

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM020624\  
 Data File : BM043990.D  
 Acq On : 06 Feb 2024 14:03  
 Operator : MA/JU  
 Sample : 04699-02  
 Misc : LOQ-SOIL-10PPM  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2023

Quant Time: Feb 07 03:06:58 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 06 07:03:31 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.922  | 152  | 272940   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.728 | 136  | 1252635  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.563 | 164  | 772025   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.315 | 188  | 1706973  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.515 | 240  | 1745284  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.927 | 264  | 1996622  | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.493  | 112  | 2705413  | 146.376 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.087  | 99   | 3742020  | 137.028 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.092  | 82   | 2165828  | 83.348  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.057 | 330  | 1296432  | 137.759 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.192 | 172  | 4849316  | 86.309  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.956 | 244  | 8325044  | 92.081  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.393  | 88   | 82761    | 11.586  | ng    | 98       |
| 3) Pyridine                   | 3.793  | 79   | 211967   | 9.751   | ng    | 97       |
| 4) n-Nitrosodimethylamine     | 3.716  | 42   | 95736    | 10.245  | ng    | # 96     |
| 6) Aniline                    | 7.251  | 93   | 314303   | 11.567  | ng    | 99       |
| 8) 2-Chlorophenol             | 7.481  | 128  | 203119   | 9.898   | ng    | 98       |
| 9) Benzaldehyde               | 7.069  | 77   | 202857   | 13.030  | ng    | 97       |
| 10) Phenol                    | 7.110  | 94   | 277853   | 10.233  | ng    | 93       |
| 11) bis(2-Chloroethyl)ether   | 7.357  | 93   | 220905   | 10.380  | ng    | 98       |
| 12) 1,3-Dichlorobenzene       | 7.804  | 146  | 227323   | 10.260  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 7.957  | 146  | 235128   | 10.494  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.269  | 146  | 222909   | 10.088  | ng    | 98       |
| 15) Benzyl Alcohol            | 8.163  | 79   | 192912   | 10.306  | ng    | 97       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.463  | 45   | 301575   | 10.567  | ng    | 99       |
| 17) 2-Methylphenol            | 8.363  | 107  | 170157   | 9.804   | ng    | 98       |
| 18) Hexachloroethane          | 8.992  | 117  | 84679    | 10.071  | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 8.734  | 70   | 184417   | 10.263  | ng    | 97       |
| 20) 3+4-Methylphenols         | 8.692  | 107  | 232542   | 9.492   | ng    | 98       |
| 22) Acetophenone              | 8.751  | 105  | 359366   | 10.588  | ng    | # 97     |
| 24) Nitrobenzene              | 9.134  | 77   | 264648   | 10.151  | ng    | 99       |
| 25) Isophorone                | 9.657  | 82   | 485645   | 10.040  | ng    | 99       |
| 26) 2-Nitrophenol             | 9.839  | 139  | 95708    | 9.083   | ng    | 94       |
| 27) 2,4-Dimethylphenol        | 9.898  | 122  | 157587   | 10.892  | ng    | 98       |
| 28) bis(2-Chloroethoxy)met... | 10.151 | 93   | 306241   | 10.367  | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 10.369 | 162  | 178036   | 9.647   | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.586 | 180  | 209142   | 10.034  | ng    | 99       |
| 31) Naphthalene               | 10.775 | 128  | 708519   | 10.148  | ng    | 99       |
| 32) Benzoic acid              | 9.975  | 122  | 88616    | 11.471  | ng    | 95       |
| 33) 4-Chloroaniline           | 10.892 | 127  | 303907   | 10.590  | ng    | 100      |
| 34) Hexachlorobutadiene       | 11.051 | 225  | 111533   | 9.811   | ng    | 99       |
| 35) Caprolactam               | 11.663 | 113  | 67923    | 8.975   | ng    | 96       |
| 36) 4-Chloro-3-methylphenol   | 12.010 | 107  | 213862   | 9.463   | ng    | 100      |
| 37) 2-Methylnaphthalene       | 12.386 | 142  | 479377   | 9.846   | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.604 | 142  | 470726   | 9.685   | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 12.751 | 216  | 235598   | 10.760  | ng    | 100      |
| 41) Hexachlorocyclopentadiene | 12.722 | 237  | 88065    | 12.229  | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 12.998 | 196  | 140561   | 9.499   | ng    | 98       |

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 Sample : 04699-02  
 Misc : LOQ-SOIL-10PPM  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2023

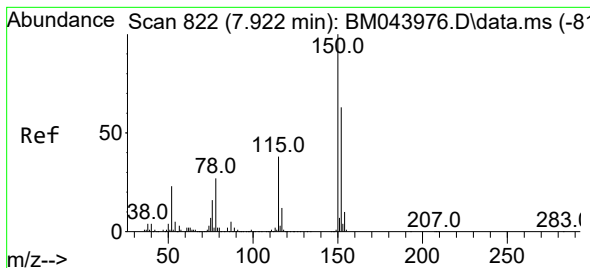
Quant Time: Feb 07 03:06:58 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 06 07:03:31 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.063 | 196  | 160078   | 9.482  | ng    | 96       |
| 46) 1,1'-Biphenyl             | 13.404 | 154  | 642751   | 10.587 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.439 | 162  | 497708   | 10.280 | ng    | 100      |
| 48) 2-Nitroaniline            | 13.651 | 65   | 149379   | 9.486  | ng    | 96       |
| 49) Acenaphthylene            | 14.286 | 152  | 818726   | 11.062 | ng    | 100      |
| 50) Dimethylphthalate         | 14.033 | 163  | 617211   | 10.292 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.151 | 165  | 124274   | 9.428  | ng    | 98       |
| 52) Acenaphthene              | 14.627 | 154  | 475965   | 10.145 | ng    | 98       |
| 53) 3-Nitroaniline            | 14.480 | 138  | 148271   | 9.689  | ng    | 97       |
| 54) 2,4-Dinitrophenol         | 14.686 | 184  | 44578    | 12.370 | ng    | 97       |
| 55) Dibenzofuran              | 14.963 | 168  | 767269   | 10.508 | ng    | 99       |
| 56) 4-Nitrophenol             | 14.780 | 139  | 120427   | 9.005  | ng    | 98       |
| 57) 2,4-Dinitrotoluene        | 14.933 | 165  | 161767   | 8.816  | ng    | 94       |
| 58) Fluorene                  | 15.615 | 166  | 629923   | 10.216 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.186 | 232  | 143773   | 9.878  | ng    | 98       |
| 60) Diethylphthalate          | 15.398 | 149  | 618478   | 9.963  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.615 | 204  | 291409   | 10.130 | ng    | 99       |
| 62) 4-Nitroaniline            | 15.639 | 138  | 154302   | 9.222  | ng    | 99       |
| 63) Azobenzene                | 15.910 | 77   | 640335   | 10.327 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.692 | 198  | 67949    | 11.808 | ng    | 91       |
| 66) n-Nitrosodiphenylamine    | 15.833 | 169  | 538599   | 10.593 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.510 | 248  | 130047   | 7.734  | ng    | 95       |
| 68) Hexachlorobenzene         | 16.610 | 284  | 196867   | 9.819  | ng    | 98       |
| 69) Atrazine                  | 16.786 | 200  | 171215   | 12.171 | ng    | 99       |
| 70) Pentachlorophenol         | 16.957 | 266  | 104423   | 7.932  | ng    | 99       |
| 71) Phenanthrene              | 17.357 | 178  | 1010334  | 10.627 | ng    | 100      |
| 72) Anthracene                | 17.451 | 178  | 976939   | 10.495 | ng    | 99       |
| 73) Carbazole                 | 17.727 | 167  | 966391   | 10.025 | ng    | 100      |
| 74) Di-n-butylphthalate       | 18.304 | 149  | 1015147  | 9.602  | ng    | 100      |
| 75) Fluoranthene              | 19.380 | 202  | 1143082  | 9.722  | ng    | 99       |
| 77) Benzidine                 | 19.580 | 184  | 484050   | 21.860 | ng    | 99       |
| 78) Pyrene                    | 19.745 | 202  | 1231059  | 10.261 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.662 | 149  | 443338   | 9.332  | ng    | 96       |
| 81) Benzo(a)anthracene        | 21.497 | 228  | 1276675  | 10.427 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 21.439 | 252  | 409734   | 10.465 | ng    | 98       |
| 83) Chrysene                  | 21.550 | 228  | 1192544  | 10.166 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.450 | 149  | 682165   | 9.656  | ng    | 100      |
| 85) Di-n-octyl phthalate      | 22.397 | 149  | 1112315  | 9.140  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 26.427 | 276  | 1463570  | 9.796  | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 23.191 | 252  | 1239218  | 9.867  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.244 | 252  | 1247420  | 10.353 | ng    | 100      |
| 90) Benzo(a)pyrene            | 23.821 | 252  | 1098017  | 9.891  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 26.456 | 278  | 1208797  | 9.811  | ng    | 100      |
| 92) Benzo(g,h,i)perylene      | 27.191 | 276  | 1166391  | 9.281  | ng    | 99       |

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

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QLast Update : Tue Feb 06 07:03:31 2024  
Response via : Initial Calibration

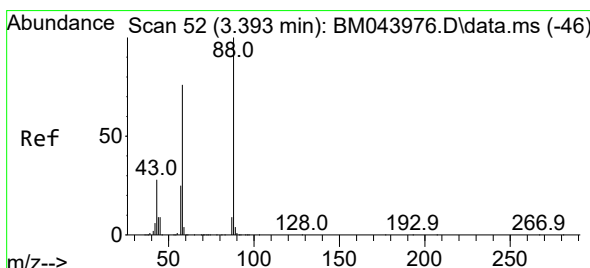
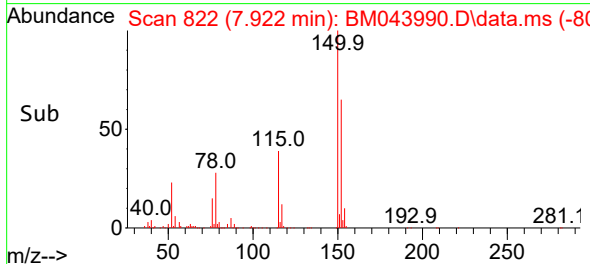
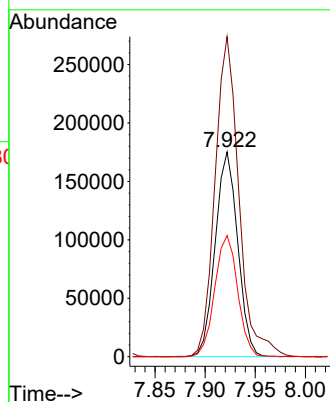
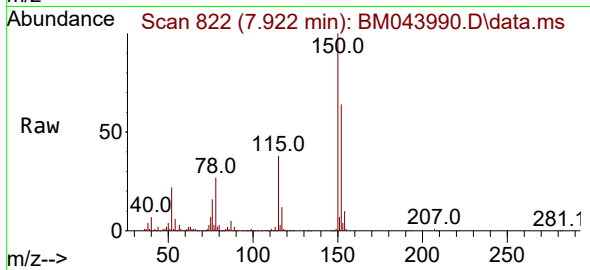




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.922 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: BM043990.D  
 Acq: 06 Feb 2024 14:03

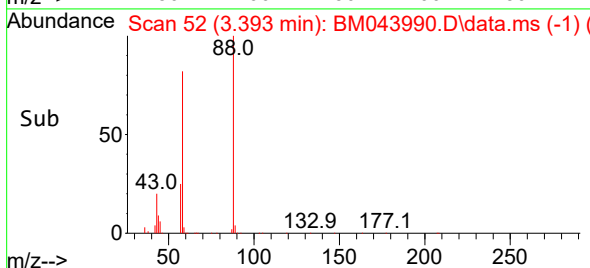
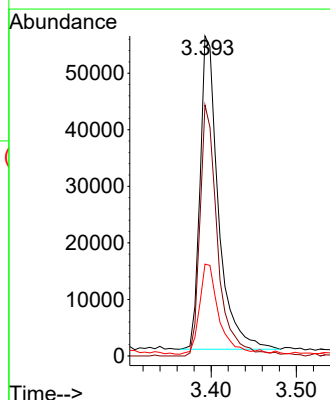
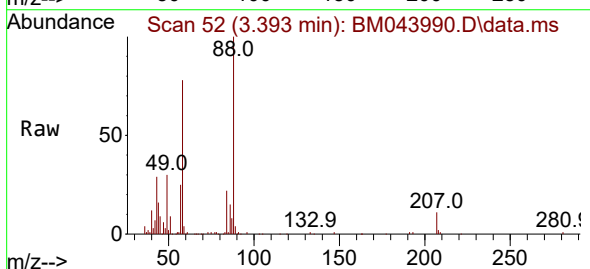
Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2023

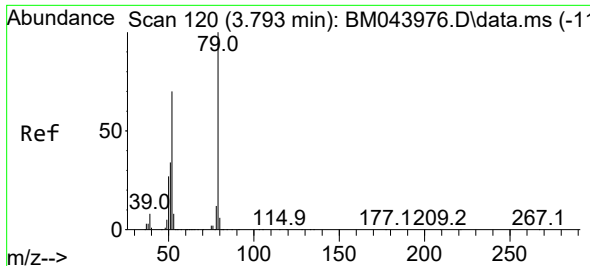
Tgt Ion:152 Resp: 272940  
 Ion Ratio Lower Upper  
 152 100  
 150 156.2 126.1 189.1  
 115 59.1 48.2 72.2



#2  
 1,4-Dioxane  
 Concen: 11.586 ng  
 RT: 3.393 min Scan# 52  
 Delta R.T. -0.000 min  
 Lab File: BM043990.D  
 Acq: 06 Feb 2024 14:03

Tgt Ion: 88 Resp: 82761  
 Ion Ratio Lower Upper  
 88 100  
 58 77.8 61.0 91.6  
 43 30.8 23.0 34.6



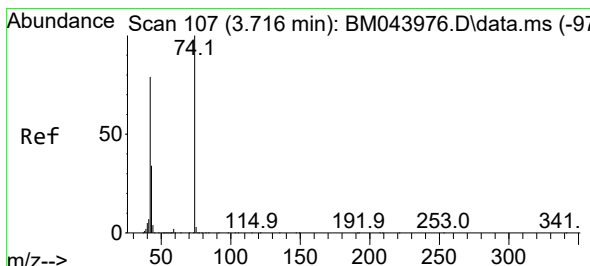
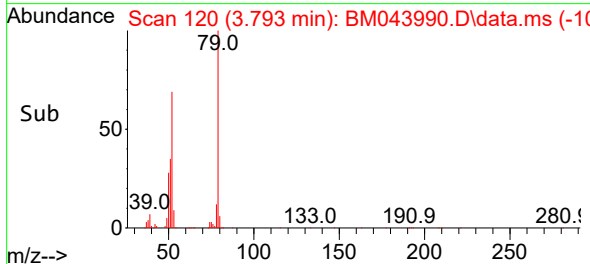
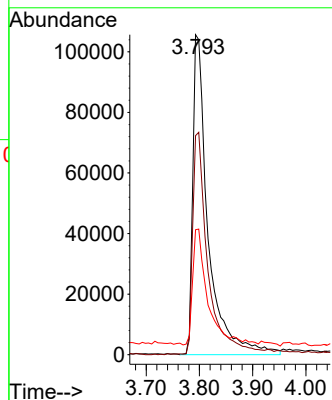
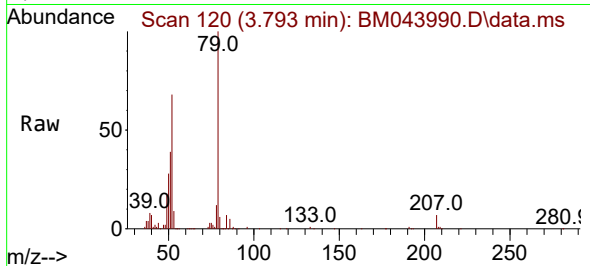


#3  
 Pyridine  
 Concen: 9.751 ng  
 RT: 3.793 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: BM043990.D  
 Acq: 06 Feb 2024 14:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2023

Tgt Ion: 79 Resp: 211967  

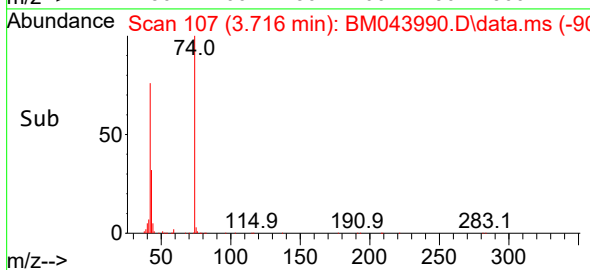
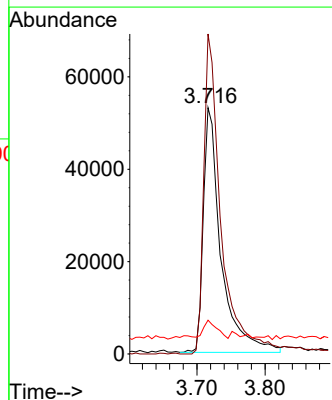
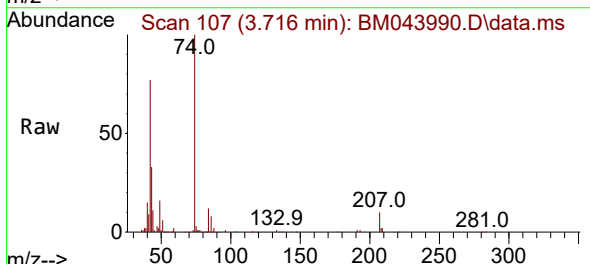
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 52  | 68.5  | 55.9  | 83.9  |
| 51  | 39.1  | 28.2  | 42.2  |

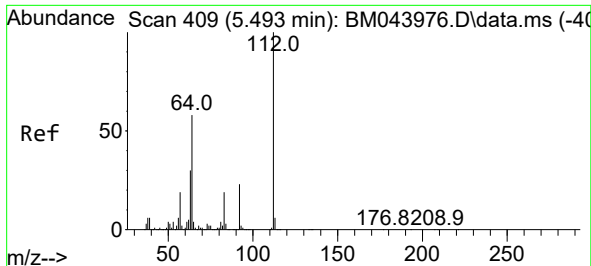


#4  
 n-Nitrosodimethylamine  
 Concen: 10.245 ng  
 RT: 3.716 min Scan# 107  
 Delta R.T. -0.000 min  
 Lab File: BM043990.D  
 Acq: 06 Feb 2024 14:03

Tgt Ion: 42 Resp: 95736  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 74  | 129.9 | 100.7 | 151.1 |
| 44  | 13.7  | 7.3   | 10.9  |

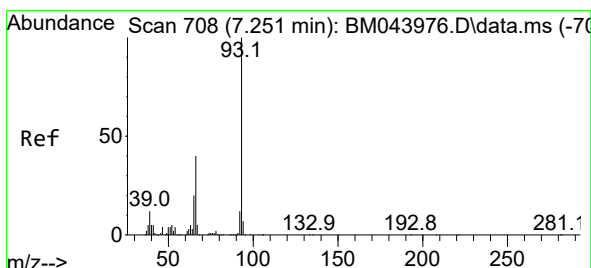
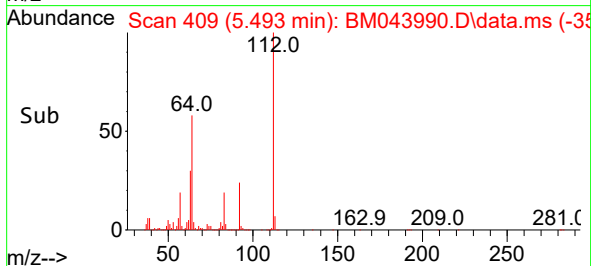
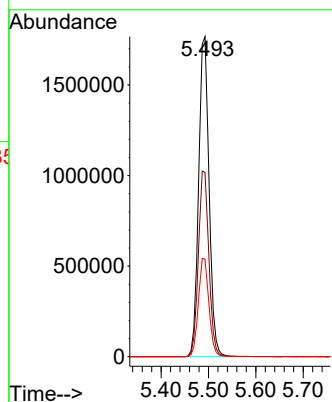
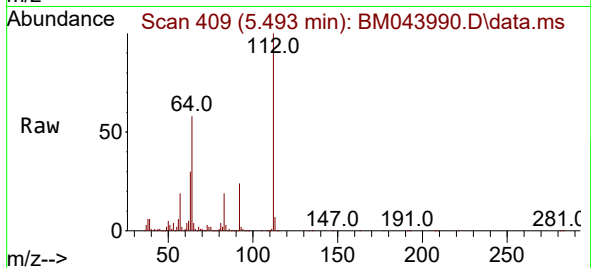




#5  
2-Fluorophenol  
Concen: 146.376 ng  
RT: 5.493 min Scan# 409  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

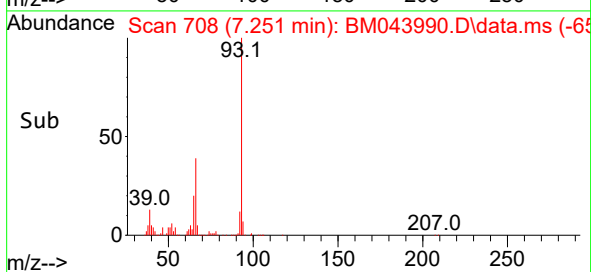
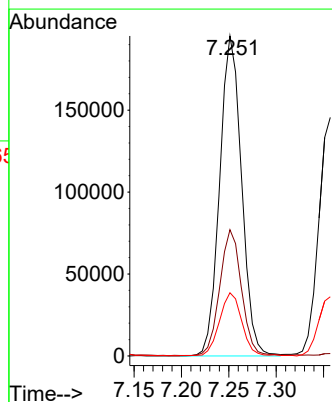
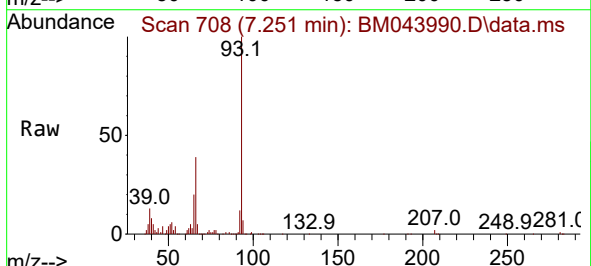
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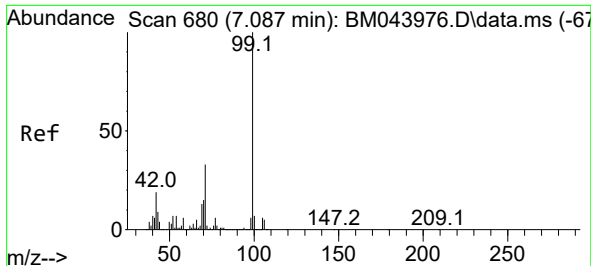
Tgt Ion:112 Resp: 2705413  
Ion Ratio Lower Upper  
112 100  
64 57.6 46.6 70.0  
63 30.5 24.2 36.4



#6  
Aniline  
Concen: 11.567 ng  
RT: 7.251 min Scan# 708  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion: 93 Resp: 314303  
Ion Ratio Lower Upper  
93 100  
66 39.4 32.2 48.2  
65 19.8 15.8 23.8

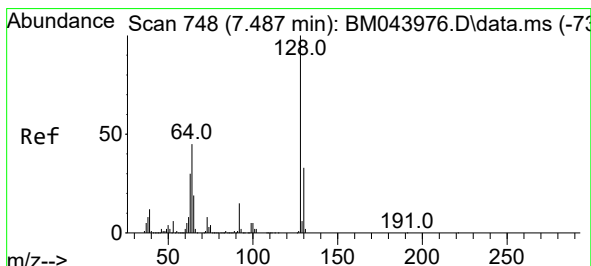
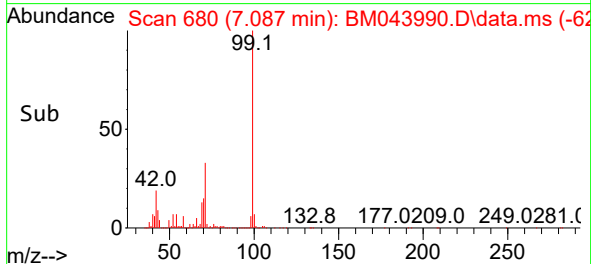
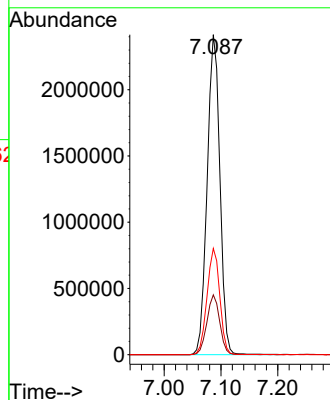
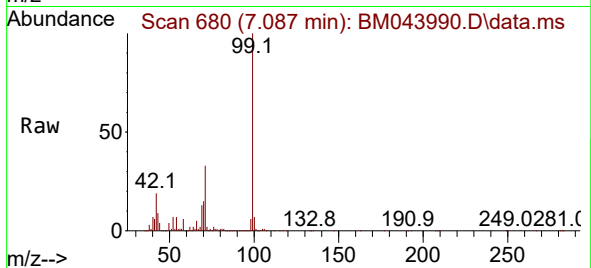




#7  
Phenol-d6  
Concen: 137.028 ng  
RT: 7.087 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

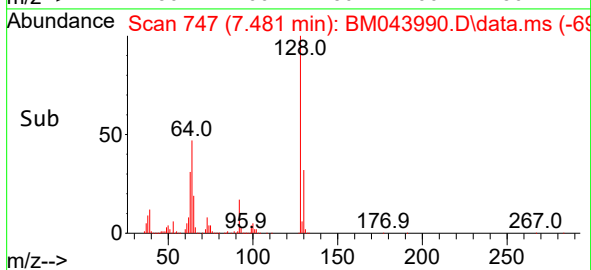
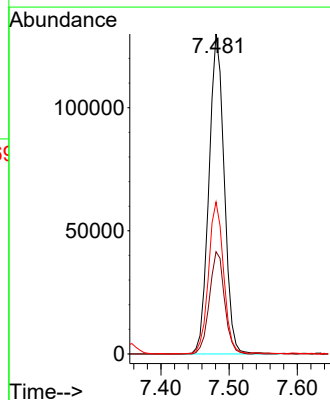
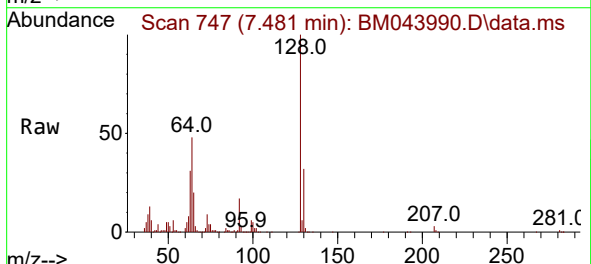
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

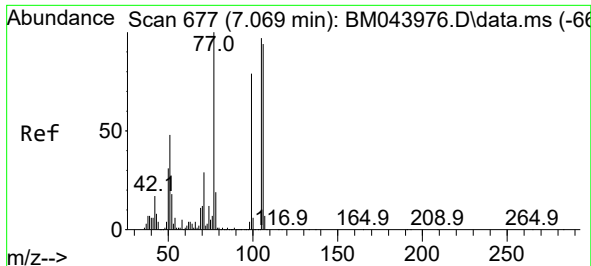
Tgt Ion: 99 Resp: 3742020  
Ion Ratio Lower Upper  
99 100  
42 18.7 14.9 22.3  
71 33.2 26.3 39.5



#8  
2-Chlorophenol  
Concen: 9.898 ng  
RT: 7.481 min Scan# 747  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:128 Resp: 203119  
Ion Ratio Lower Upper  
128 100  
130 32.0 12.9 52.9  
64 47.5 25.6 65.6

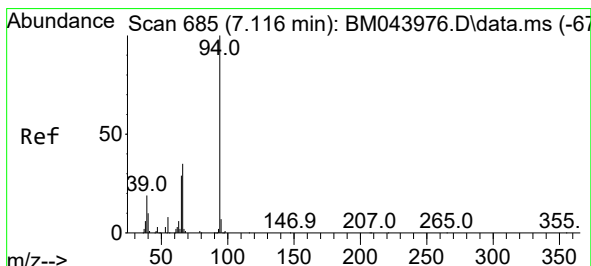
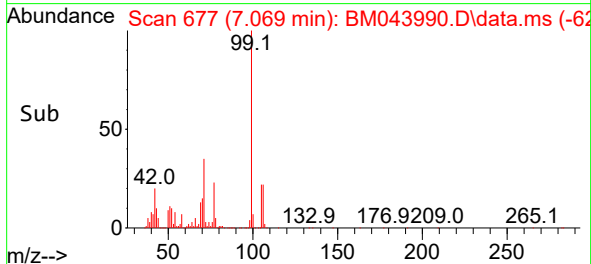
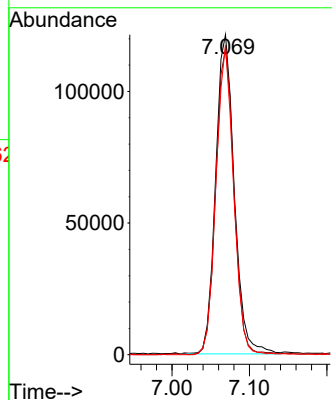
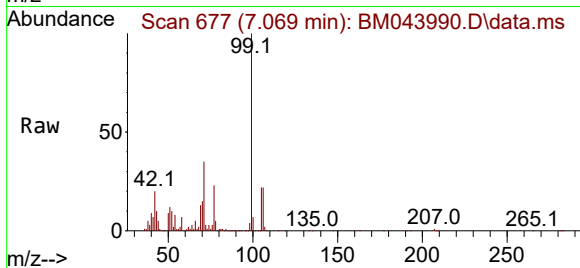




#9  
Benzaldehyde  
Concen: 13.030 ng  
RT: 7.069 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

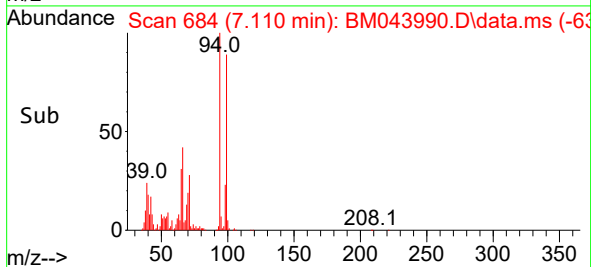
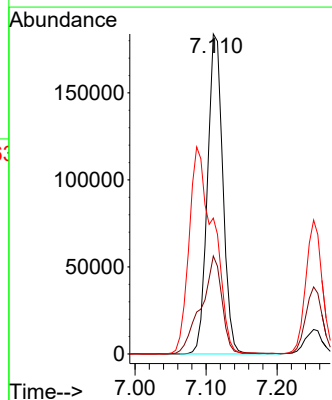
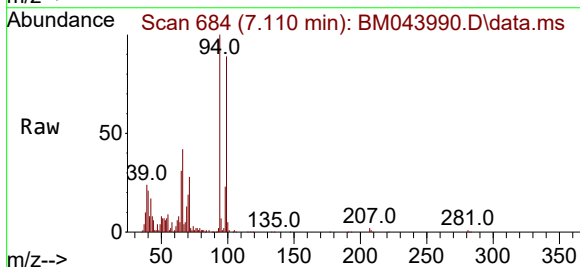
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

Tgt Ion: 77 Resp: 202857  
Ion Ratio Lower Upper  
77 100  
105 95.6 77.4 117.4  
106 96.8 73.5 113.5

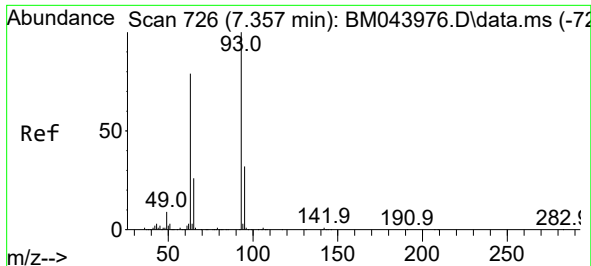


#10  
Phenol  
Concen: 10.233 ng  
RT: 7.110 min Scan# 684  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion: 94 Resp: 277853  
Ion Ratio Lower Upper  
94 100  
65 30.6 9.3 49.3  
66 42.4 15.7 55.7



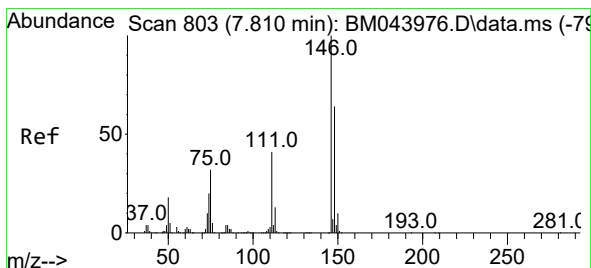
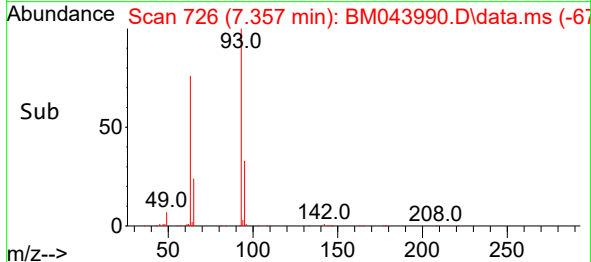
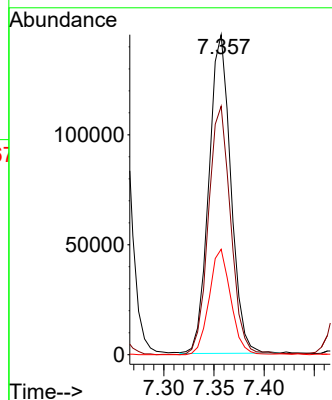
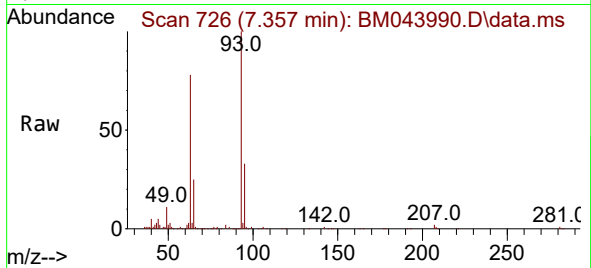




#11  
bis(2-Chloroethyl)ether  
Concen: 10.380 ng  
RT: 7.357 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

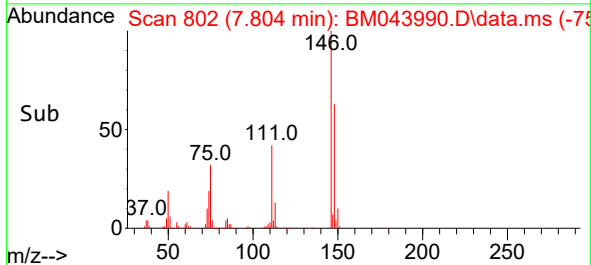
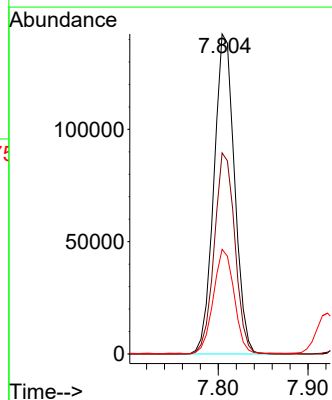
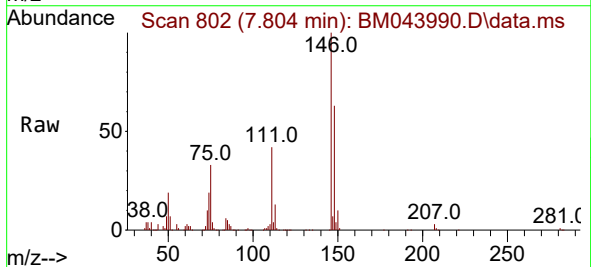
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

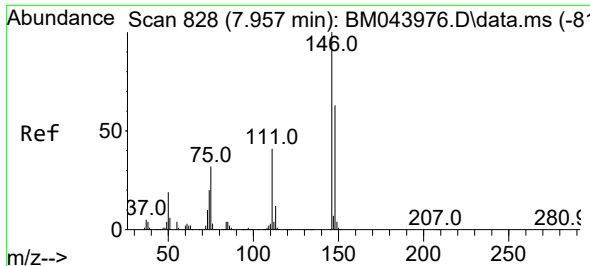
Tgt Ion: 93 Resp: 220905  
Ion Ratio Lower Upper  
93 100  
63 77.7 59.0 99.0  
95 32.9 11.9 51.9



#12  
1,3-Dichlorobenzene  
Concen: 10.260 ng  
RT: 7.804 min Scan# 802  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:146 Resp: 227323  
Ion Ratio Lower Upper  
146 100  
148 62.9 51.0 76.6  
75 32.7 26.1 39.1

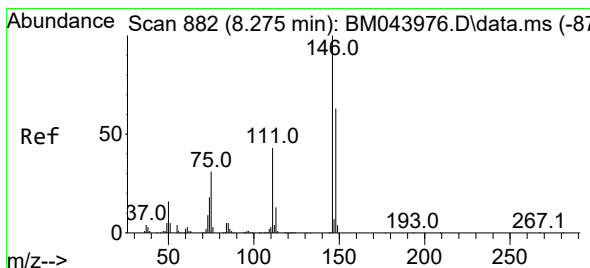
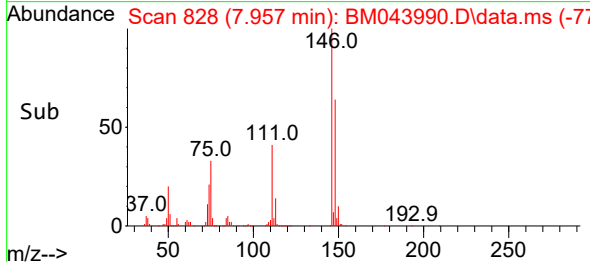
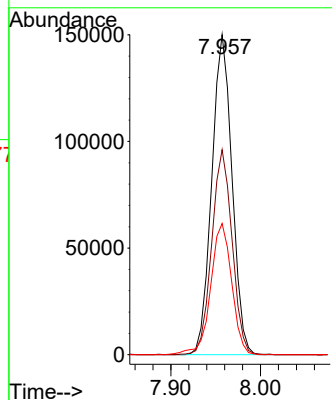
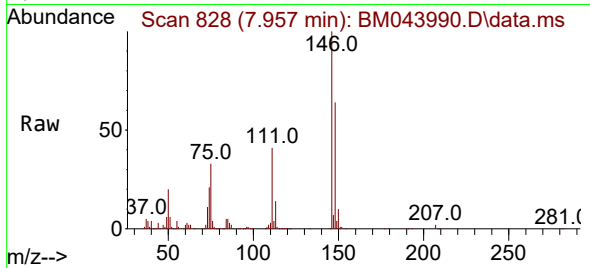




#13  
1,4-Dichlorobenzene  
Concen: 10.494 ng  
RT: 7.957 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

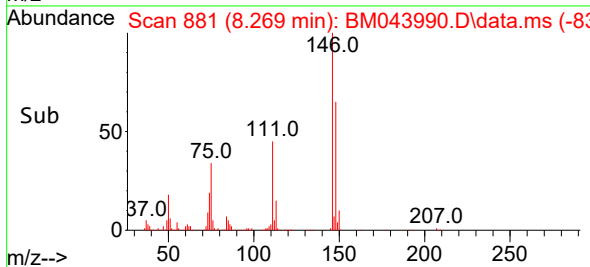
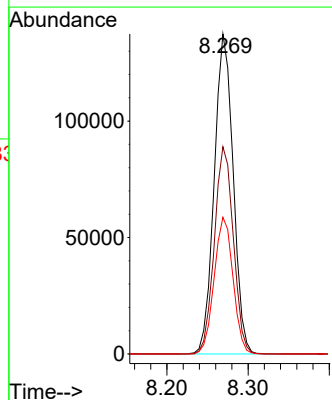
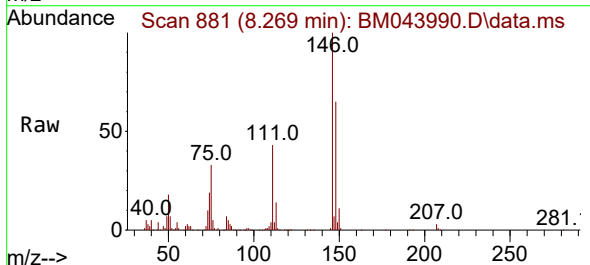
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

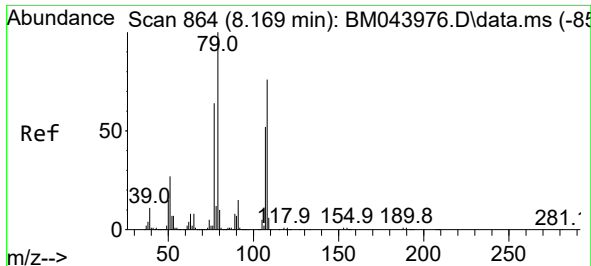
Tgt Ion:146 Resp: 235128  
Ion Ratio Lower Upper  
146 100  
148 64.1 50.7 76.1  
111 41.0 32.6 49.0



#14  
1,2-Dichlorobenzene  
Concen: 10.088 ng  
RT: 8.269 min Scan# 881  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:146 Resp: 222909  
Ion Ratio Lower Upper  
146 100  
148 64.8 50.3 75.5  
111 42.7 34.3 51.5

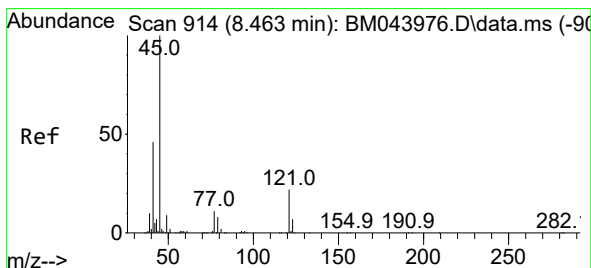
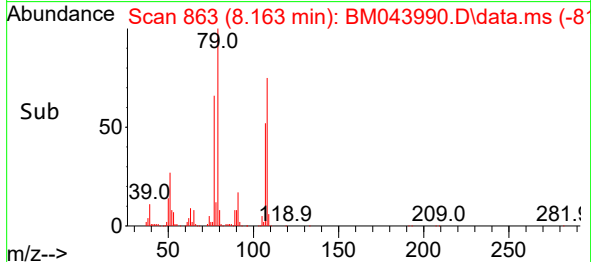
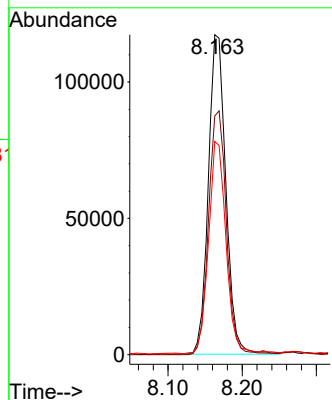
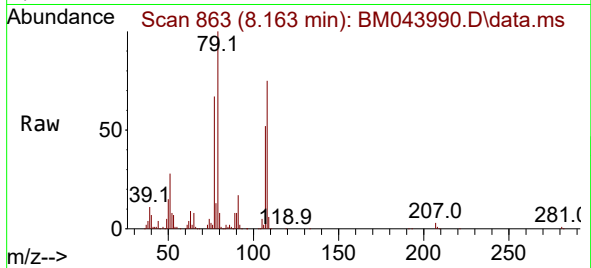




#15  
Benzyl Alcohol  
Concen: 10.306 ng  
RT: 8.163 min Scan# 864  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

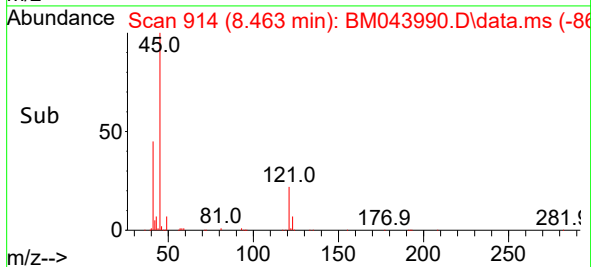
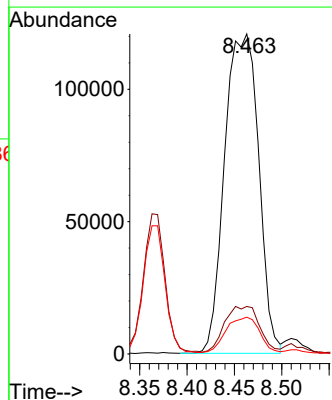
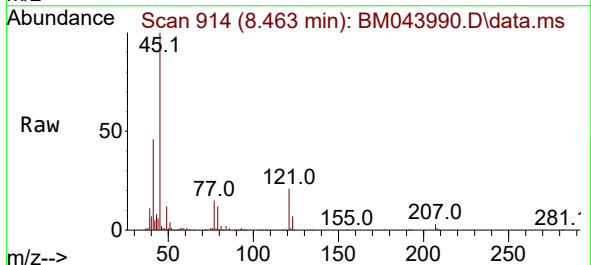
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

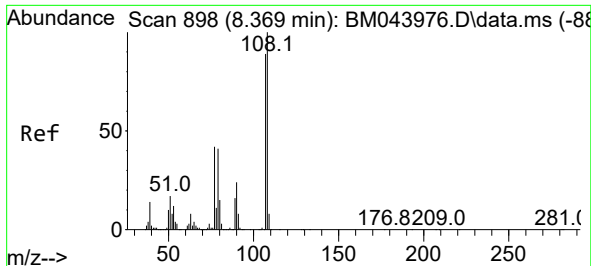
Tgt Ion: 79 Resp: 192912  
Ion Ratio Lower Upper  
79 100  
108 74.6 60.7 91.1  
77 66.7 50.9 76.3



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 10.567 ng  
RT: 8.463 min Scan# 914  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion: 45 Resp: 301575  
Ion Ratio Lower Upper  
45 100  
77 14.8 0.0 34.4  
79 11.5 0.0 31.2

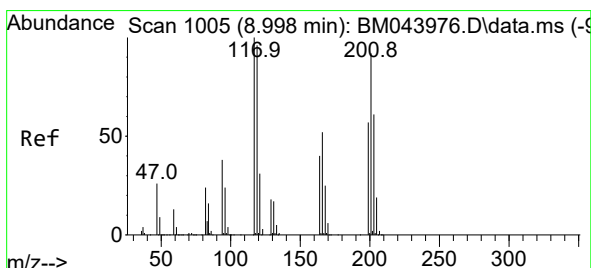
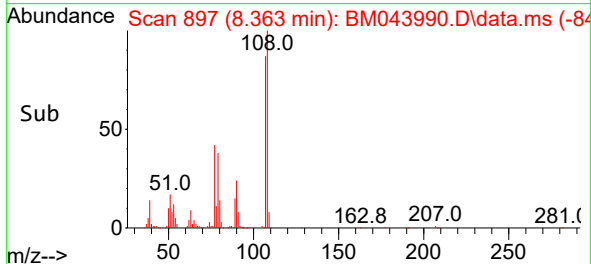
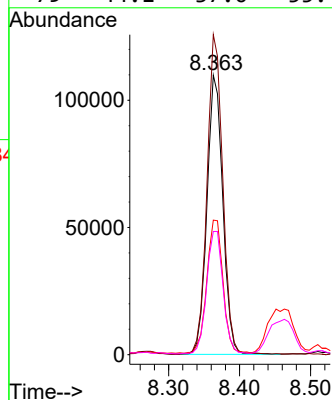
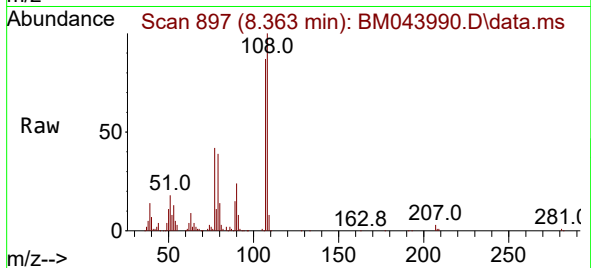




#17  
2-Methylphenol  
Concen: 9.804 ng  
RT: 8.363 min Scan# 898  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

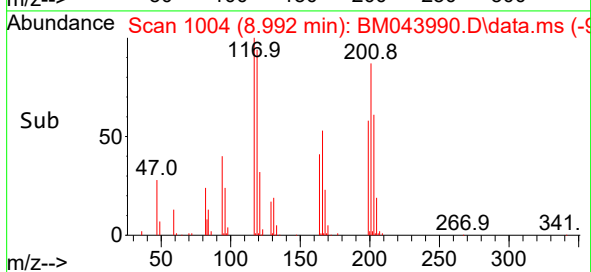
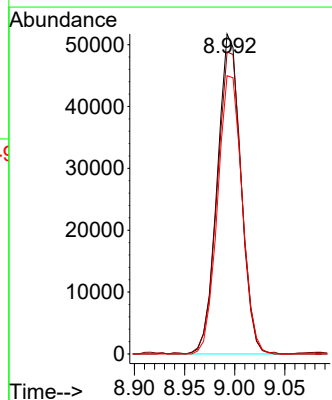
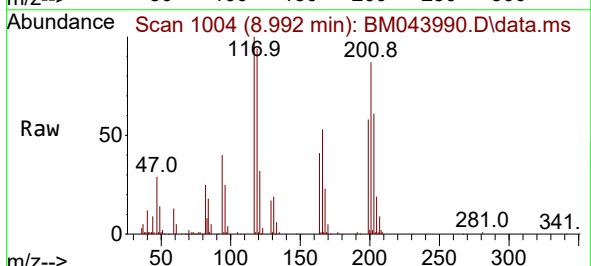
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

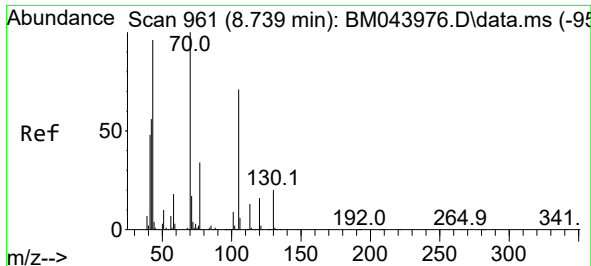
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 170157 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 114.5 | 90.4  | 135.6  |
| 77       | 48.2  | 38.0  | 57.0   |
| 79       | 44.1  | 37.0  | 55.4   |



#18  
Hexachloroethane  
Concen: 10.071 ng  
RT: 8.992 min Scan# 1004  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 84679 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 94.4  | 76.7  | 115.1 |
| 201      | 87.0  | 73.4  | 110.2 |

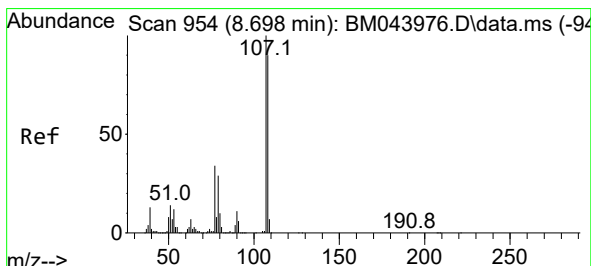
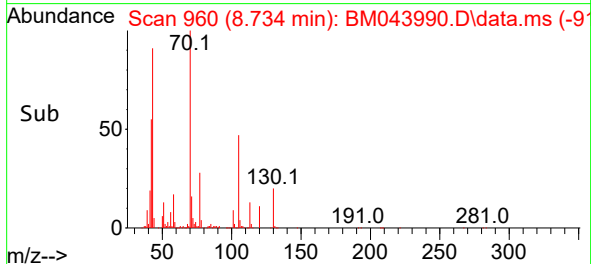
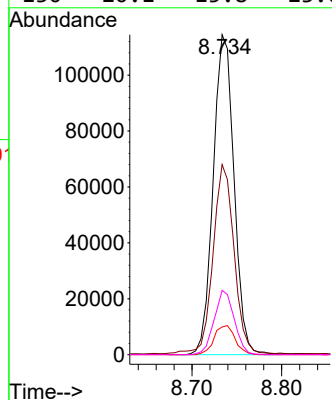
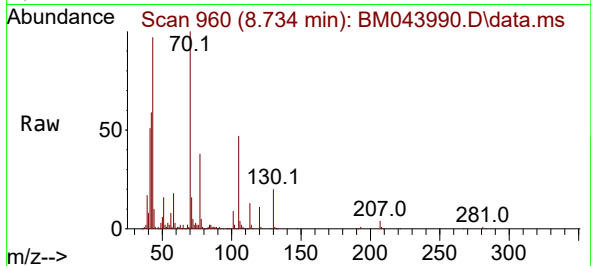




#19  
n-Nitroso-di-n-propylamine  
Concen: 10.263 ng  
RT: 8.734 min Scan# 90  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

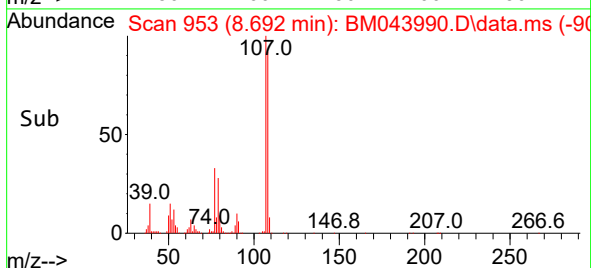
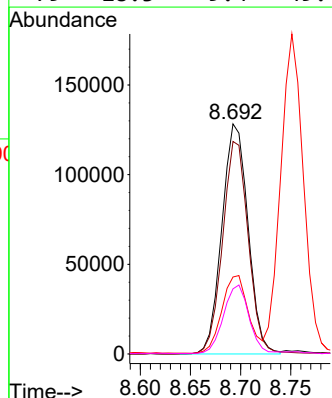
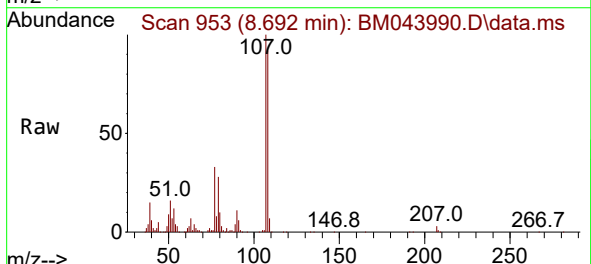
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

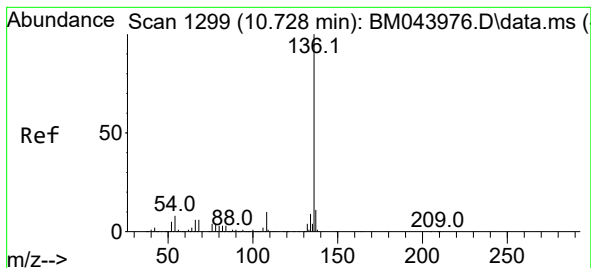
Tgt Ion: 70 Resp: 184417  
Ion Ratio Lower Upper  
70 100  
42 59.4 45.6 68.4  
101 8.7 7.5 11.3  
130 20.1 15.8 23.6



#20  
3+4-Methylphenols  
Concen: 9.492 ng  
RT: 8.692 min Scan# 953  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion: 107 Resp: 232542  
Ion Ratio Lower Upper  
107 100  
108 92.3 70.3 110.3  
77 33.4 14.0 54.0  
79 28.3 9.4 49.4

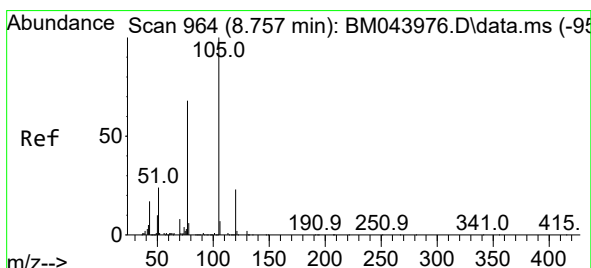
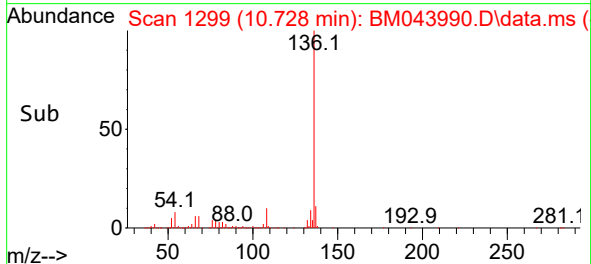
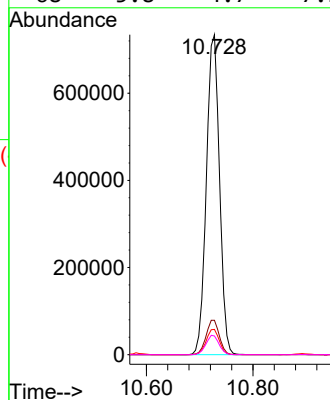
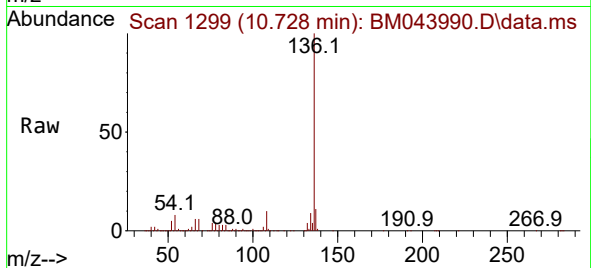




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.728 min Scan# 1299  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

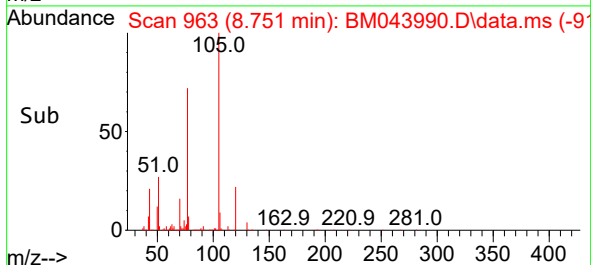
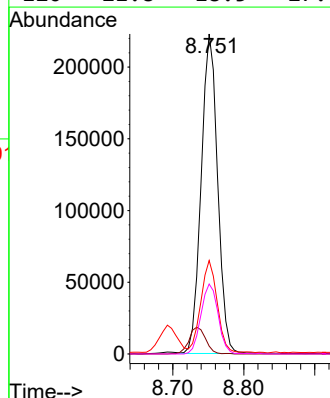
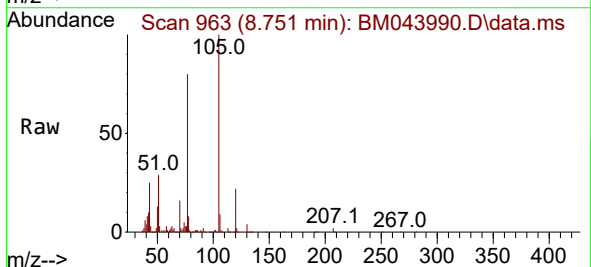
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

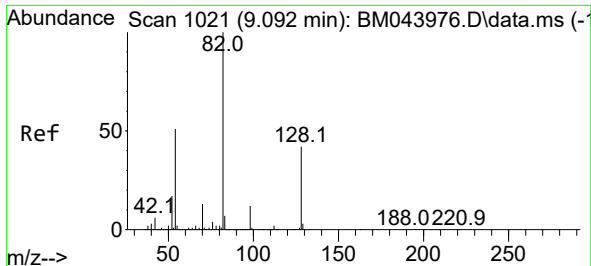
Tgt Ion:136 Resp: 1252635  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.8 13.2  
54 7.9 6.5 9.7  
68 5.8 4.7 7.1



#22  
Acetophenone  
Concen: 10.588 ng  
RT: 8.751 min Scan# 963  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:105 Resp: 359366  
Ion Ratio Lower Upper  
105 100  
71 2.5 1.6 2.4#  
51 29.2 21.8 32.6  
120 21.8 18.5 27.7

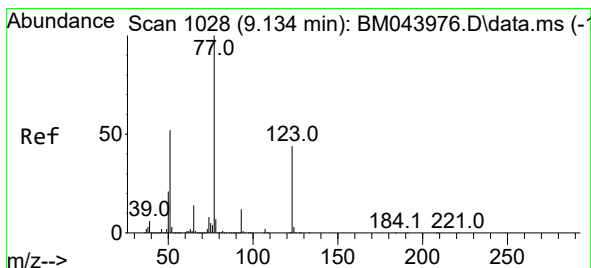
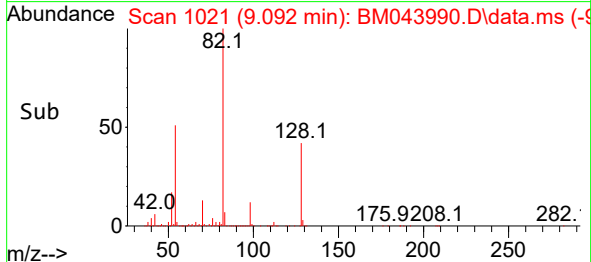
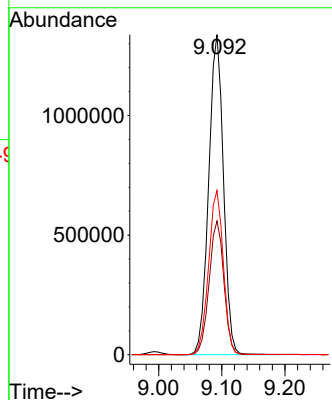
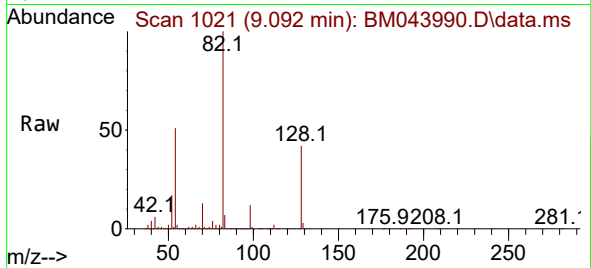




#23  
Nitrobenzene-d5  
Concen: 83.348 ng  
RT: 9.092 min Scan# 1021  
Delta R.T. 0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

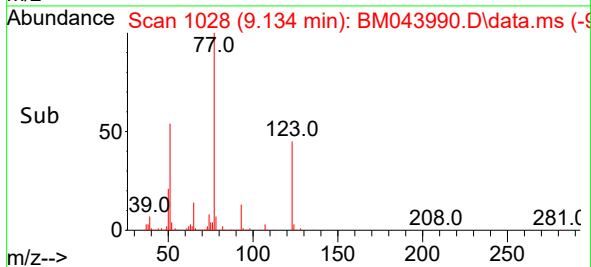
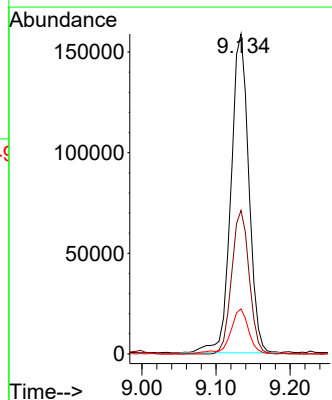
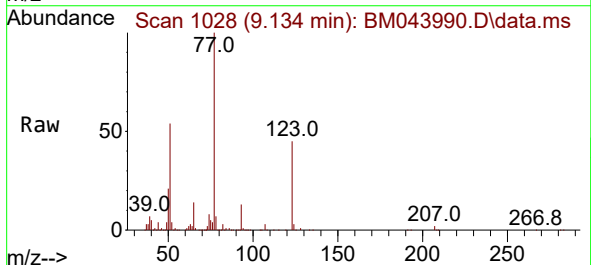
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

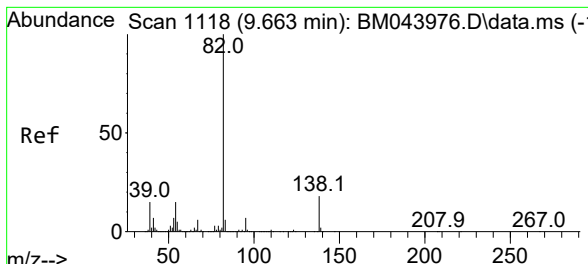
Tgt Ion: 82 Resp: 2165828  
Ion Ratio Lower Upper  
82 100  
128 41.8 33.9 50.9  
54 51.3 41.1 61.7



#24  
Nitrobenzene  
Concen: 10.151 ng  
RT: 9.134 min Scan# 1028  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

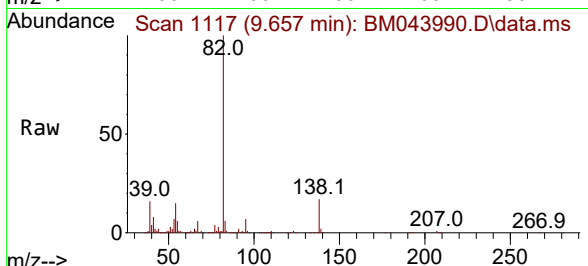
Tgt Ion: 77 Resp: 264648  
Ion Ratio Lower Upper  
77 100  
123 44.8 35.3 52.9  
65 14.1 10.9 16.3



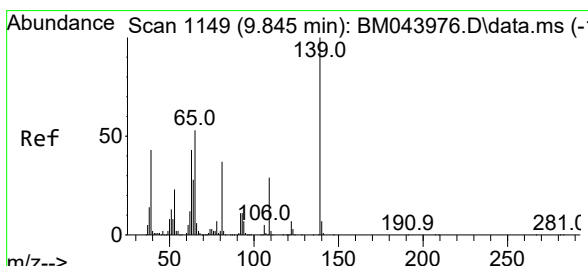
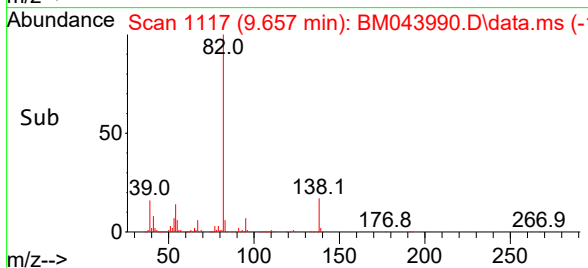
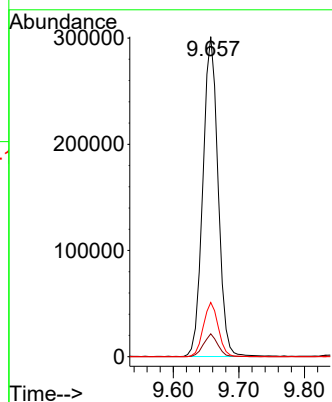


#25  
Isophorone  
Concen: 10.040 ng  
RT: 9.657 min Scan# 1117  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

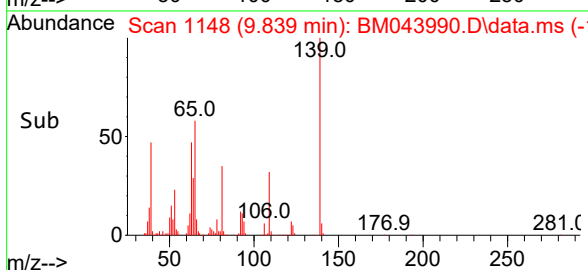
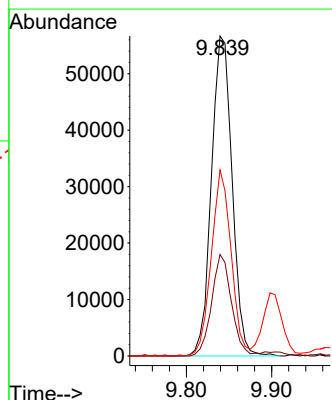
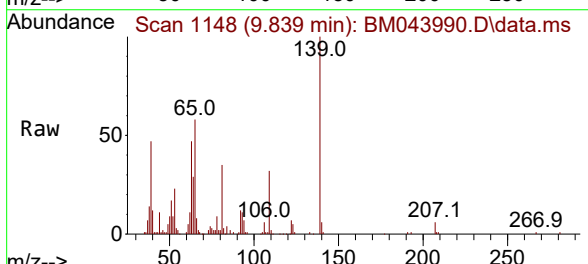


Tgt Ion: 82 Resp: 485645  
Ion Ratio Lower Upper  
82 100  
95 7.2 5.6 8.4  
138 17.0 14.2 21.2

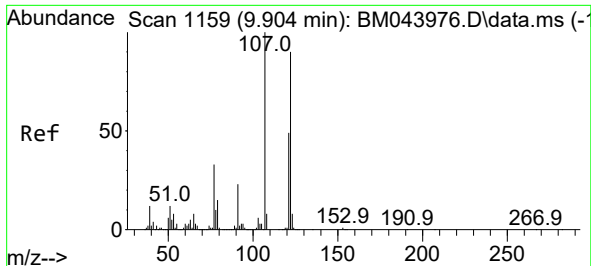


#26  
2-Nitrophenol  
Concen: 9.083 ng  
RT: 9.839 min Scan# 1148  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion: 139 Resp: 95708  
Ion Ratio Lower Upper  
139 100  
109 31.7 23.3 34.9  
65 58.1 42.5 63.7







#27

2,4-Dimethylphenol

Concen: 10.892 ng

RT: 9.898 min Scan# 1158

Delta R.T. -0.006 min

Lab File: BM043990.D

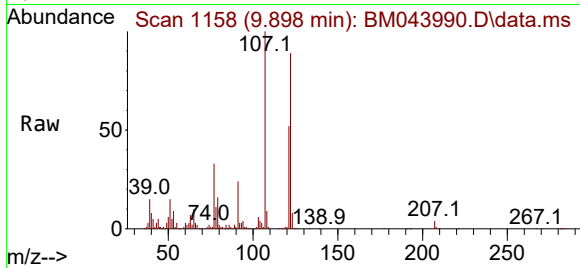
Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023



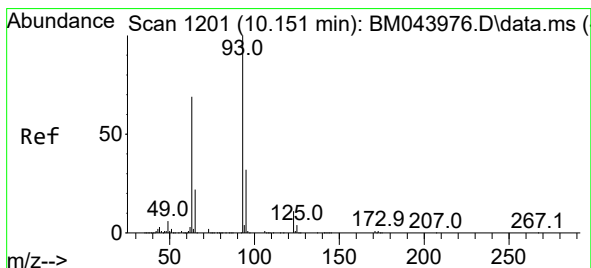
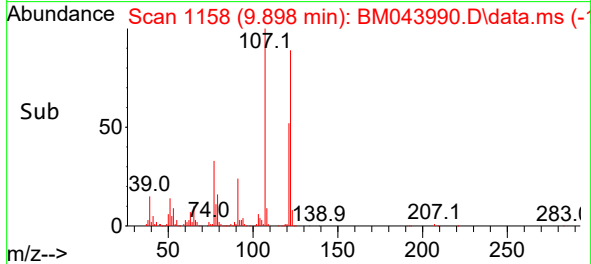
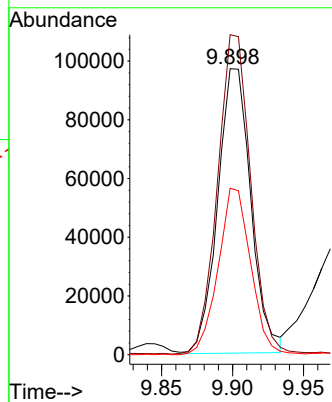
Tgt Ion:122 Resp: 157587

Ion Ratio Lower Upper

122 100

107 111.9 89.0 133.4

121 58.2 43.4 65.0



#28

bis(2-Chloroethoxy)methane

Concen: 10.367 ng

RT: 10.151 min Scan# 1201

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

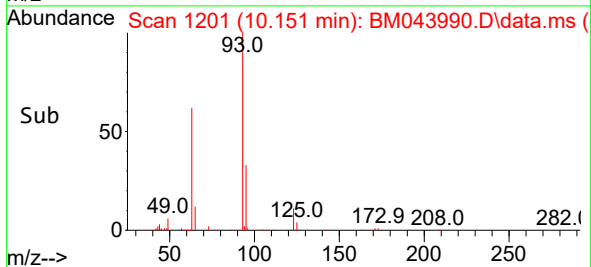
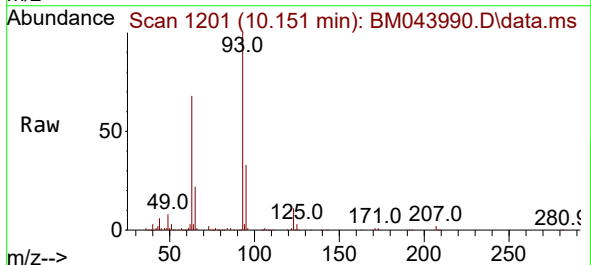
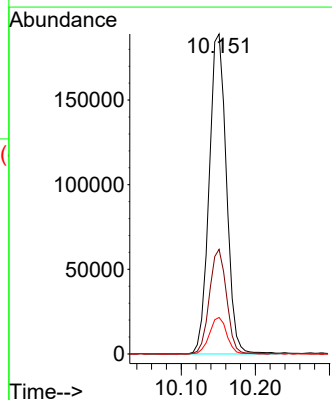
Tgt Ion: 93 Resp: 306241

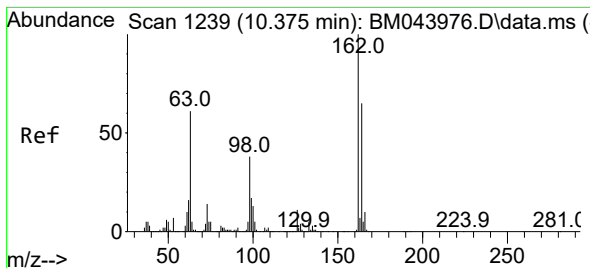
Ion Ratio Lower Upper

93 100

95 32.7 25.9 38.9

123 11.4 9.1 13.7





#29

2,4-Dichlorophenol

Concen: 9.647 ng

RT: 10.369 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BM043990.D

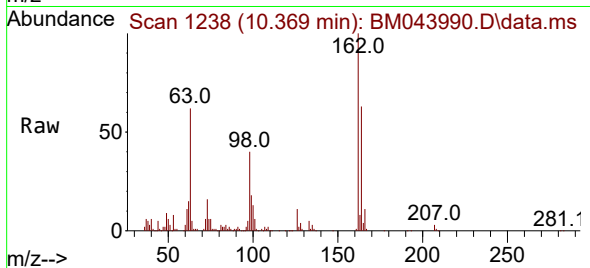
Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023



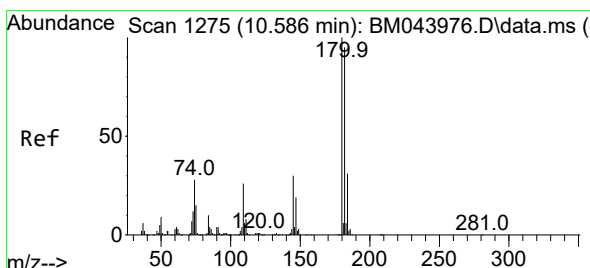
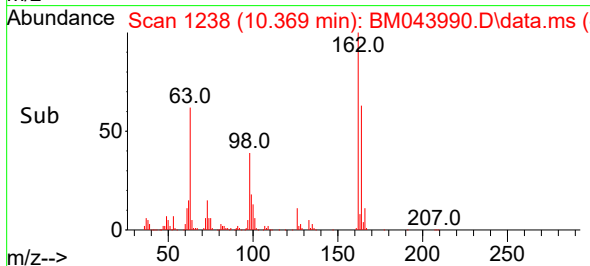
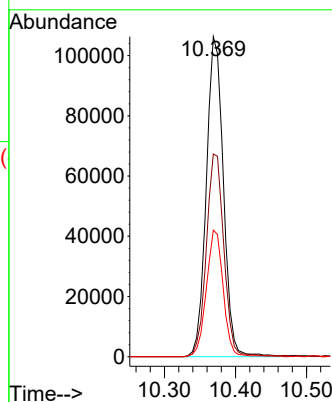
Tgt Ion:162 Resp: 178036

Ion Ratio Lower Upper

162 100

164 63.4 45.1 85.1

98 39.5 17.8 57.8



#30

1,2,4-Trichlorobenzene

Concen: 10.034 ng

RT: 10.586 min Scan# 1275

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

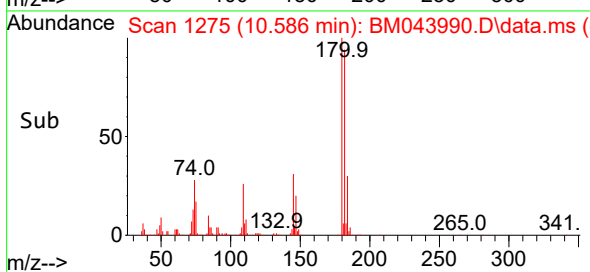
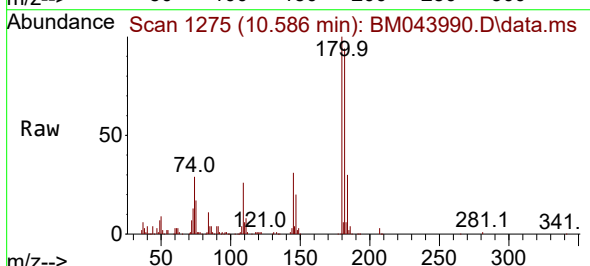
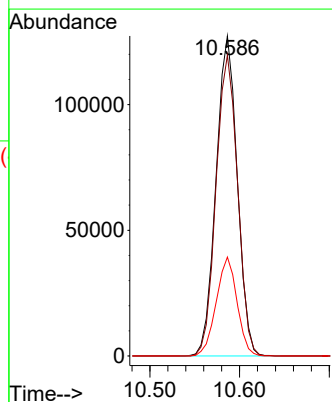
Tgt Ion:180 Resp: 209142

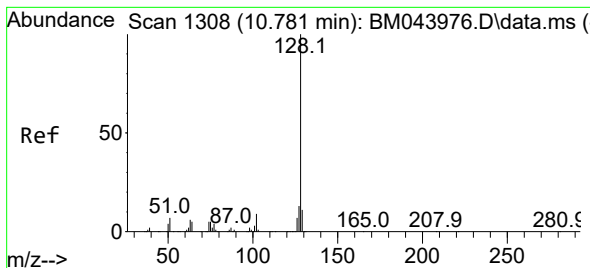
Ion Ratio Lower Upper

180 100

182 94.0 76.0 114.0

145 30.9 24.2 36.2





#31

Naphthalene

Concen: 10.148 ng

RT: 10.775 min Scan# 1171

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

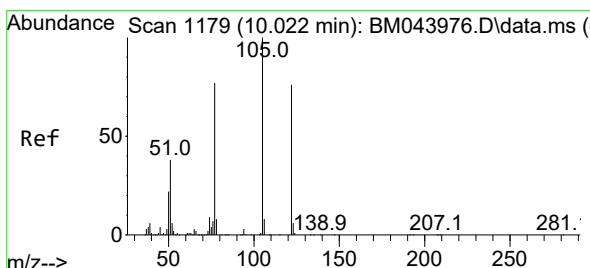
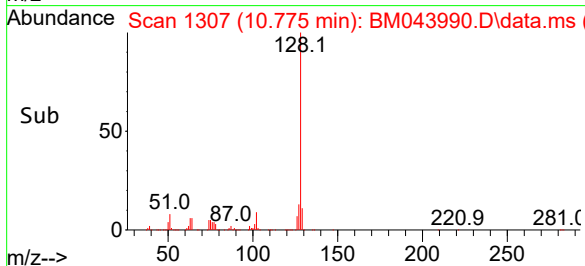
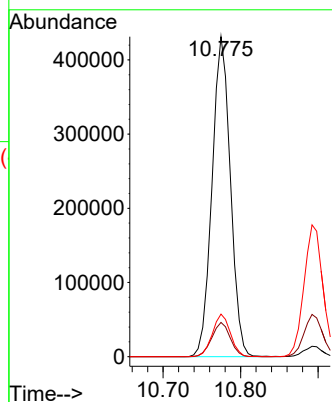
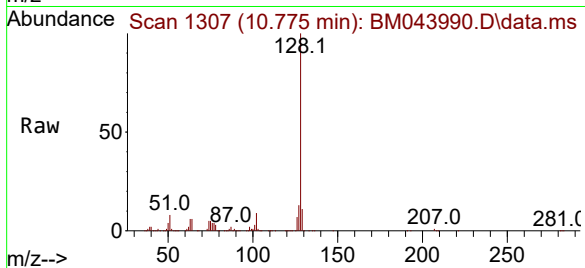
Tgt Ion:128 Resp: 708519

Ion Ratio Lower Upper

128 100

129 10.7 8.4 12.6

127 13.3 10.1 15.1



#32

Benzoic acid

Concen: 11.471 ng

RT: 9.975 min Scan# 1171

Delta R.T. -0.047 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

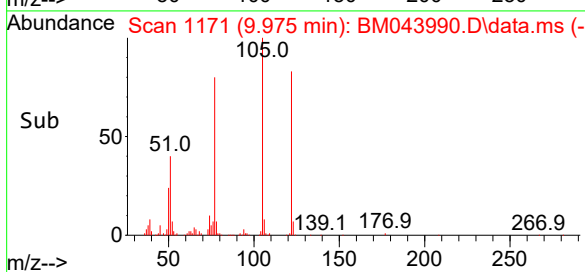
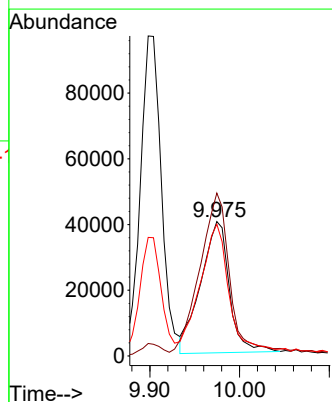
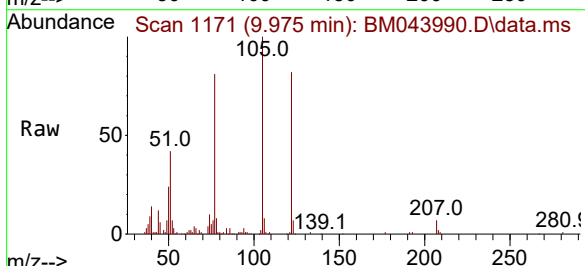
Tgt Ion:122 Resp: 88616

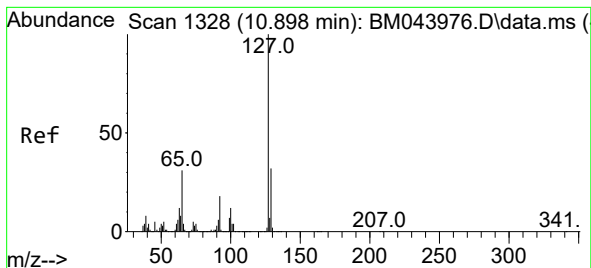
Ion Ratio Lower Upper

122 100

105 121.2 109.4 149.4

77 98.0 80.5 120.5





#33

4-Chloroaniline

Concen: 10.590 ng

RT: 10.892 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

Tgt Ion:127 Resp: 303907

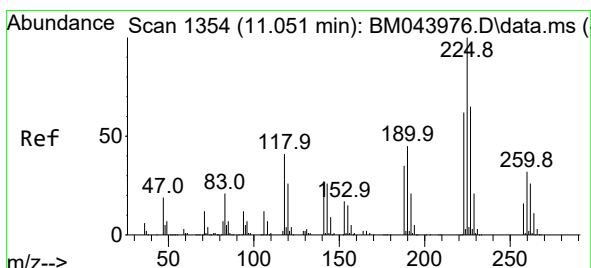
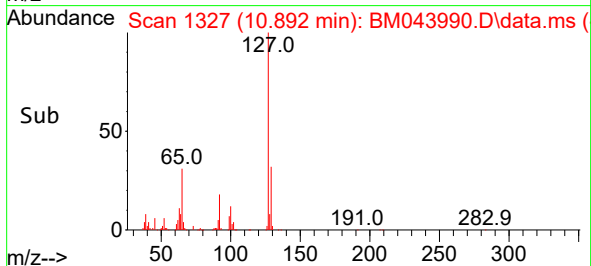
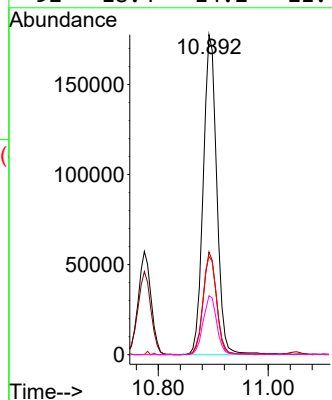
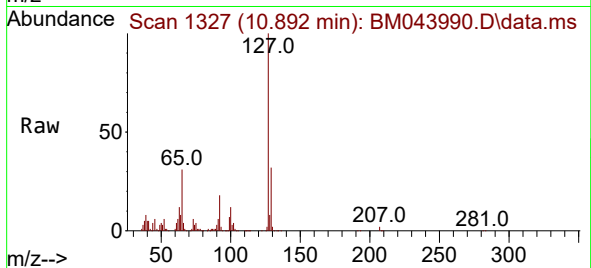
Ion Ratio Lower Upper

127 100

129 32.1 25.6 38.4

65 30.7 24.5 36.7

92 18.4 14.2 21.4



#34

Hexachlorobutadiene

Concen: 9.811 ng

RT: 11.051 min Scan# 1354

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

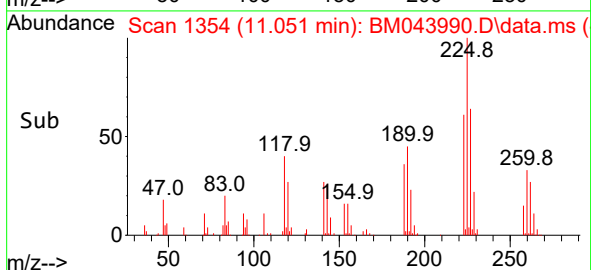
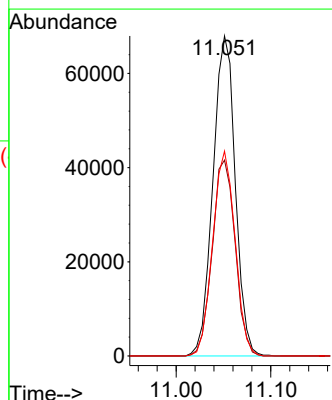
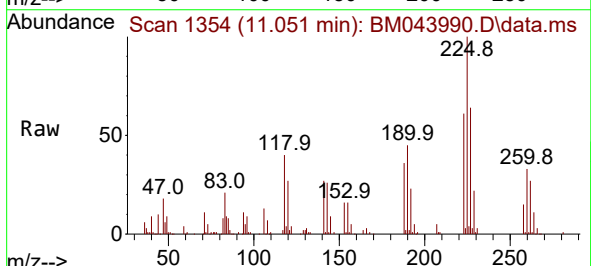
Tgt Ion:225 Resp: 111533

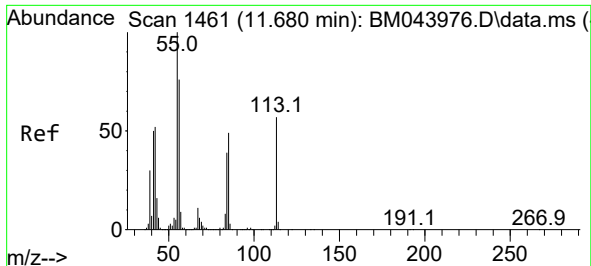
Ion Ratio Lower Upper

225 100

223 61.2 49.8 74.8

227 64.0 51.7 77.5

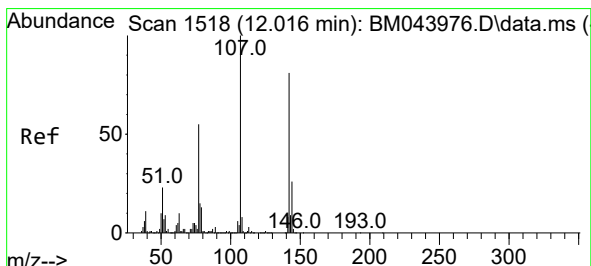
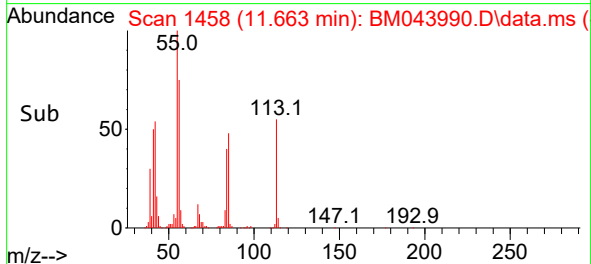
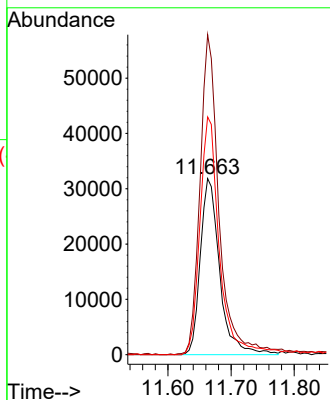
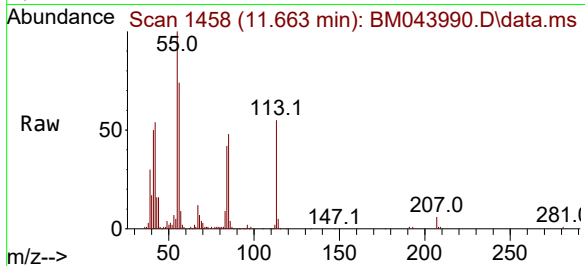




#35  
Caprolactam  
Concen: 8.975 ng  
RT: 11.663 min Scan# 14  
Delta R.T. -0.018 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

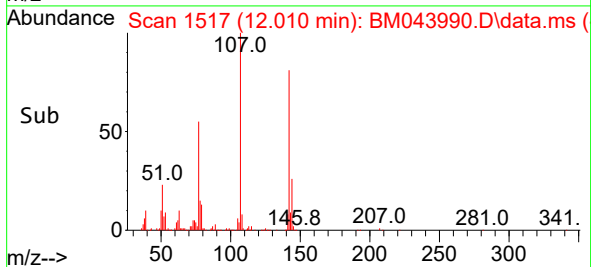
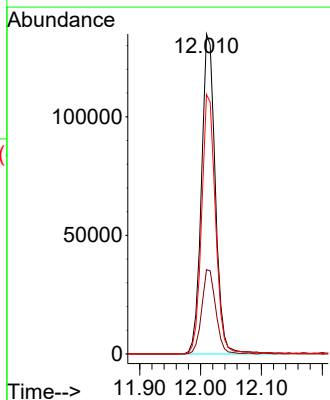
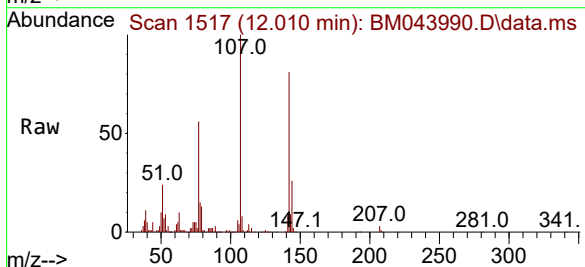
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

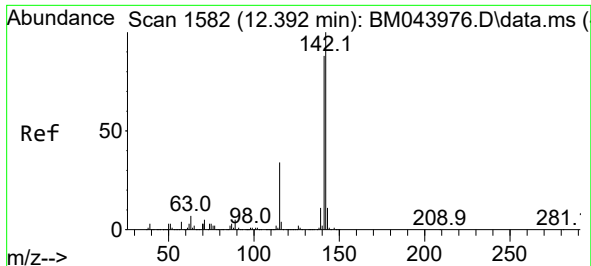
Tgt Ion:113 Resp: 67923  
Ion Ratio Lower Upper  
113 100  
55 181.6 154.3 194.3  
56 134.9 112.2 152.2



#36  
4-Chloro-3-methylphenol  
Concen: 9.463 ng  
RT: 12.010 min Scan# 1517  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:107 Resp: 213862  
Ion Ratio Lower Upper  
107 100  
144 26.3 21.1 31.7  
142 81.1 65.0 97.4

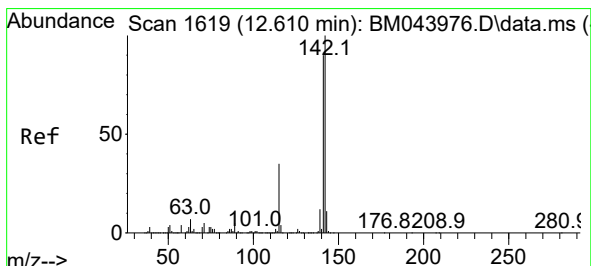
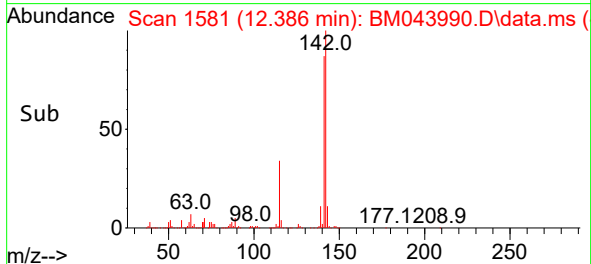
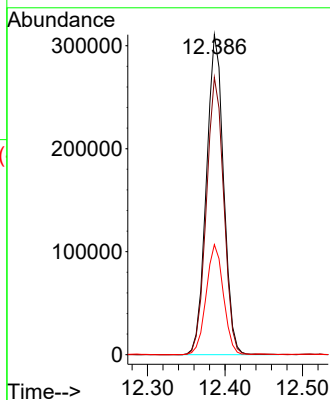
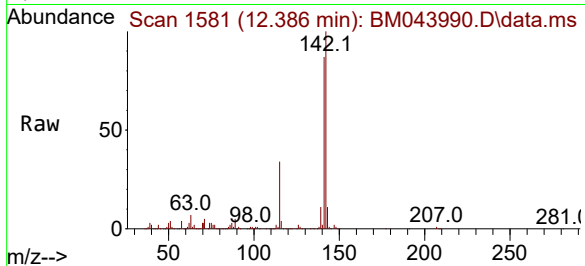




#37  
2-Methylnaphthalene  
Concen: 9.846 ng  
RT: 12.386 min Scan# 1581  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

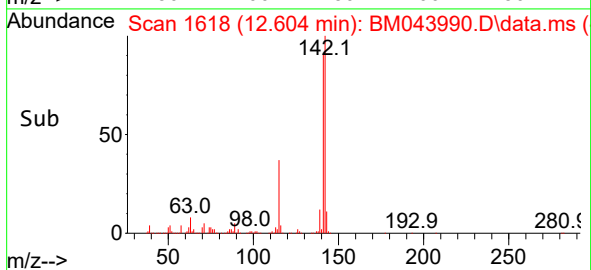
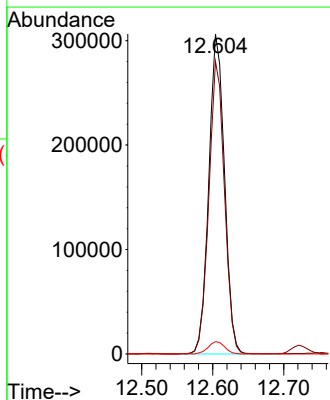
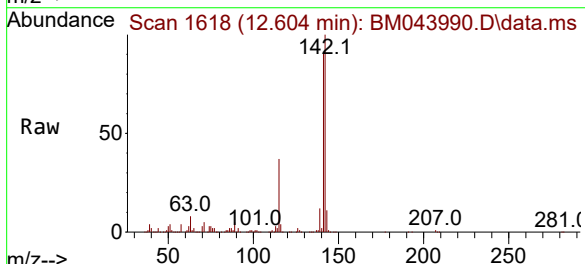
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

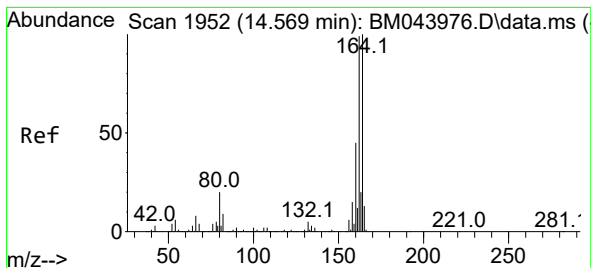
Tgt Ion:142 Resp: 479377  
Ion Ratio Lower Upper  
142 100  
141 86.7 70.2 105.2  
115 34.4 27.2 40.8



#38  
1-Methylnaphthalene  
Concen: 9.685 ng  
RT: 12.604 min Scan# 1618  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:142 Resp: 470726  
Ion Ratio Lower Upper  
142 100  
141 91.4 72.1 108.1  
116 3.9 2.9 4.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.563 min Scan# 1952

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

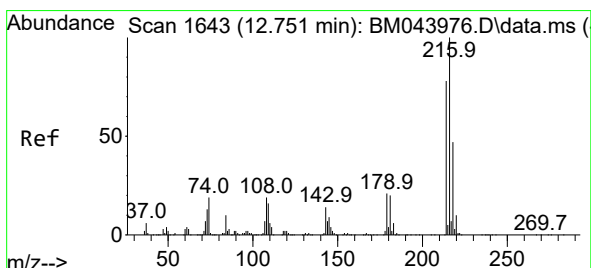
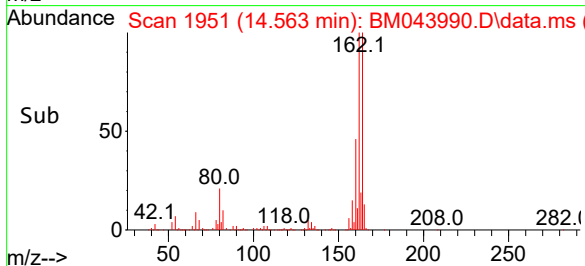
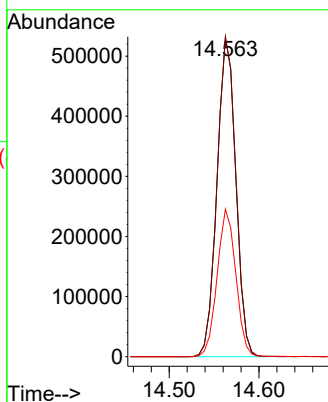
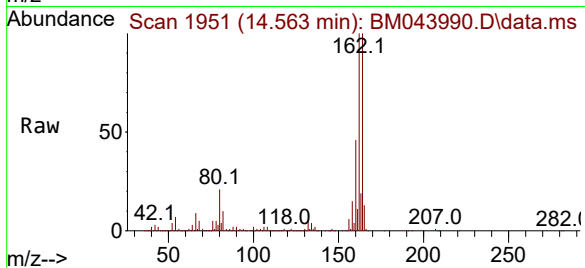
Tgt Ion:164 Resp: 772025

Ion Ratio Lower Upper

164 100

162 100.3 79.0 118.4

160 46.2 35.8 53.8



#40

1,2,4,5-Tetrachlorobenzene

Concen: 10.760 ng

RT: 12.751 min Scan# 1643

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Tgt Ion:216 Resp: 235598

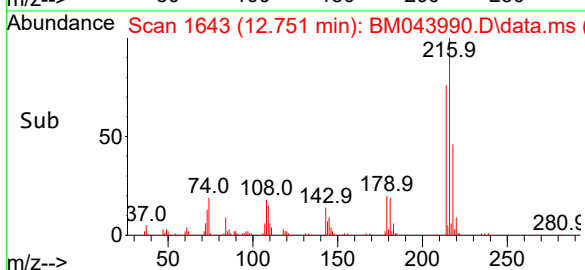
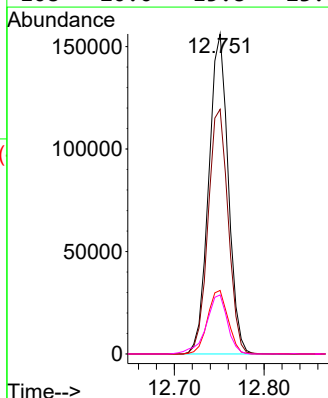
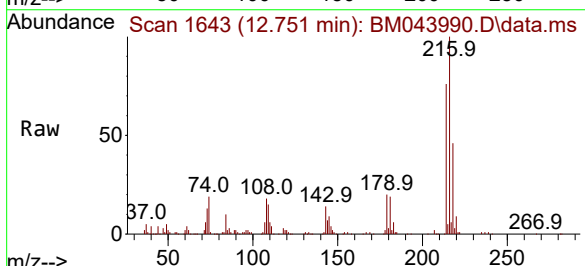
Ion Ratio Lower Upper

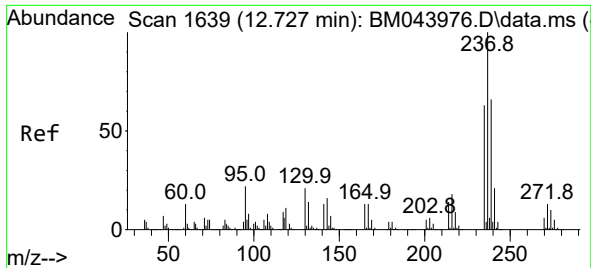
216 100

214 78.6 62.6 94.0

179 20.7 16.7 25.1

108 20.0 15.8 23.8

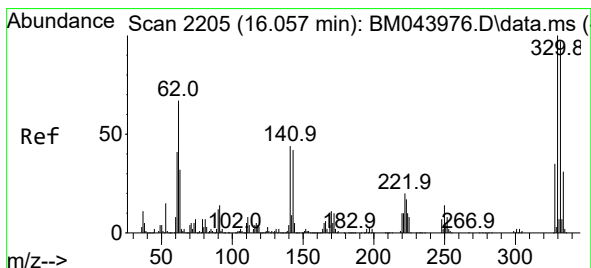
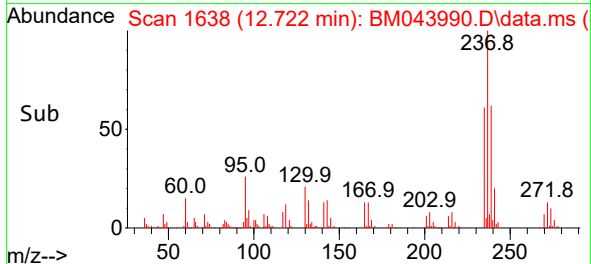
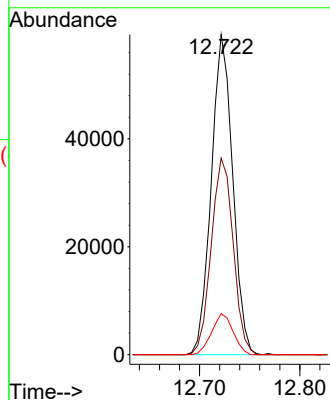
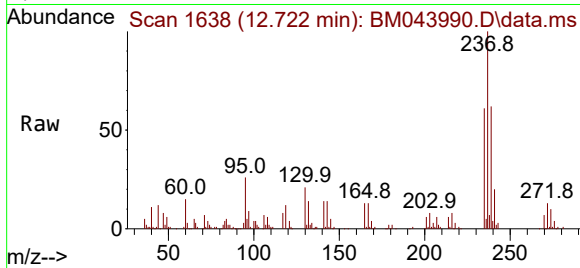




#41  
Hexachlorocyclopentadiene  
Concen: 12.229 ng  
RT: 12.722 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

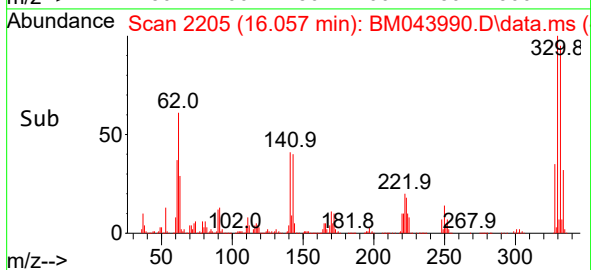
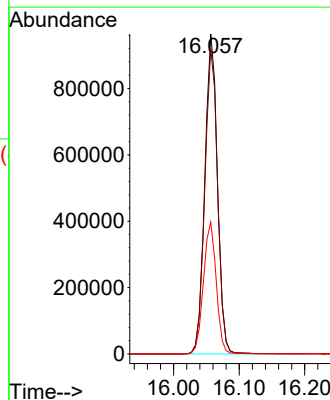
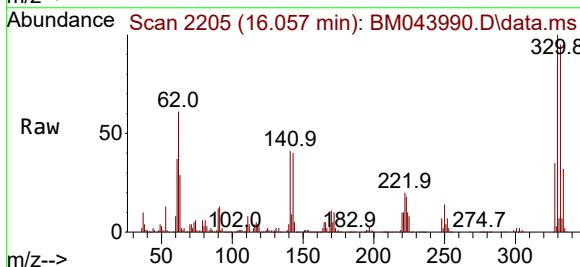
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

Tgt Ion:237 Resp: 88065  
Ion Ratio Lower Upper  
237 100  
235 61.5 43.5 83.5  
272 12.8 0.0 33.2

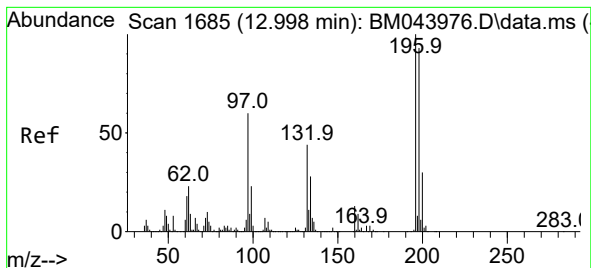


#42  
2,4,6-Tribromophenol  
Concen: 137.759 ng  
RT: 16.057 min Scan# 2205  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:330 Resp: 1296432  
Ion Ratio Lower Upper  
330 100  
332 96.2 77.6 116.4  
141 41.6 33.5 50.3







#43

2,4,6-Trichlorophenol

Concen: 9.499 ng

RT: 12.998 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM043990.D

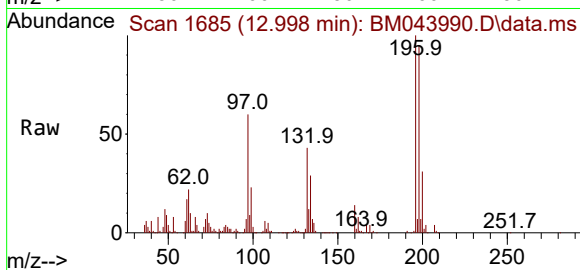
Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023



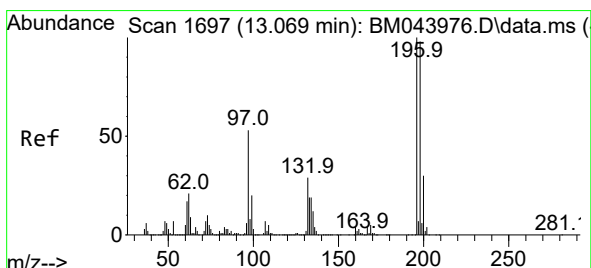
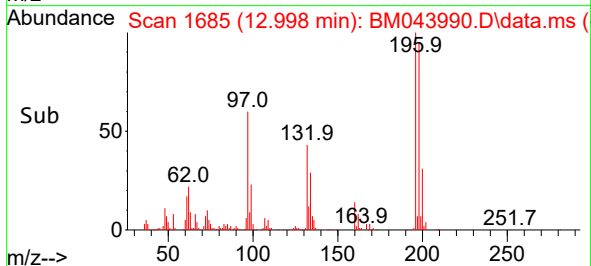
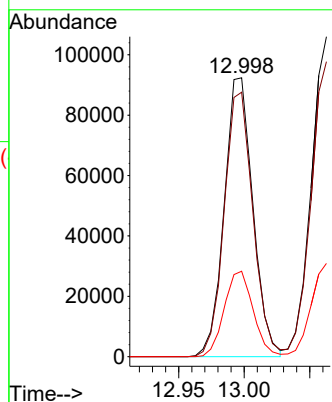
Tgt Ion:196 Resp: 140561

Ion Ratio Lower Upper

196 100

198 94.8 74.2 111.2

200 30.7 23.8 35.8



#44

2,4,5-Trichlorophenol

Concen: 9.482 ng

RT: 13.063 min Scan# 1696

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Tgt Ion:196 Resp: 160078

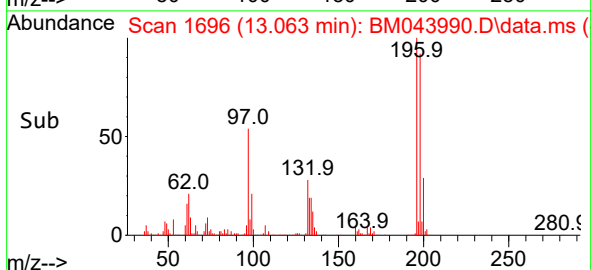
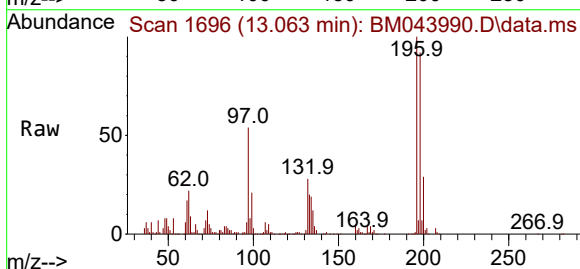
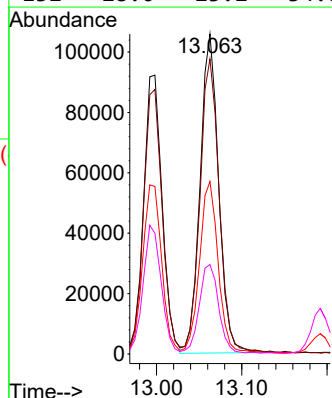
Ion Ratio Lower Upper

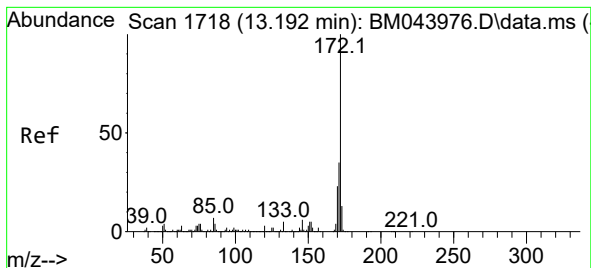
196 100

198 92.2 78.1 117.1

97 53.9 42.2 63.2

132 28.0 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 86.309 ng

RT: 13.192 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

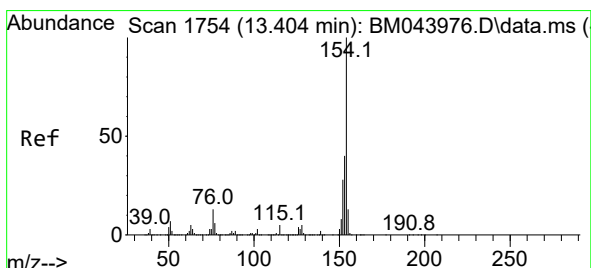
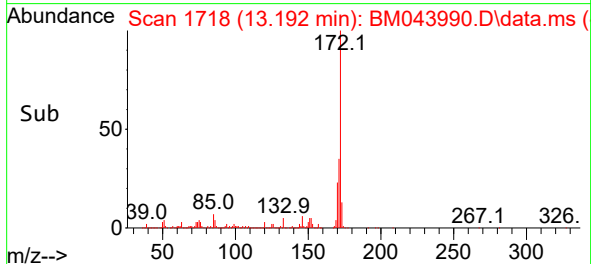
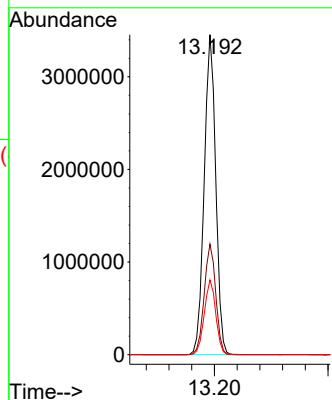
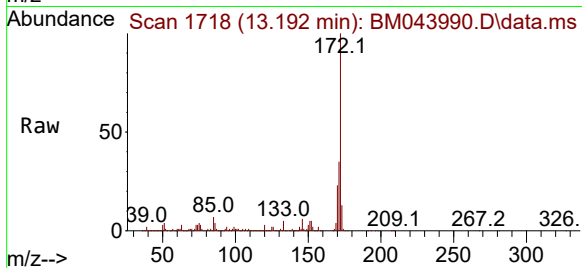
Tgt Ion:172 Resp: 4849316

Ion Ratio Lower Upper

172 100

171 34.5 27.9 41.9

170 23.3 18.6 28.0



#46

1,1'-Biphenyl

Concen: 10.587 ng

RT: 13.404 min Scan# 1754

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

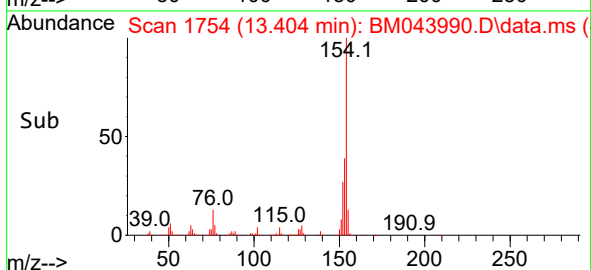
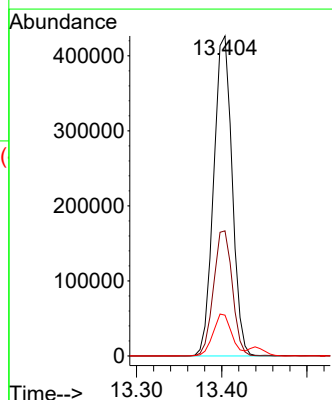
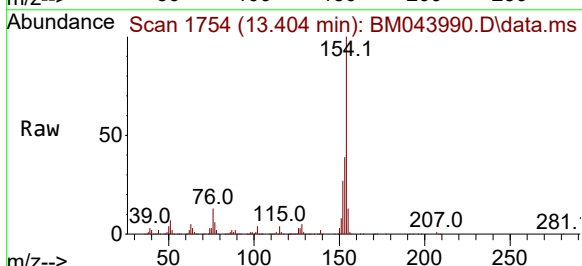
Tgt Ion:154 Resp: 642751

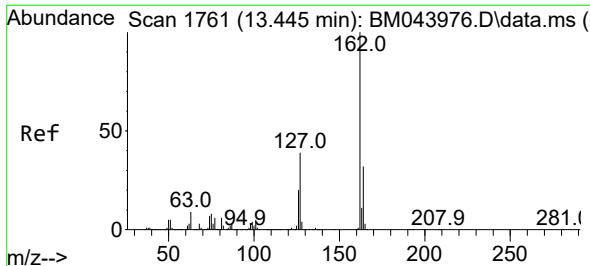
Ion Ratio Lower Upper

154 100

153 39.1 19.8 59.8

76 12.8 0.0 33.0

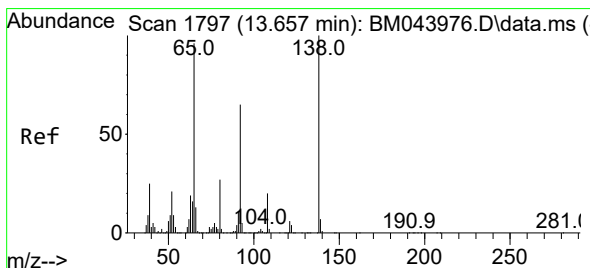
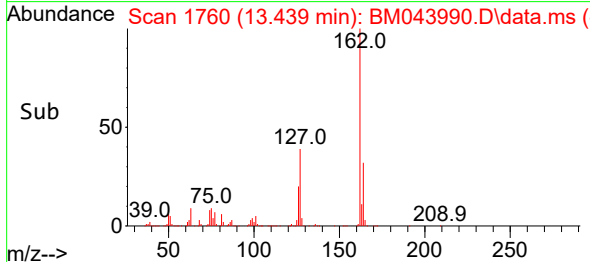
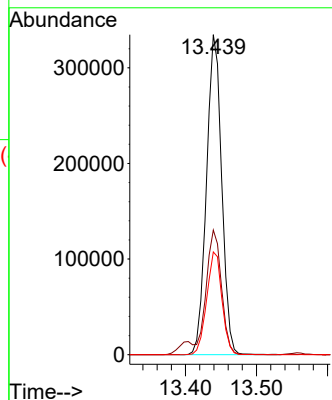
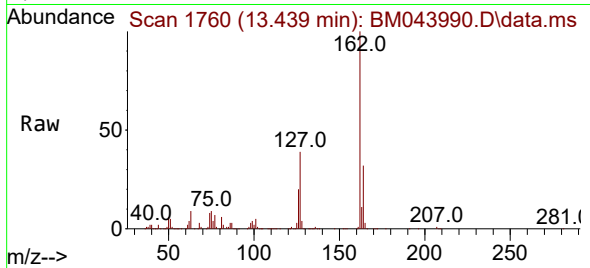




#47  
2-Chloronaphthalene  
Concen: 10.280 ng  
RT: 13.439 min Scan# 1760  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

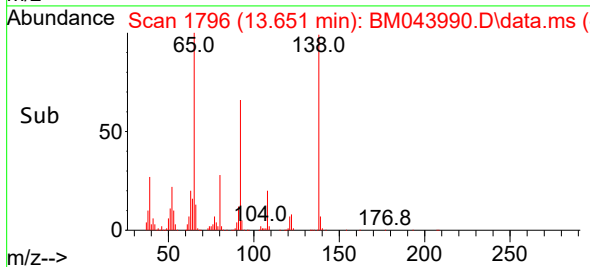
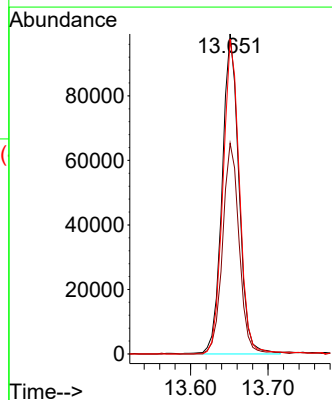
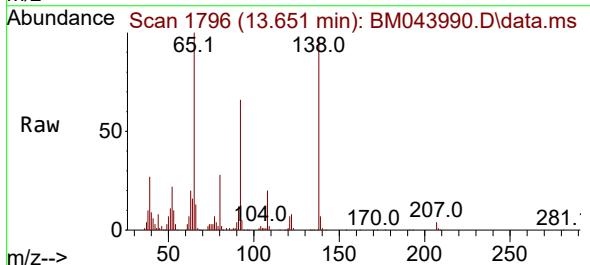
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

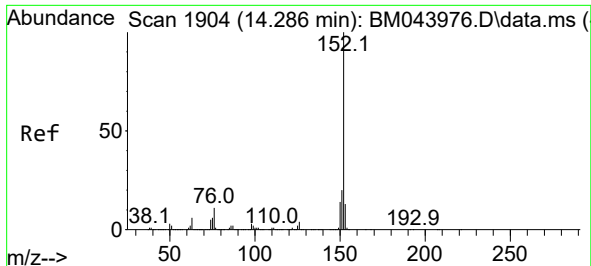
Tgt Ion:162 Resp: 497708  
Ion Ratio Lower Upper  
162 100  
127 39.0 31.0 46.6  
164 32.1 25.8 38.6



#48  
2-Nitroaniline  
Concen: 9.486 ng  
RT: 13.651 min Scan# 1796  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion: 65 Resp: 149379  
Ion Ratio Lower Upper  
65 100  
92 65.8 53.6 80.4  
138 98.4 83.0 124.6

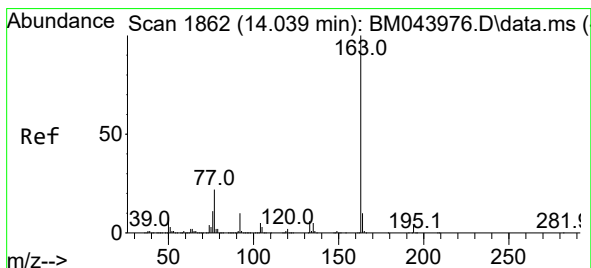
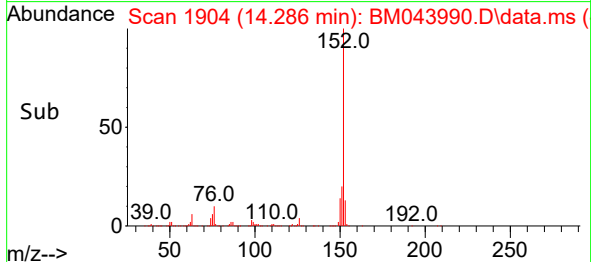
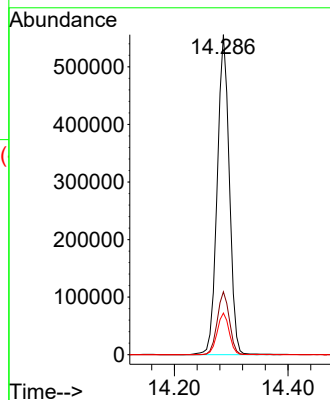
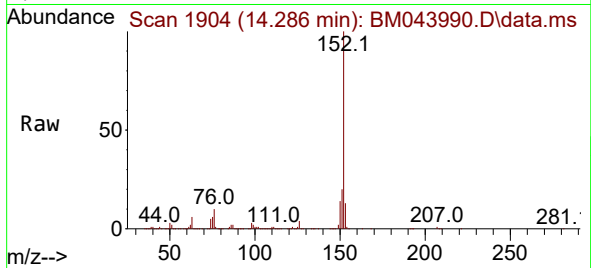




#49  
Acenaphthylene  
Concen: 11.062 ng  
RT: 14.286 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

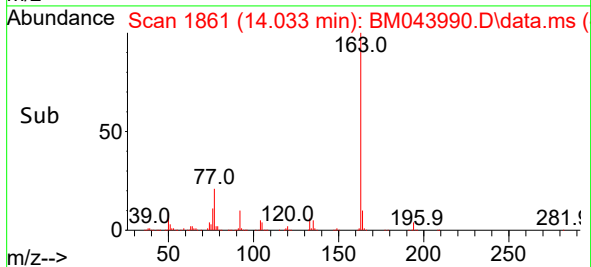
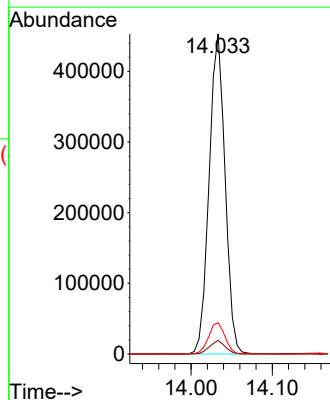
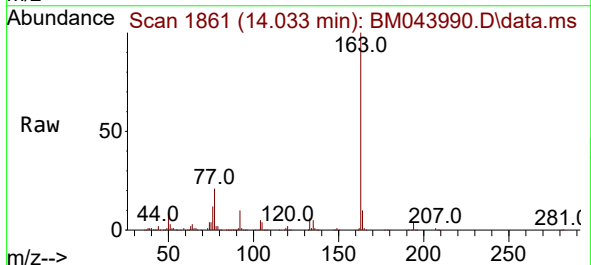
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

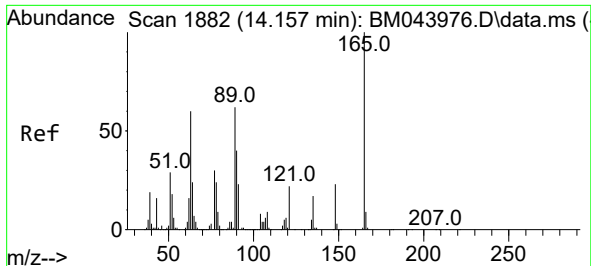
Tgt Ion:152 Resp: 818726  
Ion Ratio Lower Upper  
152 100  
151 19.7 15.9 23.9  
153 13.0 10.4 15.6



#50  
Dimethylphthalate  
Concen: 10.292 ng  
RT: 14.033 min Scan# 1861  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:163 Resp: 617211  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.1 4.7  
164 9.7 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 9.428 ng

RT: 14.151 min Scan# 1882

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

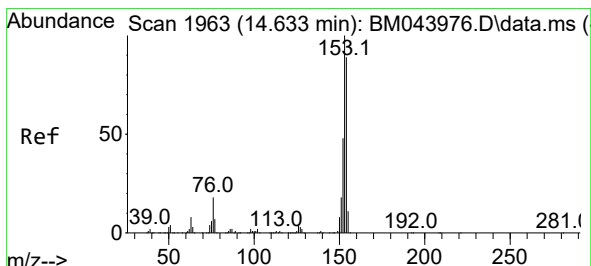
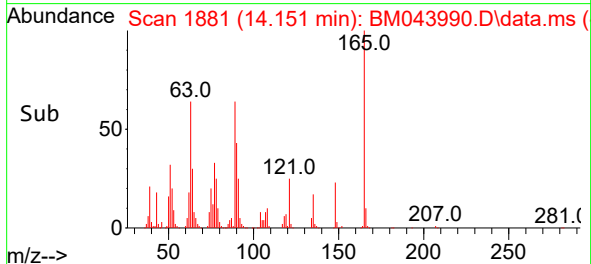
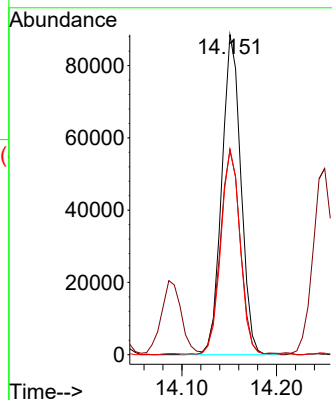
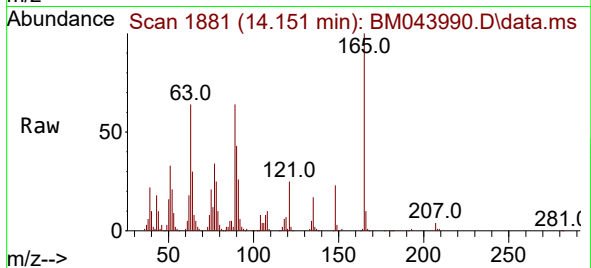
Tgt Ion:165 Resp: 124274

Ion Ratio Lower Upper

165 100

63 63.9 51.1 76.7

89 64.3 49.5 74.3



#52

Acenaphthene

Concen: 10.145 ng

RT: 14.627 min Scan# 1962

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

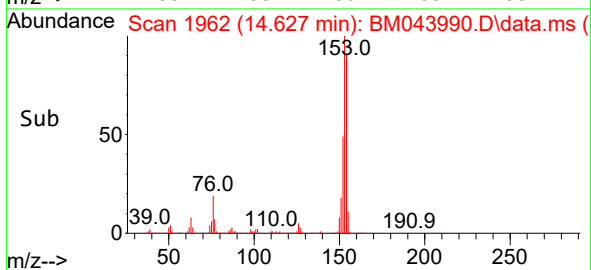
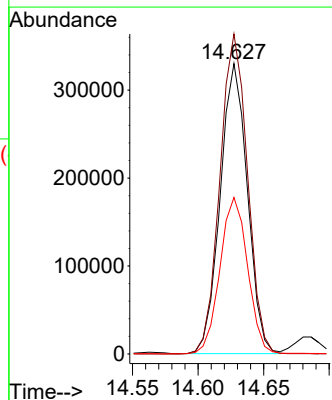
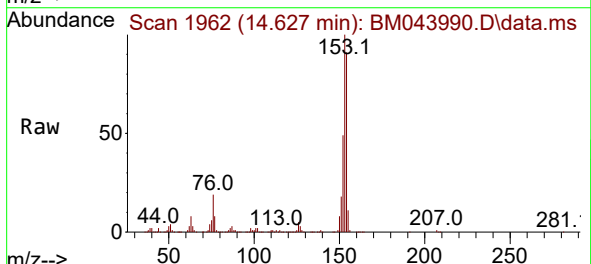
Tgt Ion:154 Resp: 475965

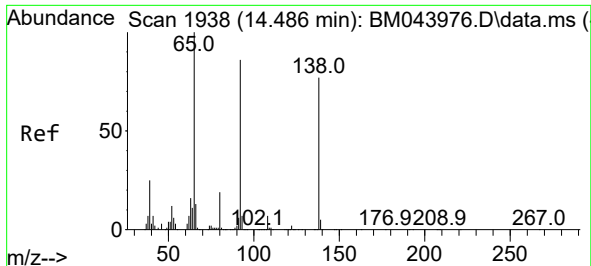
Ion Ratio Lower Upper

154 100

153 110.2 90.1 135.1

152 53.9 43.6 65.4

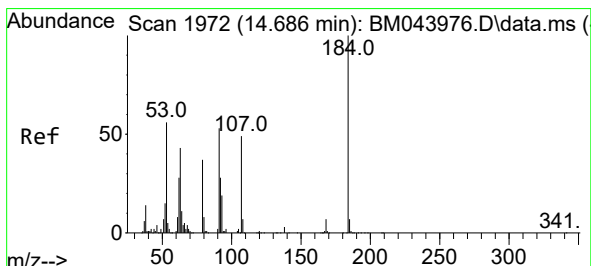
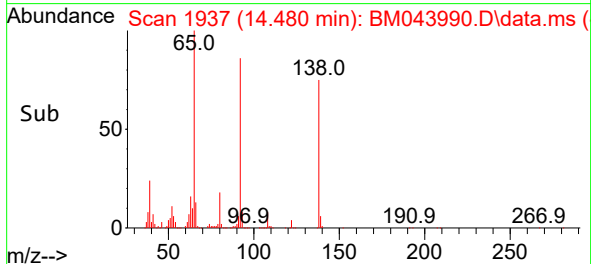
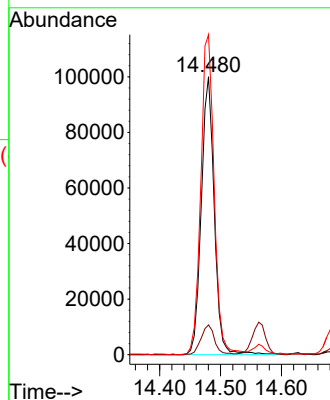
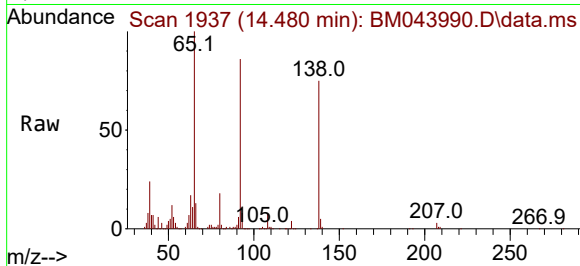




#53  
3-Nitroaniline  
Concen: 9.689 ng  
RT: 14.480 min Scan# 1938  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

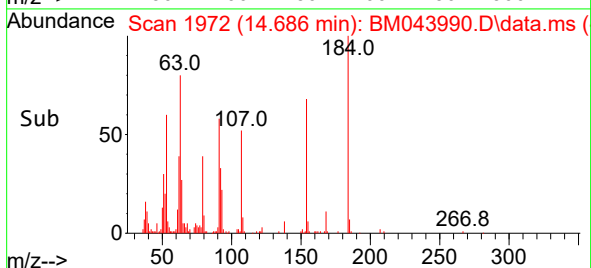
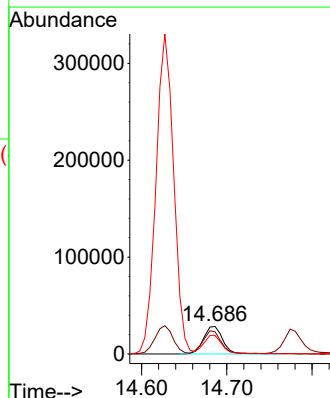
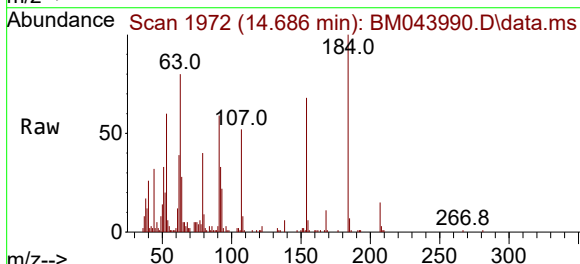
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

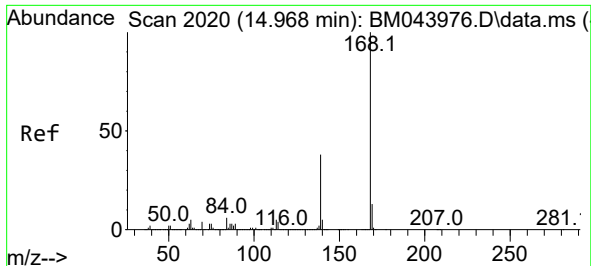
Tgt Ion:138 Resp: 148271  
Ion Ratio Lower Upper  
138 100  
108 10.7 7.8 11.6  
92 115.1 89.7 134.5



#54  
2,4-Dinitrophenol  
Concen: 12.370 ng  
RT: 14.686 min Scan# 1972  
Delta R.T. 0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:184 Resp: 44578  
Ion Ratio Lower Upper  
184 100  
63 80.2 62.8 94.2  
154 67.5 51.4 77.2

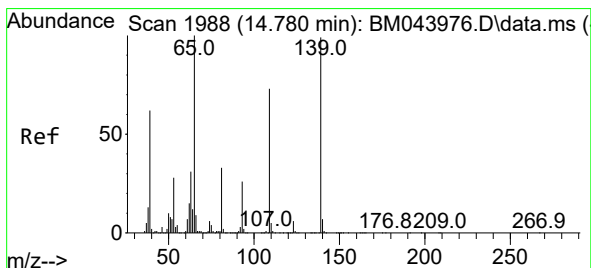
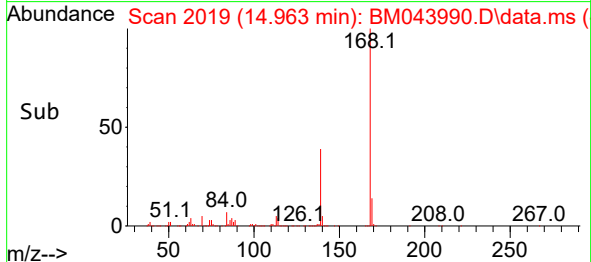
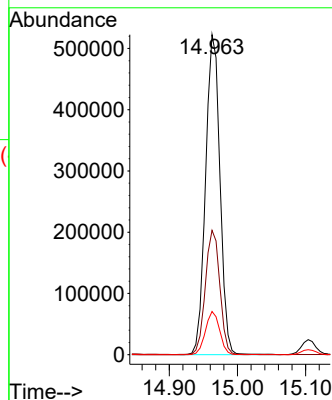
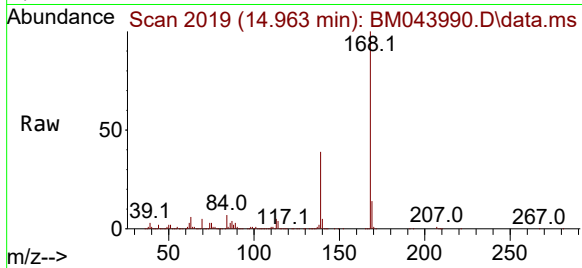




#55  
Dibenzofuran  
Concen: 10.508 ng  
RT: 14.963 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

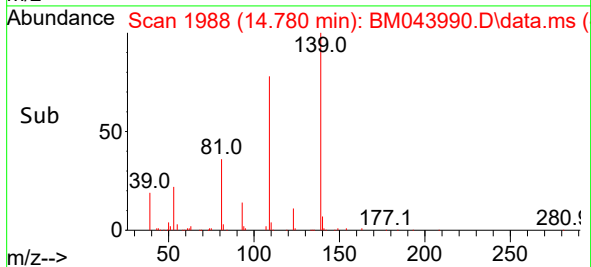
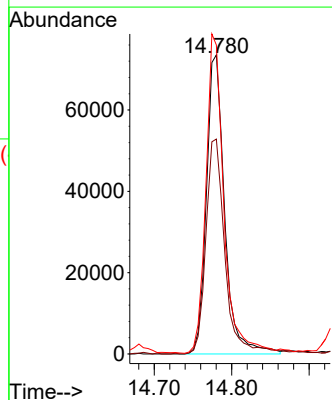
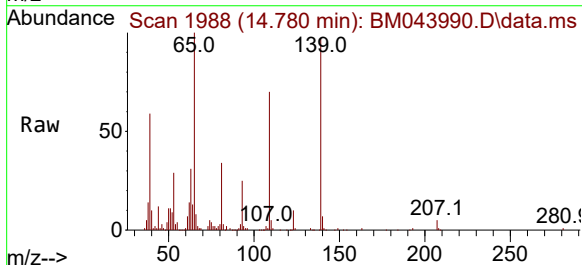
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

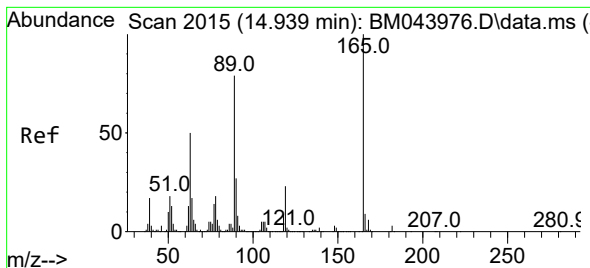
Tgt Ion:168 Resp: 767269  
Ion Ratio Lower Upper  
168 100  
139 38.8 30.7 46.1  
169 13.5 10.5 15.7



#56  
4-Nitrophenol  
Concen: 9.005 ng  
RT: 14.780 min Scan# 1988  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:139 Resp: 120427  
Ion Ratio Lower Upper  
139 100  
109 71.8 53.2 93.2  
65 103.3 80.7 120.7





#57

2,4-Dinitrotoluene

Concen: 8.816 ng

RT: 14.933 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BM043990.D

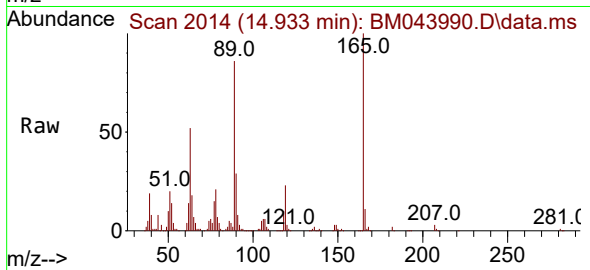
Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023



Tgt Ion:165 Resp: 161767

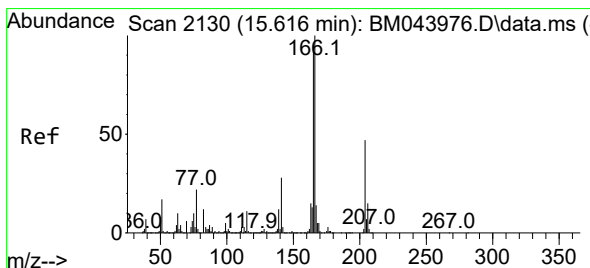
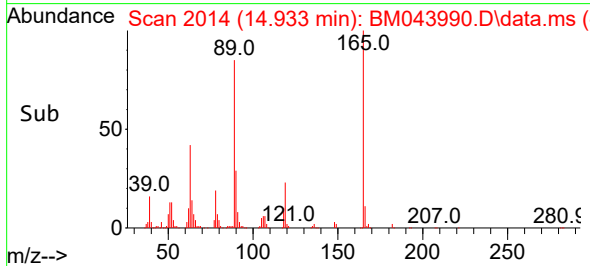
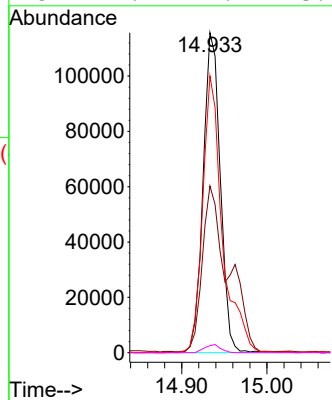
Ion Ratio Lower Upper

165 100

63 52.1 40.2 60.4

89 86.5 63.3 94.9

182 2.2 2.1 3.1



#58

Fluorene

Concen: 10.216 ng

RT: 15.615 min Scan# 2130

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

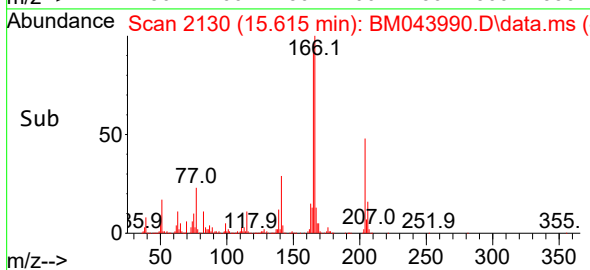
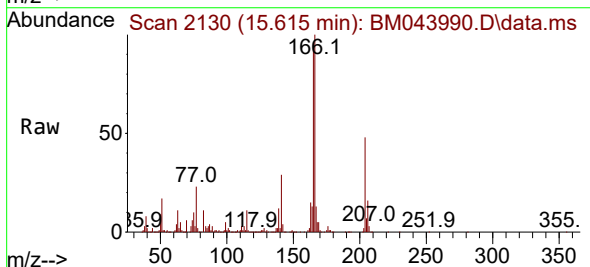
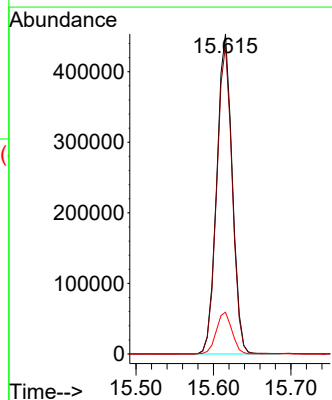
Tgt Ion:166 Resp: 629923

Ion Ratio Lower Upper

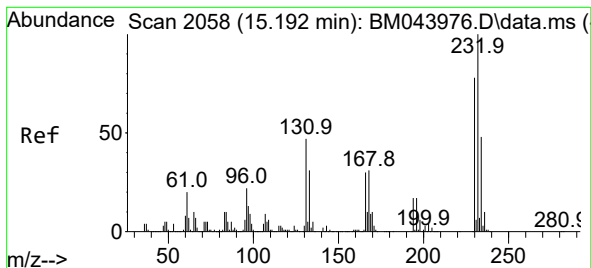
166 100

165 96.3 76.3 114.5

167 13.1 10.9 16.3



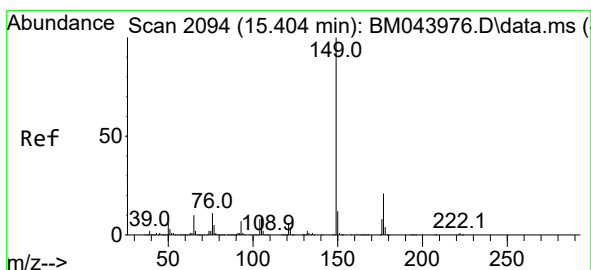
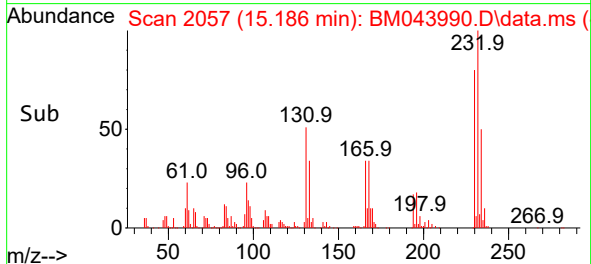
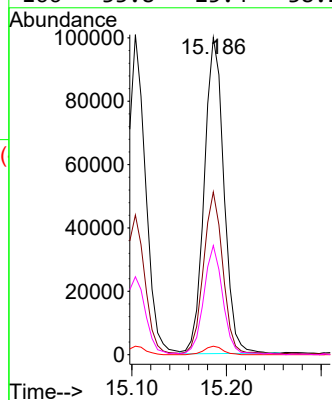
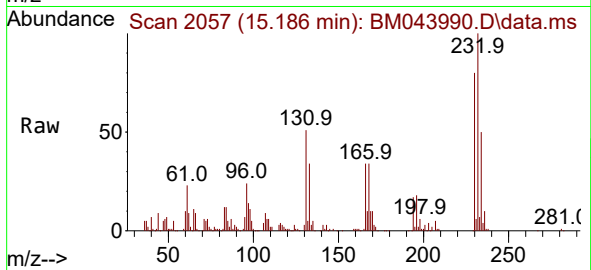




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 9.878 ng  
RT: 15.186 min Scan# 2057  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

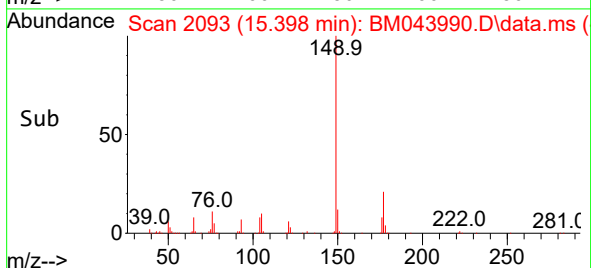
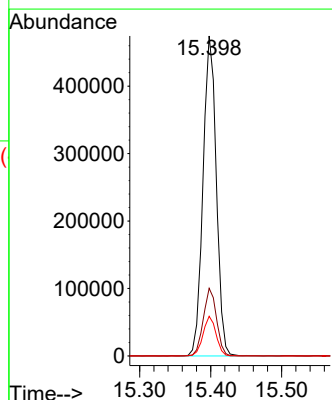
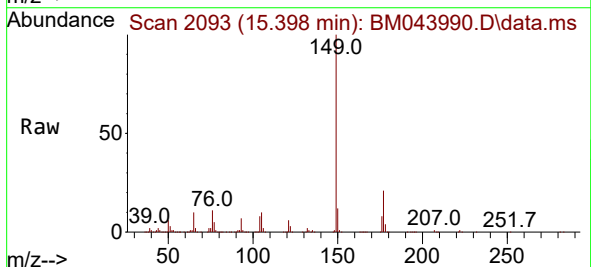
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

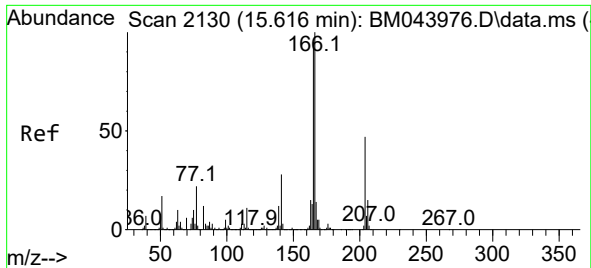
Tgt Ion:232 Resp: 143773  
Ion Ratio Lower Upper  
232 100  
131 50.2 39.8 59.6  
130 2.6 2.0 3.0  
166 33.8 25.4 38.2



#60  
Diethylphthalate  
Concen: 9.963 ng  
RT: 15.398 min Scan# 2093  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:149 Resp: 618478  
Ion Ratio Lower Upper  
149 100  
177 21.2 17.1 25.7  
150 12.4 9.8 14.6

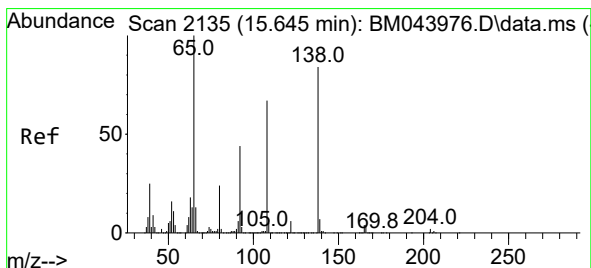
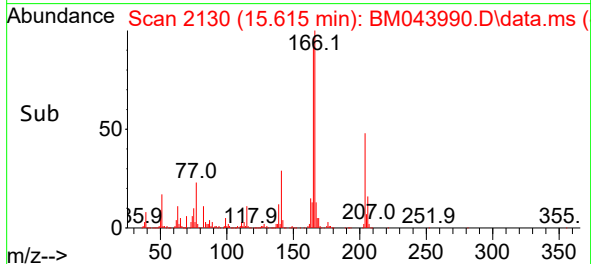
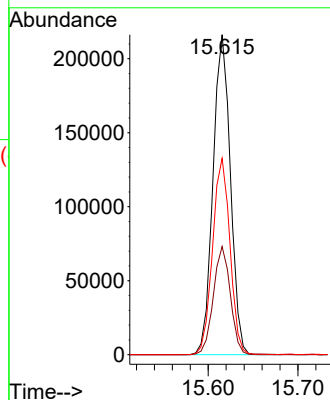
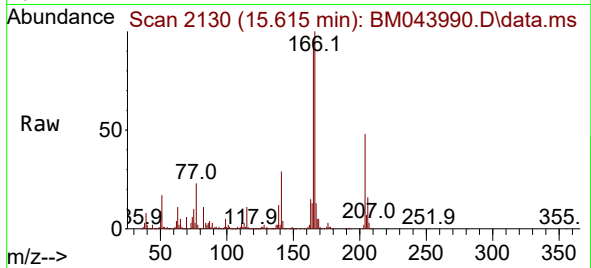




#61  
4-Chlorophenyl-phenylether  
Concen: 10.130 ng  
RT: 15.615 min Scan# 2130  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

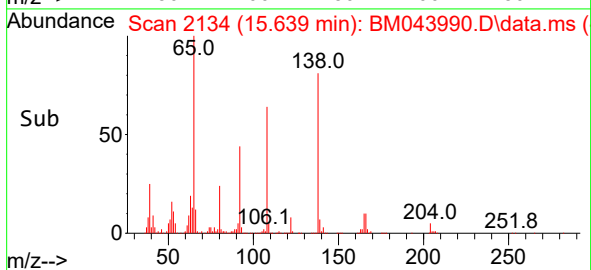
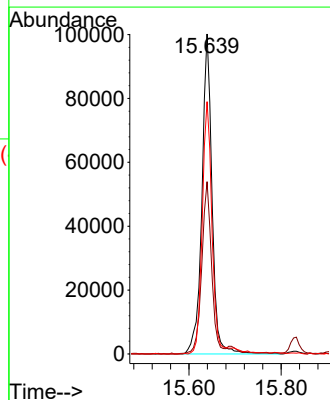
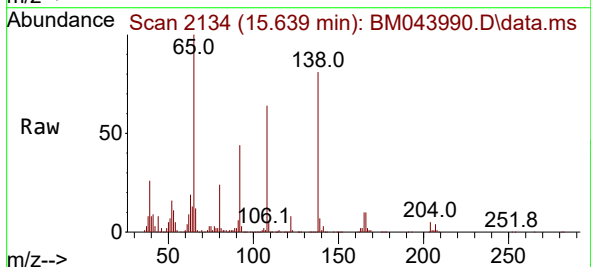
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

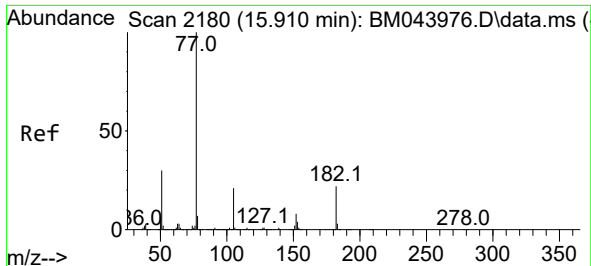
Tgt Ion:204 Resp: 291409  
Ion Ratio Lower Upper  
204 100  
206 33.8 26.2 39.2  
141 61.3 48.6 72.8



#62  
4-Nitroaniline  
Concen: 9.222 ng  
RT: 15.639 min Scan# 2134  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:138 Resp: 154302  
Ion Ratio Lower Upper  
138 100  
92 53.8 32.7 72.7  
108 78.8 60.0 100.0

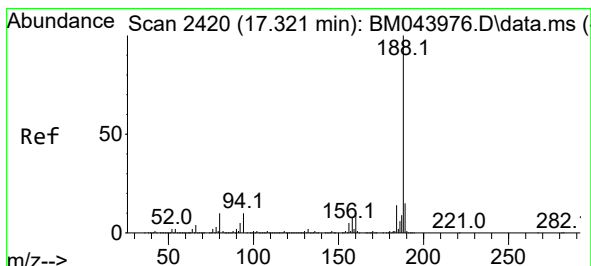
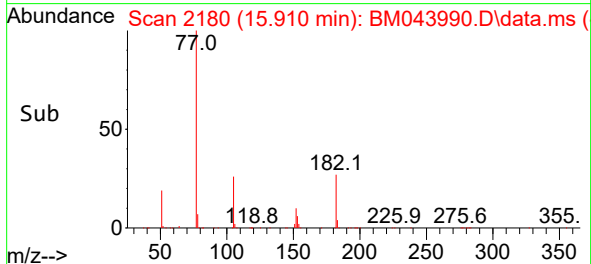
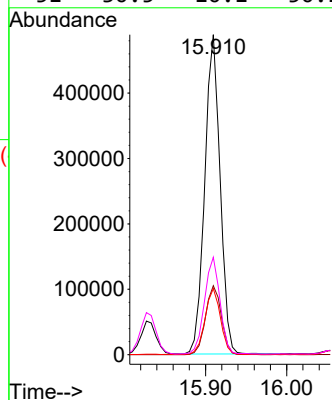
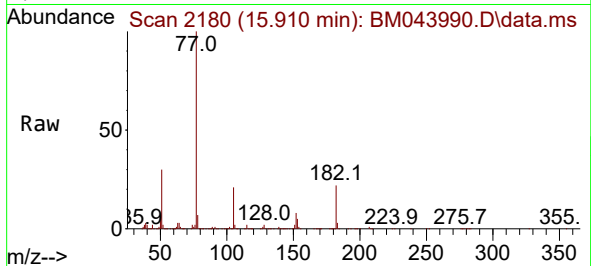




#63  
Azobenzene  
Concen: 10.327 ng  
RT: 15.910 min Scan# 2180  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

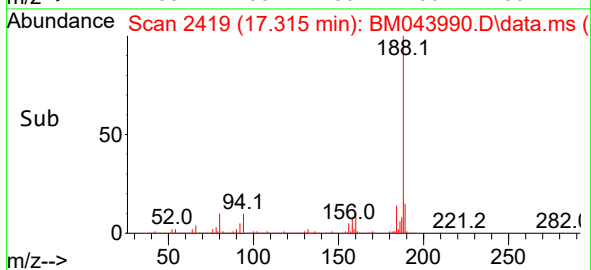
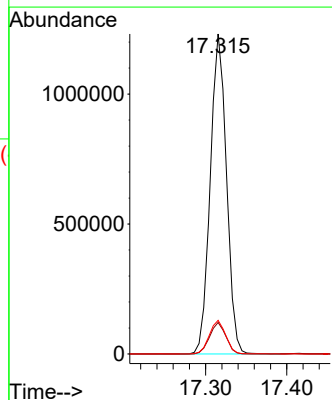
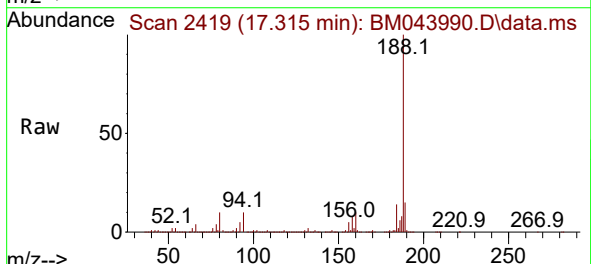
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

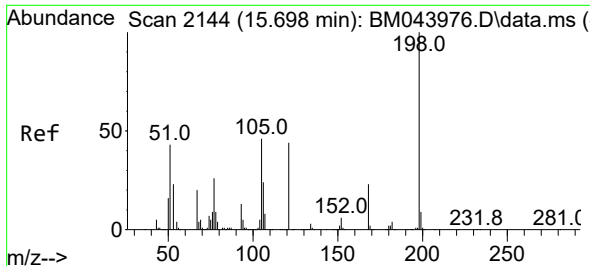
Tgt Ion: 77 Resp: 640335  
Ion Ratio Lower Upper  
77 100  
182 21.6 2.0 42.0  
105 20.7 0.5 40.5  
51 30.5 10.1 50.1



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.315 min Scan# 2419  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:188 Resp: 1706973  
Ion Ratio Lower Upper  
188 100  
94 9.8 7.7 11.5  
80 10.5 8.2 12.4

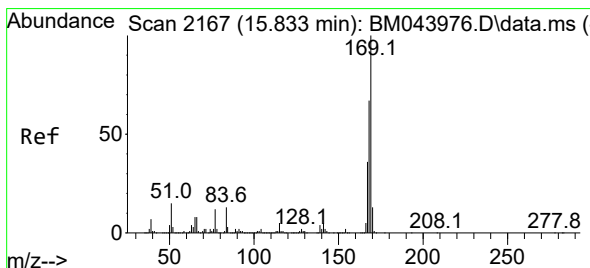
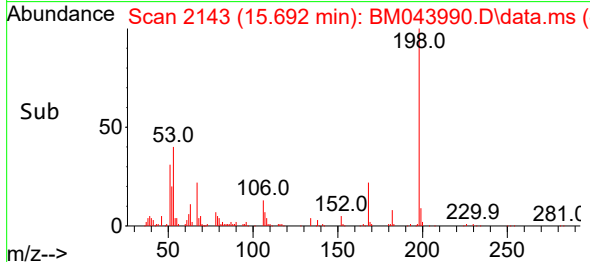
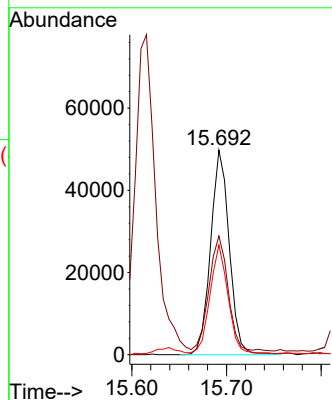
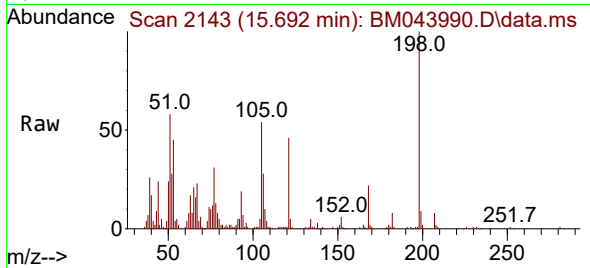




#65  
4,6-Dinitro-2-methylphenol  
Concen: 11.808 ng  
RT: 15.692 min Scan# 2143  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

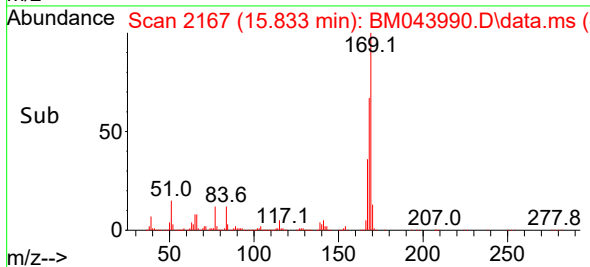
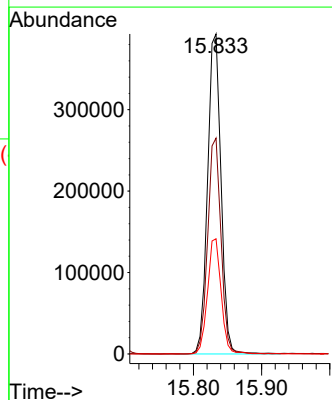
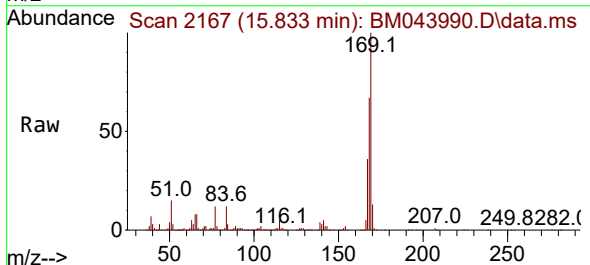
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

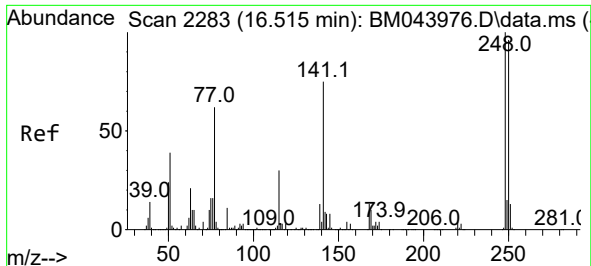
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 58.1  | 31.9  | 71.9  |
| 105     | 53.7  | 28.1  | 68.1  |



#66  
n-Nitrosodiphenylamine  
Concen: 10.593 ng  
RT: 15.833 min Scan# 2167  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 67.5  | 53.4  | 80.2  |
| 167     | 36.0  | 29.0  | 43.4  |

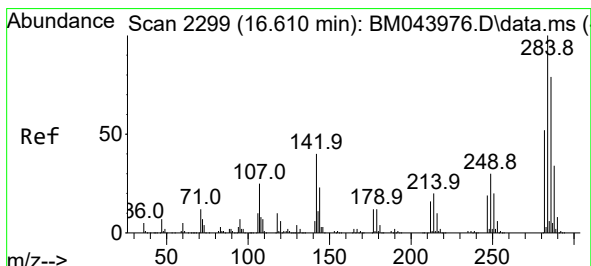
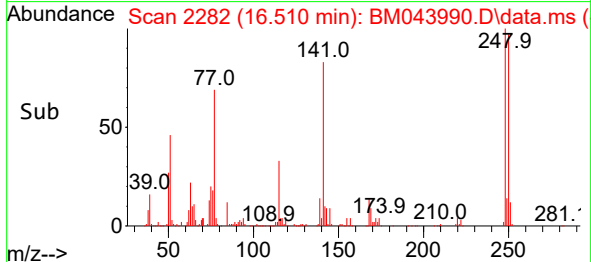
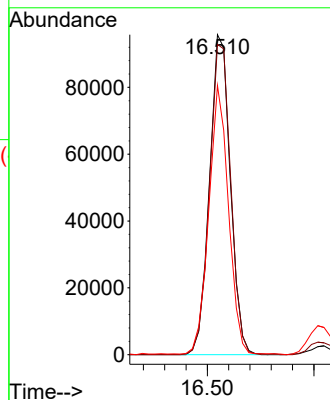
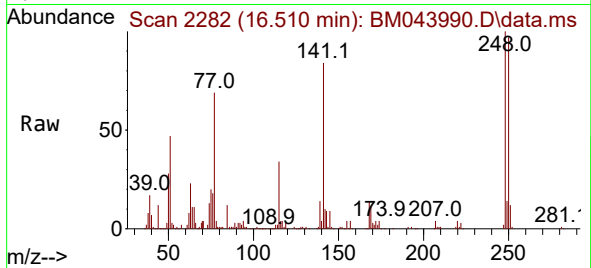




#67  
4-Bromophenyl-phenylether  
Concen: 7.734 ng  
RT: 16.510 min Scan# 2111  
Delta R.T. -0.005 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

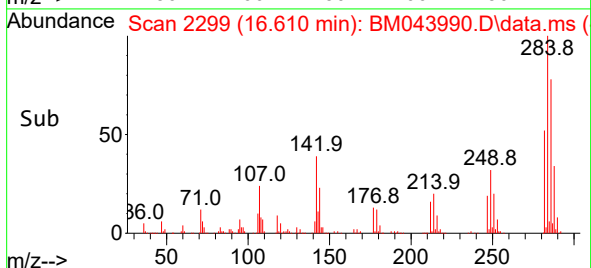
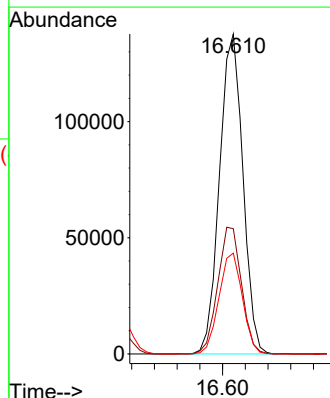
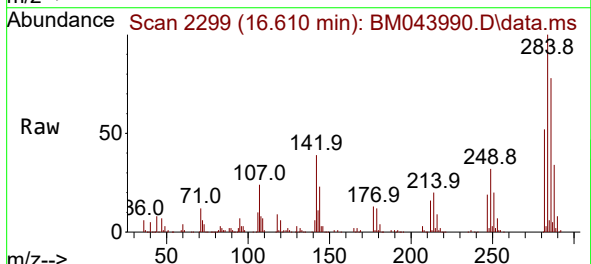
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

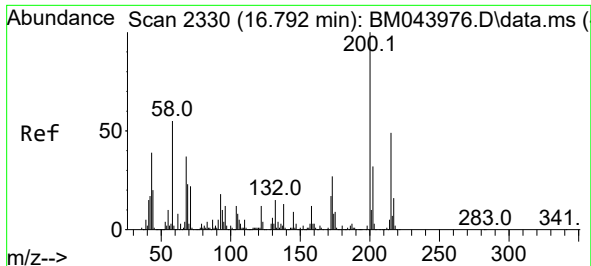
Tgt Ion:248 Resp: 130047  
Ion Ratio Lower Upper  
248 100  
250 97.0 77.0 115.4  
141 84.1 59.9 89.9



#68  
Hexachlorobenzene  
Concen: 9.819 ng  
RT: 16.610 min Scan# 2299  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:284 Resp: 196867  
Ion Ratio Lower Upper  
284 100  
142 39.1 32.2 48.4  
249 31.5 24.4 36.6

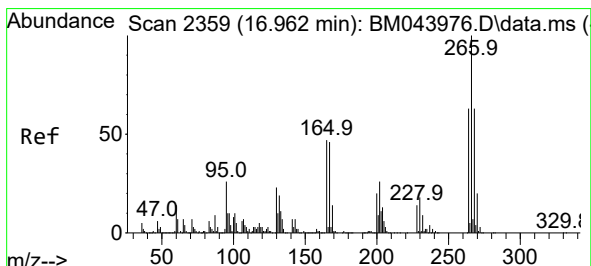
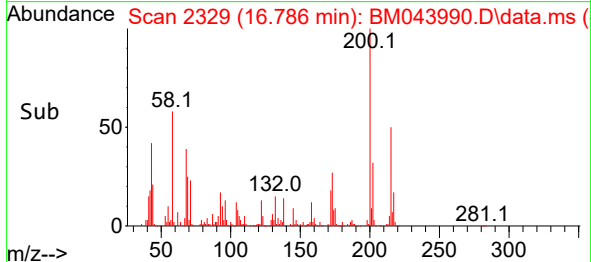
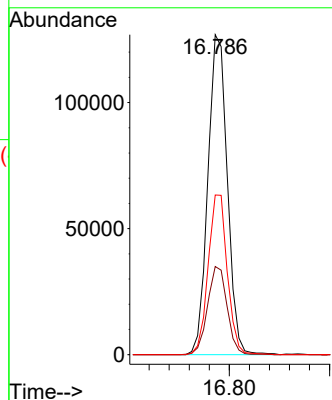
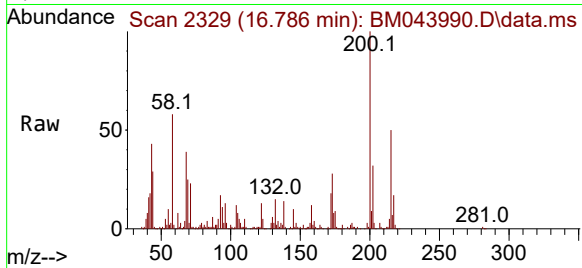




#69  
 Atrazine  
 Concen: 12.171 ng  
 RT: 16.786 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BM043990.D  
 Acq: 06 Feb 2024 14:03

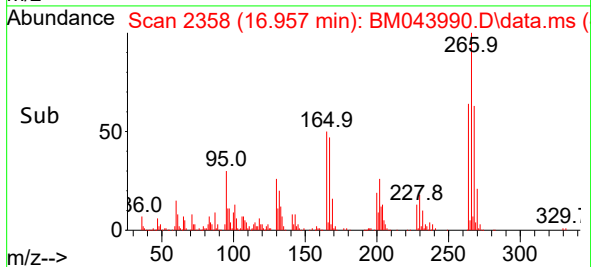
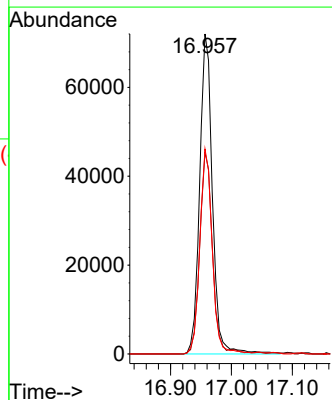
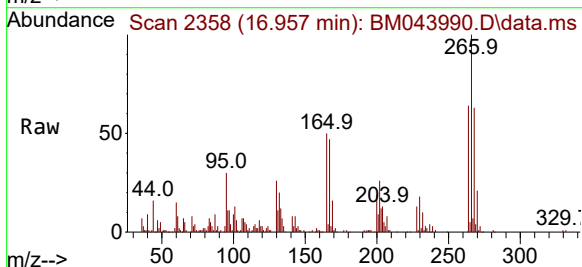
Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2023

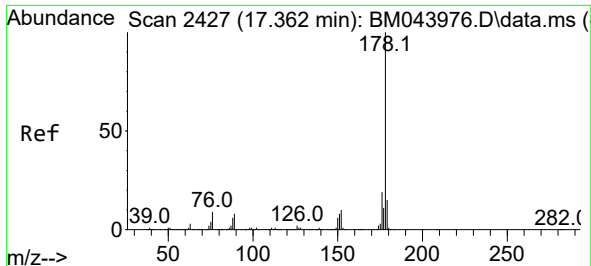
Tgt Ion:200 Resp: 171215  
 Ion Ratio Lower Upper  
 200 100  
 173 27.6 7.3 47.3  
 215 49.9 28.7 68.7



#70  
 Pentachlorophenol  
 Concen: 7.932 ng  
 RT: 16.957 min Scan# 2358  
 Delta R.T. -0.005 min  
 Lab File: BM043990.D  
 Acq: 06 Feb 2024 14:03

Tgt Ion:266 Resp: 104423  
 Ion Ratio Lower Upper  
 266 100  
 268 63.1 50.6 76.0  
 264 64.0 50.6 76.0

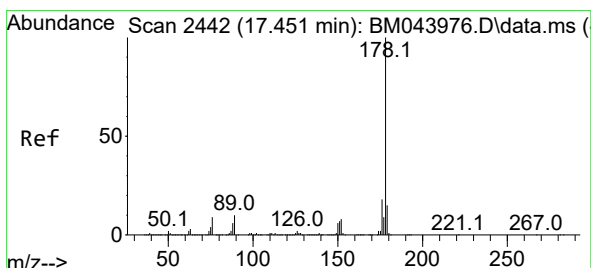
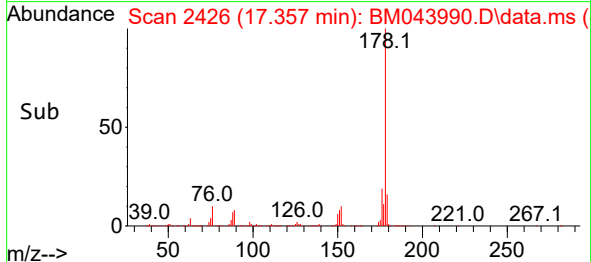
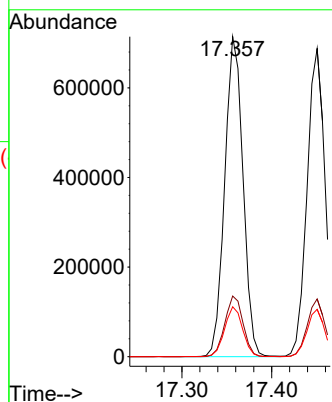
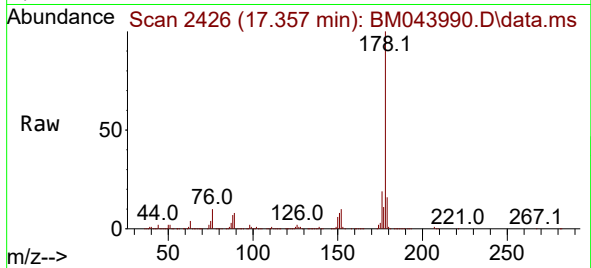




#71  
Phenanthrene  
Concen: 10.627 ng  
RT: 17.357 min Scan# 2427  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

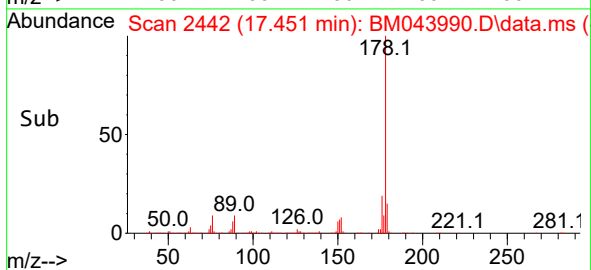
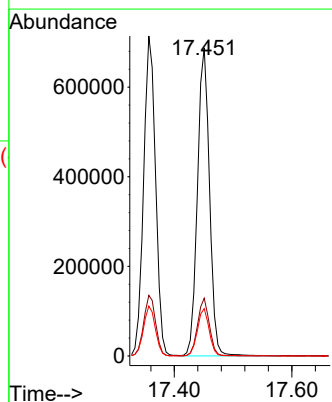
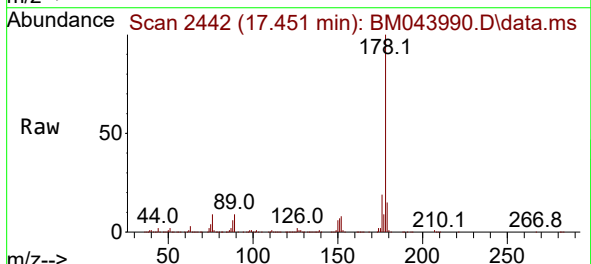
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

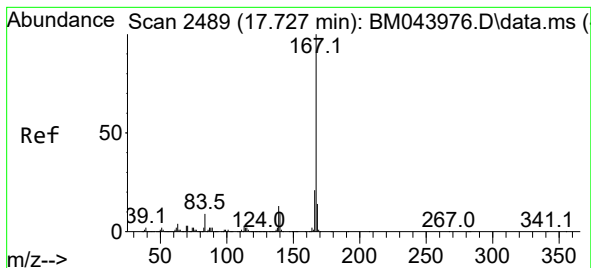
Tgt Ion:178 Resp: 1010334  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.3 22.9  
179 15.6 12.4 18.6



#72  
Anthracene  
Concen: 10.495 ng  
RT: 17.451 min Scan# 2442  
Delta R.T. -0.000 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:178 Resp: 976939  
Ion Ratio Lower Upper  
178 100  
176 18.7 14.6 22.0  
179 15.4 12.2 18.4





#73

Carbazole

Concen: 10.025 ng

RT: 17.727 min Scan# 24

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

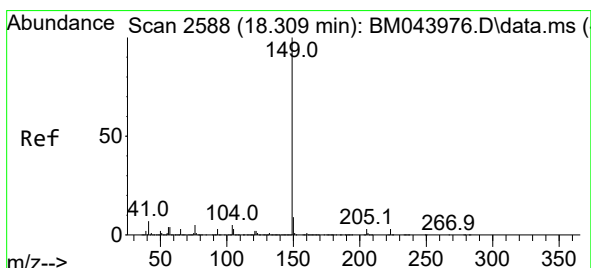
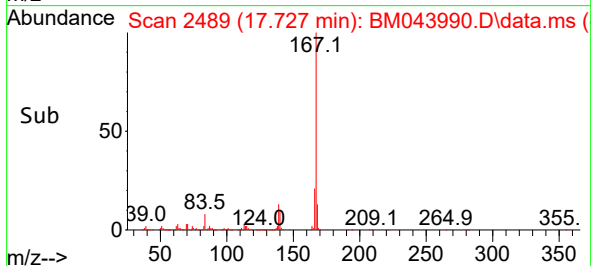
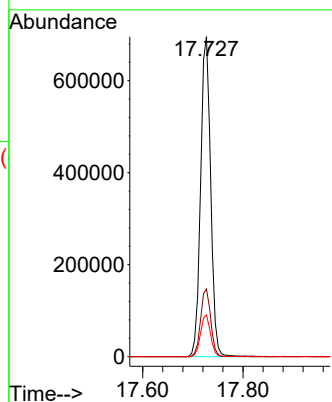
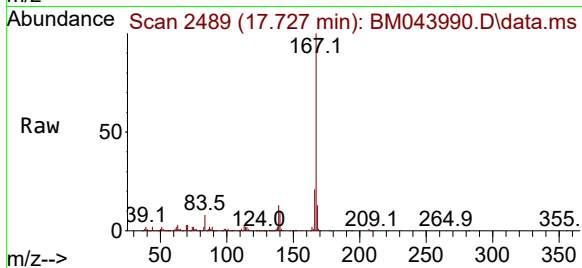
Tgt Ion:167 Resp: 966391

Ion Ratio Lower Upper

167 100

166 21.2 17.1 25.7

139 13.1 10.6 15.8



#74

Di-n-butylphthalate

Concen: 9.602 ng

RT: 18.304 min Scan# 2587

Delta R.T. -0.005 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

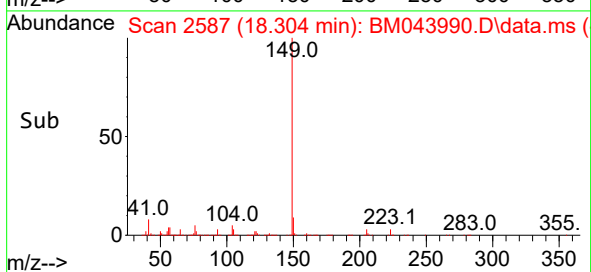
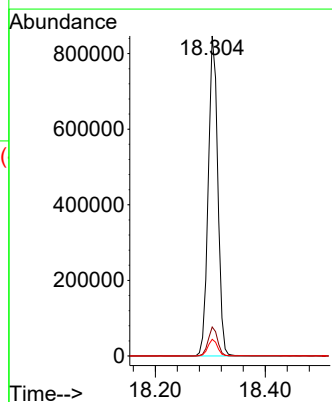
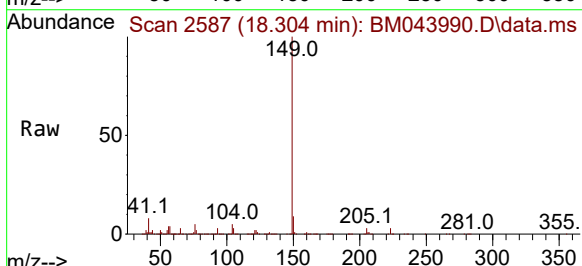
Tgt Ion:149 Resp: 1015147

Ion Ratio Lower Upper

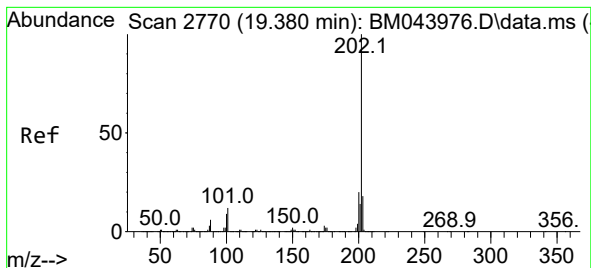
149 100

150 9.1 7.4 11.0

104 5.2 4.1 6.1







#75

Fluoranthene

Concen: 9.722 ng

RT: 19.380 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

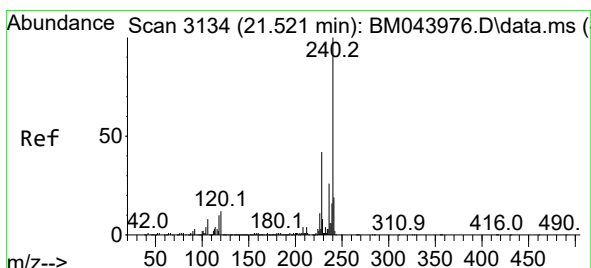
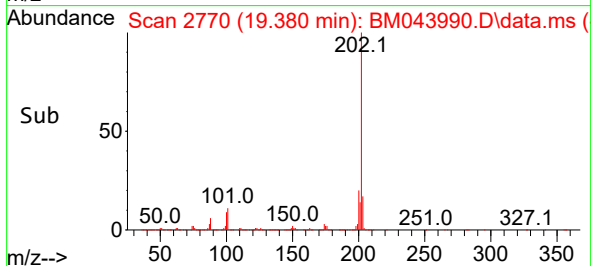
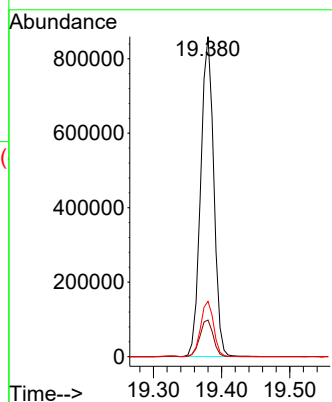
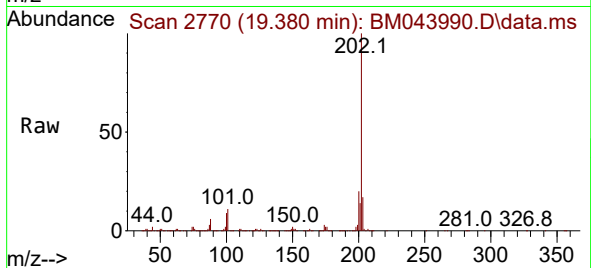
Tgt Ion:202 Resp: 1143082

Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.9

203 17.3 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.515 min Scan# 3133

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

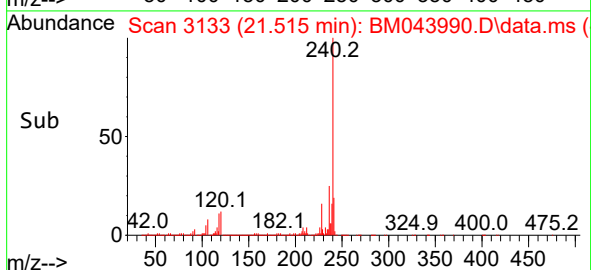
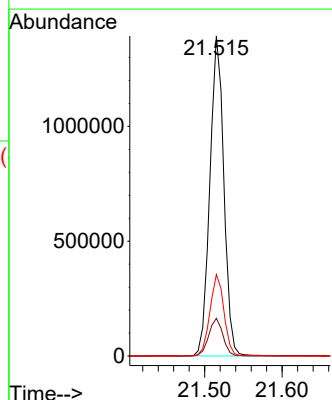
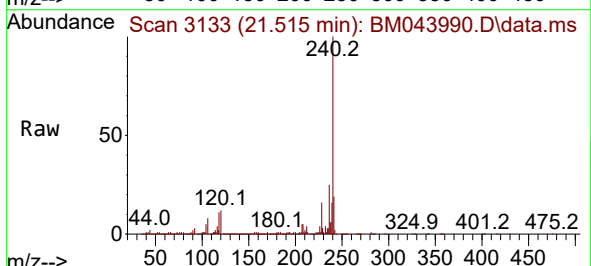
Tgt Ion:240 Resp: 1745284

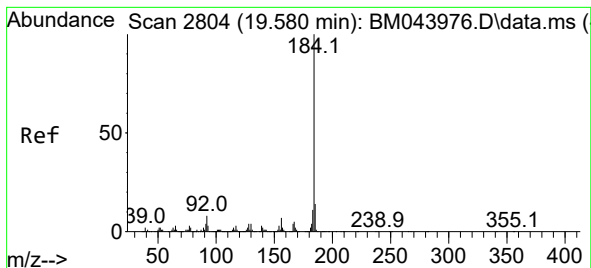
Ion Ratio Lower Upper

240 100

120 11.8 9.3 13.9

236 25.4 20.5 30.7





#77

Benzidine

Concen: 21.860 ng

RT: 19.580 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

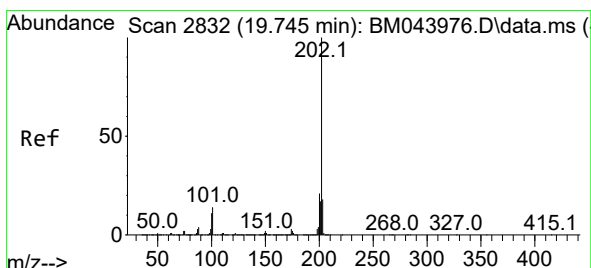
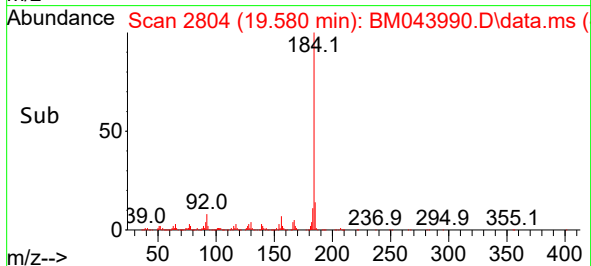
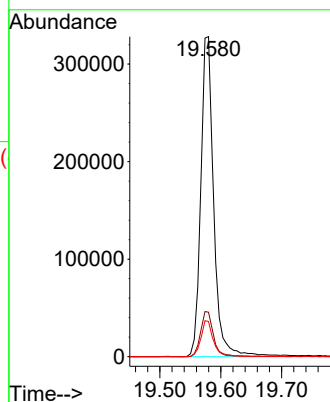
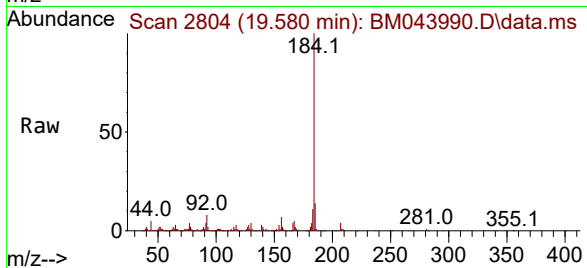
Tgt Ion:184 Resp: 484050

Ion Ratio Lower Upper

184 100

185 13.9 11.5 17.3

183 11.0 8.9 13.3



#78

Pyrene

Concen: 10.261 ng

RT: 19.745 min Scan# 2832

Delta R.T. -0.000 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

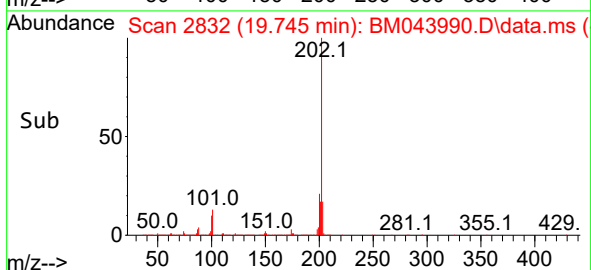
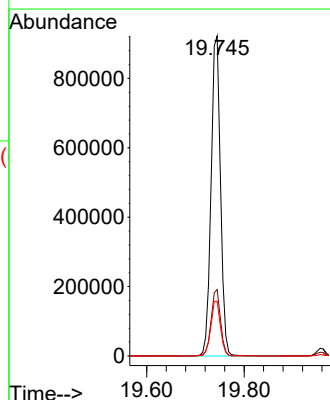
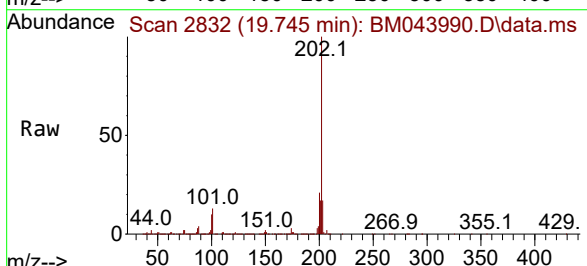
Tgt Ion:202 Resp: 1231059

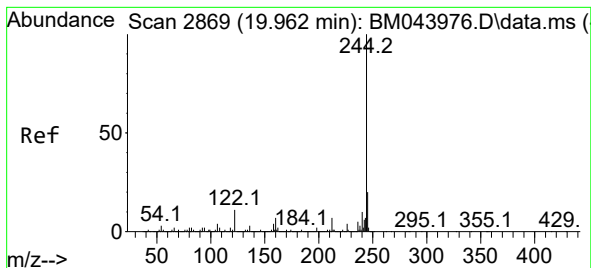
Ion Ratio Lower Upper

202 100

200 20.7 16.8 25.2

203 17.1 14.2 21.4





#79

Terphenyl-d14

Concen: 92.081 ng

RT: 19.956 min Scan# 2

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

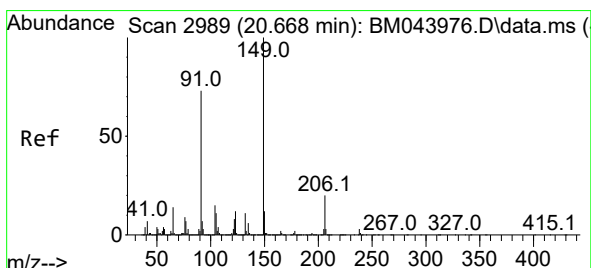
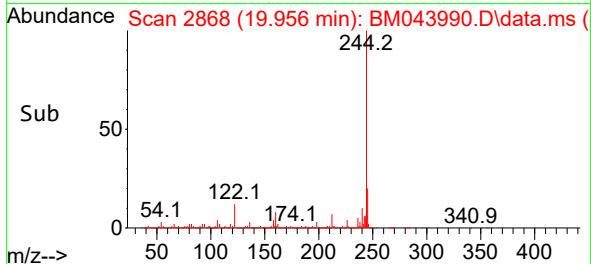
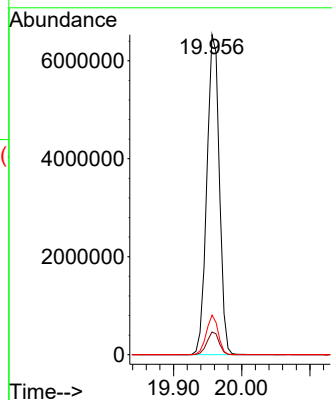
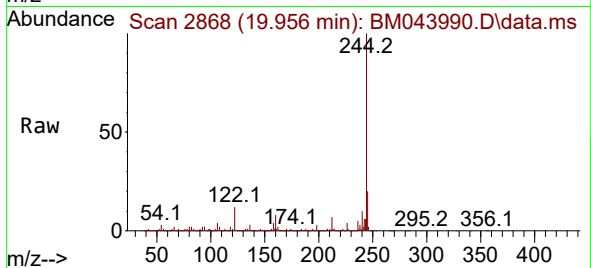
Tgt Ion:244 Resp: 8325044

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

122 12.3 8.7 13.1



#80

Butylbenzylphthalate

Concen: 9.332 ng

RT: 20.662 min Scan# 2988

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

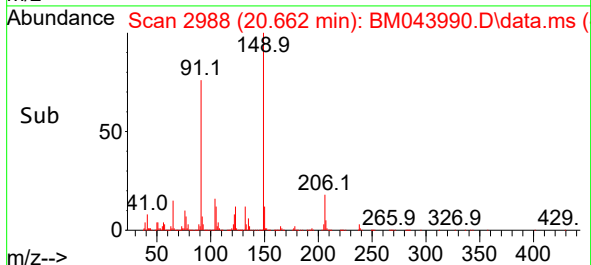
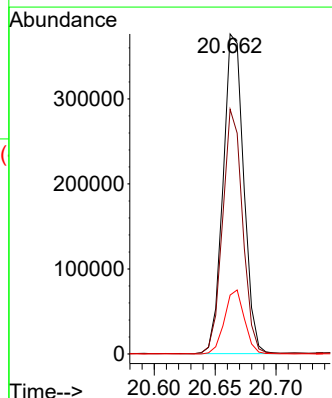
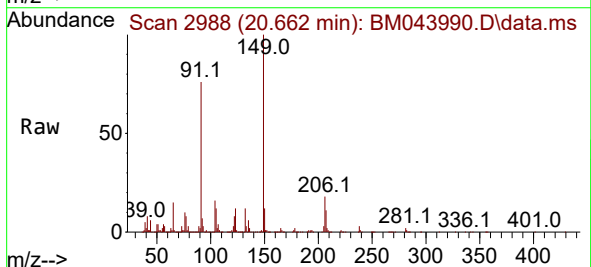
Tgt Ion:149 Resp: 443338

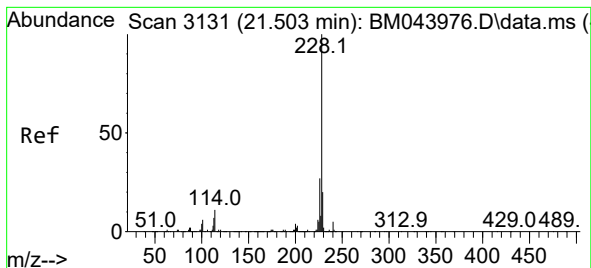
Ion Ratio Lower Upper

149 100

91 76.4 58.4 87.6

206 18.4 15.8 23.6





#81

Benzo(a)anthracene

Concen: 10.427 ng

RT: 21.497 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

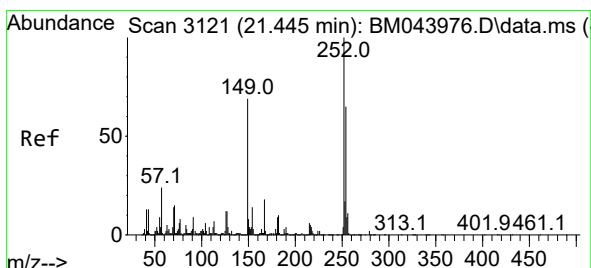
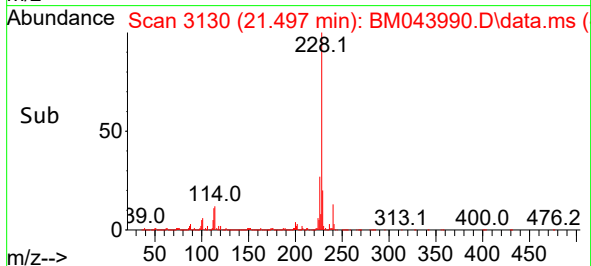
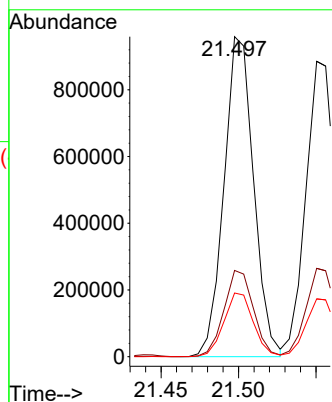
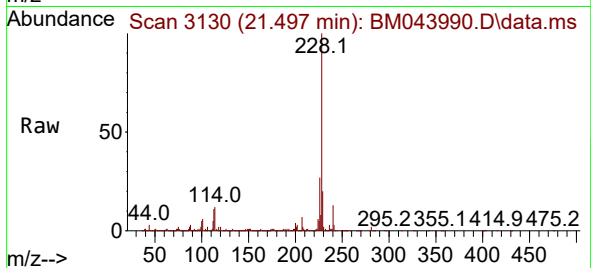
Tgt Ion:228 Resp: 1276675

Ion Ratio Lower Upper

228 100

226 27.0 21.8 32.8

229 19.9 16.1 24.1



#82

3,3'-Dichlorobenzidine

Concen: 10.465 ng

RT: 21.439 min Scan# 3120

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

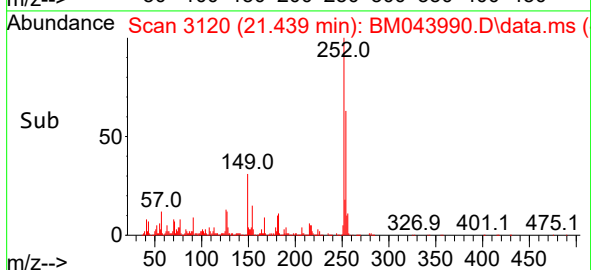
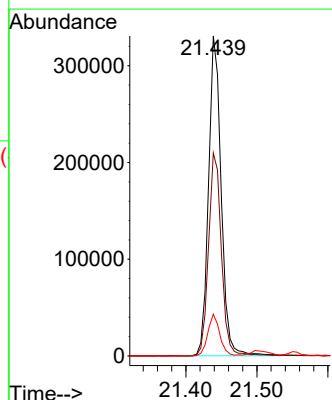
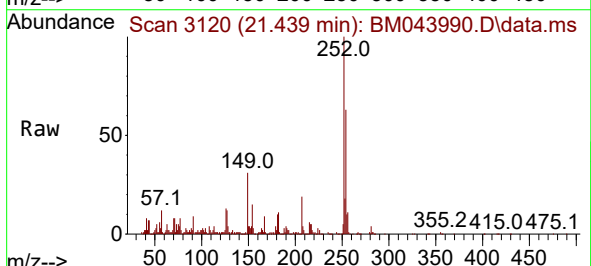
Tgt Ion:252 Resp: 409734

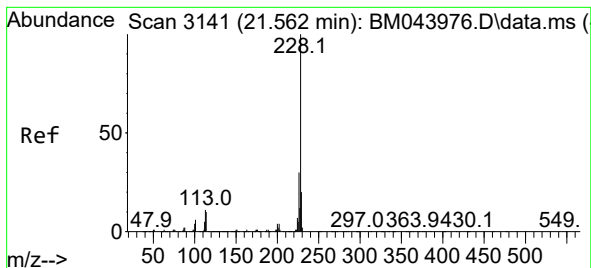
Ion Ratio Lower Upper

252 100

254 63.5 51.6 77.4

126 13.1 9.4 14.2





#83

Chrysene

Concen: 10.166 ng

RT: 21.550 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

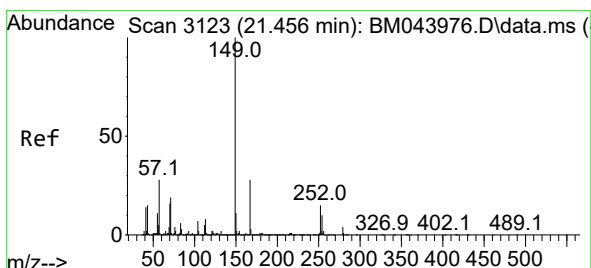
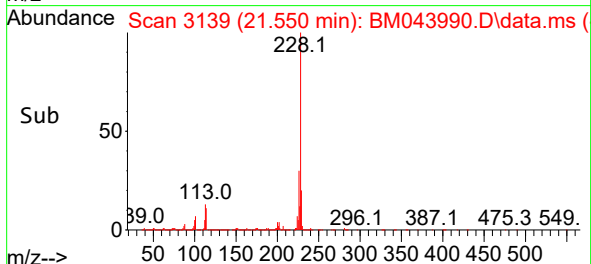
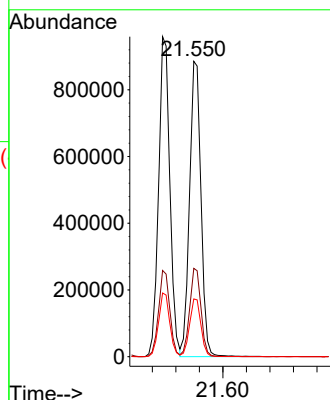
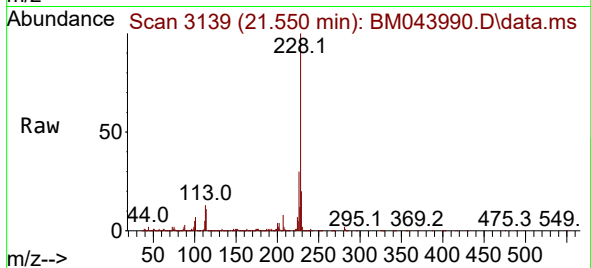
Tgt Ion:228 Resp: 1192544

Ion Ratio Lower Upper

228 100

226 29.9 24.2 36.4

229 19.6 15.8 23.8



#84

Bis(2-ethylhexyl)phthalate

Concen: 9.656 ng

RT: 21.450 min Scan# 3122

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

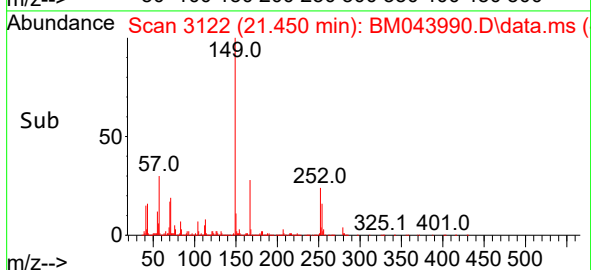
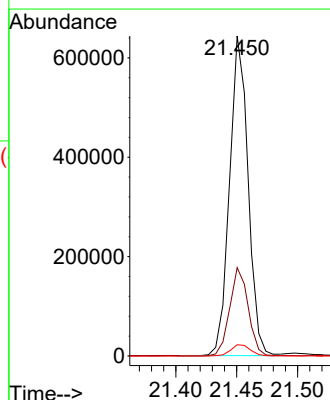
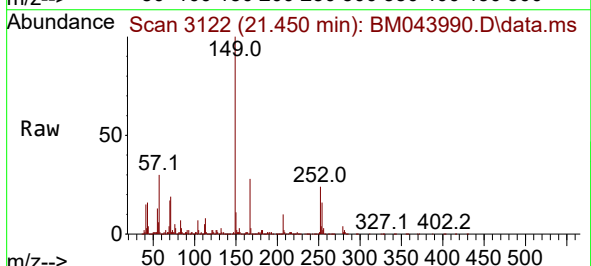
Tgt Ion:149 Resp: 682165

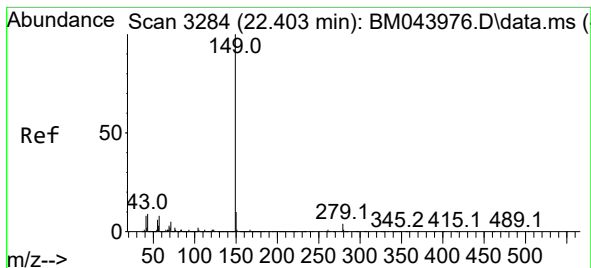
Ion Ratio Lower Upper

149 100

167 27.6 22.0 33.0

279 3.5 3.1 4.7





#85

Di-n-octyl phthalate

Concen: 9.140 ng

RT: 22.397 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

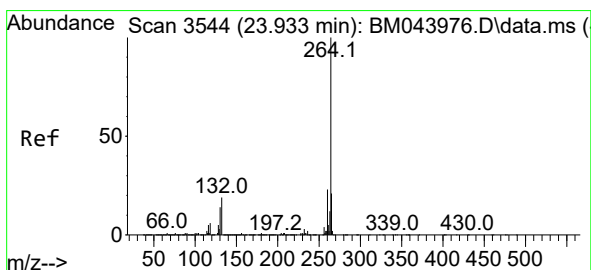
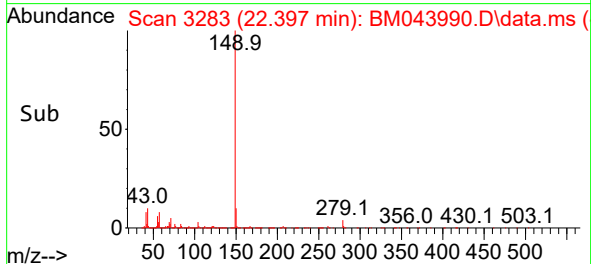
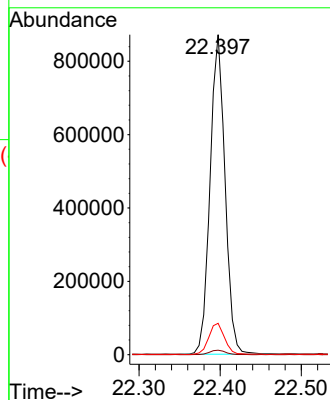
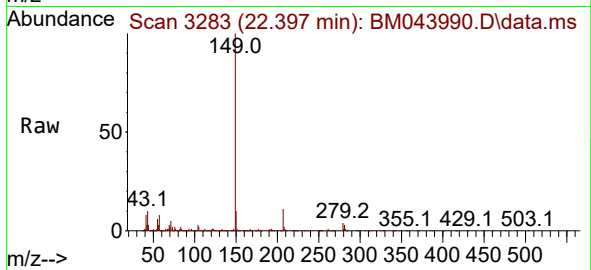
Tgt Ion:149 Resp: 1112315

Ion Ratio Lower Upper

149 100

167 1.6 1.2 1.8

43 10.4 7.9 11.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3543

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

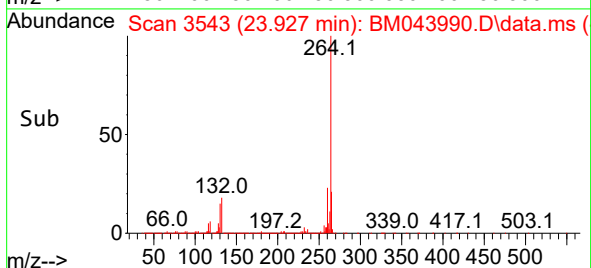
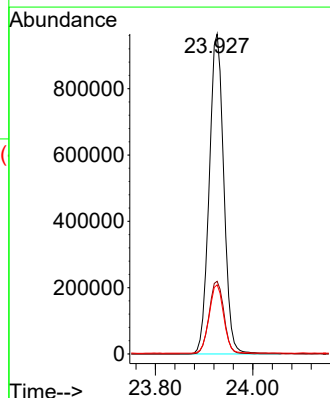
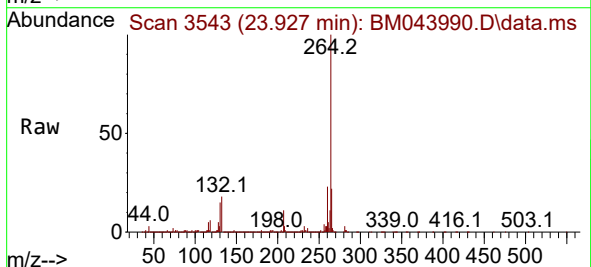
Tgt Ion:264 Resp: 1996622

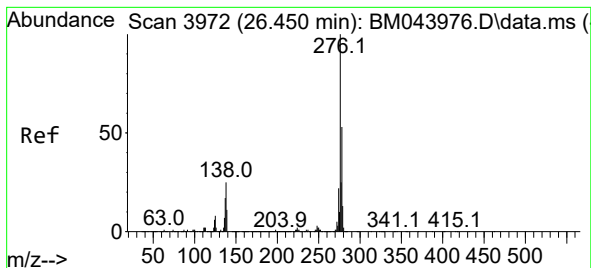
Ion Ratio Lower Upper

264 100

260 22.7 18.6 28.0

265 21.6 17.2 25.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.796 ng

RT: 26.427 min Scan# 3972

Delta R.T. -0.024 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

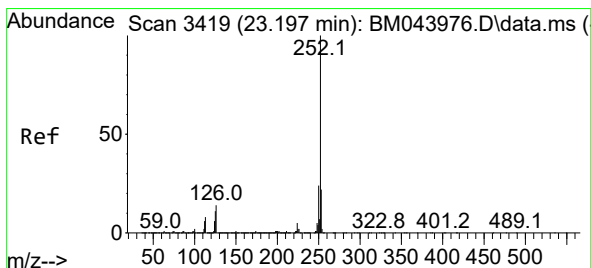
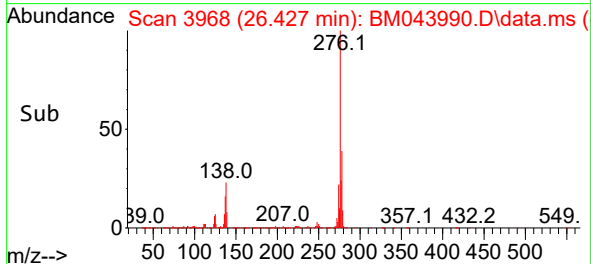
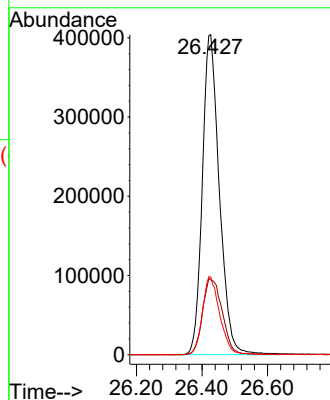
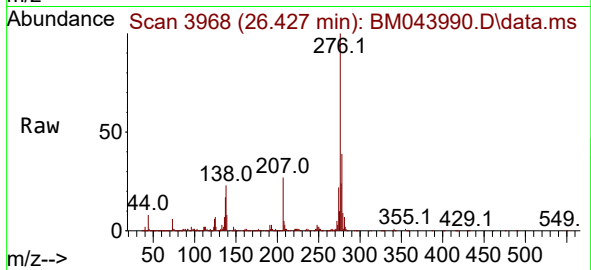
Tgt Ion:276 Resp: 1463570

Ion Ratio Lower Upper

276 100

138 27.4 21.8 32.6

277 24.7 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 9.867 ng

RT: 23.191 min Scan# 3418

Delta R.T. -0.006 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

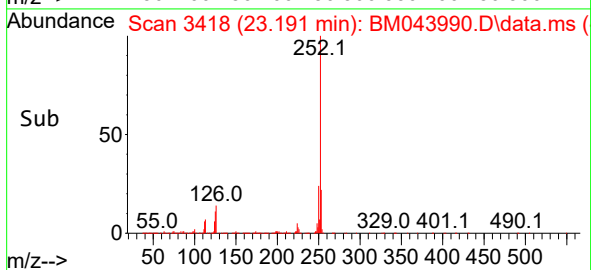
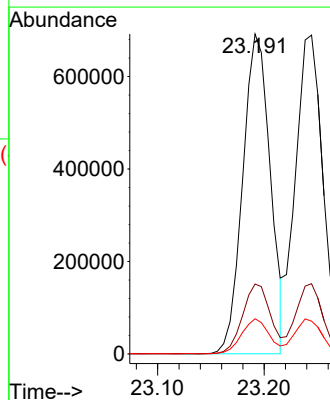
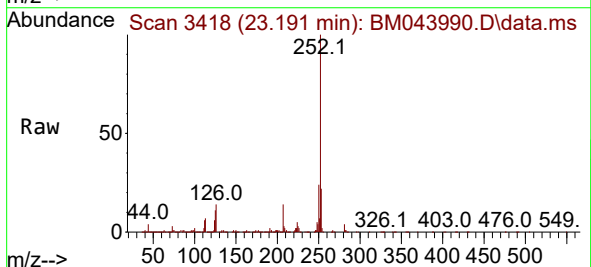
Tgt Ion:252 Resp: 1239218

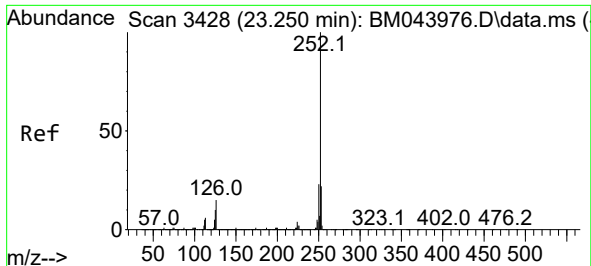
Ion Ratio Lower Upper

252 100

253 21.8 17.7 26.5

125 11.0 9.0 13.6

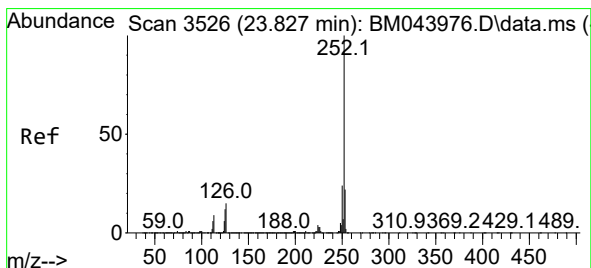
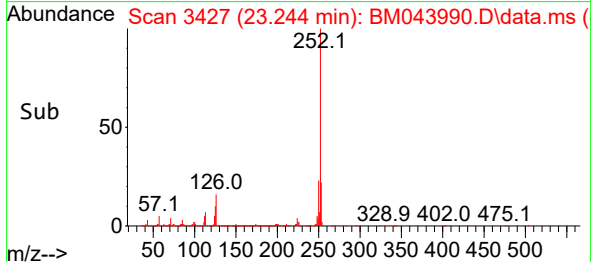
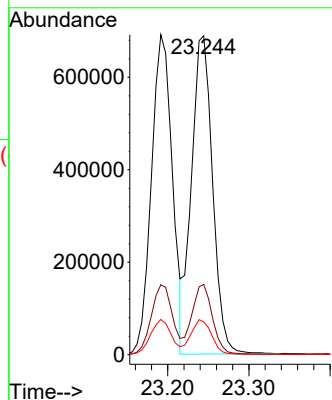
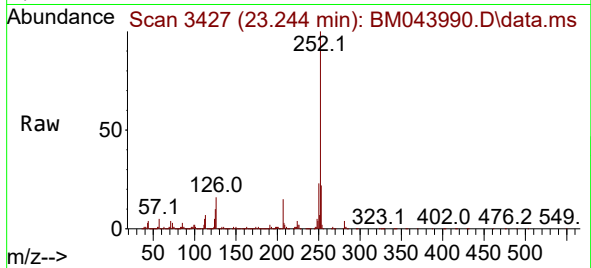




#89  
Benzo(k)fluoranthene  
Concen: 10.353 ng  
RT: 23.244 min Scan# 34  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

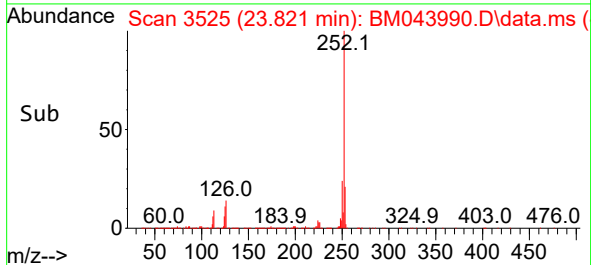
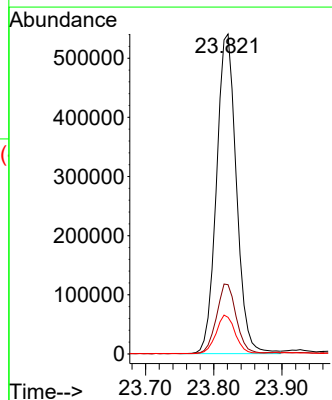
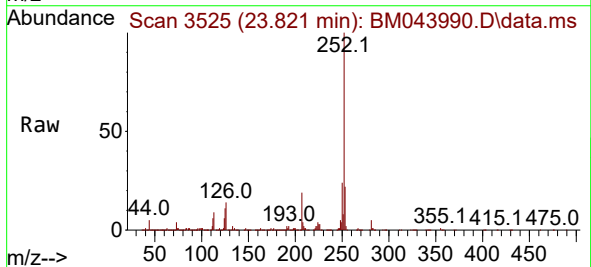
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2023

Tgt Ion:252 Resp: 1247420  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.4 26.2  
125 10.3 8.3 12.5

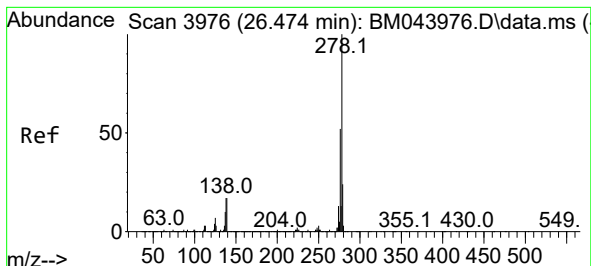


#90  
Benzo(a)pyrene  
Concen: 9.891 ng  
RT: 23.821 min Scan# 3525  
Delta R.T. -0.006 min  
Lab File: BM043990.D  
Acq: 06 Feb 2024 14:03

Tgt Ion:252 Resp: 1098017  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.7 26.5  
125 11.5 9.4 14.2







#91

Dibenzo(a,h)anthracene

Concen: 9.811 ng

RT: 26.456 min Scan# 3

Delta R.T. -0.018 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

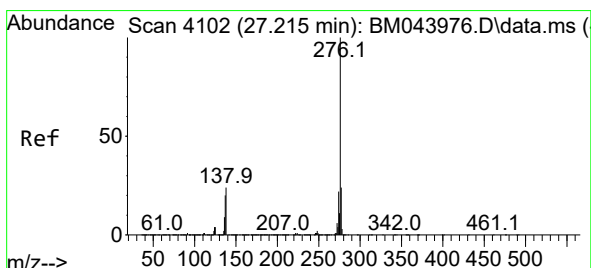
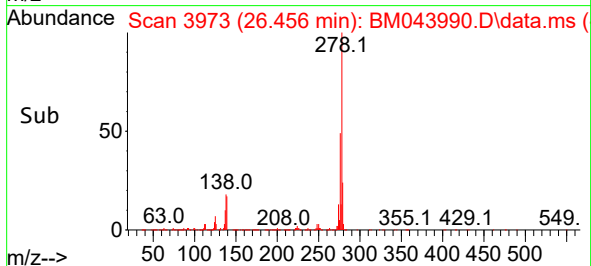
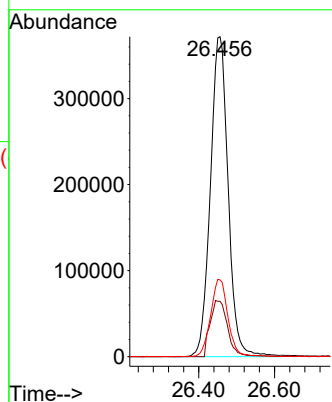
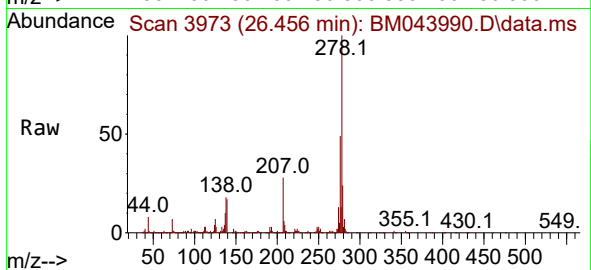
Tgt Ion:278 Resp: 1208797

Ion Ratio Lower Upper

278 100

139 17.3 13.7 20.5

279 24.0 19.3 28.9



#92

Benzo(g,h,i)perylene

Concen: 9.281 ng

RT: 27.191 min Scan# 4098

Delta R.T. -0.024 min

Lab File: BM043990.D

Acq: 06 Feb 2024 14:03

Tgt Ion:276 Resp: 1166391

Ion Ratio Lower Upper

276 100

277 23.3 19.0 28.4

138 23.8 18.8 28.2

