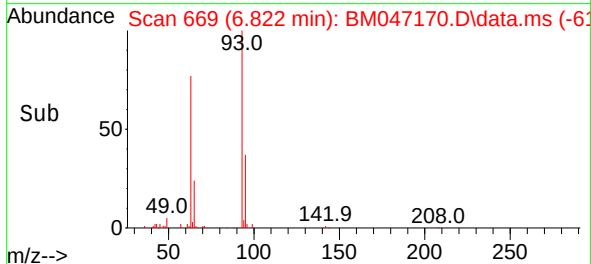
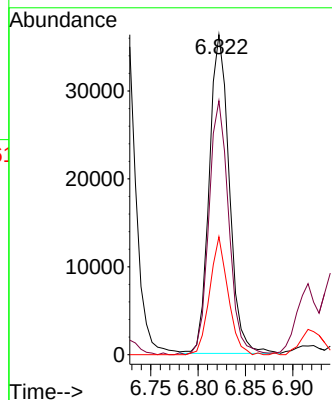
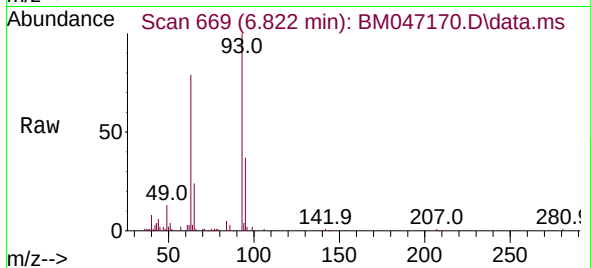




#11  
bis(2-Chloroethyl)ether  
Concen: 4.425 ng  
RT: 6.822 min Scan# 669  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

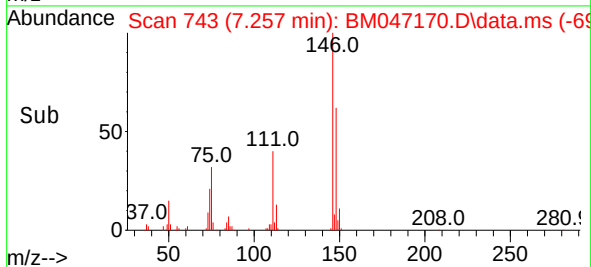
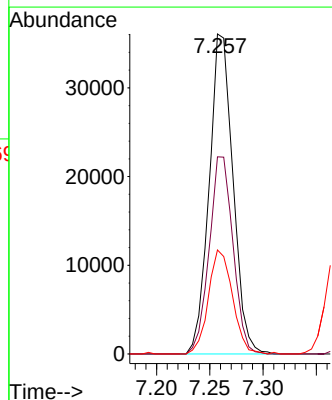
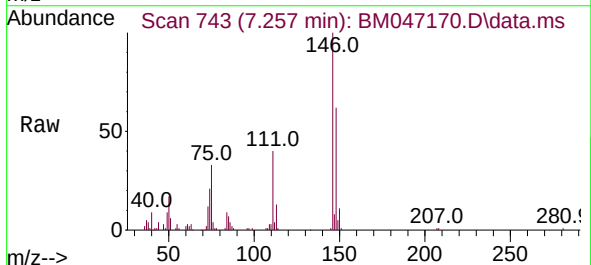
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

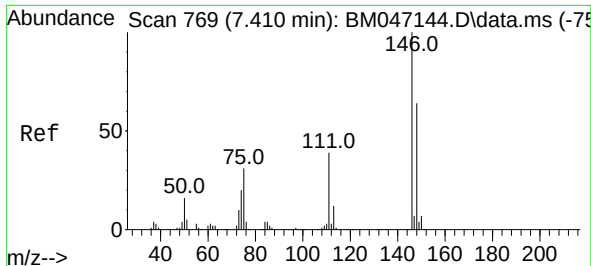
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 53216 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 79.3  | 55.8  | 95.8  |
| 95       | 36.8  | 12.7  | 52.7  |



#12  
1,3-Dichlorobenzene  
Concen: 4.245 ng  
RT: 7.257 min Scan# 743  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 56194 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 148      | 61.6  | 52.3  | 78.5  |
| 75       | 32.5  | 25.8  | 38.6  |

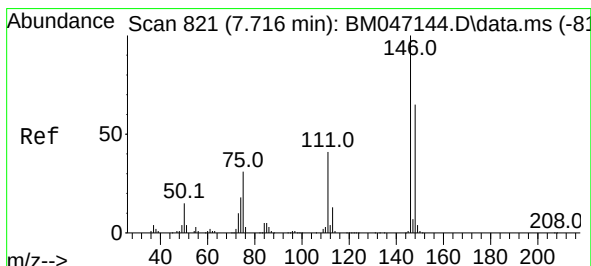
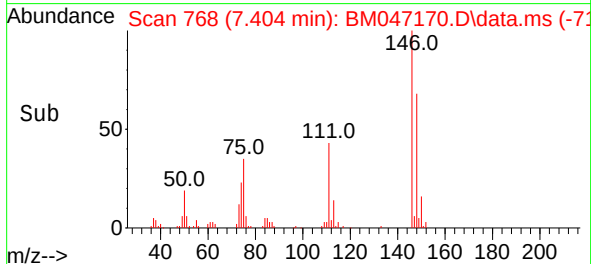
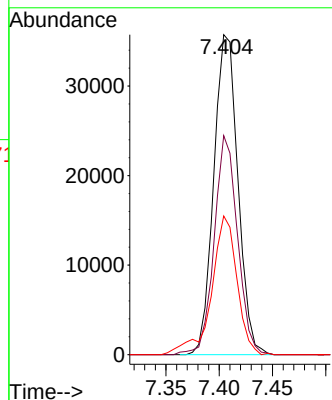
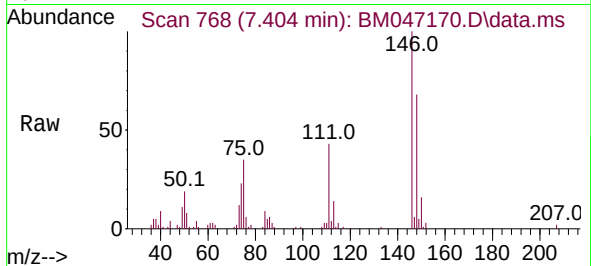




#13  
1,4-Dichlorobenzene  
Concen: 4.205 ng  
RT: 7.404 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

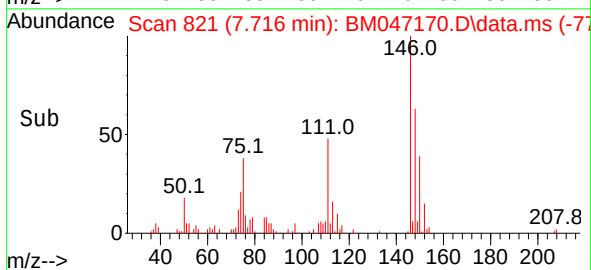
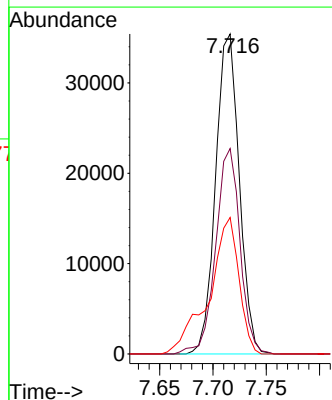
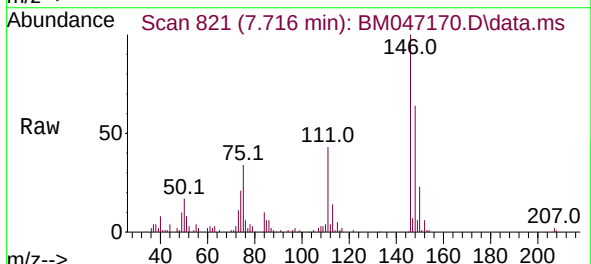
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

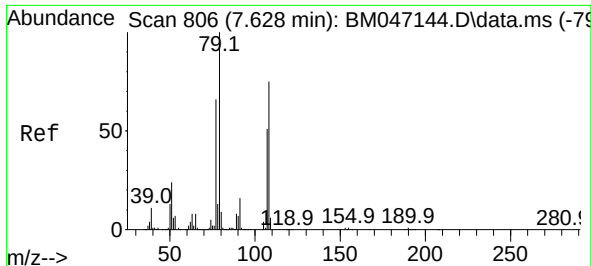
Tgt Ion:146 Resp: 56357  
Ion Ratio Lower Upper  
146 100  
148 68.4 51.4 77.2  
111 43.4 31.5 47.3



#14  
1,2-Dichlorobenzene  
Concen: 4.315 ng  
RT: 7.716 min Scan# 821  
Delta R.T. -0.000 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion:146 Resp: 54561  
Ion Ratio Lower Upper  
146 100  
148 64.2 51.8 77.8  
111 42.7 33.3 49.9

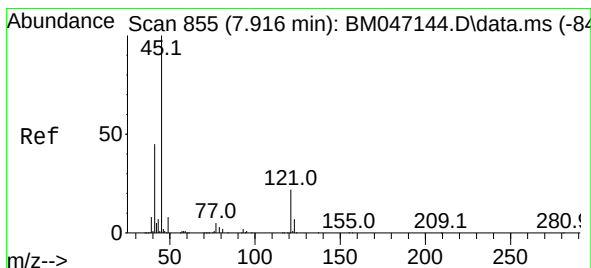
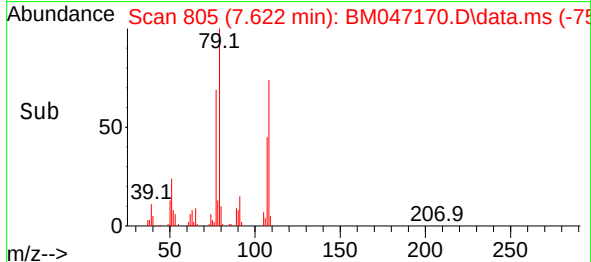
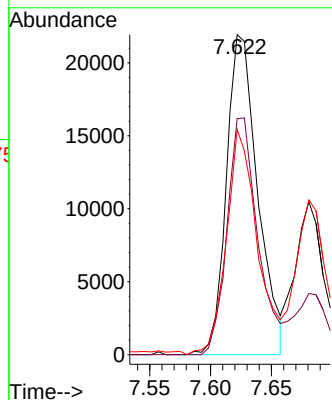
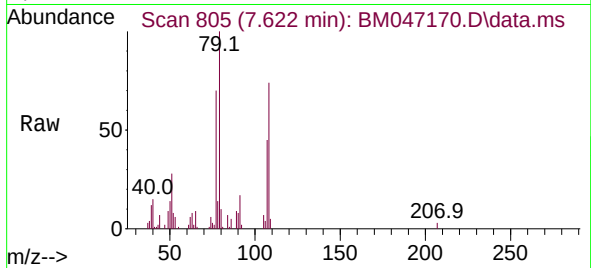




#15  
Benzyl Alcohol  
Concen: 3.917 ng  
RT: 7.622 min Scan# 805  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

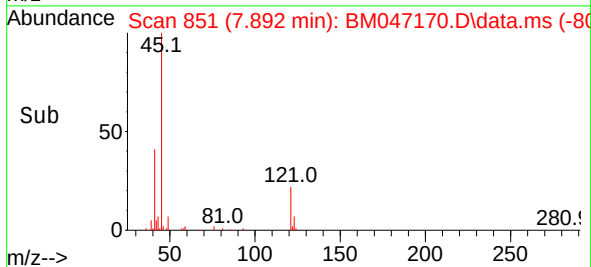
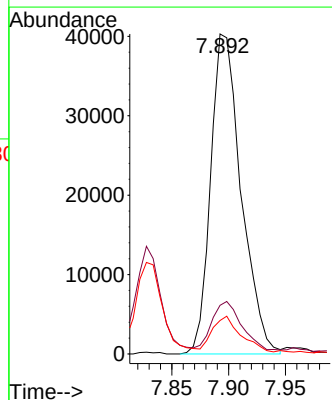
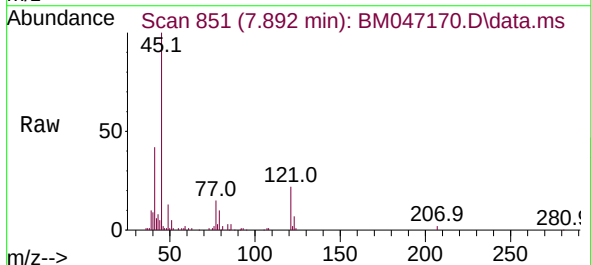
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

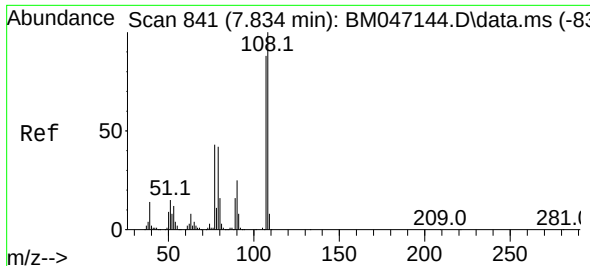
Tgt Ion: 79 Resp: 39231  
Ion Ratio Lower Upper  
79 100  
108 73.8 59.7 89.5  
77 70.4 52.9 79.3



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 4.888 ng  
RT: 7.892 min Scan# 851  
Delta R.T. -0.024 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion: 45 Resp: 75425  
Ion Ratio Lower Upper  
45 100  
77 15.2 0.0 35.6  
79 10.4 0.0 32.4

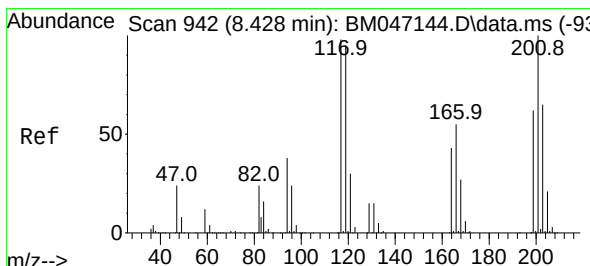
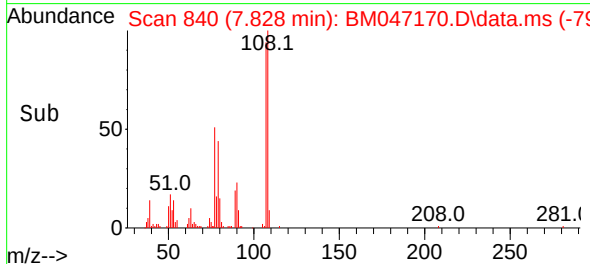
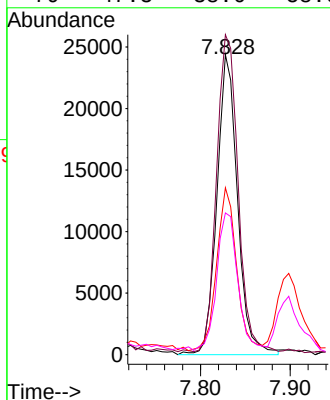
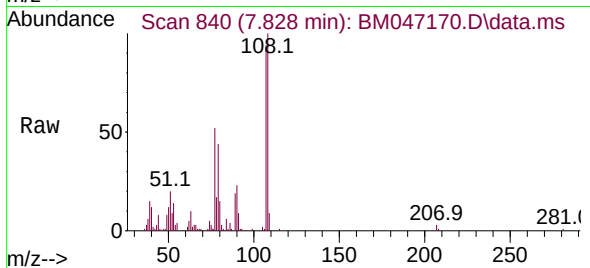




#17  
2-Methylphenol  
Concen: 4.156 ng  
RT: 7.828 min Scan# 841  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

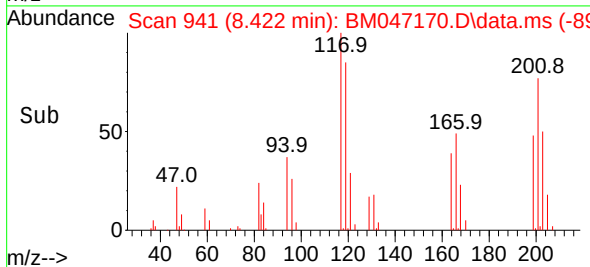
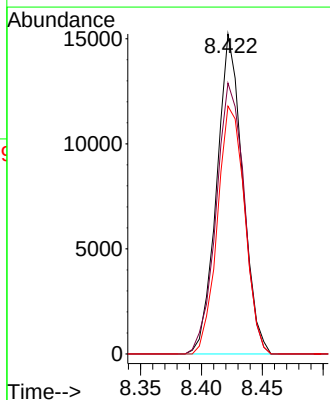
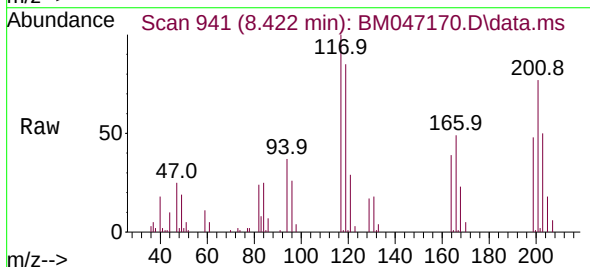
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

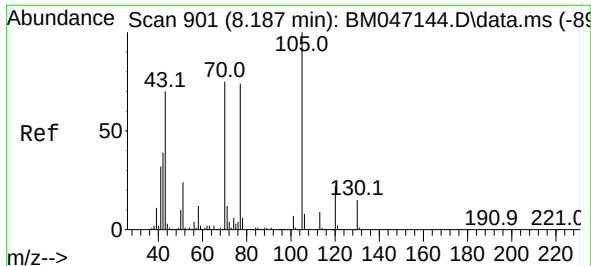
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 38936 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 106.7 | 90.6  | 135.8 |
| 77       | 55.6  | 39.3  | 58.9  |
| 79       | 47.3  | 38.6  | 58.0  |



#18  
Hexachloroethane  
Concen: 4.344 ng  
RT: 8.422 min Scan# 941  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 22552  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 84.7  | 77.0  | 115.4  |
| 201      | 79.0  | 81.3  | 121.9# |

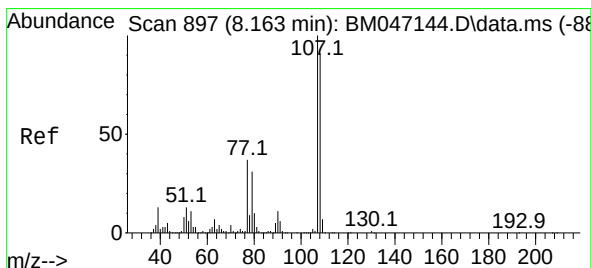
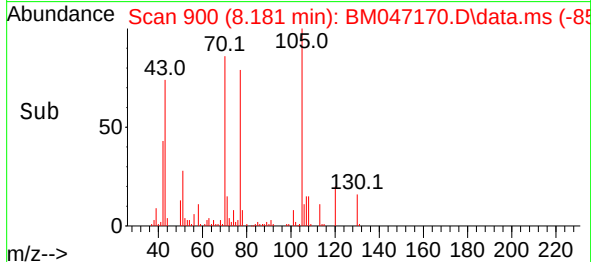
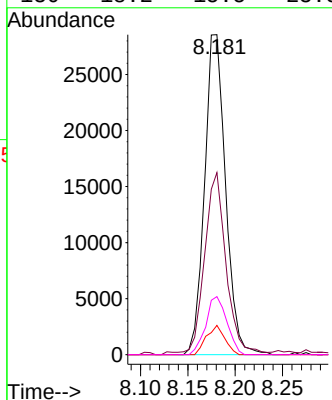
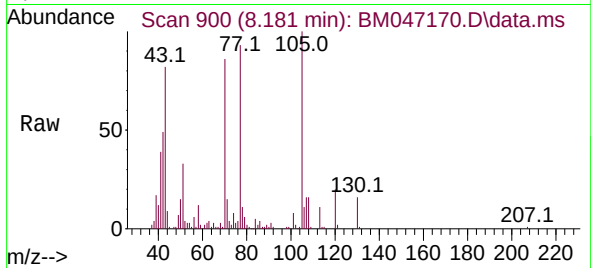




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.658 ng  
RT: 8.181 min Scan# 901  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

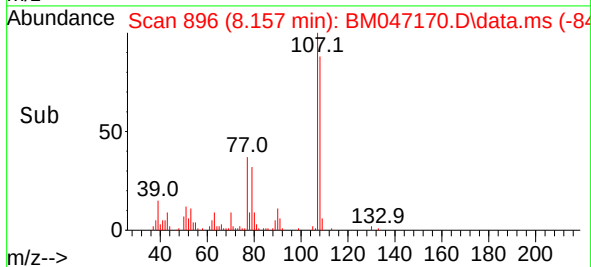
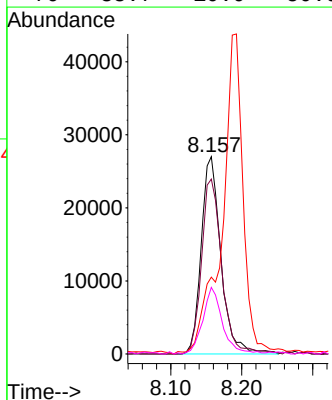
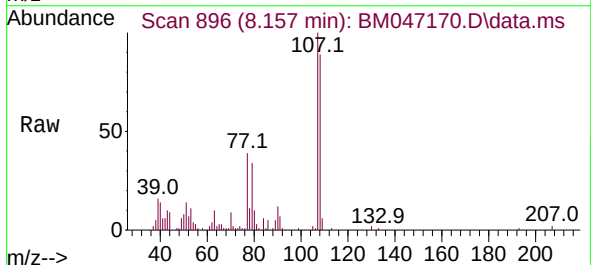
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

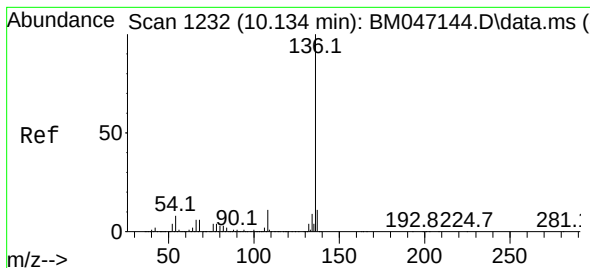
|             |                |
|-------------|----------------|
| Tgt Ion: 70 | Resp: 44155    |
| Ion Ratio   | Lower Upper    |
| 70          | 100            |
| 42          | 56.9 42.0 63.0 |
| 101         | 9.2 7.2 10.8   |
| 130         | 18.2 15.5 23.3 |



#20  
3+4-Methylphenols  
Concen: 3.975 ng  
RT: 8.157 min Scan# 896  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

|              |                 |
|--------------|-----------------|
| Tgt Ion: 107 | Resp: 52060     |
| Ion Ratio    | Lower Upper     |
| 107          | 100             |
| 108          | 88.7 70.7 110.7 |
| 77           | 38.9 17.4 57.4  |
| 79           | 33.7 10.9 50.9  |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.128 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

Tgt Ion:136 Resp: 787140

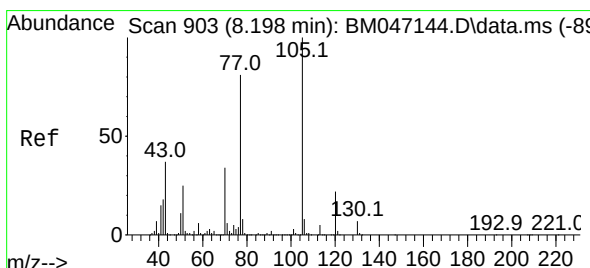
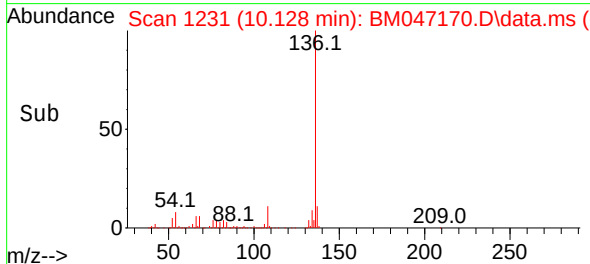
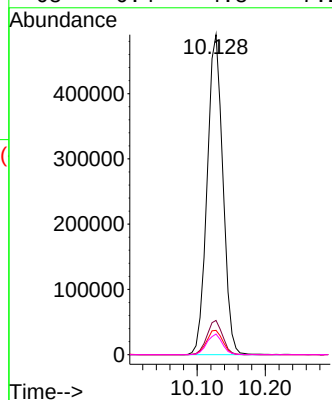
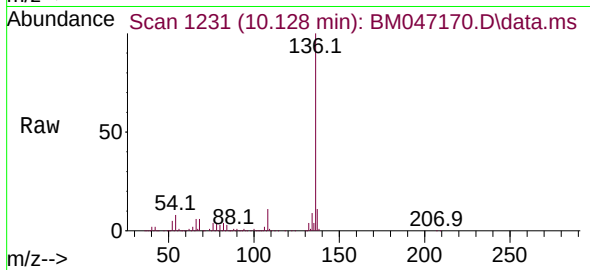
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 7.6 6.0 9.0

68 6.4 4.8 7.2



#22

Acetophenone

Concen: 4.498 ng

RT: 8.192 min Scan# 902

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Tgt Ion:105 Resp: 85472

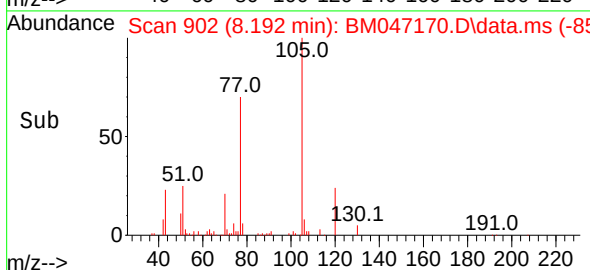
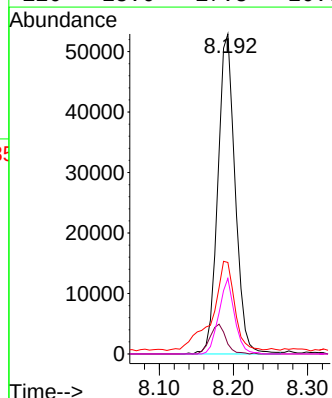
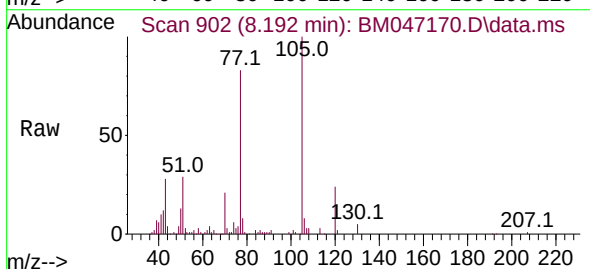
Ion Ratio Lower Upper

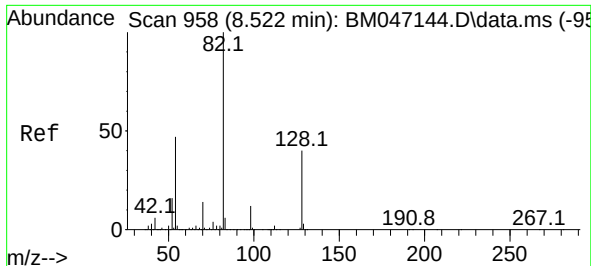
105 100

71 3.1 4.5 6.7#

51 28.6 20.1 30.1

120 23.6 17.8 26.6





#23

Nitrobenzene-d5

Concen: 86.497 ng

RT: 8.516 min Scan# 957

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

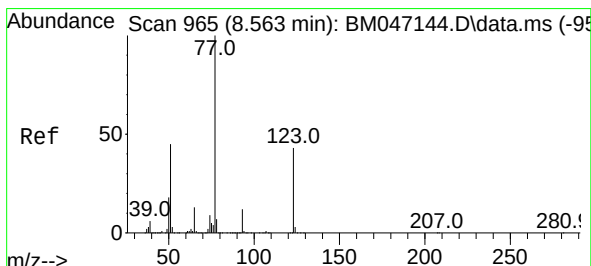
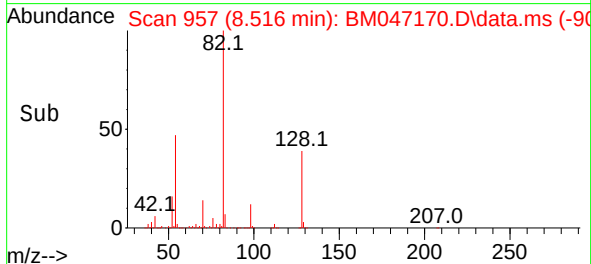
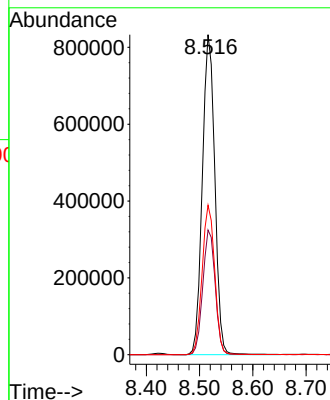
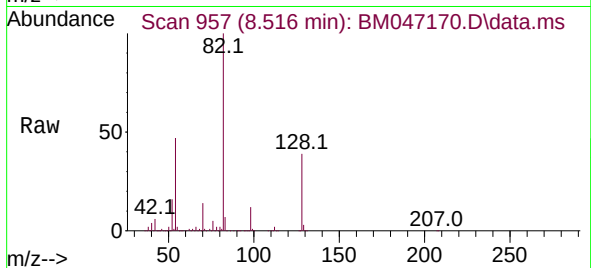
Tgt Ion: 82 Resp: 1352145

Ion Ratio Lower Upper

82 100

128 39.0 32.3 48.5

54 46.7 37.4 56.2



#24

Nitrobenzene

Concen: 4.198 ng

RT: 8.557 min Scan# 964

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

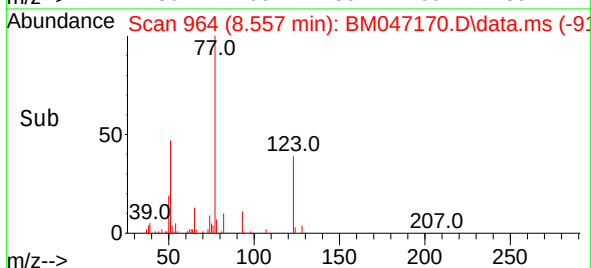
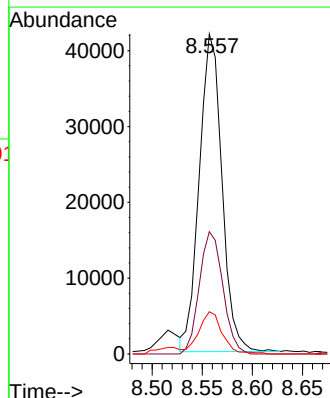
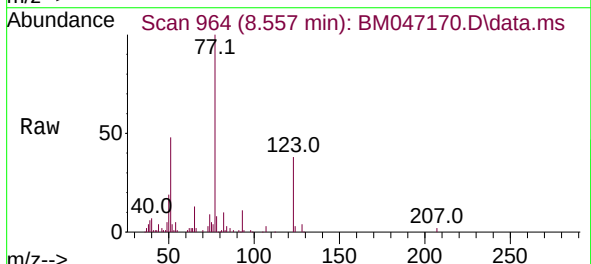
Tgt Ion: 77 Resp: 66074

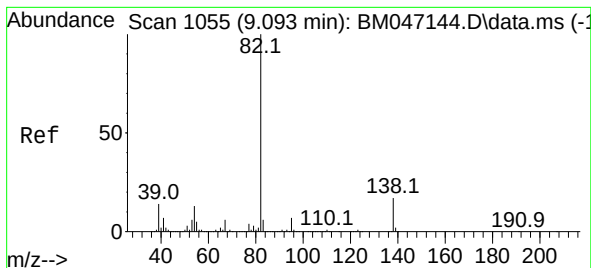
Ion Ratio Lower Upper

77 100

123 38.2 34.0 51.0

65 13.2 10.5 15.7





#25

Isophorone

Concen: 4.063 ng

RT: 9.086 min Scan# 1105

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

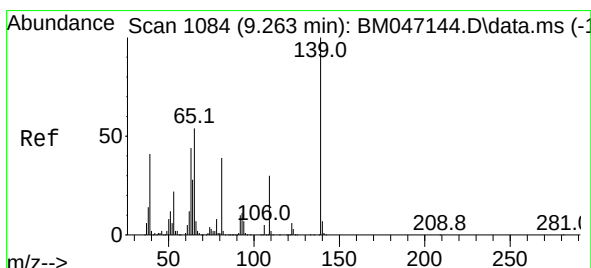
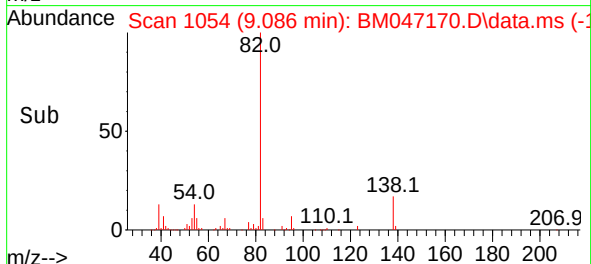
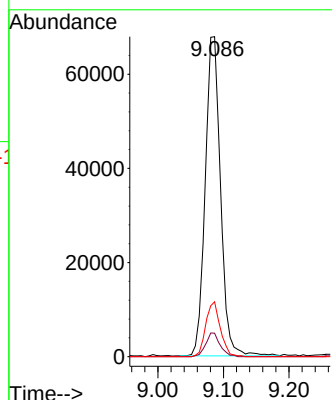
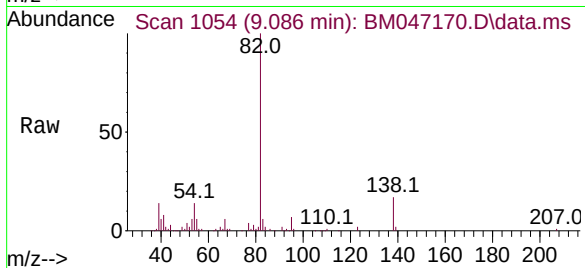
Tgt Ion: 82 Resp: 110590

Ion Ratio Lower Upper

82 100

95 7.4 5.5 8.3

138 17.2 13.5 20.3



#26

2-Nitrophenol

Concen: 3.118 ng

RT: 9.263 min Scan# 1084

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

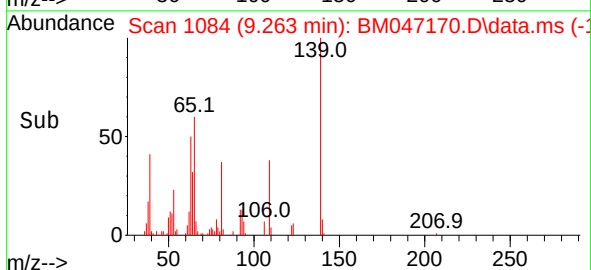
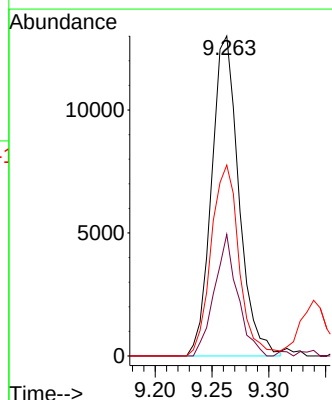
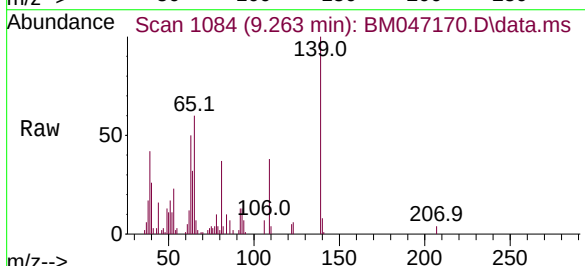
Tgt Ion:139 Resp: 21737

Ion Ratio Lower Upper

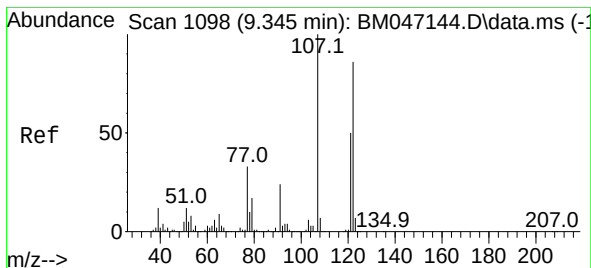
139 100

109 38.0 24.4 36.6#

65 59.7 43.0 64.6







#27

2,4-Dimethylphenol

Concen: 3.628 ng

RT: 9.339 min Scan# 1097

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

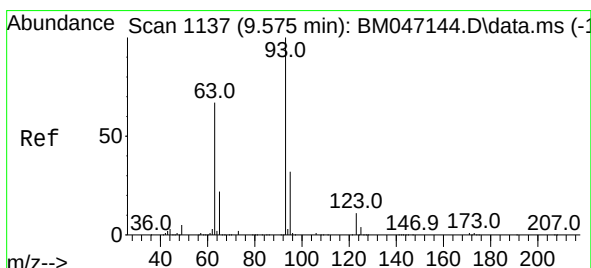
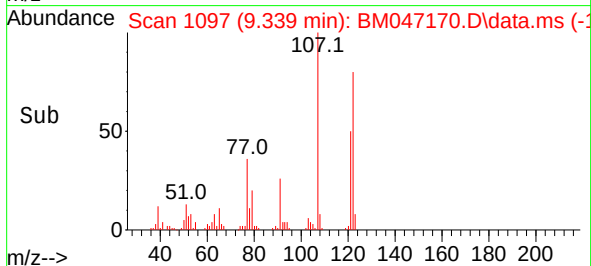
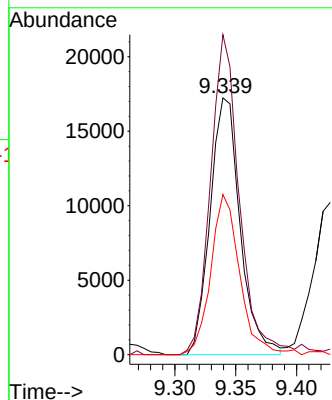
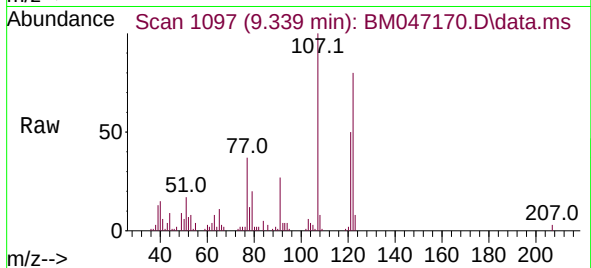
Tgt Ion:122 Resp: 29623

Ion Ratio Lower Upper

122 100

107 124.6 92.8 139.2

121 62.3 46.1 69.1



#28

bis(2-Chloroethoxy)methane

Concen: 4.124 ng

RT: 9.575 min Scan# 1137

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

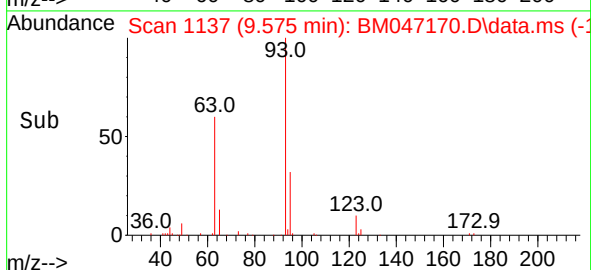
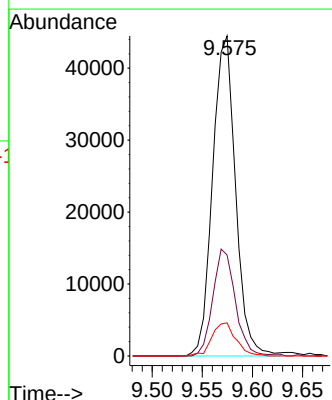
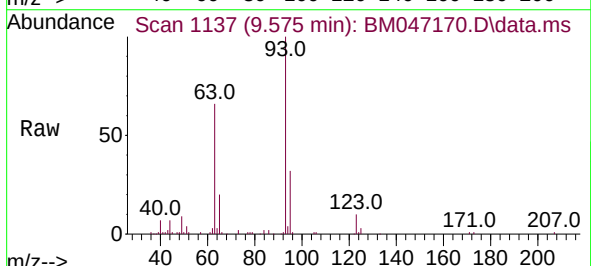
Tgt Ion: 93 Resp: 70635

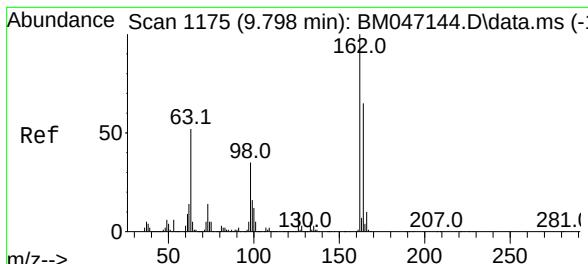
Ion Ratio Lower Upper

93 100

95 31.5 25.8 38.8

123 10.3 9.0 13.4

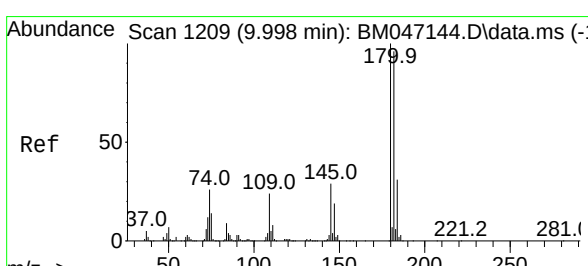
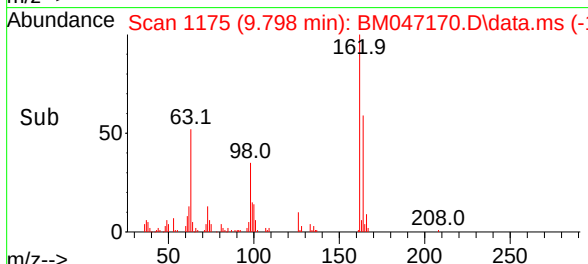
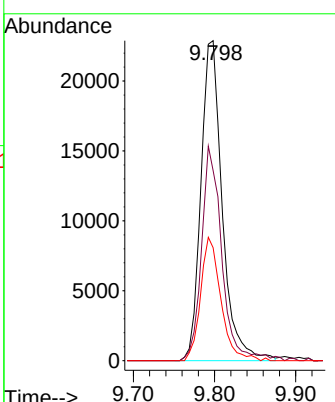
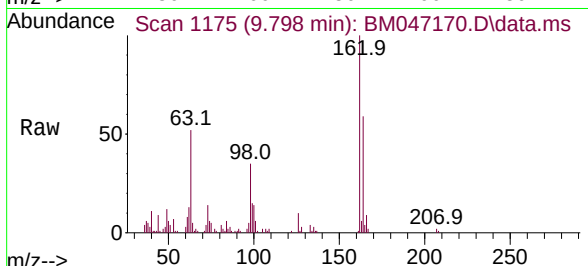




#29  
 2,4-Dichlorophenol  
 Concen: 3.443 ng  
 RT: 9.798 min Scan# 1175  
 Delta R.T. -0.000 min  
 Lab File: BM047170.D  
 Acq: 13 Aug 2024 11:02

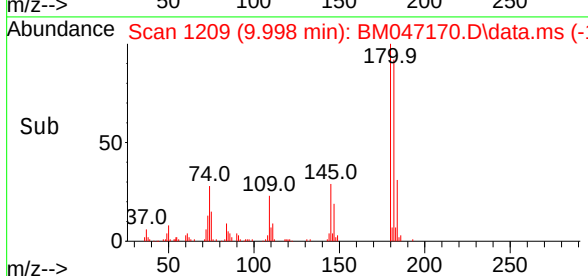
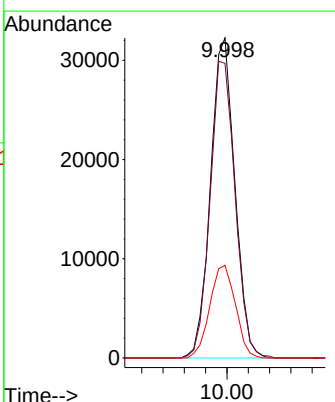
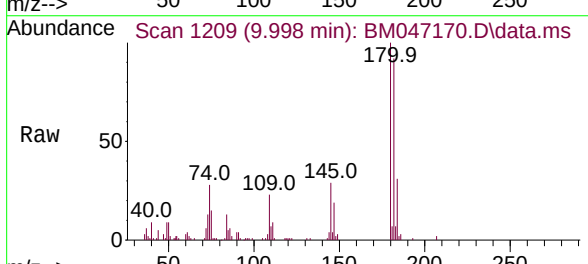
Instrument : BNA\_M  
 ClientSampleId : MDL-SOIL-03-QT3-2024

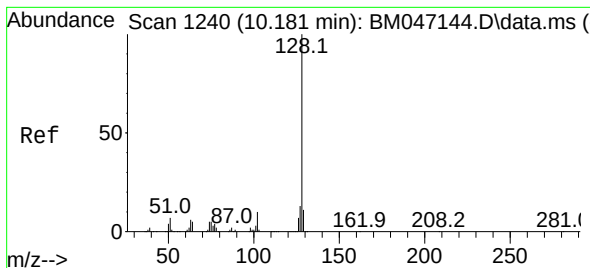
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 162   | Resp: | 41719 |
| Ion Ratio | Lower | Upper |       |
| 162       | 100   |       |       |
| 164       | 59.4  | 44.7  | 84.7  |
| 98        | 35.3  | 14.9  | 54.9  |



#30  
 1,2,4-Trichlorobenzene  
 Concen: 3.730 ng  
 RT: 9.998 min Scan# 1209  
 Delta R.T. -0.000 min  
 Lab File: BM047170.D  
 Acq: 13 Aug 2024 11:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 51151 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 92.1  | 76.6  | 115.0 |
| 145       | 28.9  | 23.4  | 35.2  |





#31

Naphthalene

Concen: 4.238 ng

RT: 10.175 min Scan# 1112

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

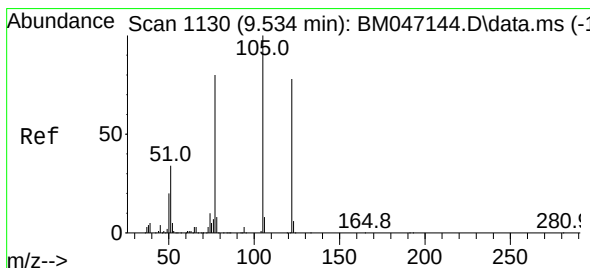
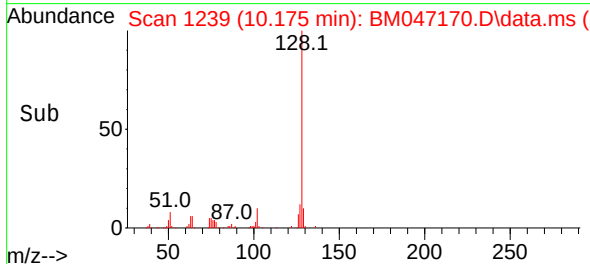
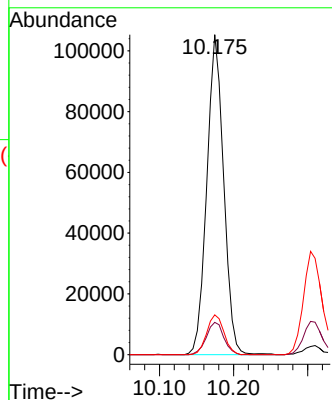
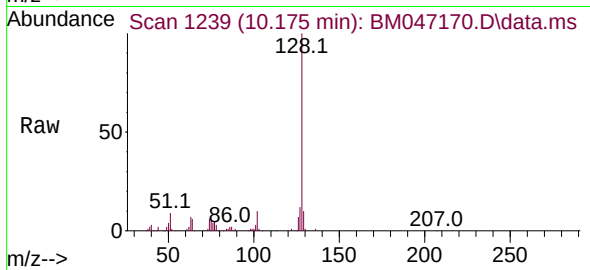
Tgt Ion:128 Resp: 166201

Ion Ratio Lower Upper

128 100

129 10.1 8.6 13.0

127 12.4 10.2 15.4



#32

Benzoic acid

Concen: 2.204 ng

RT: 9.428 min Scan# 1112

Delta R.T. -0.106 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

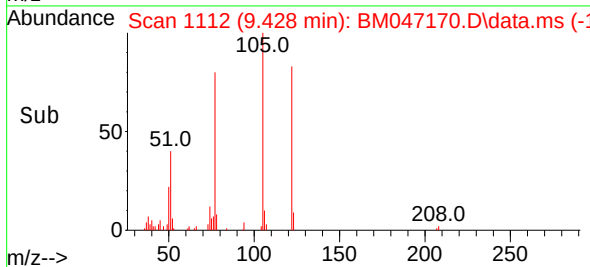
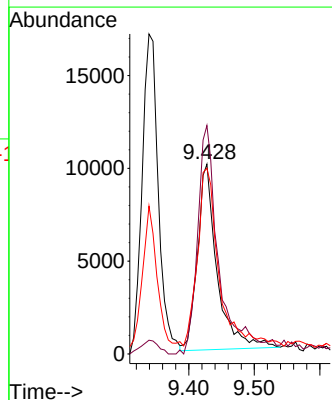
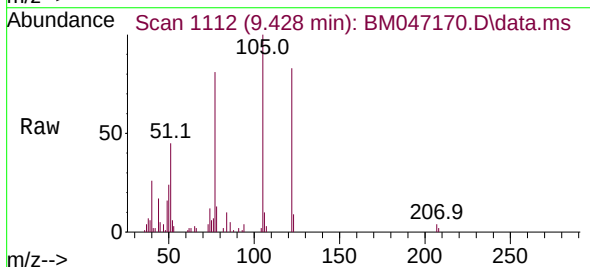
Tgt Ion:122 Resp: 20908

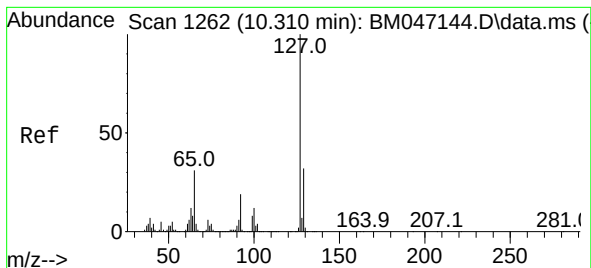
Ion Ratio Lower Upper

122 100

105 120.4 107.1 147.1

77 98.0 82.1 122.1





#33

4-Chloroaniline

Concen: 4.126 ng

RT: 10.304 min Scan# 1261

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

Tgt Ion:127 Resp: 62217

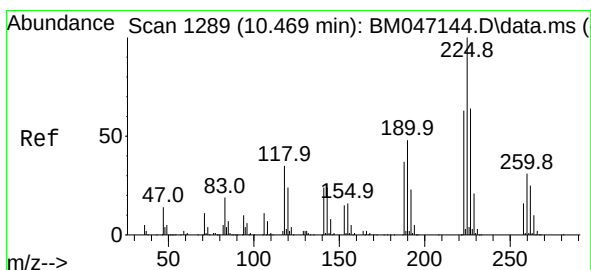
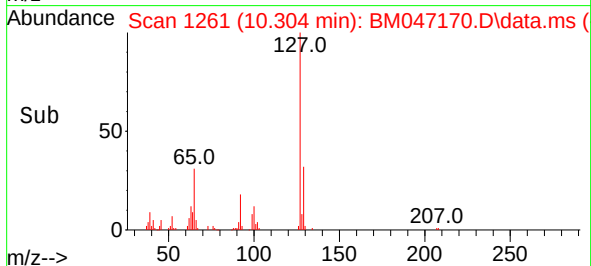
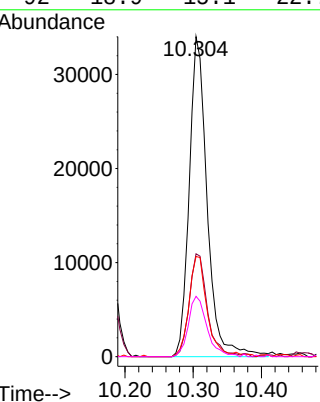
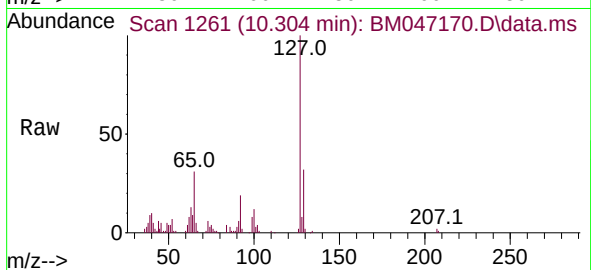
Ion Ratio Lower Upper

127 100

129 32.1 25.8 38.8

65 31.3 24.9 37.3

92 18.9 15.1 22.7



#34

Hexachlorobutadiene

Concen: 3.394 ng

RT: 10.463 min Scan# 1288

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

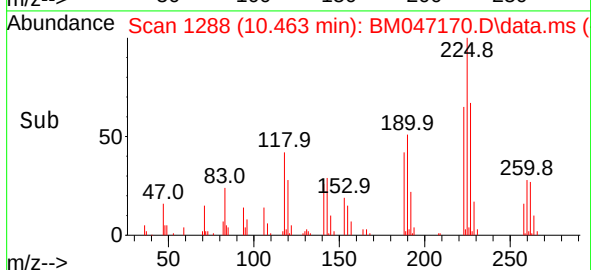
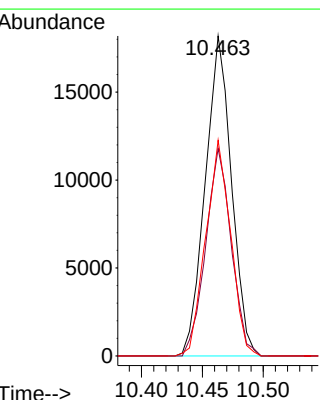
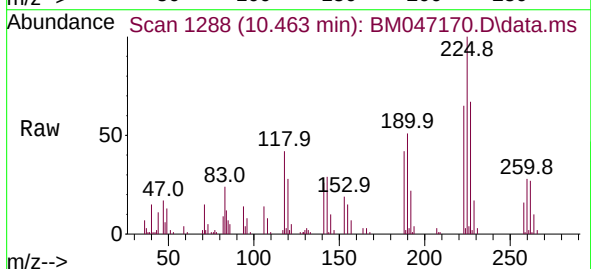
Tgt Ion:225 Resp: 27240

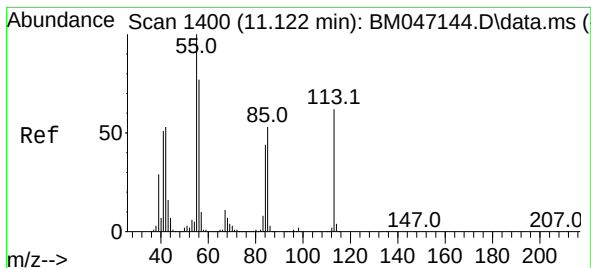
Ion Ratio Lower Upper

225 100

223 64.9 50.2 75.2

227 69.4 51.4 77.0





#35

Caprolactam

Concen: 3.191 ng

RT: 11.086 min Scan# 1400

Delta R.T. -0.035 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

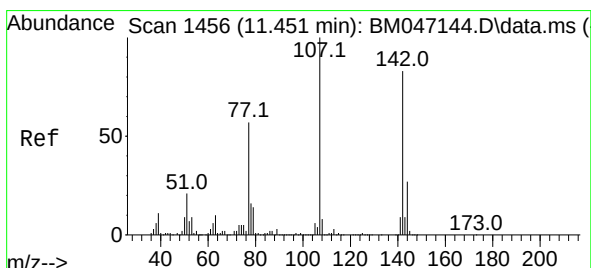
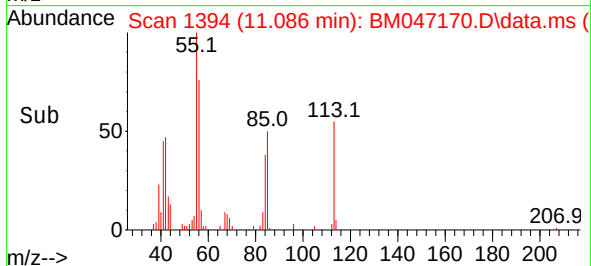
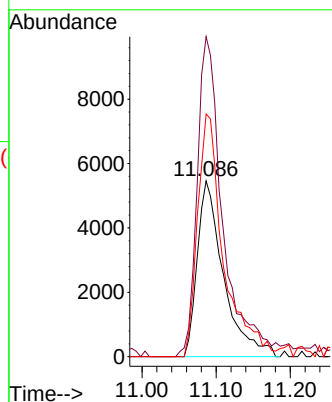
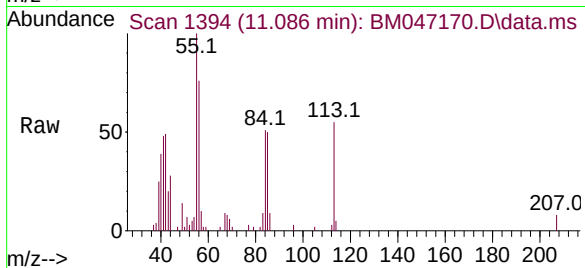
Tgt Ion:113 Resp: 13428

Ion Ratio Lower Upper

113 100

55 181.9 140.5 180.5#

56 138.0 103.6 143.6



#36

4-Chloro-3-methylphenol

Concen: 3.562 ng

RT: 11.445 min Scan# 1455

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

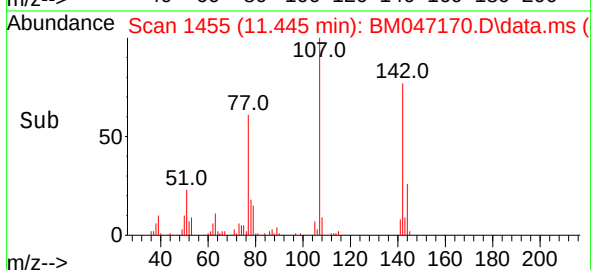
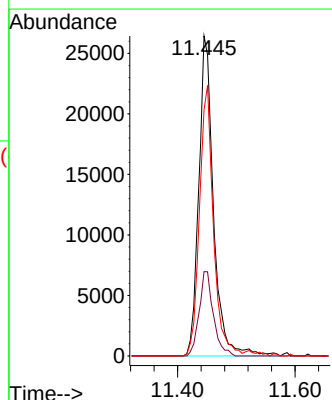
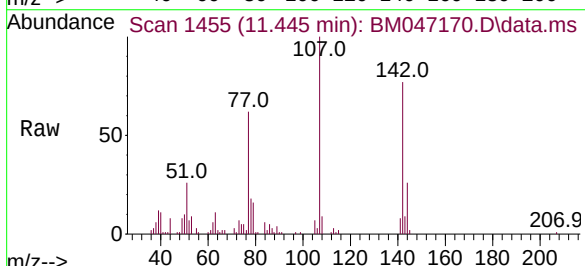
Tgt Ion:107 Resp: 45957

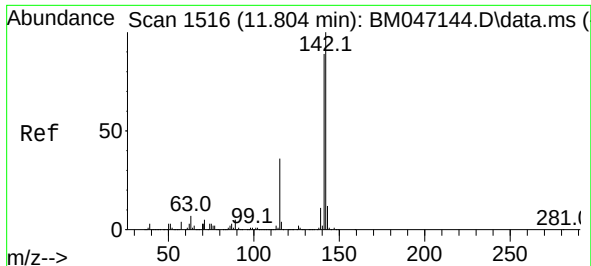
Ion Ratio Lower Upper

107 100

144 26.3 21.8 32.6

142 77.0 66.8 100.2

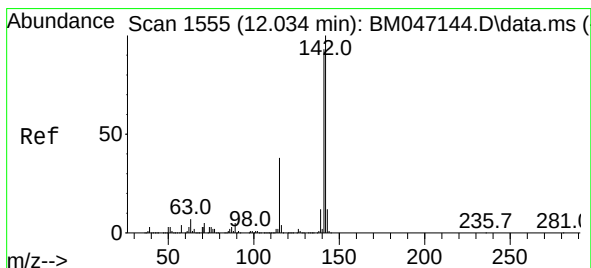
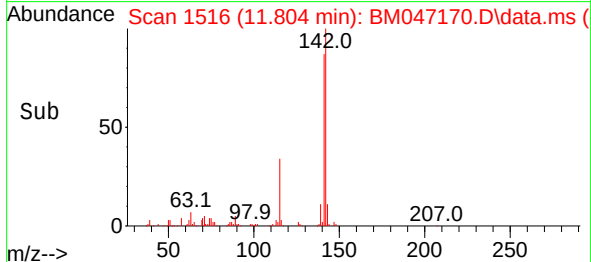
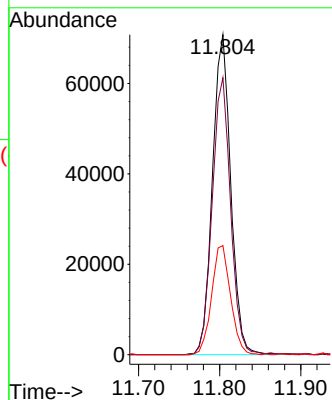
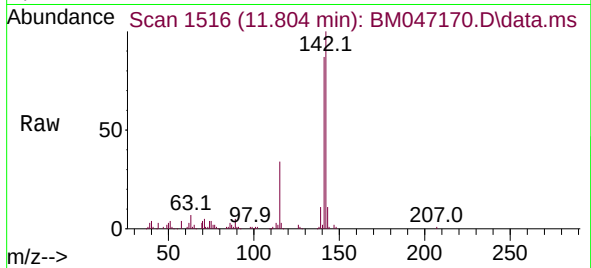




#37  
2-Methylnaphthalene  
Concen: 3.976 ng  
RT: 11.804 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

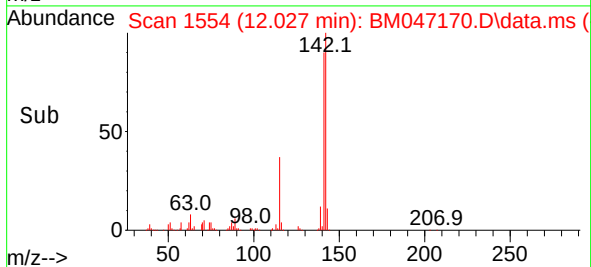
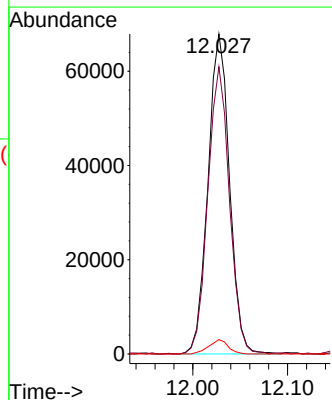
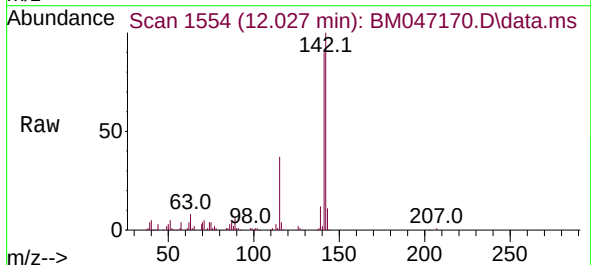
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

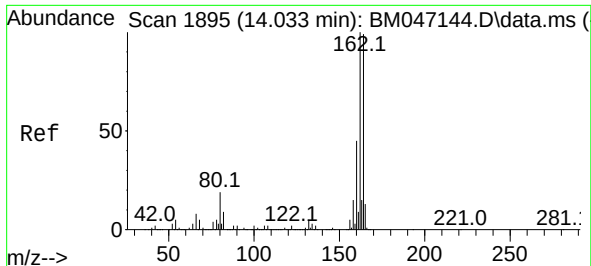
Tgt Ion:142 Resp: 111009  
Ion Ratio Lower Upper  
142 100  
141 86.6 70.9 106.3  
115 34.1 28.7 43.1



#38  
1-Methylnaphthalene  
Concen: 3.885 ng  
RT: 12.027 min Scan# 1554  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion:142 Resp: 107209  
Ion Ratio Lower Upper  
142 100  
141 89.7 74.6 111.8  
116 4.5 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.027 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

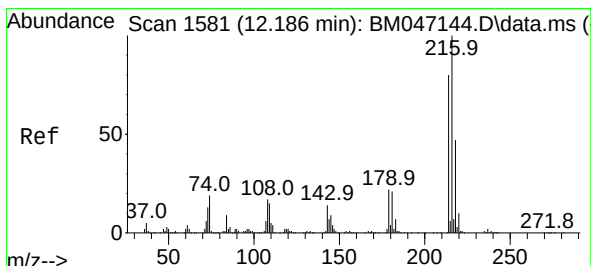
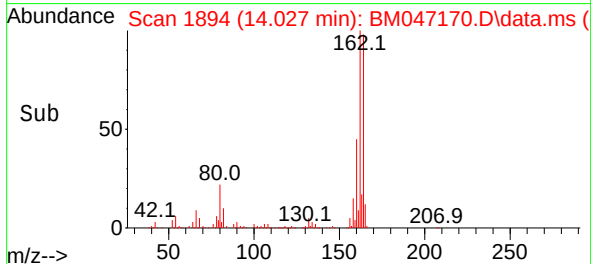
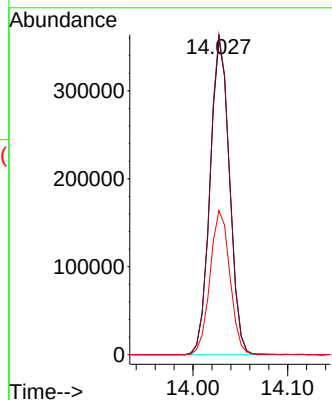
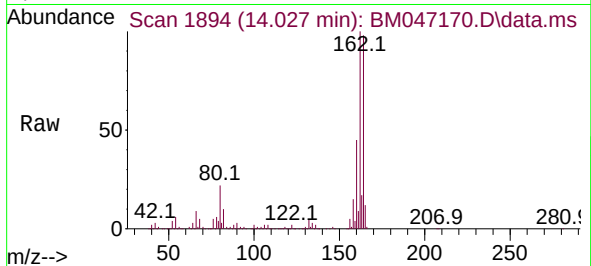
Tgt Ion:164 Resp: 510539

Ion Ratio Lower Upper

164 100

162 101.6 80.7 121.1

160 45.7 36.0 54.0



#40

1,2,4,5-Tetrachlorobenzene

Concen: 3.679 ng

RT: 12.180 min Scan# 1580

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Tgt Ion:216 Resp: 51229

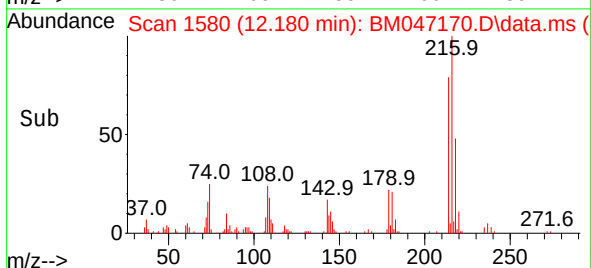
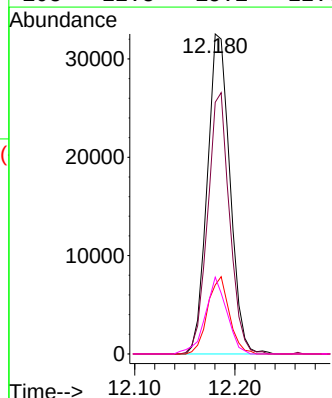
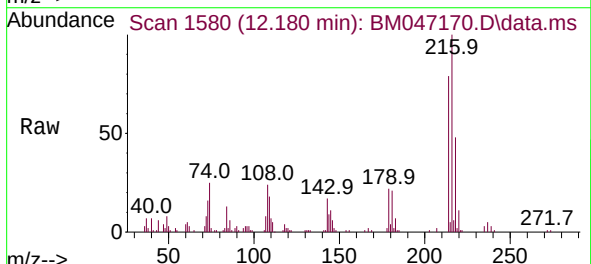
Ion Ratio Lower Upper

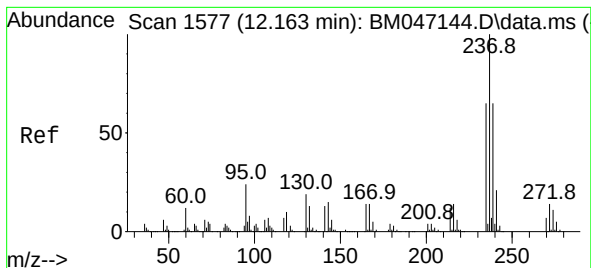
216 100

214 78.9 63.4 95.2

179 23.1 17.6 26.4

108 22.8 15.1 22.7#





#41

Hexachlorocyclopentadiene

Concen: 3.767 ng

RT: 12.163 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM047170.D

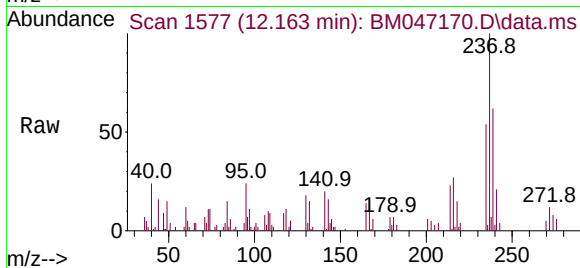
Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024



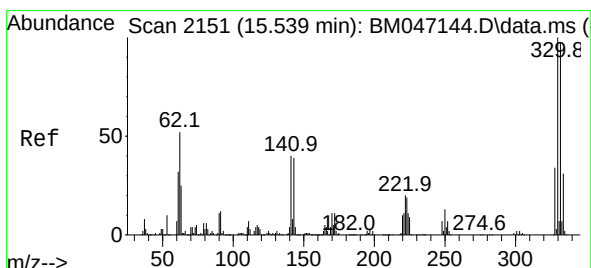
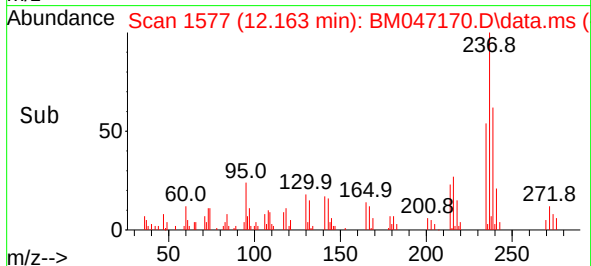
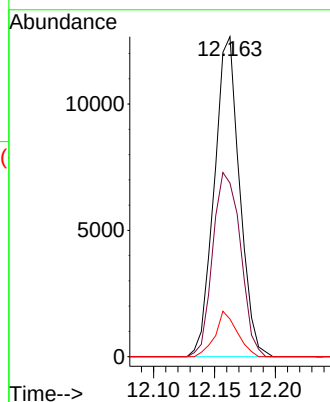
Tgt Ion:237 Resp: 18315

Ion Ratio Lower Upper

237 100

235 54.3 44.8 84.8

272 11.7 0.0 33.5



#42

2,4,6-Tribromophenol

Concen: 131.056 ng

RT: 15.539 min Scan# 2151

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

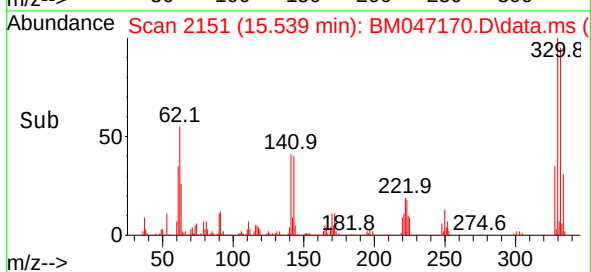
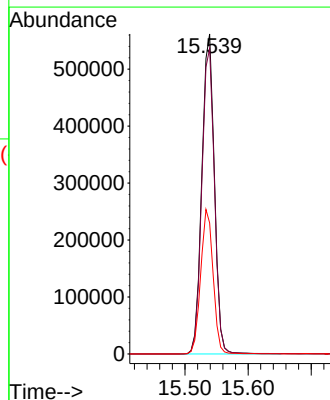
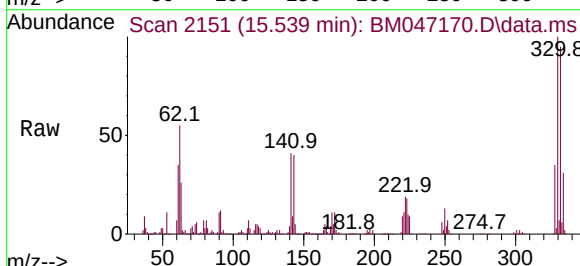
Tgt Ion:330 Resp: 775824

Ion Ratio Lower Upper

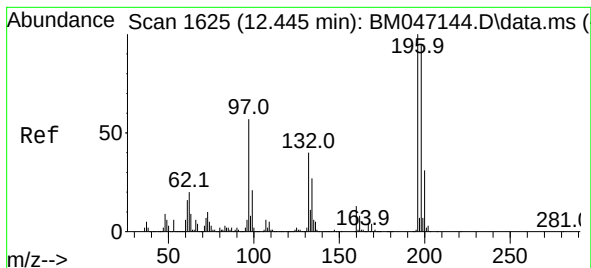
330 100

332 96.0 77.4 116.2

141 44.8 31.6 47.4







#43

2,4,6-Trichlorophenol

Concen: 3.247 ng

RT: 12.445 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM047170.D

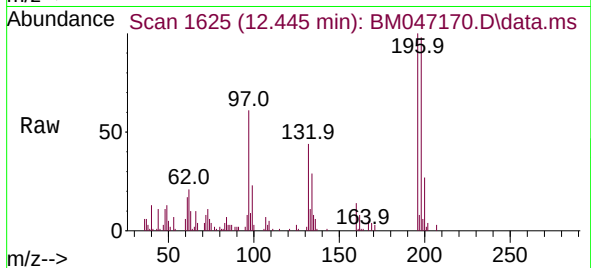
Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024



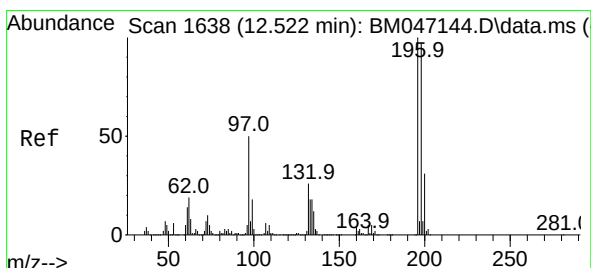
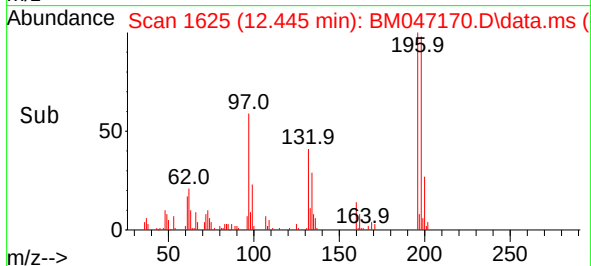
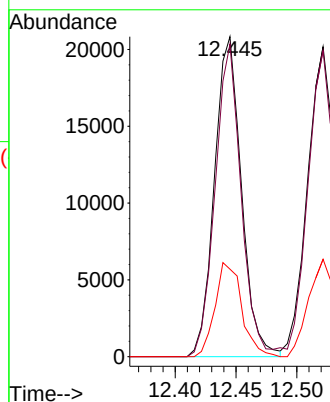
Tgt Ion:196 Resp: 32137

Ion Ratio Lower Upper

196 100

198 97.7 75.6 113.4

200 27.3 24.6 37.0



#44

2,4,5-Trichlorophenol

Concen: 3.116 ng

RT: 12.522 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Tgt Ion:196 Resp: 34248

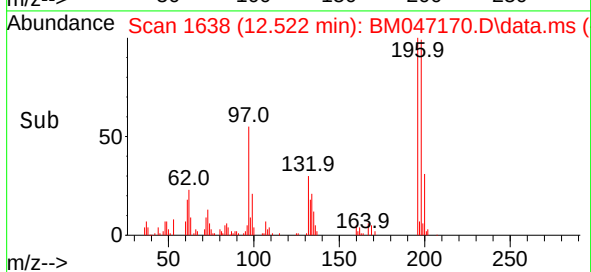
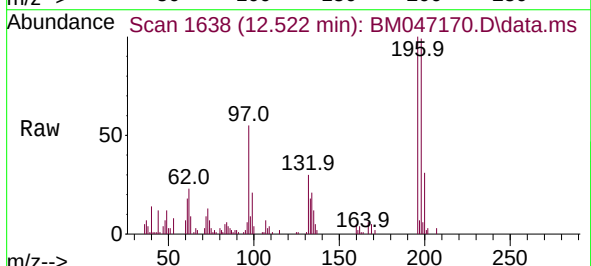
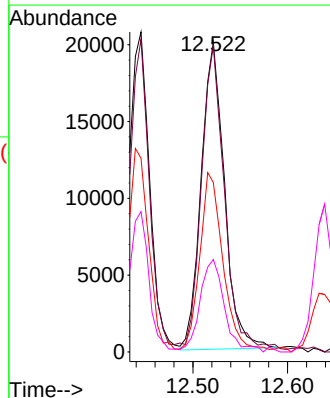
Ion Ratio Lower Upper

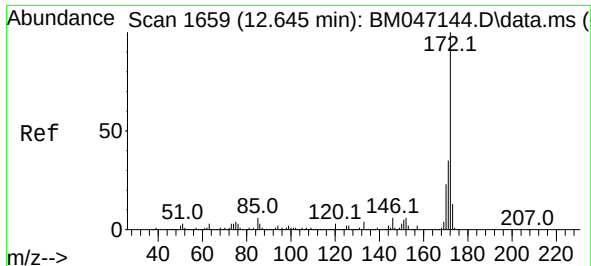
196 100

198 98.8 77.7 116.5

97 54.7 39.8 59.8

132 29.8 20.7 31.1





#45

2-Fluorobiphenyl

Concen: 79.975 ng

RT: 12.639 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

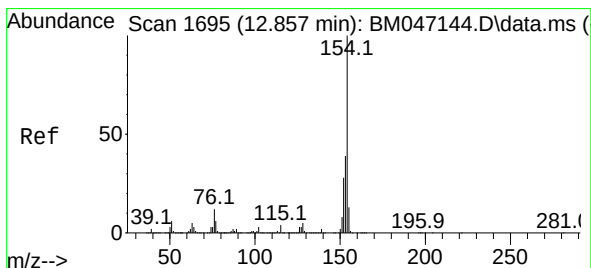
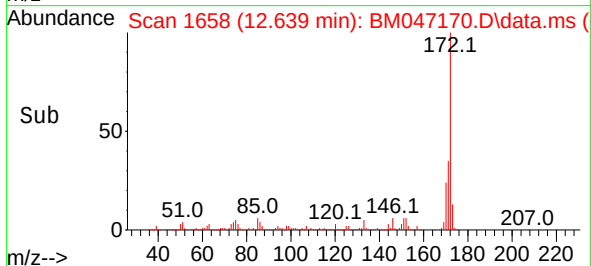
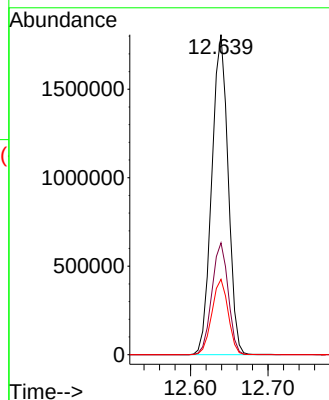
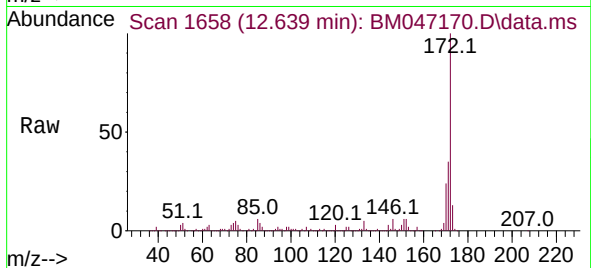
Tgt Ion:172 Resp: 2646970

Ion Ratio Lower Upper

172 100

171 35.0 27.8 41.6

170 23.6 18.7 28.1



#46

1,1'-Biphenyl

Concen: 4.391 ng

RT: 12.851 min Scan# 1694

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

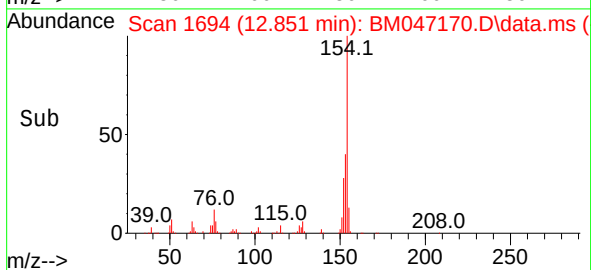
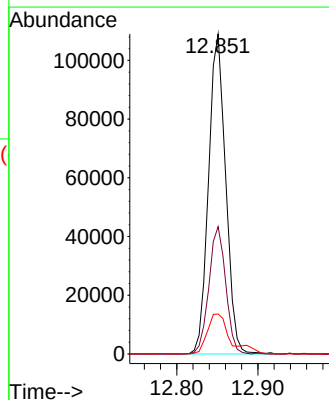
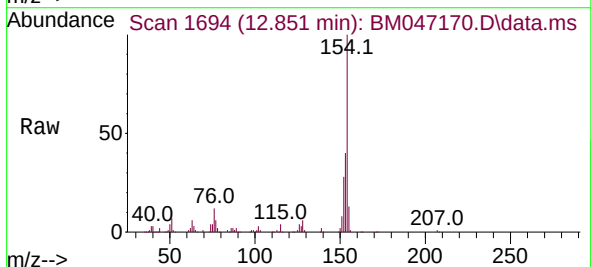
Tgt Ion:154 Resp: 159606

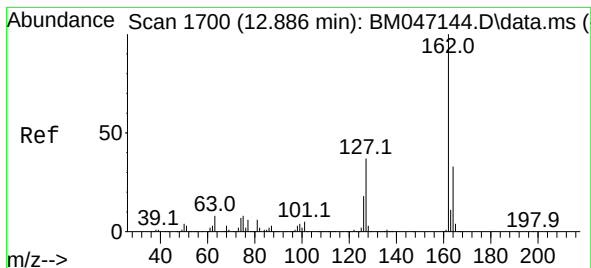
Ion Ratio Lower Upper

154 100

153 39.8 19.0 59.0

76 12.5 0.0 31.9





#47

2-Chloronaphthalene

Concen: 4.154 ng

RT: 12.886 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

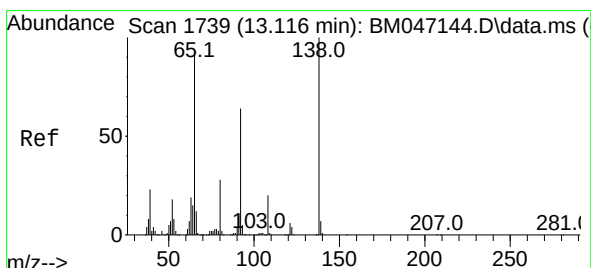
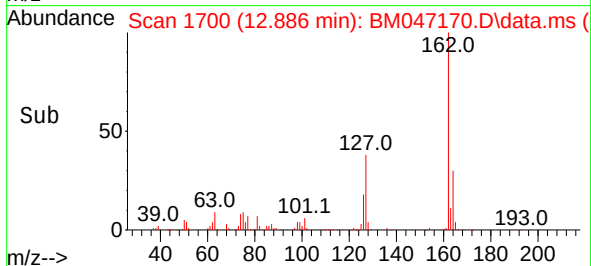
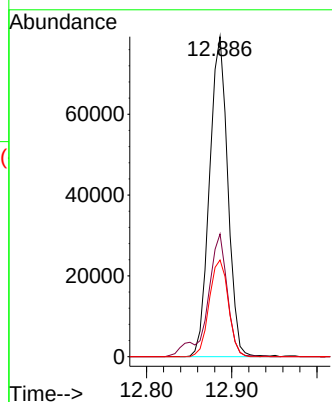
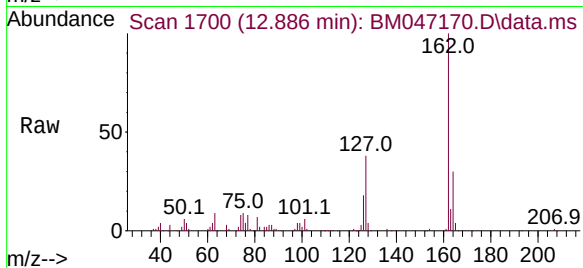
Tgt Ion:162 Resp: 118012

Ion Ratio Lower Upper

162 100

127 38.4 30.0 45.0

164 30.2 26.3 39.5



#48

2-Nitroaniline

Concen: 3.516 ng

RT: 13.110 min Scan# 1738

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

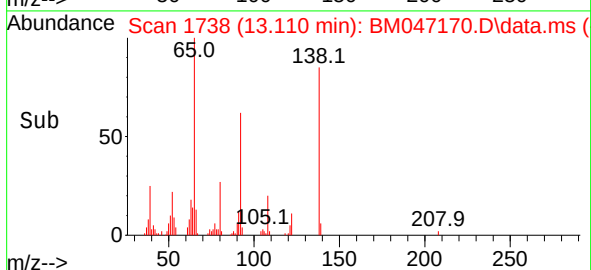
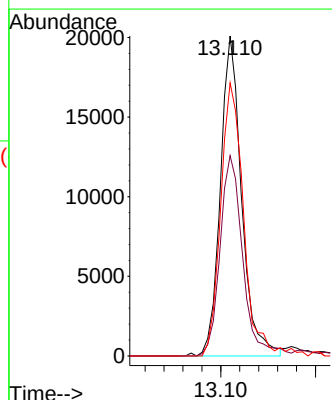
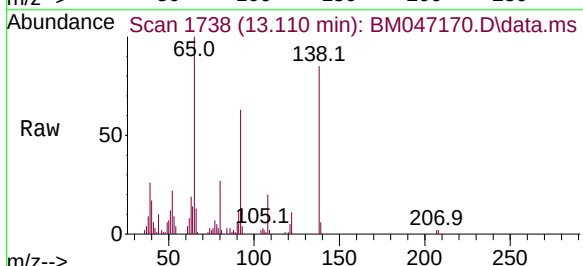
Tgt Ion: 65 Resp: 31291

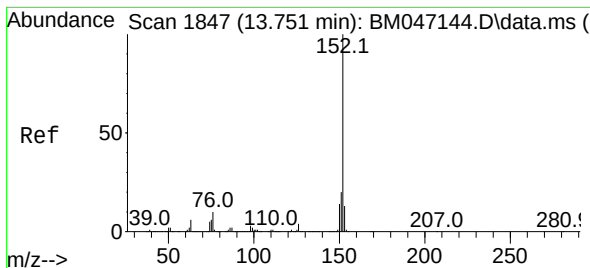
Ion Ratio Lower Upper

65 100

92 62.6 55.1 82.7

138 85.4 85.9 128.9#





#49

Acenaphthylene

Concen: 4.496 ng

RT: 13.745 min Scan# 1846

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

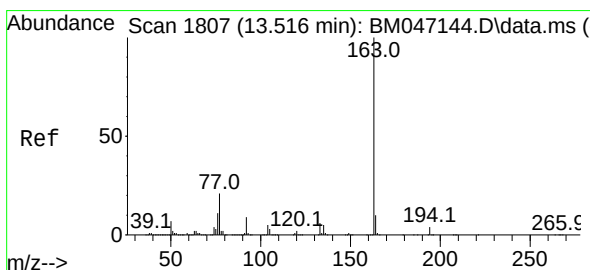
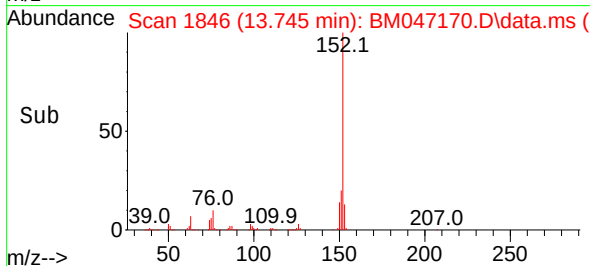
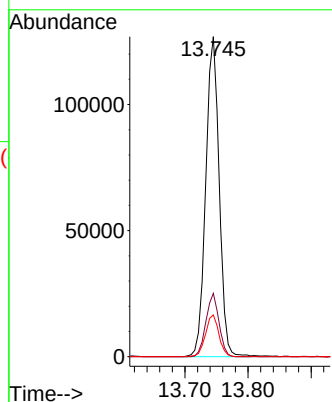
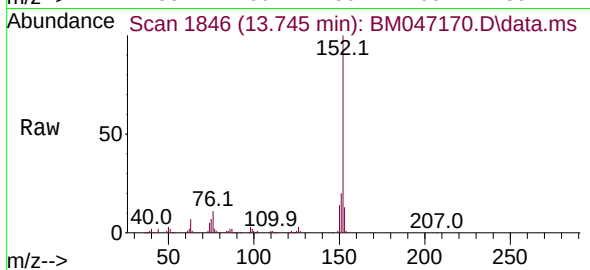
Tgt Ion:152 Resp: 188284

Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.6

153 13.0 10.4 15.6



#50

Dimethylphthalate

Concen: 4.102 ng

RT: 13.504 min Scan# 1805

Delta R.T. -0.012 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

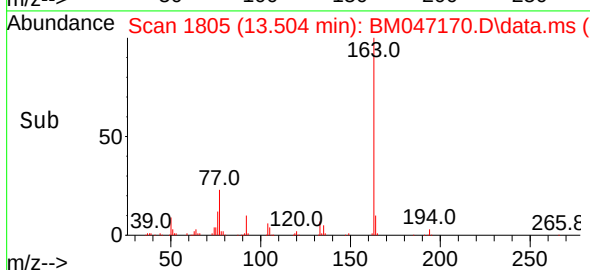
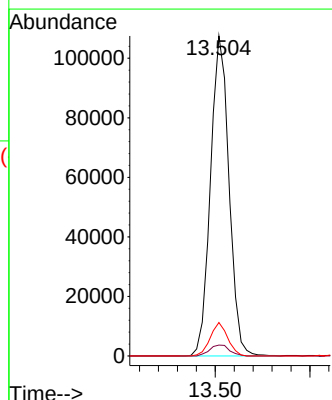
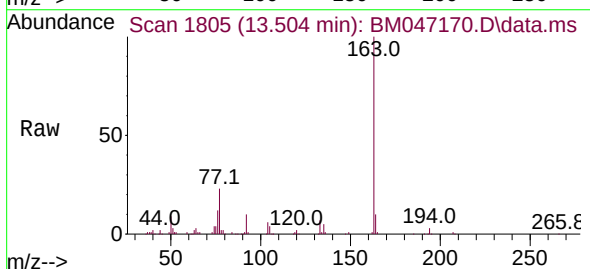
Tgt Ion:163 Resp: 146278

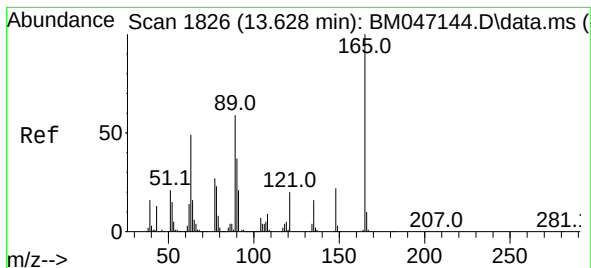
Ion Ratio Lower Upper

163 100

194 3.4 3.0 4.6

164 10.4 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 3.338 ng

RT: 13.621 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

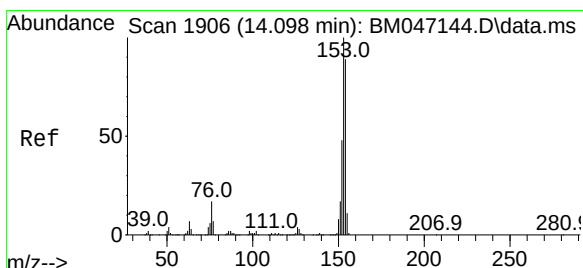
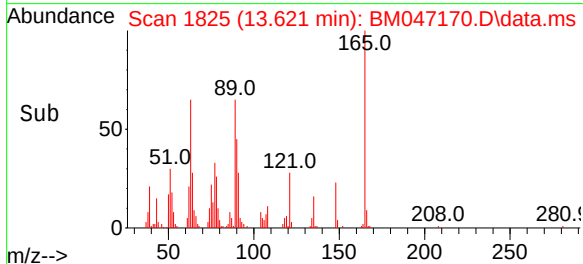
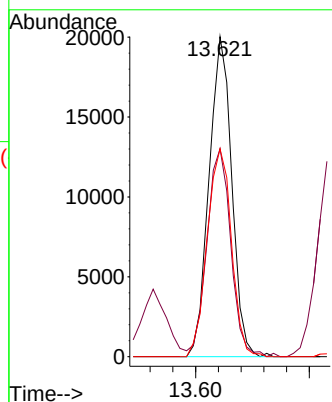
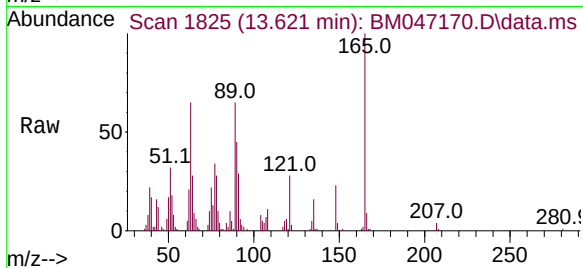
Tgt Ion:165 Resp: 27823

Ion Ratio Lower Upper

165 100

63 65.0 46.5 69.7

89 64.9 47.3 70.9



#52

Acenaphthene

Concen: 4.183 ng

RT: 14.092 min Scan# 1905

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

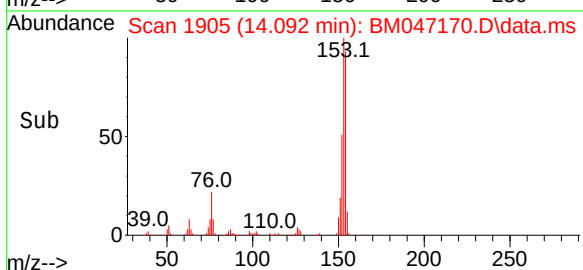
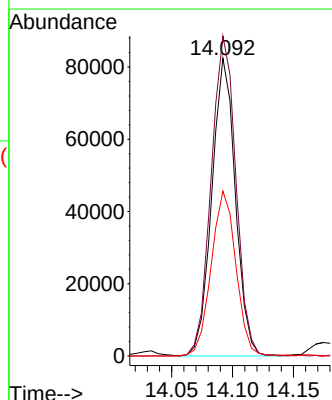
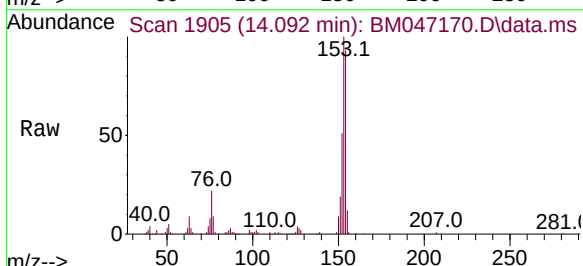
Tgt Ion:154 Resp: 111099

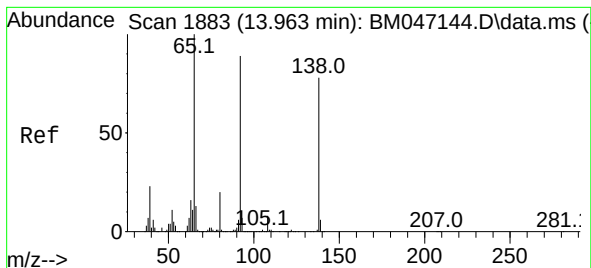
Ion Ratio Lower Upper

154 100

153 107.4 90.3 135.5

152 55.3 42.9 64.3

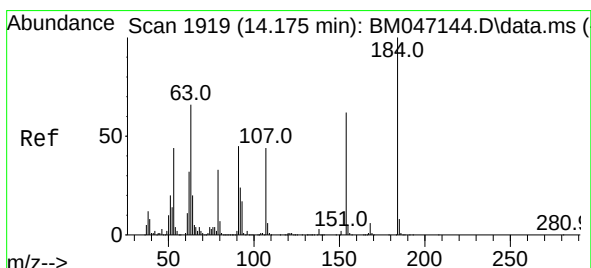
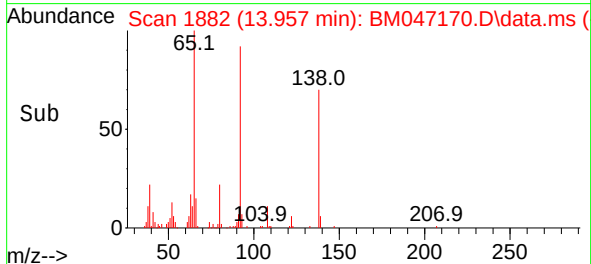
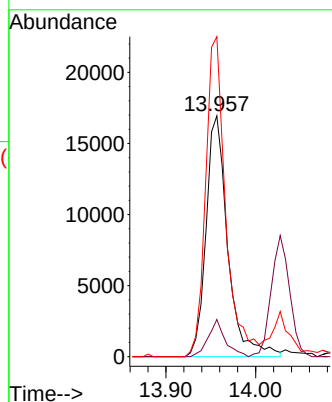
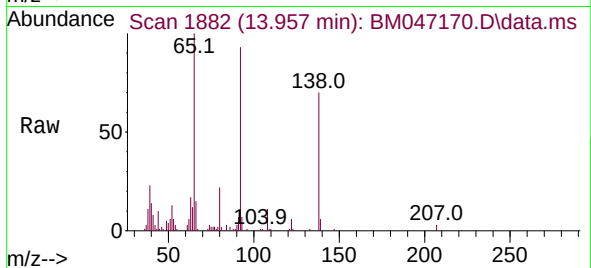




#53  
3-Nitroaniline  
Concen: 3.409 ng  
RT: 13.957 min Scan# 1882  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

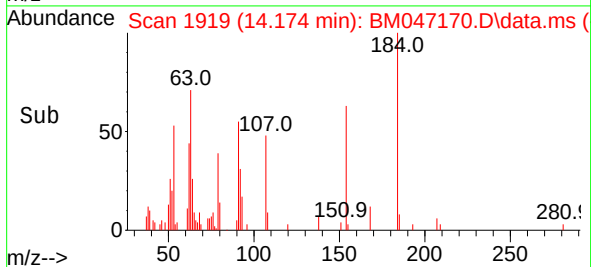
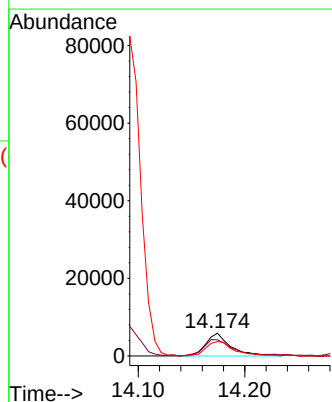
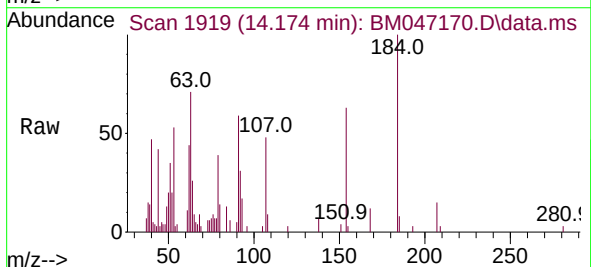
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

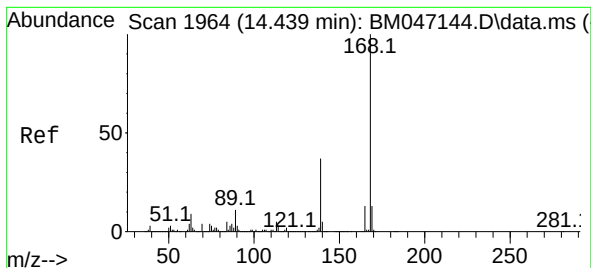
Tgt Ion:138 Resp: 28469  
Ion Ratio Lower Upper  
138 100  
108 15.4 7.9 11.9#  
92 132.9 92.0 138.0



#54  
2,4-Dinitrophenol  
Concen: 1.875 ng  
RT: 14.174 min Scan# 1919  
Delta R.T. -0.001 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion:184 Resp: 9367  
Ion Ratio Lower Upper  
184 100  
63 70.9 52.7 79.1  
154 63.4 50.4 75.6





#55

Dibenzenofuran

Concen: 4.394 ng

RT: 14.433 min Scan# 1963

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

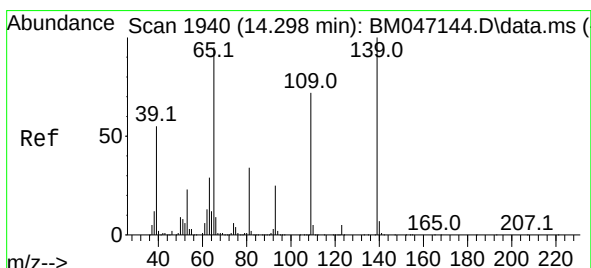
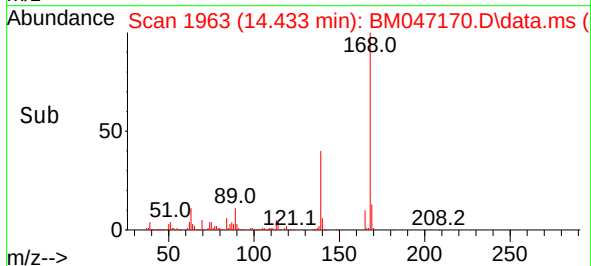
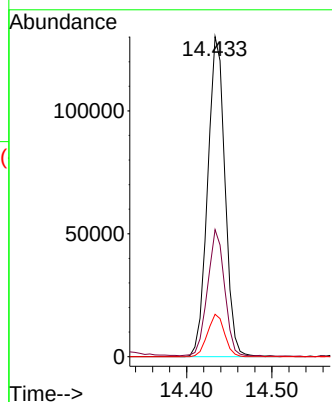
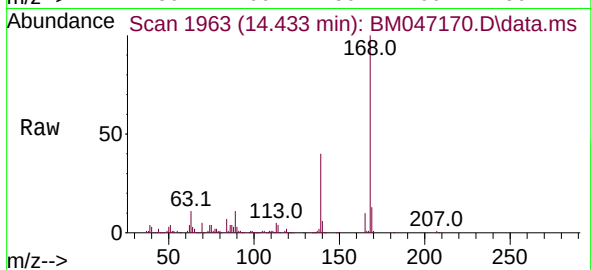
Tgt Ion:168 Resp: 184354

Ion Ratio Lower Upper

168 100

139 39.7 29.6 44.4

169 13.2 10.7 16.1



#56

4-Nitrophenol

Concen: 2.909 ng

RT: 14.298 min Scan# 1940

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

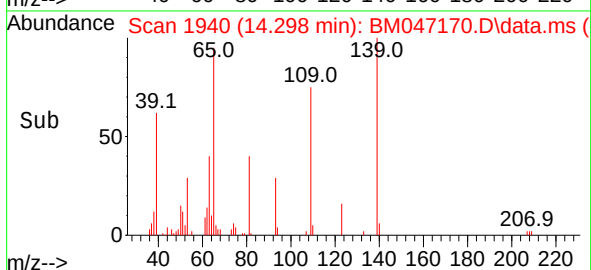
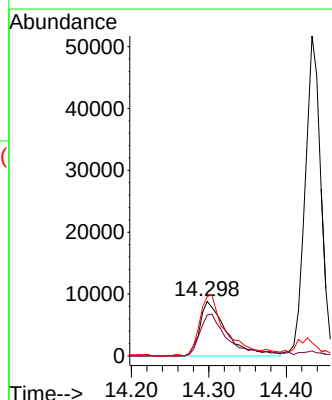
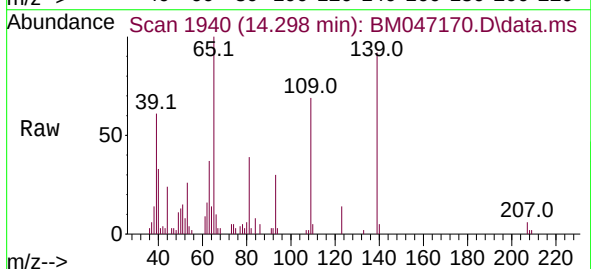
Tgt Ion:139 Resp: 20948

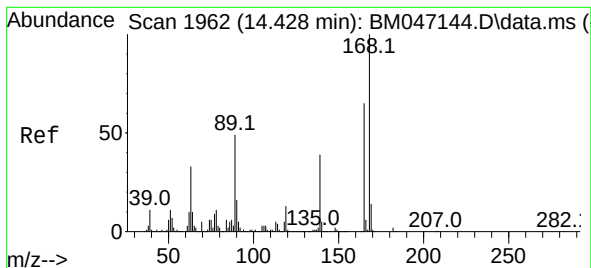
Ion Ratio Lower Upper

139 100

109 74.9 52.5 92.5

65 109.0 75.4 115.4

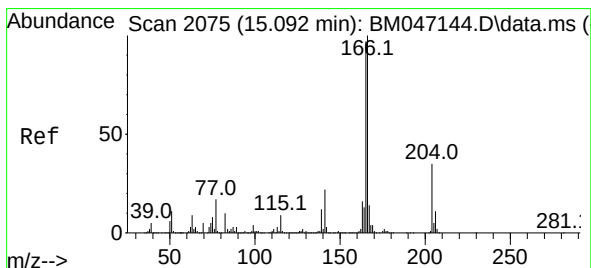
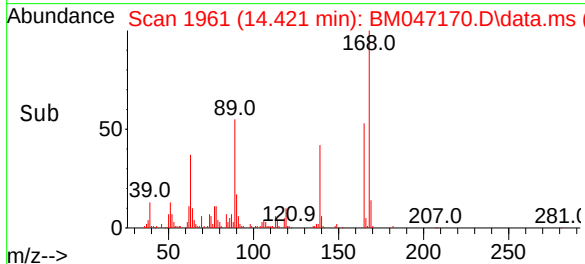
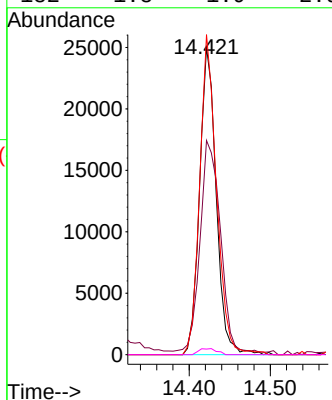
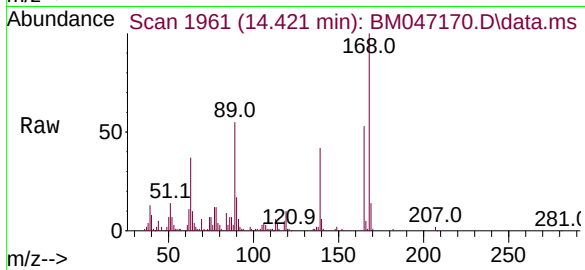




#57  
2,4-Dinitrotoluene  
Concen: 3.202 ng  
RT: 14.421 min Scan# 1962  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

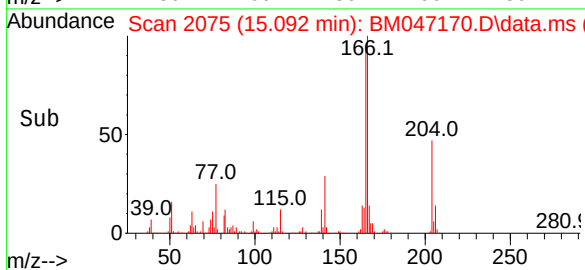
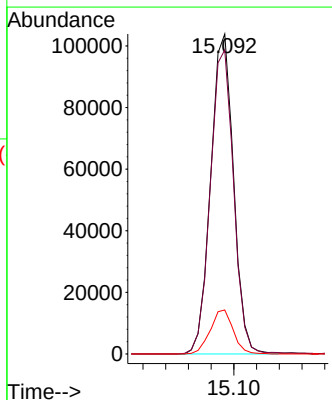
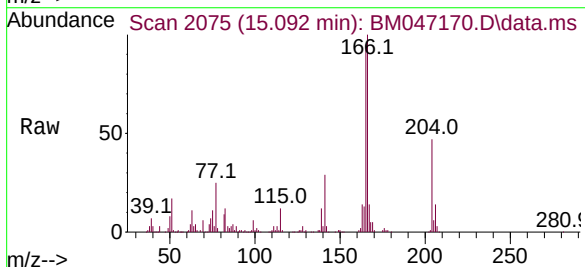
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 35624 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 69.7  | 40.3  | 60.5# |
| 89        | 104.2 | 61.0  | 91.6# |
| 182       | 1.8   | 1.9   | 2.9#  |

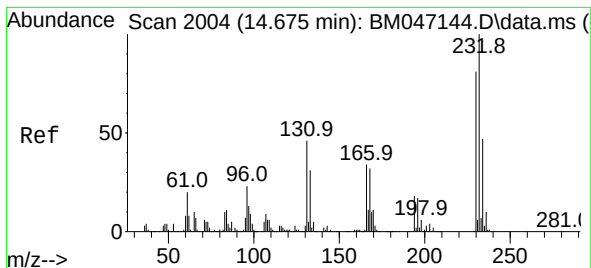


#58  
Fluorene  
Concen: 4.192 ng  
RT: 15.092 min Scan# 2075  
Delta R.T. -0.000 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 145123 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 95.0  | 77.4  | 116.0  |
| 167       | 13.8  | 11.0  | 16.6   |







#59

2,3,4,6-Tetrachlorophenol

Concen: 3.562 ng

RT: 14.674 min Scan# 2004

Delta R.T. -0.000 min

Lab File: BM047170.D

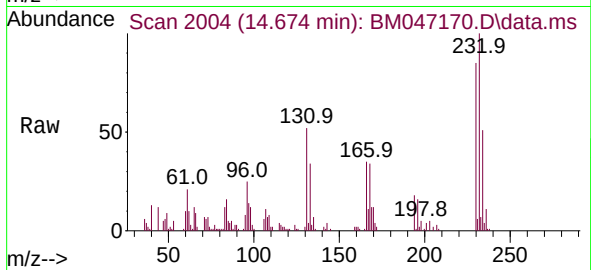
Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024



Tgt Ion:232 Resp: 32170

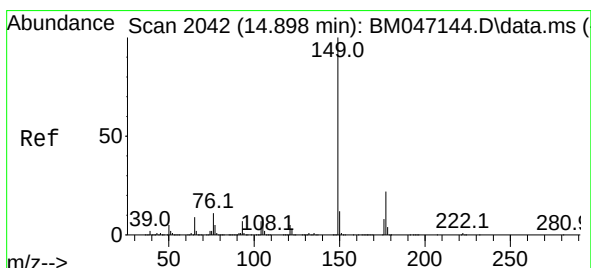
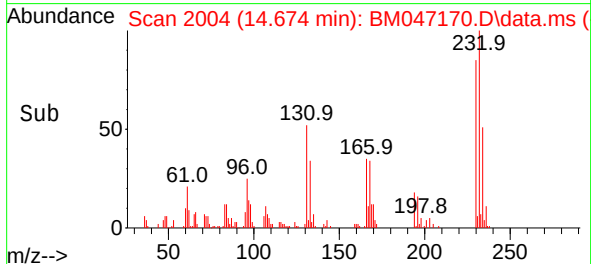
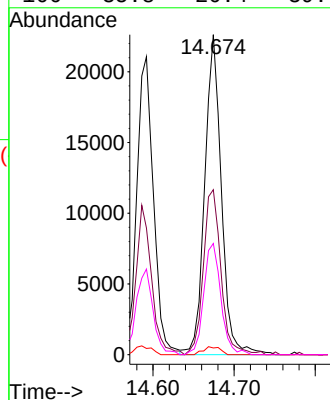
Ion Ratio Lower Upper

232 100

131 54.6 36.9 55.3

130 2.5 2.0 3.0

166 35.8 26.4 39.6



#60

Diethylphthalate

Concen: 3.984 ng

RT: 14.892 min Scan# 2041

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

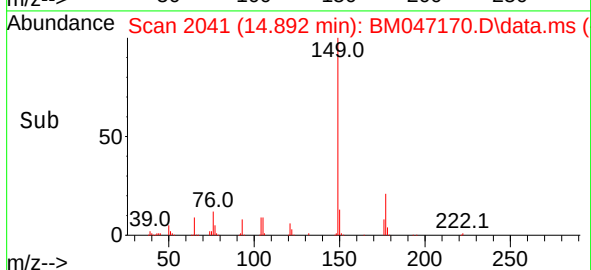
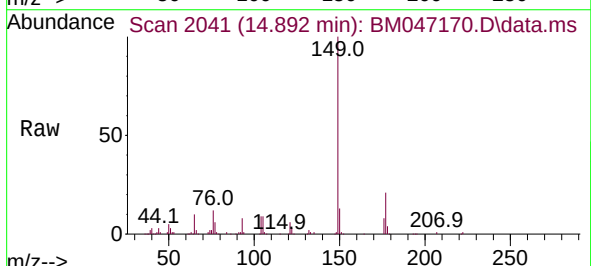
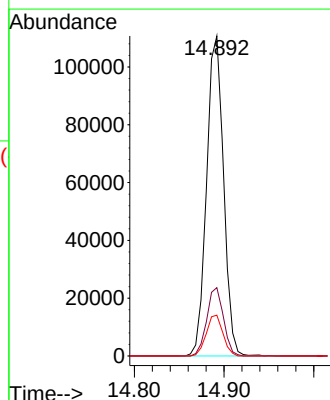
Tgt Ion:149 Resp: 145081

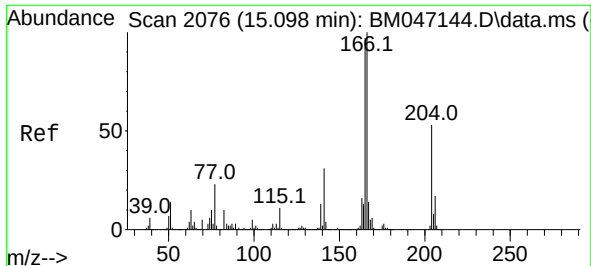
Ion Ratio Lower Upper

149 100

177 21.3 17.6 26.4

150 12.8 9.8 14.6

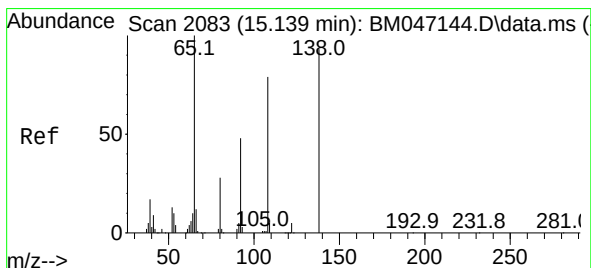
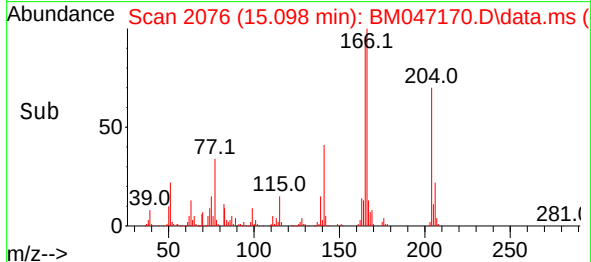
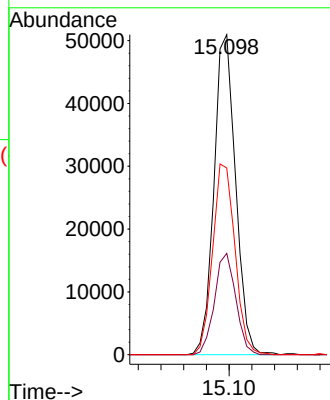
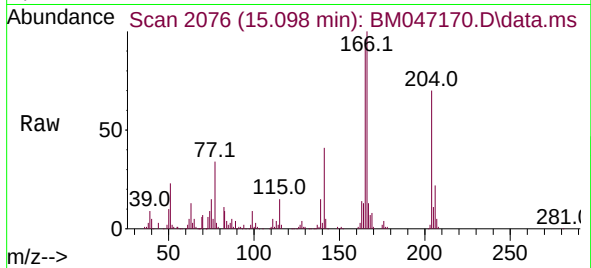




#61  
4-Chlorophenyl-phenylether  
Concen: 4.091 ng  
RT: 15.098 min Scan# 2076  
Delta R.T. -0.000 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

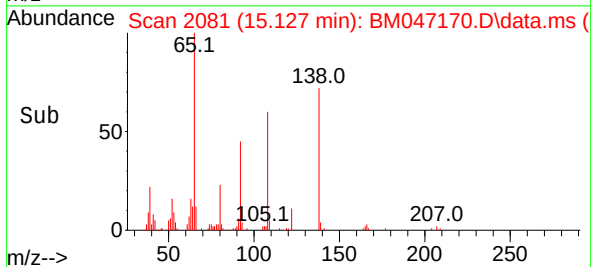
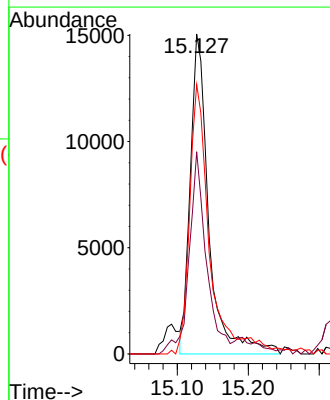
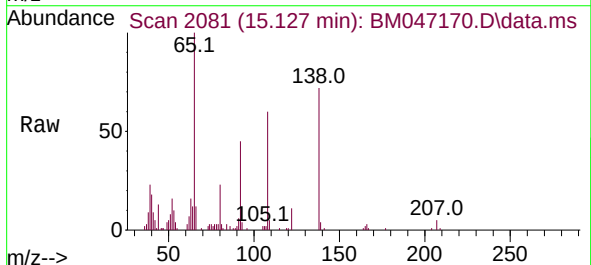
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

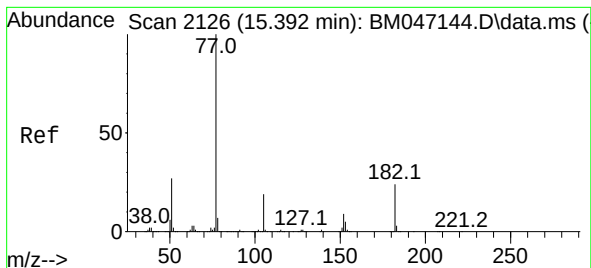
Tgt Ion:204 Resp: 67429  
Ion Ratio Lower Upper  
204 100  
206 31.7 26.2 39.4  
141 58.3 47.2 70.8



#62  
4-Nitroaniline  
Concen: 3.332 ng  
RT: 15.127 min Scan# 2081  
Delta R.T. -0.012 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion:138 Resp: 27418  
Ion Ratio Lower Upper  
138 100  
92 63.2 31.9 71.9  
108 84.2 63.8 103.8





#63

Azobenzene

Concen: 4.433 ng

RT: 15.392 min Scan# 2126

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

Tgt Ion: 77 Resp: 153047

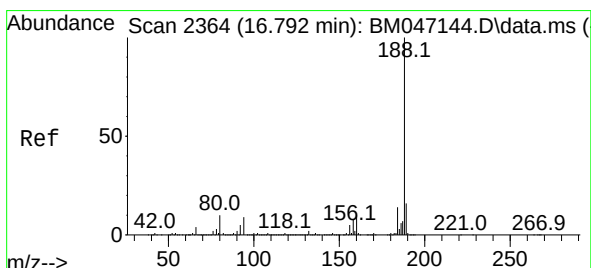
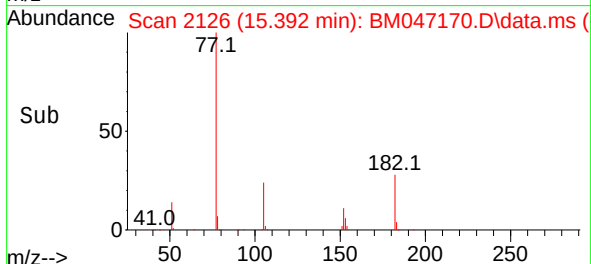
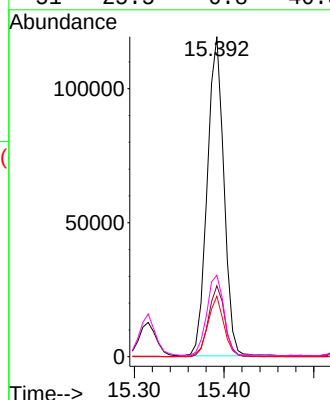
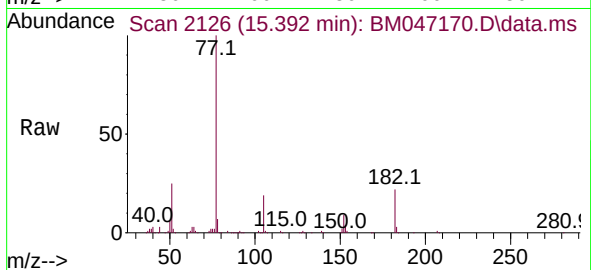
Ion Ratio Lower Upper

77 100

182 22.2 3.8 43.8

105 18.9 0.0 39.5

51 25.5 6.8 46.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.792 min Scan# 2364

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

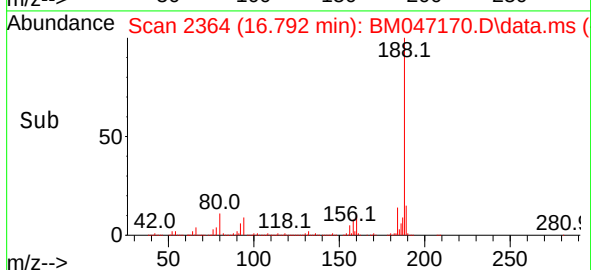
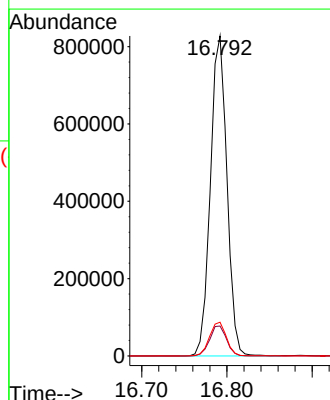
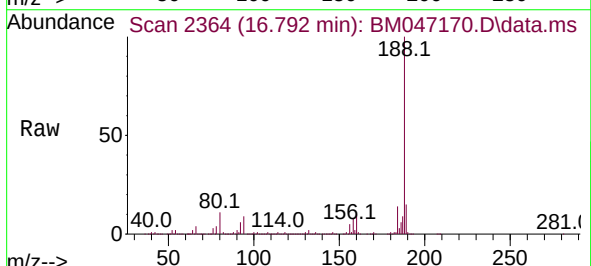
Tgt Ion: 188 Resp: 1115889

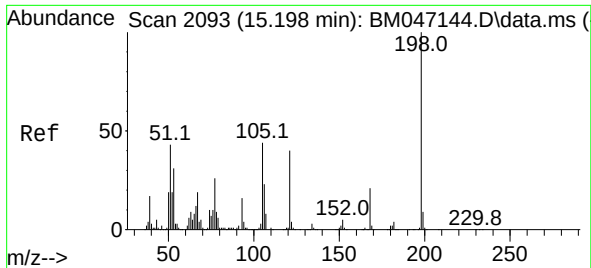
Ion Ratio Lower Upper

188 100

94 9.3 7.0 10.6

80 10.6 8.0 12.0

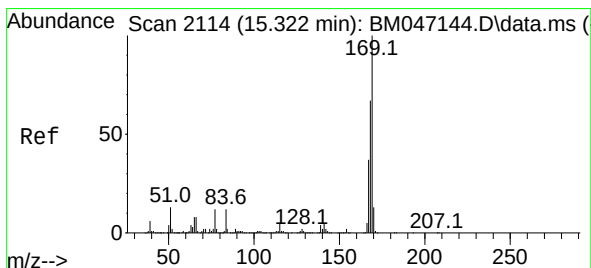
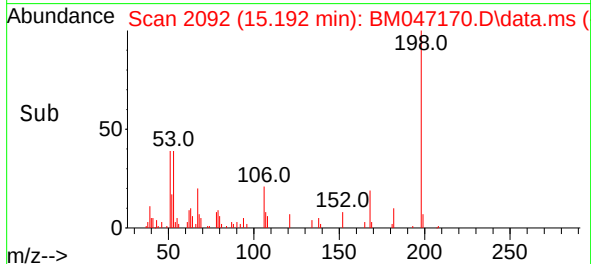
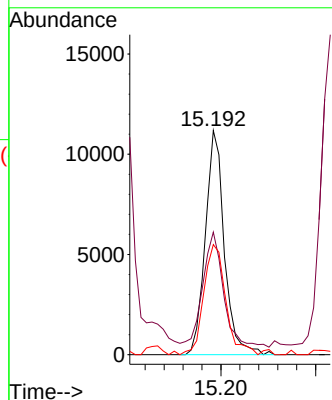
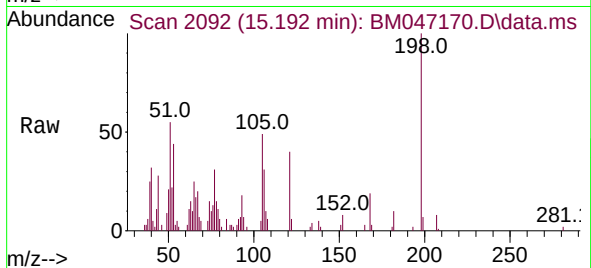




#65  
4,6-Dinitro-2-methylphenol  
Concen: 2.377 ng  
RT: 15.192 min Scan# 2093  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

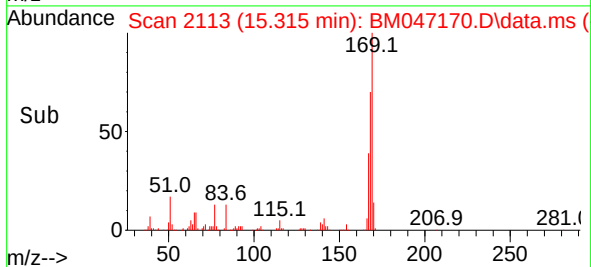
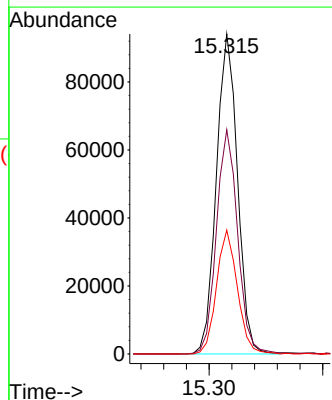
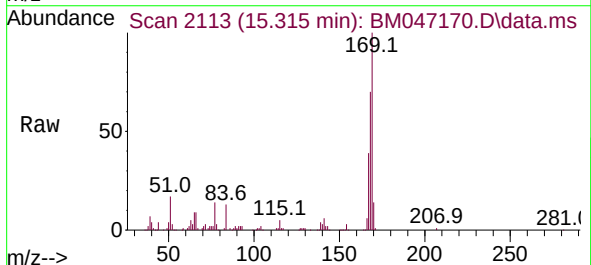
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

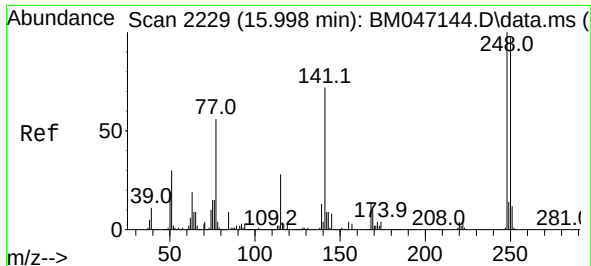
Tgt Ion:198 Resp: 15529  
Ion Ratio Lower Upper  
198 100  
51 54.7 23.9 63.9  
105 49.1 24.3 64.3



#66  
n-Nitrosodiphenylamine  
Concen: 4.006 ng  
RT: 15.315 min Scan# 2113  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion:169 Resp: 121771  
Ion Ratio Lower Upper  
169 100  
168 70.1 53.8 80.8  
167 38.7 29.3 43.9





#67

4-Bromophenyl-phenylether

Concen: 3.497 ng

RT: 15.992 min Scan# 2228

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

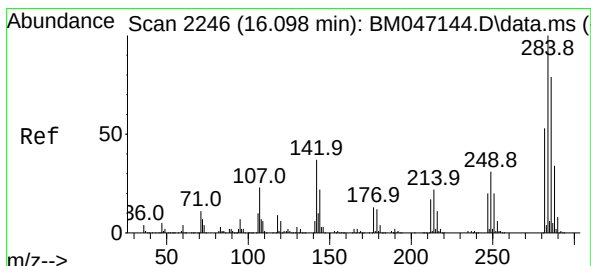
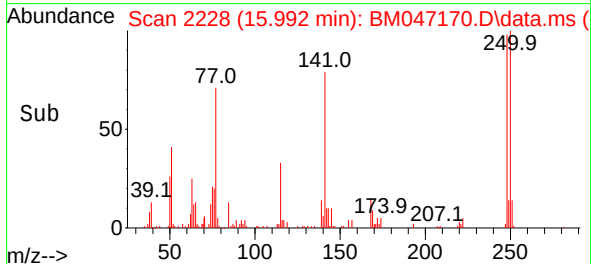
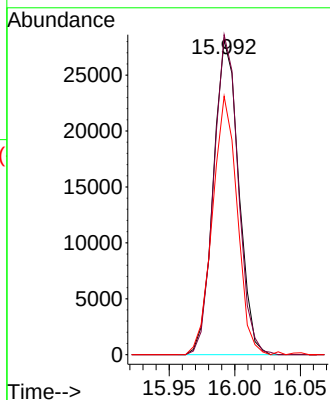
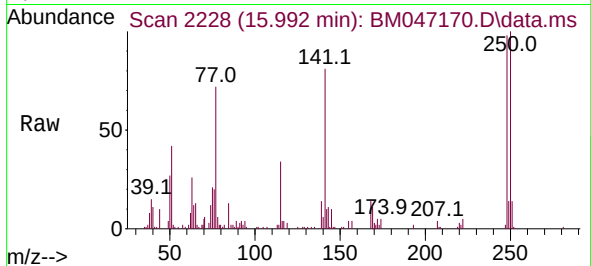
Tgt Ion:248 Resp: 37598

Ion Ratio Lower Upper

248 100

250 101.7 77.8 116.8

141 82.1 57.7 86.5



#68

Hexachlorobenzene

Concen: 3.777 ng

RT: 16.098 min Scan# 2246

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

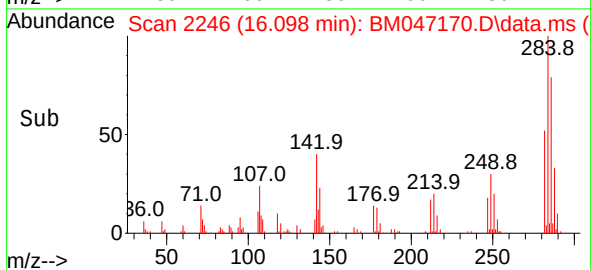
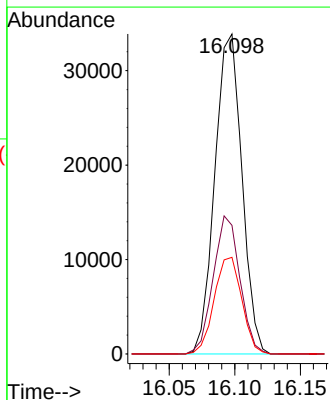
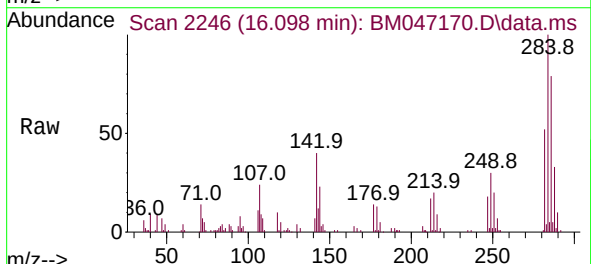
Tgt Ion:284 Resp: 48639

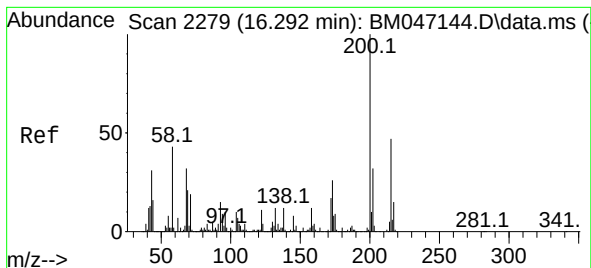
Ion Ratio Lower Upper

284 100

142 40.2 29.4 44.0

249 30.2 25.1 37.7





#69

Atrazine

Concen: 4.164 ng

RT: 16.286 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

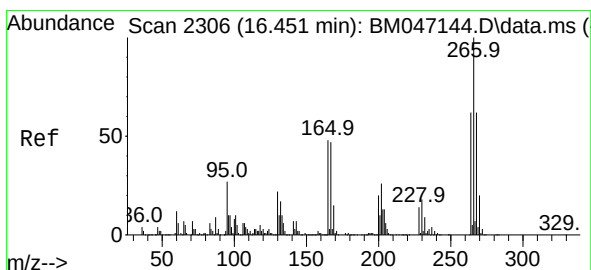
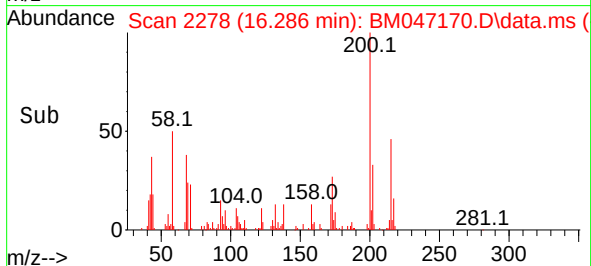
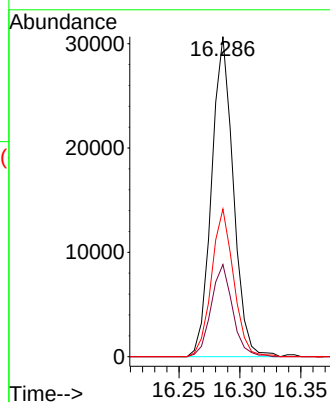
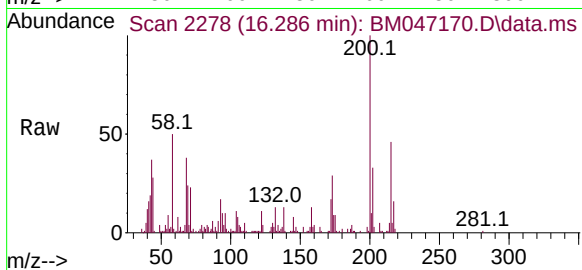
Tgt Ion:200 Resp: 38087

Ion Ratio Lower Upper

200 100

173 28.8 6.1 46.1

215 46.1 26.8 66.8



#70

Pentachlorophenol

Concen: 2.599 ng

RT: 16.451 min Scan# 2306

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

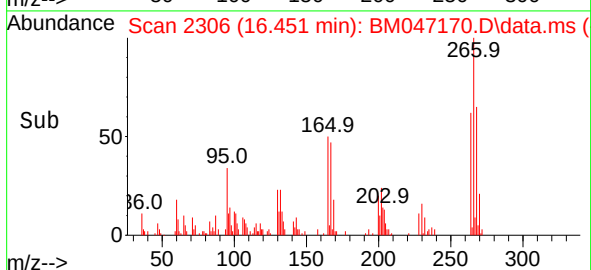
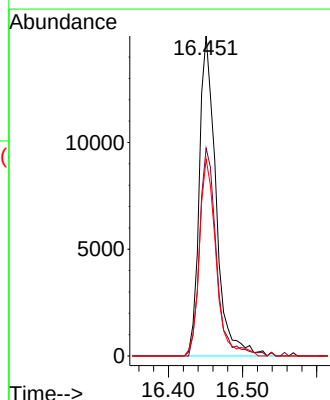
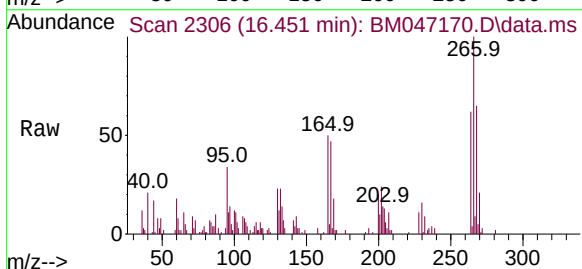
Tgt Ion:266 Resp: 23461

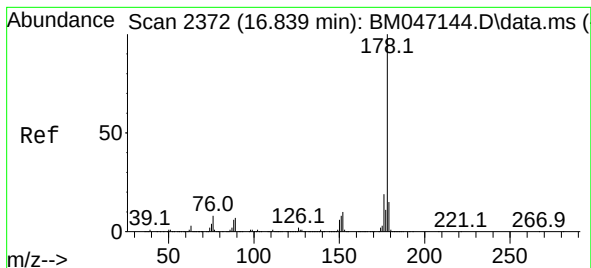
Ion Ratio Lower Upper

266 100

268 65.0 49.8 74.6

264 61.6 49.6 74.4





#71

Phenanthrene

Concen: 4.373 ng

RT: 16.833 min Scan# 24

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

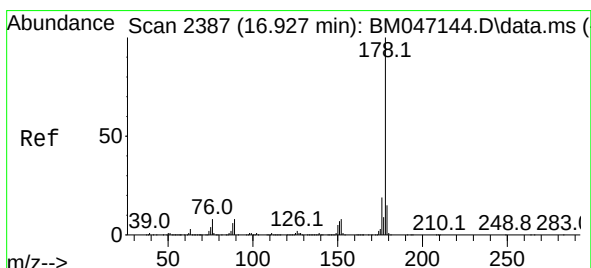
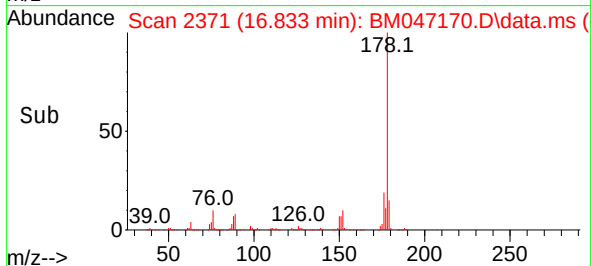
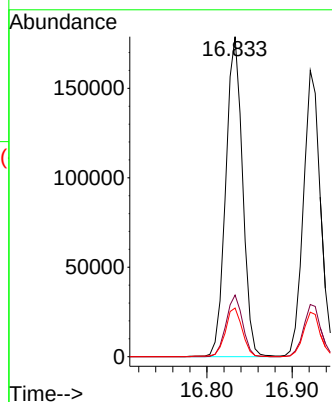
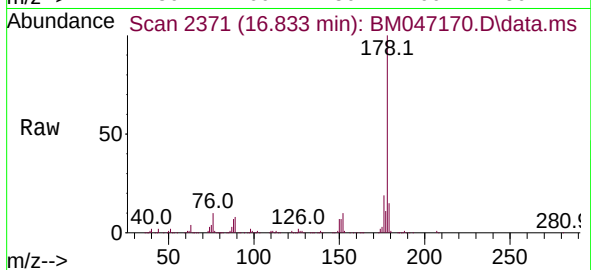
Tgt Ion:178 Resp: 244898

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.2 12.4 18.6



#72

Anthracene

Concen: 4.139 ng

RT: 16.921 min Scan# 2386

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

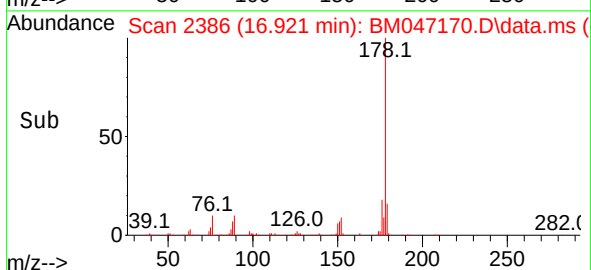
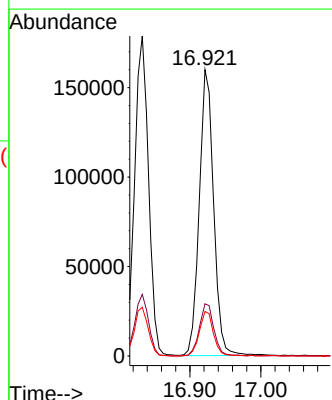
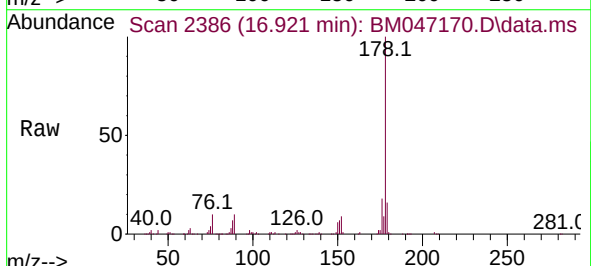
Tgt Ion:178 Resp: 225516

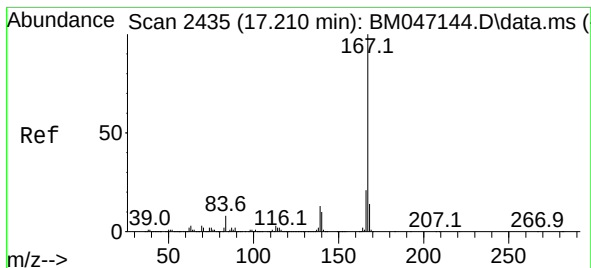
Ion Ratio Lower Upper

178 100

176 18.2 14.8 22.2

179 15.5 12.4 18.6





#73

Carbazole

Concen: 3.933 ng

RT: 17.204 min Scan# 2435

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

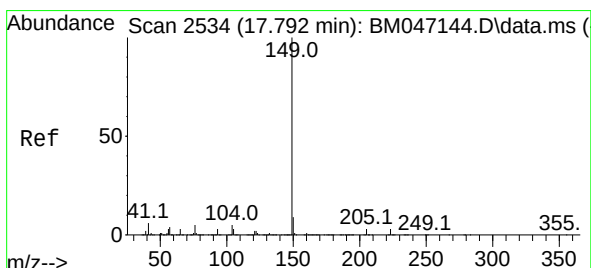
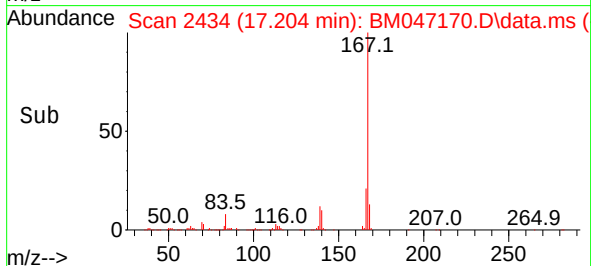
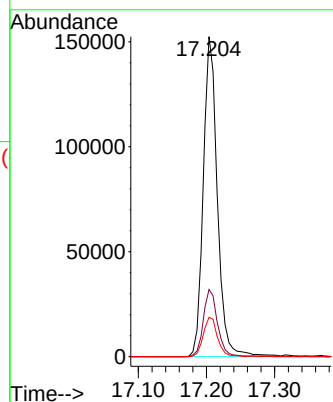
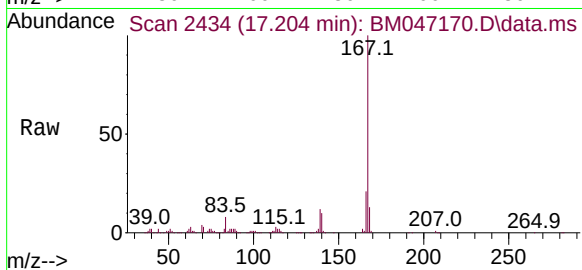
Tgt Ion:167 Resp: 218839

Ion Ratio Lower Upper

167 100

166 21.0 17.1 25.7

139 12.3 10.0 15.0



#74

Di-n-butylphthalate

Concen: 3.655 ng

RT: 17.792 min Scan# 2534

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

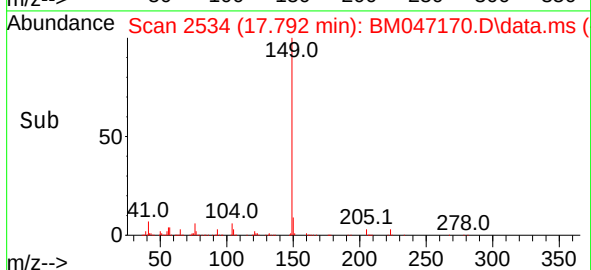
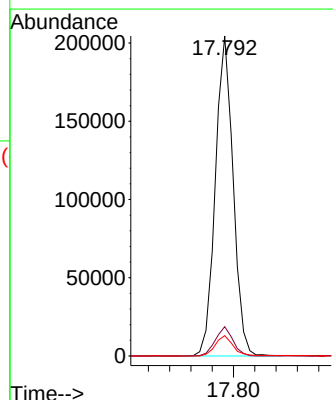
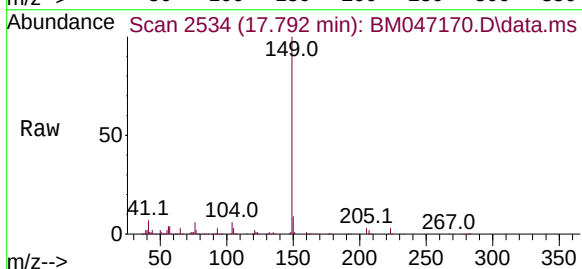
Tgt Ion:149 Resp: 236591

Ion Ratio Lower Upper

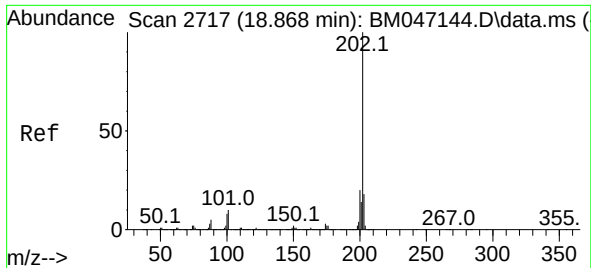
149 100

150 9.1 7.5 11.3

104 6.4 4.1 6.1#



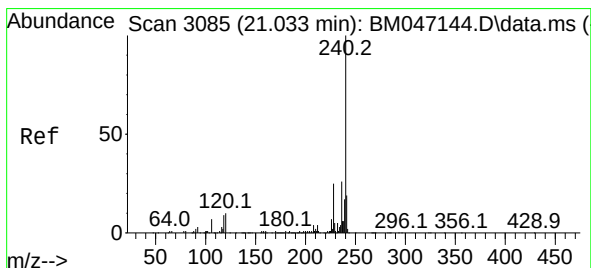
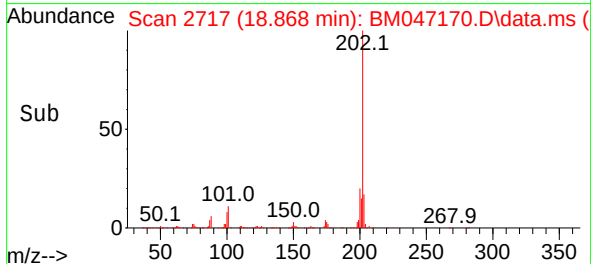
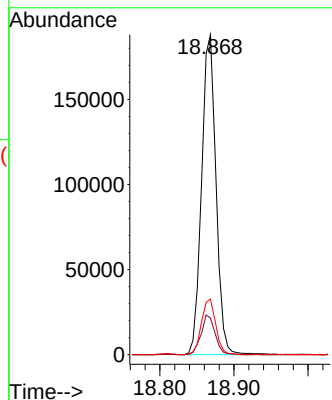
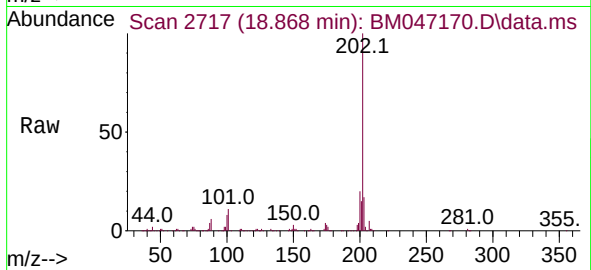




#75  
Fluoranthene  
Concen: 3.726 ng  
RT: 18.868 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

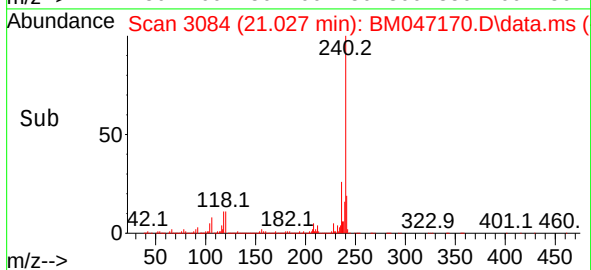
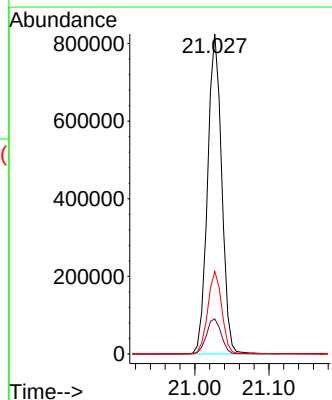
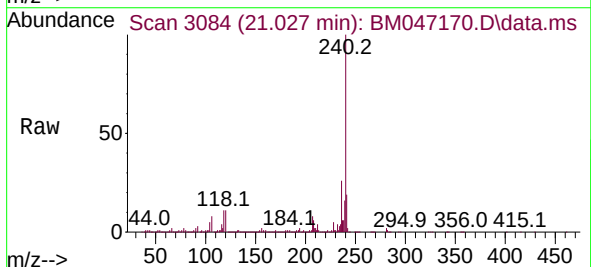
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT3-2024

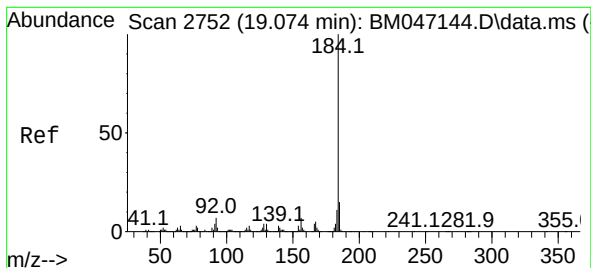
Tgt Ion:202 Resp: 253799  
Ion Ratio Lower Upper  
202 100  
101 11.5 0.0 30.2  
203 17.4 0.0 37.6



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.027 min Scan# 3084  
Delta R.T. -0.006 min  
Lab File: BM047170.D  
Acq: 13 Aug 2024 11:02

Tgt Ion:240 Resp: 1090704  
Ion Ratio Lower Upper  
240 100  
120 10.9 8.2 12.2  
236 25.8 20.6 30.8





#77

Benzidine

Concen: 3.890 ng

RT: 19.074 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

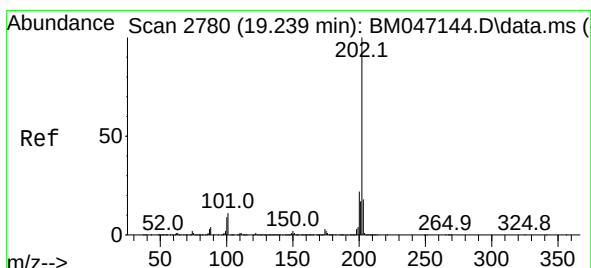
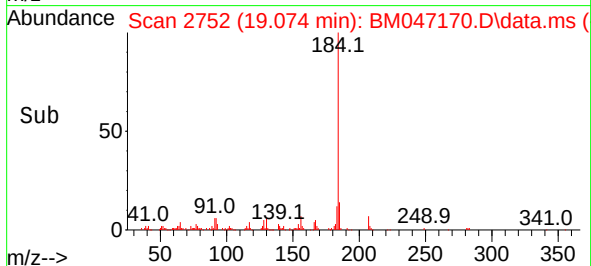
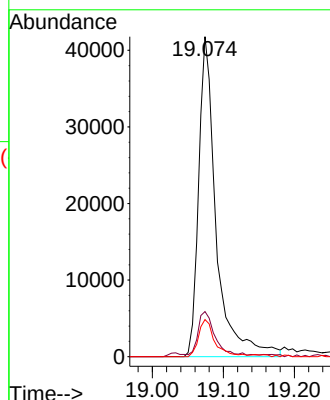
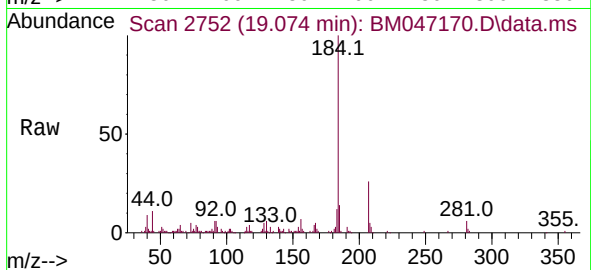
Tgt Ion:184 Resp: 71948

Ion Ratio Lower Upper

184 100

185 14.1 11.8 17.6

183 11.6 9.0 13.6



#78

Pyrene

Concen: 3.542 ng

RT: 19.233 min Scan# 2779

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

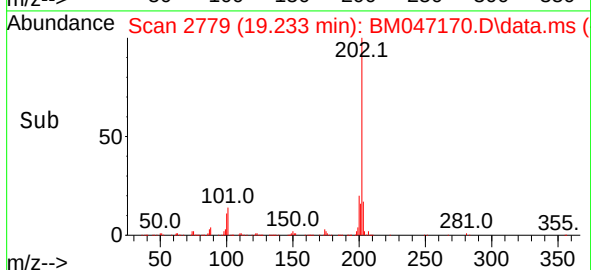
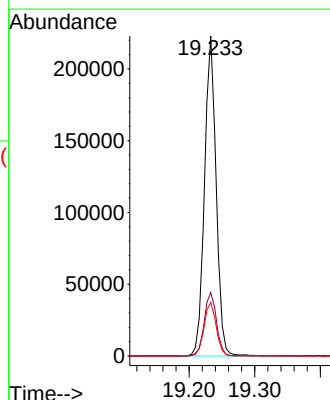
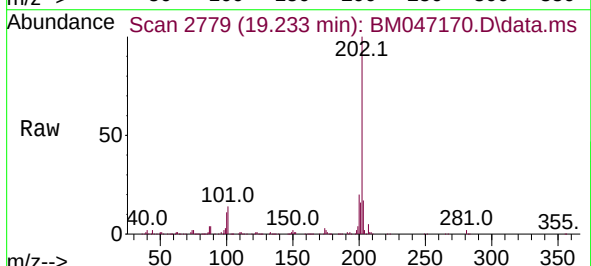
Tgt Ion:202 Resp: 275824

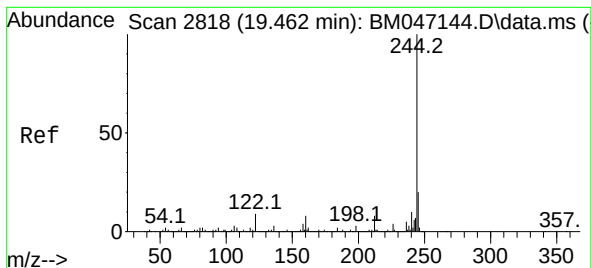
Ion Ratio Lower Upper

202 100

200 19.8 17.2 25.8

203 16.7 14.2 21.2





#79

Terphenyl-d14

Concen: 84.358 ng

RT: 19.456 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

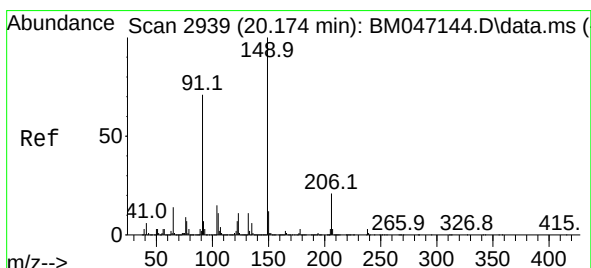
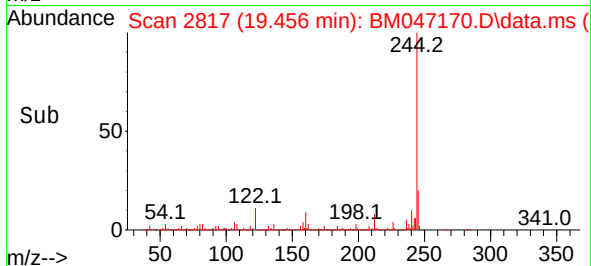
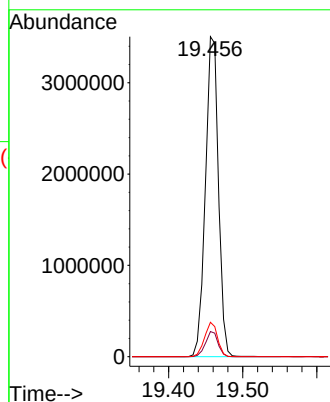
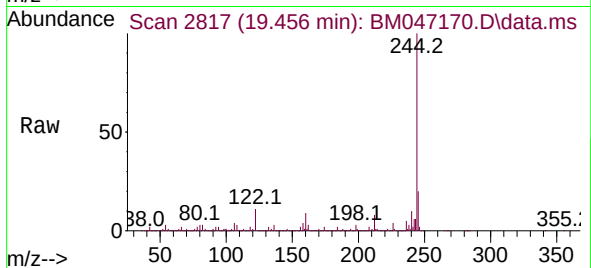
Tgt Ion:244 Resp: 4293965

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.4

122 10.8 7.1 10.7#



#80

Butylbenzylphthalate

Concen: 3.159 ng

RT: 20.174 min Scan# 2939

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

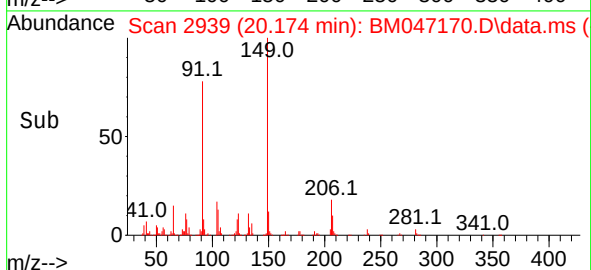
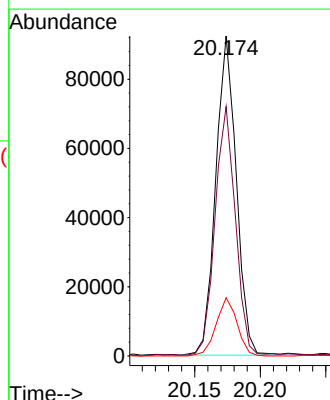
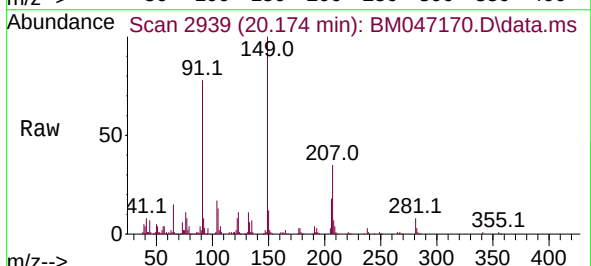
Tgt Ion:149 Resp: 100391

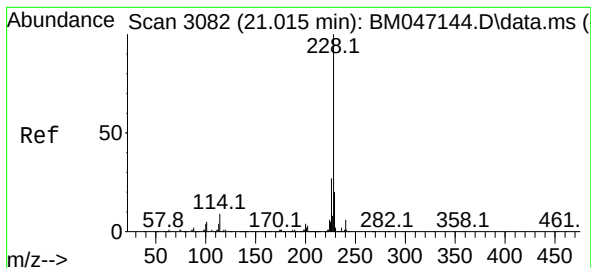
Ion Ratio Lower Upper

149 100

91 77.9 57.0 85.4

206 18.2 16.4 24.6





#81

Benzo(a)anthracene

Concen: 3.901 ng

RT: 21.009 min Scan# 3082

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

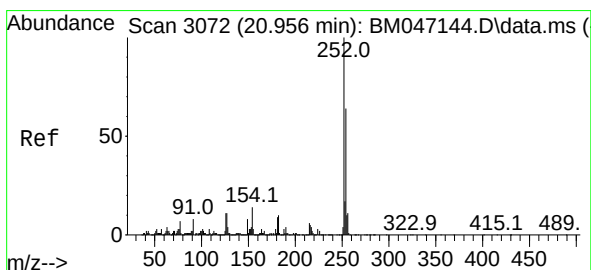
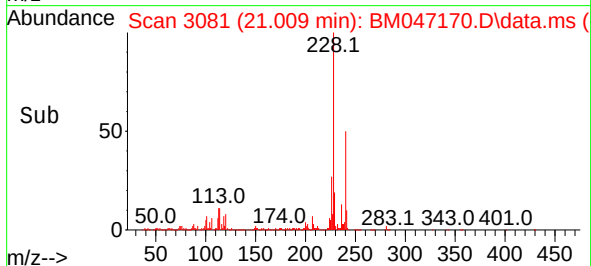
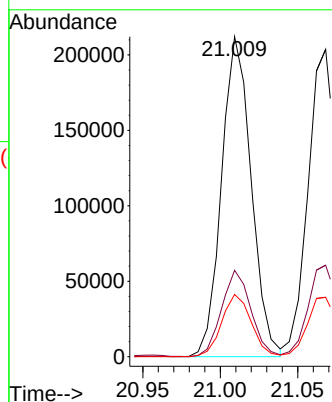
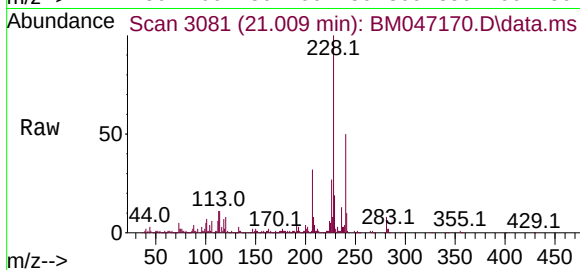
Tgt Ion:228 Resp: 282431

Ion Ratio Lower Upper

228 100

226 27.0 21.8 32.6

229 19.4 15.8 23.8



#82

3,3'-Dichlorobenzidine

Concen: 3.762 ng

RT: 20.956 min Scan# 3072

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

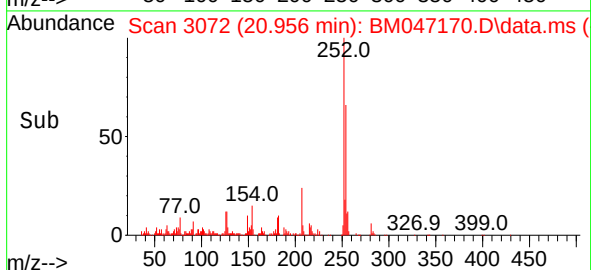
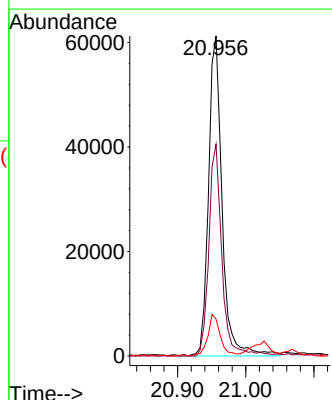
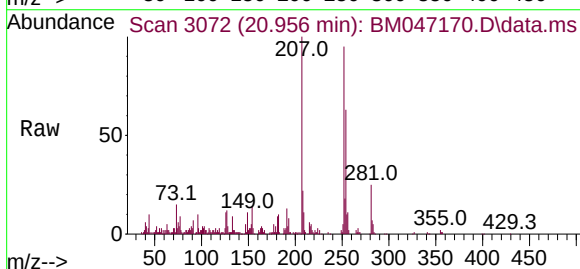
Tgt Ion:252 Resp: 85234

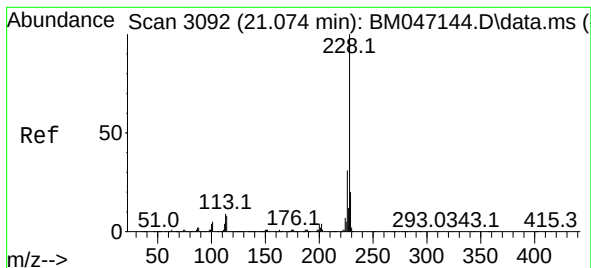
Ion Ratio Lower Upper

252 100

254 66.2 51.0 76.6

126 11.5 8.5 12.7





#83

Chrysene

Concen: 3.988 ng

RT: 21.068 min Scan# 3092

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

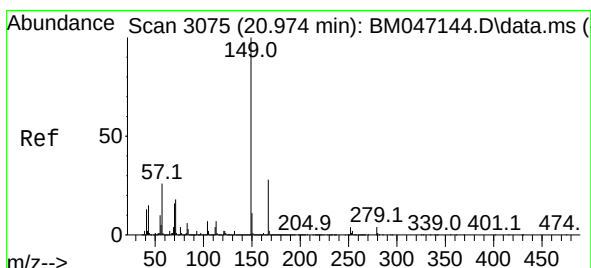
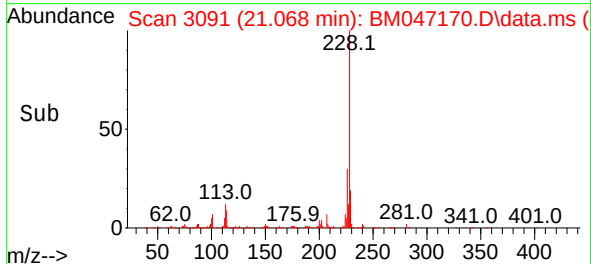
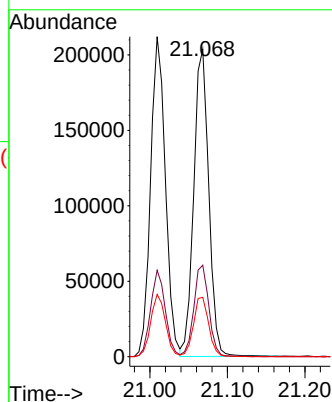
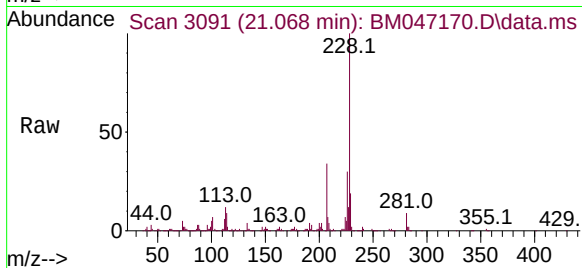
Tgt Ion:228 Resp: 273990

Ion Ratio Lower Upper

228 100

226 29.8 24.4 36.6

229 19.3 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.307 ng

RT: 20.974 min Scan# 3075

Delta R.T. -0.000 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

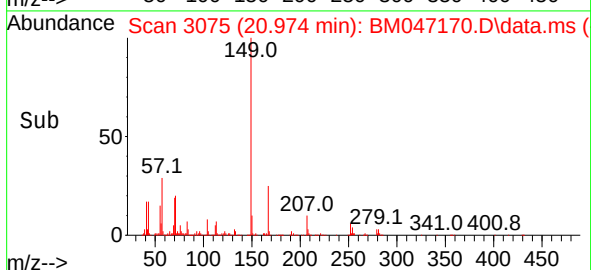
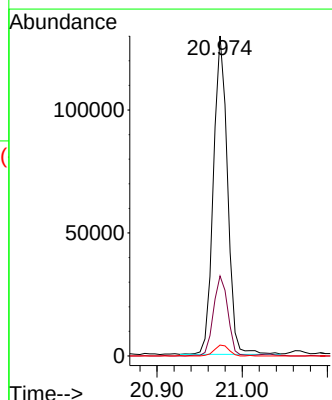
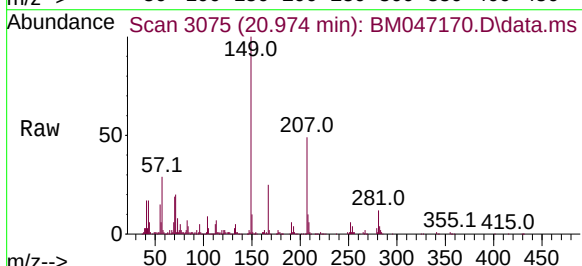
Tgt Ion:149 Resp: 149049

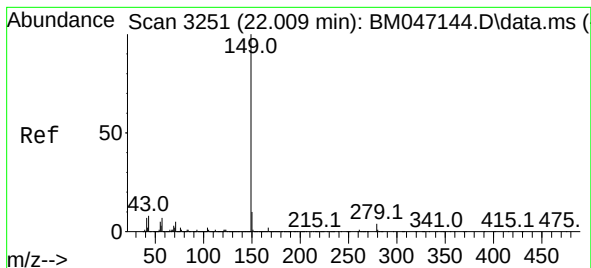
Ion Ratio Lower Upper

149 100

167 25.0 22.2 33.2

279 3.4 3.0 4.4





#85

Di-n-octyl phthalate

Concen: 2.990 ng

RT: 22.003 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

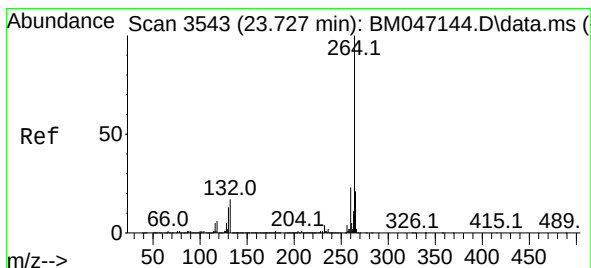
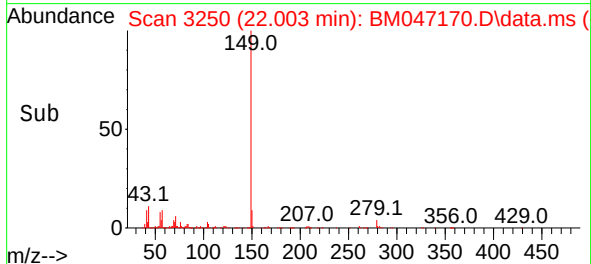
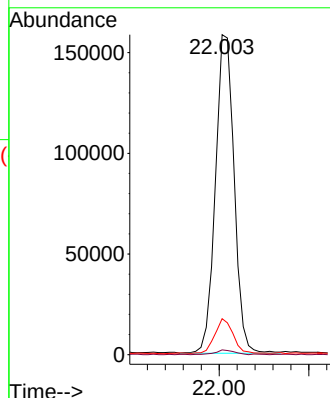
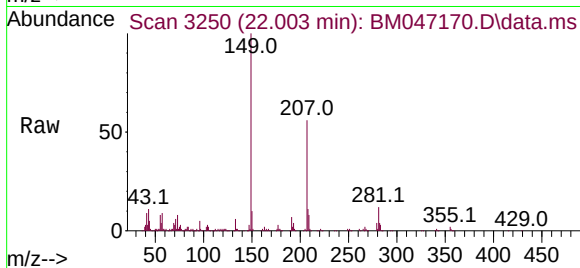
Tgt Ion:149 Resp: 229077

Ion Ratio Lower Upper

149 100

167 1.5 1.3 1.9

43 10.5 6.9 10.3#



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.721 min Scan# 3542

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

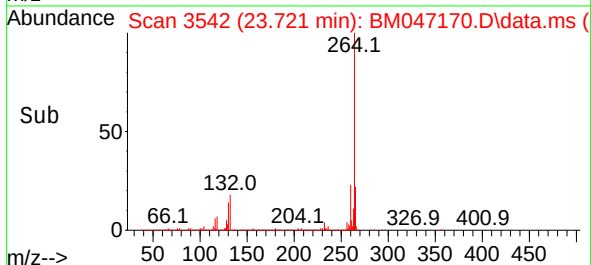
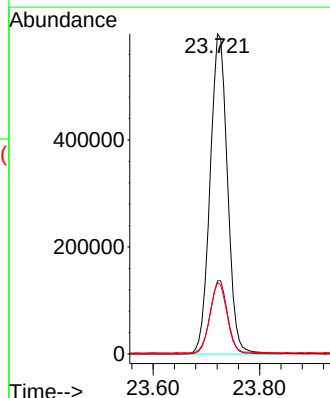
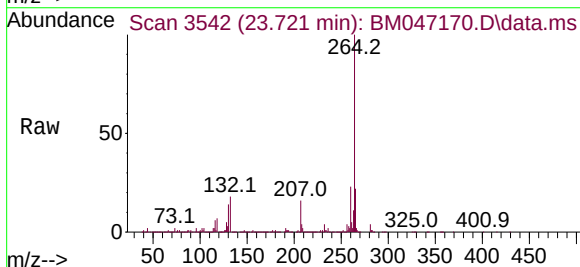
Tgt Ion:264 Resp: 1358635

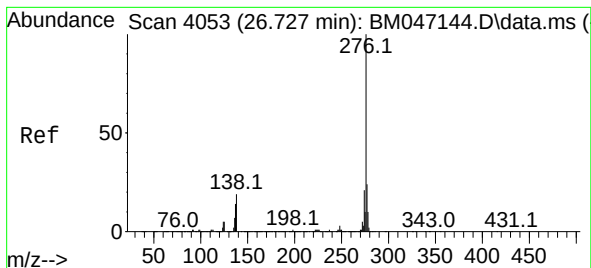
Ion Ratio Lower Upper

264 100

260 22.8 18.5 27.7

265 22.3 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.013 ng

RT: 26.709 min Scan# 4053

Delta R.T. -0.018 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

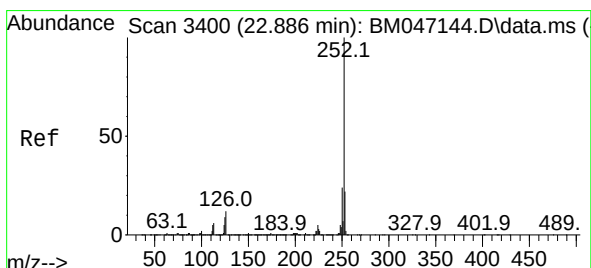
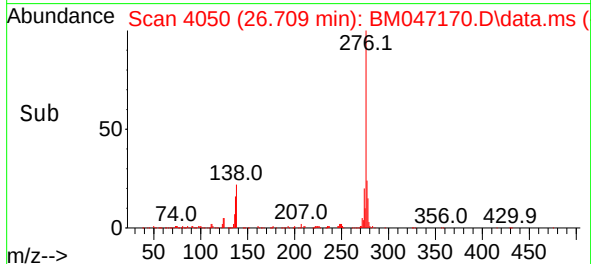
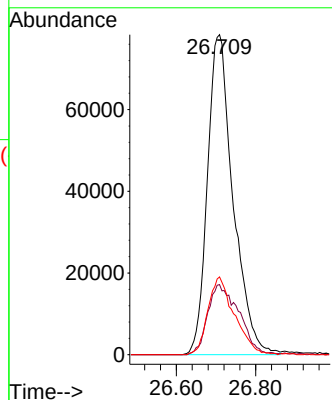
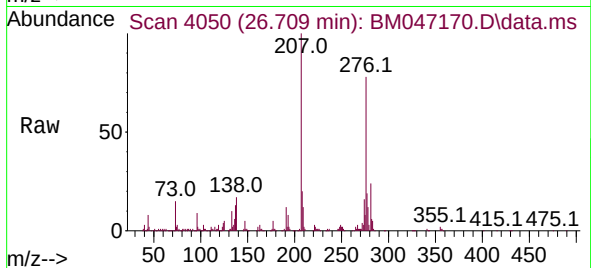
Tgt Ion:276 Resp: 352379

Ion Ratio Lower Upper

276 100

138 26.7 19.4 29.0

277 25.1 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 3.562 ng

RT: 22.880 min Scan# 3399

Delta R.T. -0.006 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

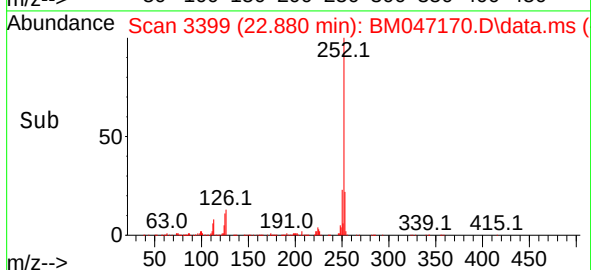
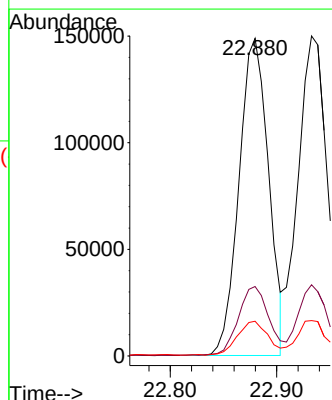
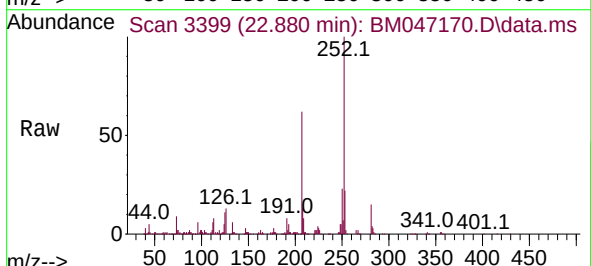
Tgt Ion:252 Resp: 287423

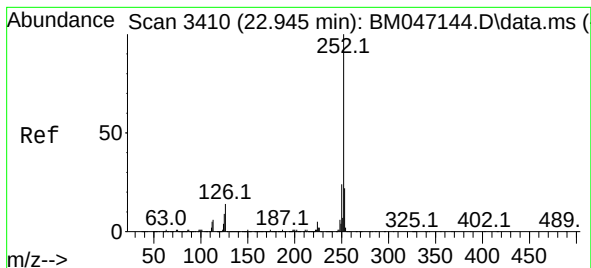
Ion Ratio Lower Upper

252 100

253 21.9 17.8 26.6

125 10.9 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 3.788 ng

RT: 22.933 min Scan# 3410

Delta R.T. -0.012 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

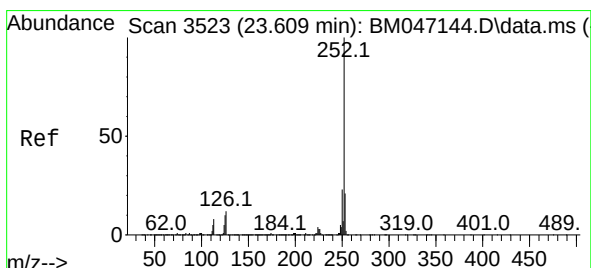
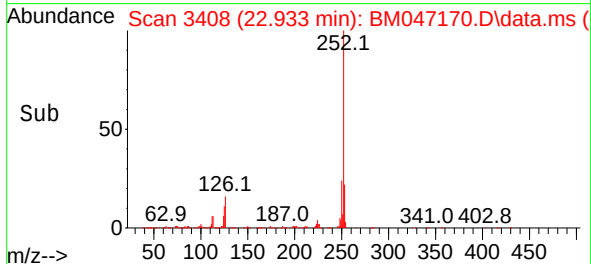
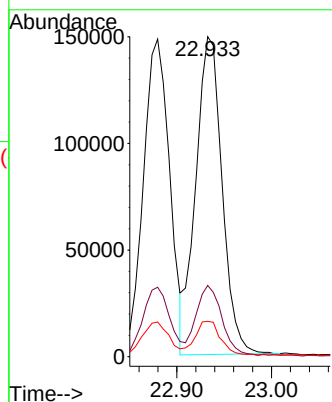
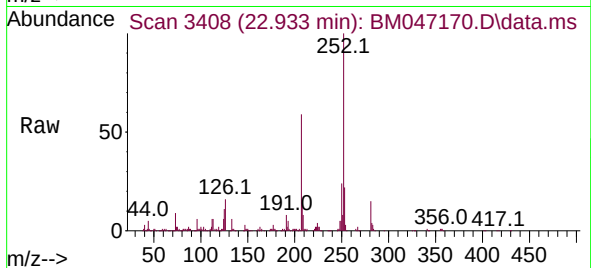
Tgt Ion:252 Resp: 288710

Ion Ratio Lower Upper

252 100

253 22.3 17.7 26.5

125 11.1 7.4 11.2



#90

Benzo(a)pyrene

Concen: 3.698 ng

RT: 23.591 min Scan# 3520

Delta R.T. -0.018 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

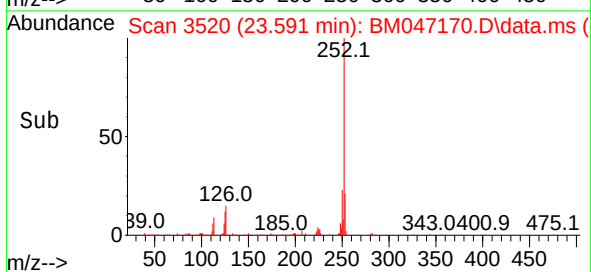
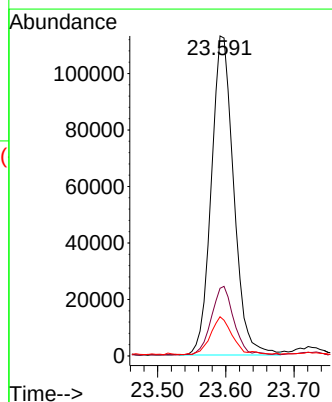
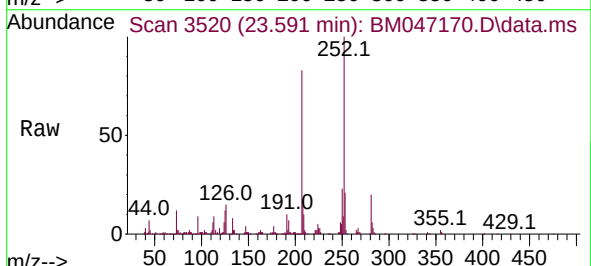
Tgt Ion:252 Resp: 258453

Ion Ratio Lower Upper

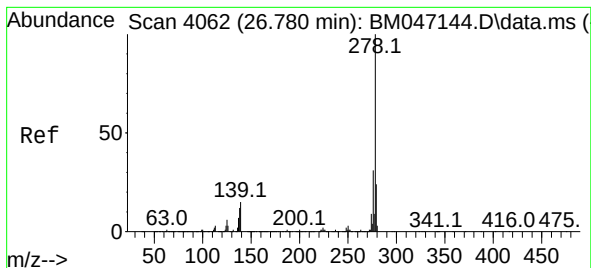
252 100

253 21.2 17.1 25.7

125 12.3 8.2 12.2#







#91

Dibenzo(a,h)anthracene

Concen: 4.108 ng

RT: 26.756 min Scan# 4062

Delta R.T. -0.024 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

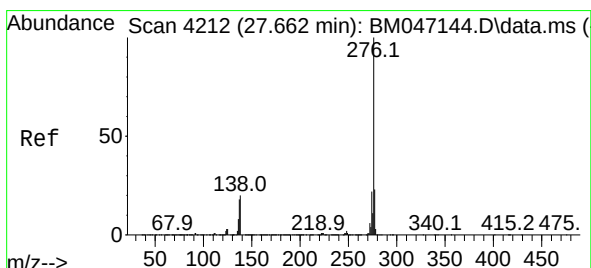
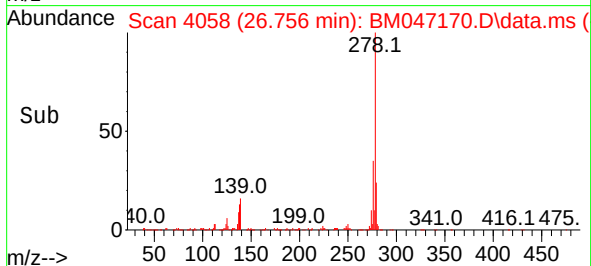
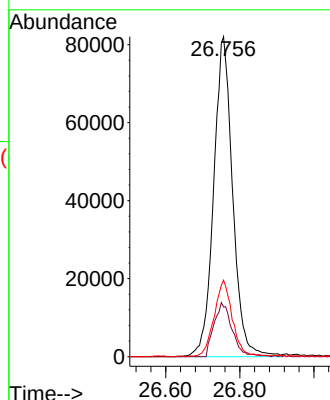
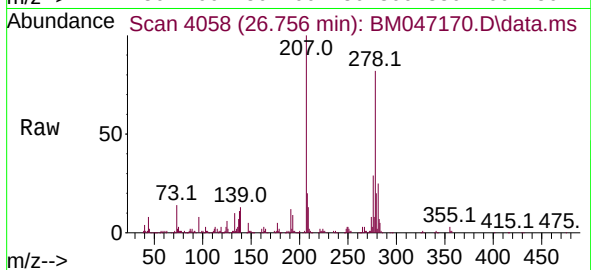
Tgt Ion:278 Resp: 291958

Ion Ratio Lower Upper

278 100

139 15.6 12.0 18.0

279 23.9 19.2 28.8



#92

Benzo(g,h,i)perylene

Concen: 3.922 ng

RT: 27.626 min Scan# 4206

Delta R.T. -0.035 min

Lab File: BM047170.D

Acq: 13 Aug 2024 11:02

Tgt Ion:276 Resp: 289415

Ion Ratio Lower Upper

276 100

277 23.1 18.8 28.2

138 22.2 16.2 24.4

