

Data Path : Z:\svoasrv\HPCHEM1\BNA\_E\Data\BE103024\  
 Data File : BE101418.D  
 Acq On : 30 Oct 2024 11:11  
 Operator : RC/JU  
 Sample : P4368-03  
 Misc : MDL-MDL-SOIL 4 PPM  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2024

Quant Time: Oct 30 12:05:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_E\Methods\8270-BE102824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 29 01:26:30 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.570  | 152  | 206952   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.337 | 136  | 1027670  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.180 | 164  | 755754   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 16.918 | 188  | 1722994  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.072 | 240  | 1945102  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.363 | 264  | 2422824  | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.314  | 112  | 1215241  | 102.918 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.947  | 99   | 1736362  | 106.052 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.780  | 82   | 1223551  | 74.781  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.690 | 330  | 1429363  | 107.910 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.805 | 172  | 3131990  | 70.183  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.509 | 244  | 4776744  | 56.521  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.222  | 88   | 13268    | 3.013   | ng    | 92       |
| 4) n-Nitrosodimethylamine     | 3.622  | 42   | 14200    | 2.945   | ng    | # 84     |
| 6) Aniline                    | 7.018  | 93   | 62313    | 4.966   | ng    | 98       |
| 8) 2-Chlorophenol             | 7.212  | 128  | 50566    | 3.570   | ng    | 92       |
| 9) Benzaldehyde               | 6.789  | 77   | 36748    | 4.649   | ng    | 98       |
| 10) Phenol                    | 6.971  | 94   | 57086    | 3.213   | ng    | 85       |
| 11) bis(2-Chloroethyl)ether   | 7.018  | 93   | 62313    | 4.276   | ng    | # 31     |
| 12) 1,3-Dichlorobenzene       | 7.458  | 146  | 54083    | 3.542   | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 7.605  | 146  | 54808    | 3.515   | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.934  | 146  | 53907    | 3.531   | ng    | 97       |
| 15) Benzyl Alcohol            | 7.911  | 79   | 46038    | 4.717   | ng    | # 70     |
| 16) 2,2'-oxybis(1-Chloropr... | 8.069  | 45   | 72380    | 3.947   | ng    | 98       |
| 17) 2-Methylphenol            | 8.152  | 107  | 36606    | 3.045   | ng    | 96       |
| 18) Hexachloroethane          | 8.628  | 117  | 17760    | 3.487   | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 8.375  | 70   | 38944    | 3.584   | ng    | 97       |
| 20) 3+4-Methylphenols         | 8.492  | 107  | 49444    | 2.979   | ng    | 97       |
| 22) Acetophenone              | 8.428  | 105  | 82002    | 3.514   | ng    | # 98     |
| 24) Nitrobenzene              | 8.821  | 77   | 62974    | 3.616   | ng    | 99       |
| 25) Isophorone                | 9.274  | 82   | 108258   | 3.391   | ng    | 98       |
| 26) 2-Nitrophenol             | 9.509  | 139  | 26126    | 3.104   | ng    | 98       |
| 28) bis(2-Chloroethoxy)met... | 9.779  | 93   | 66577    | 3.438   | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 10.055 | 162  | 45925    | 3.134   | ng    | 97       |
| 30) 1,2,4-Trichlorobenzene    | 10.185 | 180  | 55637    | 3.486   | ng    | 99       |
| 31) Naphthalene               | 10.384 | 128  | 181318   | 3.462   | ng    | 99       |
| 32) Benzoic acid              | 9.826  | 122  | 5677     | 8.647   | ng    | # 86     |
| 33) 4-Chloroaniline           | 10.613 | 127  | 66031    | 3.626   | ng    | 99       |
| 34) Hexachlorobutadiene       | 10.637 | 225  | 31627    | 3.347   | ng    | 97       |
| 35) Caprolactam               | 11.389 | 113  | 13901    | 2.475   | ng    | 90       |
| 36) 4-Chloro-3-methylphenol   | 11.783 | 107  | 49286    | 2.954   | ng    | 96       |
| 37) 2-Methylnaphthalene       | 11.977 | 142  | 129926   | 3.444   | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.200 | 142  | 122911   | 3.264   | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.335 | 216  | 66724    | 3.517   | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 12.652 | 196  | 39843    | 3.046   | ng    | 96       |
| 44) 2,4,5-Trichlorophenol     | 12.752 | 196  | 45115    | 3.012   | ng    | 98       |
| 46) 1,1'-Biphenyl             | 13.005 | 154  | 192743   | 3.722   | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.052 | 162  | 138461   | 3.385   | ng    | 97       |

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 Sample : P4368-03  
 Misc : MDL-MDL-SOIL 4 PPM  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2024

Quant Time: Oct 30 12:05:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_E\Methods\8270-BE102824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 29 01:26:30 2024  
 Response via : Initial Calibration

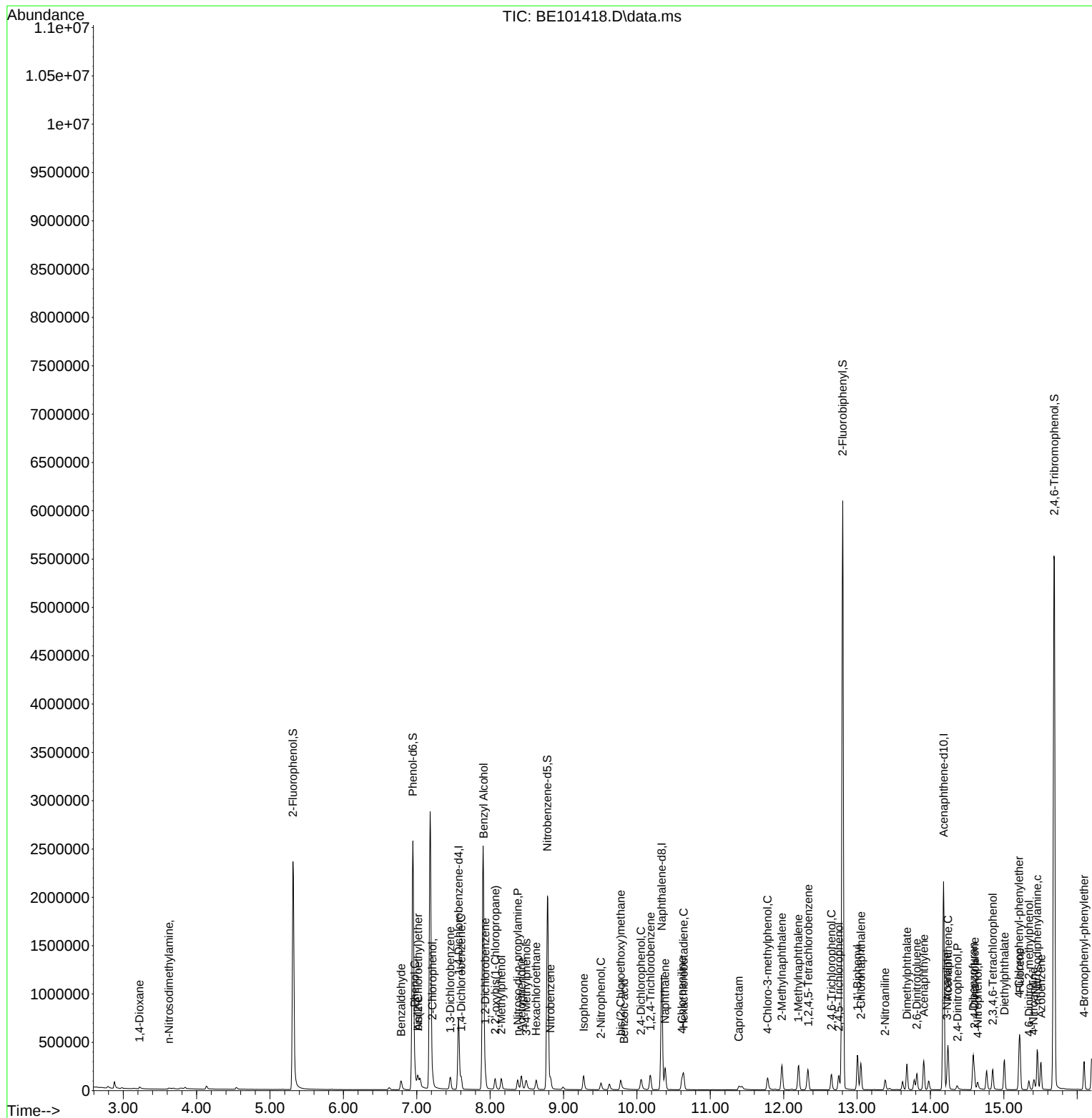
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 48) 2-Nitroaniline            | 13.381 | 65   | 29035    | 2.637 | ng    | 98       |
| 49) Acenaphthylene            | 13.910 | 152  | 220162   | 3.639 | ng    | 99       |
| 50) Dimethylphthalate         | 13.680 | 163  | 181722   | 3.406 | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 13.816 | 165  | 35647    | 2.894 | ng    | 97       |
| 52) Acenaphthene              | 14.239 | 154  | 134423   | 3.403 | ng    | 98       |
| 53) 3-Nitroaniline            | 14.227 | 138  | 35025    | 2.860 | ng    | 97       |
| 54) 2,4-Dinitrophenol         | 14.368 | 184  | 10388    | 6.720 | ng    | 94       |
| 55) Dibenzofuran              | 14.585 | 168  | 223747   | 3.554 | ng    | 98       |
| 56) 4-Nitrophenol             | 14.644 | 139  | 26553    | 2.368 | ng    | 99       |
| 57) 2,4-Dinitrotoluene        | 14.603 | 165  | 45501    | 2.683 | ng    | 92       |
| 58) Fluorene                  | 15.220 | 166  | 179795   | 3.414 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 14.850 | 232  | 45949    | 3.320 | ng    | 98       |
| 60) Diethylphthalate          | 15.008 | 149  | 184379   | 3.304 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.208 | 204  | 88438    | 3.384 | ng    | 97       |
| 62) 4-Nitroaniline            | 15.408 | 138  | 35518    | 2.606 | ng    | 99       |
| 63) Azobenzene                | 15.508 | 77   | 165087   | 3.442 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.343 | 198  | 21401    | 2.114 | ng    | 93       |
| 66) n-Nitrosodiphenylamine    | 15.455 | 169  | 157792   | 3.453 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.095 | 248  | 60836    | 3.357 | ng    | 95       |
| 68) Hexachlorobenzene         | 16.201 | 284  | 80288    | 3.380 | ng    | 96       |
| 69) Atrazine                  | 16.389 | 200  | 56444    | 4.029 | ng    | 98       |
| 70) Pentachlorophenol         | 16.606 | 266  | 35196    | 2.574 | ng    | 99       |
| 71) Phenanthrene              | 16.953 | 178  | 307305   | 3.725 | ng    | 97       |
| 72) Anthracene                | 17.041 | 178  | 275216   | 3.417 | ng    | 97       |
| 73) Carbazole                 | 17.370 | 167  | 284775   | 3.455 | ng    | 98       |
| 74) Di-n-butylphthalate       | 17.823 | 149  | 314585   | 3.467 | ng    | 97       |
| 75) Fluoranthene              | 18.957 | 202  | 364362   | 3.636 | ng    | 96       |
| 77) Benzidine                 | 19.215 | 184  | 61398    | 2.487 | ng    | 98       |
| 78) Pyrene                    | 19.327 | 202  | 389518   | 3.642 | ng    | 95       |
| 80) Butylbenzylphthalate      | 20.179 | 149  | 160918   | 3.432 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.054 | 228  | 430655   | 3.939 | ng    | 94       |
| 82) 3,3'-Dichlorobenzidine    | 21.031 | 252  | 135543   | 3.165 | ng    | 99       |
| 83) Chrysene                  | 21.107 | 228  | 416799   | 3.943 | ng    | 93       |
| 84) Bis(2-ethylhexyl)phtha... | 20.884 | 149  | 209438   | 3.362 | ng    | 95       |
| 85) Di-n-octyl phthalate      | 21.730 | 149  | 360303   | 3.524 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 25.660 | 276  | 587942   | 3.626 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 22.646 | 252  | 469710   | 3.720 | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 22.688 | 252  | 441173   | 3.740 | ng    | 96       |
| 90) Benzo(a)pyrene            | 23.246 | 252  | 411436   | 3.726 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 25.660 | 278  | 477660   | 3.565 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 26.413 | 276  | 452317   | 3.277 | ng    | 98       |

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

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 Sample : P4368-03  
 Misc : MDL-MDL-SOIL 4 PPM  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2024

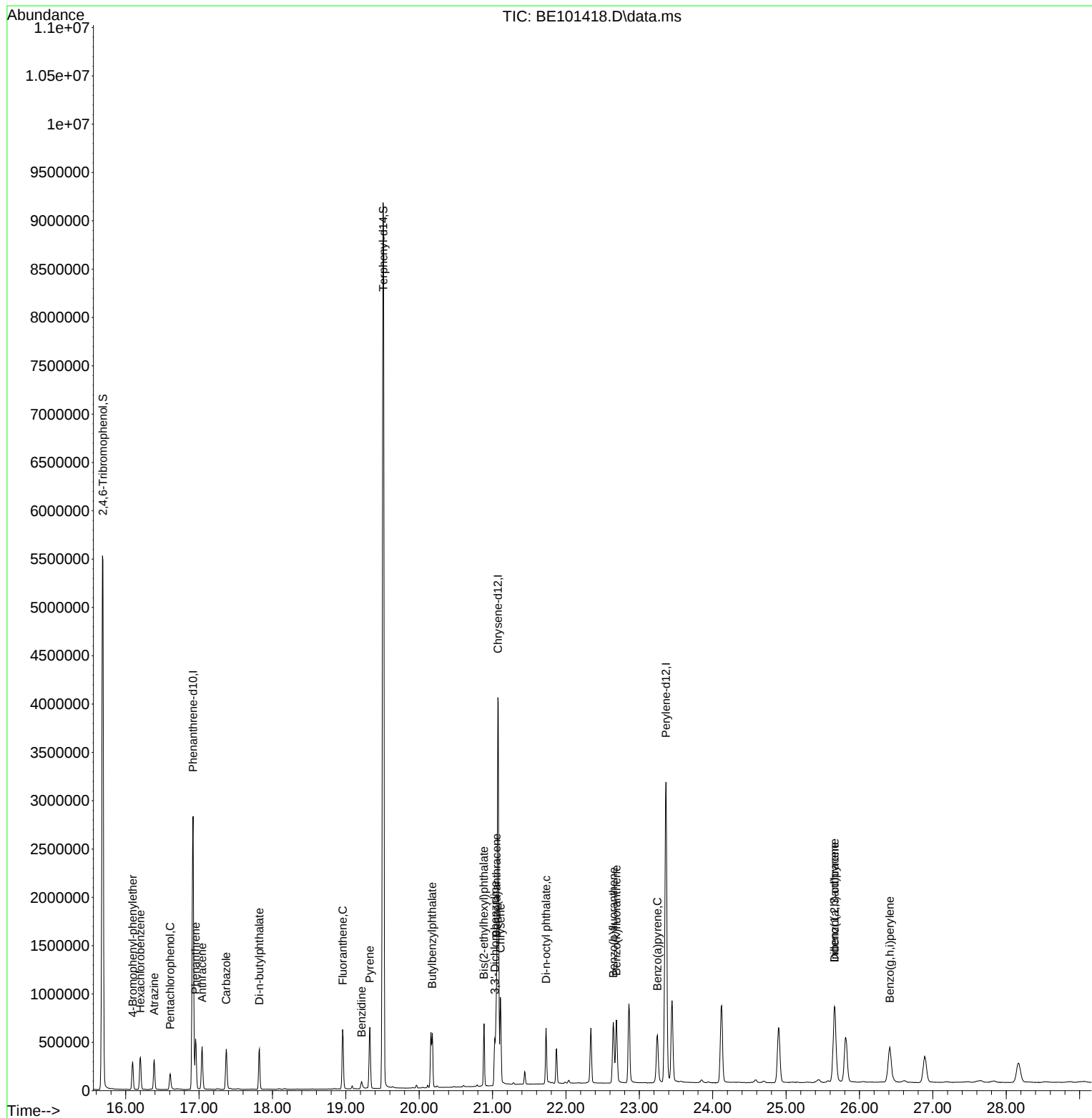
Quant Time: Oct 30 12:05:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_E\Methods\8270-BE102824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 29 01:26:30 2024  
 Response via : Initial Calibration

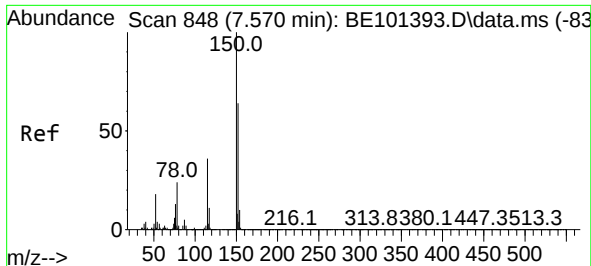


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Sample : P4368-03  
Misc : MDL-MDL-SOIL 4 PPM  
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Instrument :  
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QLast Update : Tue Oct 29 01:26:30 2024  
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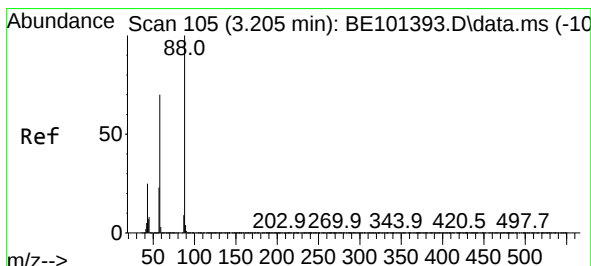
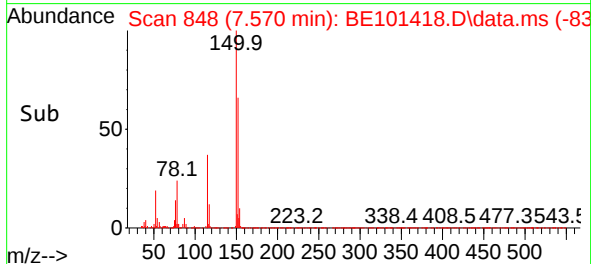
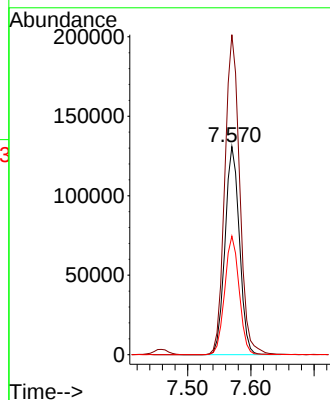
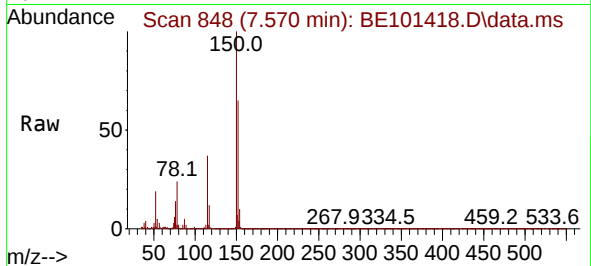




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.570 min Scan# 84  
 Delta R.T. -0.000 min  
 Lab File: BE101418.D  
 Acq: 30 Oct 2024 11:11

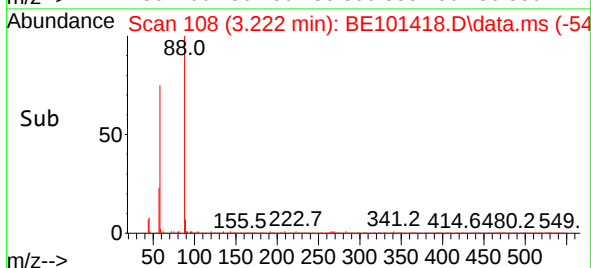
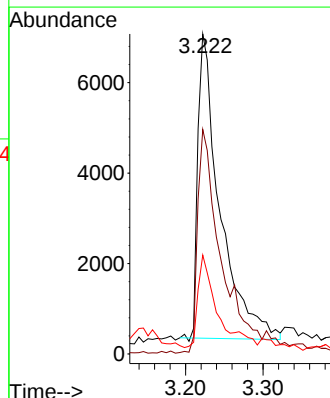
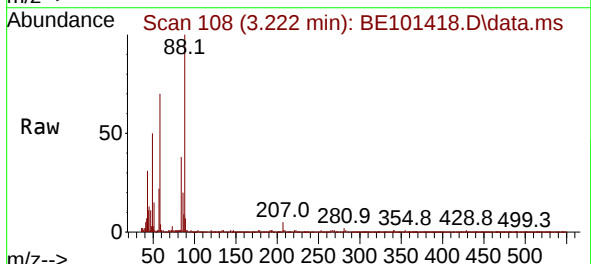
Instrument :  
 BNA\_E  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2024

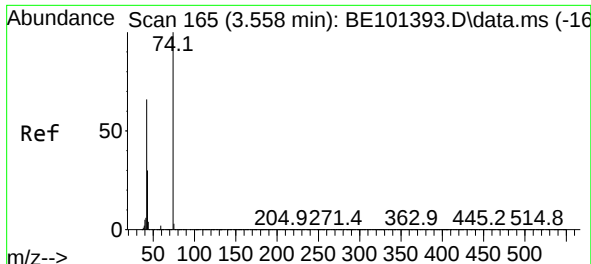
Tgt Ion:152 Resp: 206952  
 Ion Ratio Lower Upper  
 152 100  
 150 153.7 124.2 186.4  
 115 56.9 45.3 67.9



#2  
 1,4-Dioxane  
 Concen: 3.013 ng  
 RT: 3.222 min Scan# 108  
 Delta R.T. 0.017 min  
 Lab File: BE101418.D  
 Acq: 30 Oct 2024 11:11

Tgt Ion: 88 Resp: 13268  
 Ion Ratio Lower Upper  
 88 100  
 58 77.4 56.5 84.7  
 43 27.7 19.8 29.8

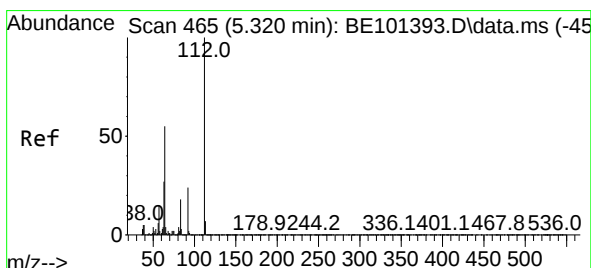
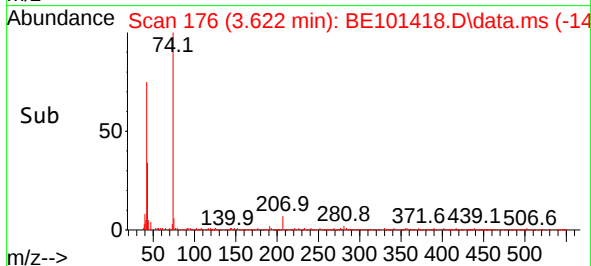
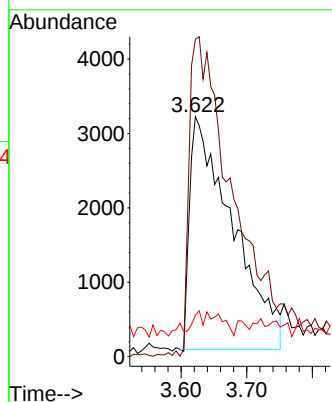
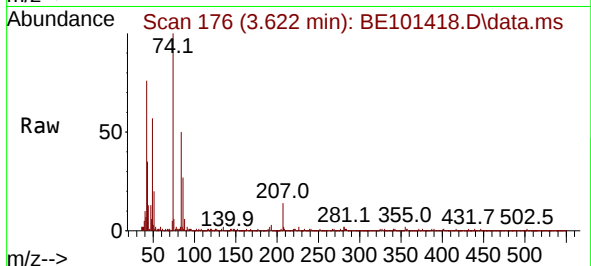




#4  
n-Nitrosodimethylamine  
Concen: 2.945 ng  
RT: 3.622 min Scan# 11  
Delta R.T. 0.064 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

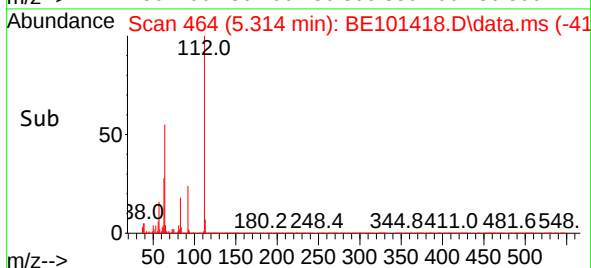
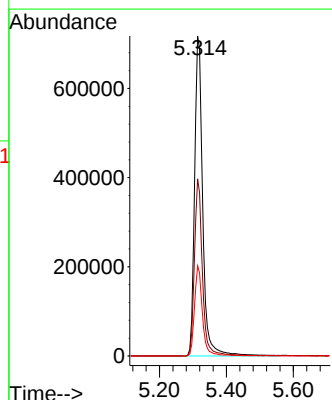
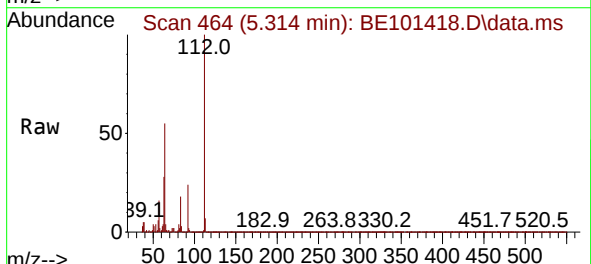
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

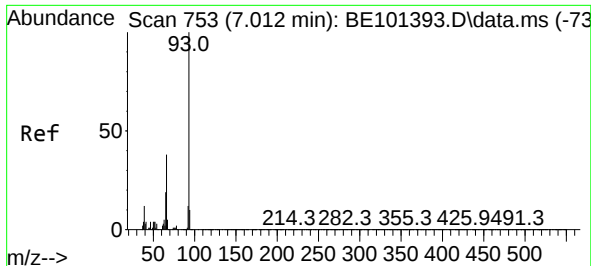
Tgt Ion: 42 Resp: 14200  
Ion Ratio Lower Upper  
42 100  
74 132.1 121.4 182.0  
44 17.2 5.6 8.4#



#5  
2-Fluorophenol  
Concen: 102.918 ng  
RT: 5.314 min Scan# 464  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion: 112 Resp: 1215241  
Ion Ratio Lower Upper  
112 100  
64 55.4 43.7 65.5  
63 28.1 21.4 32.2

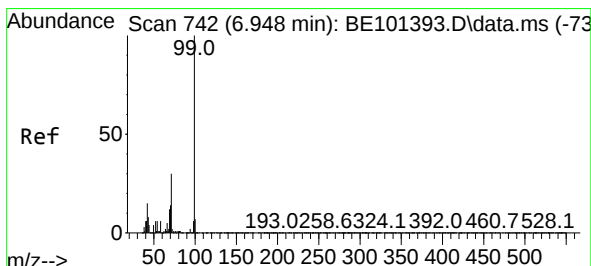
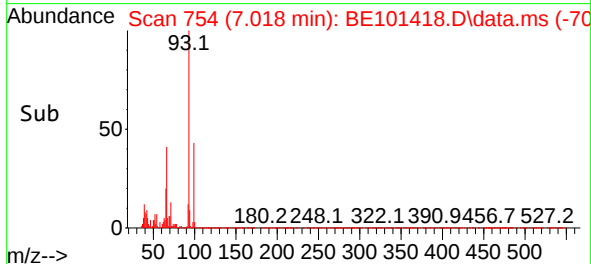
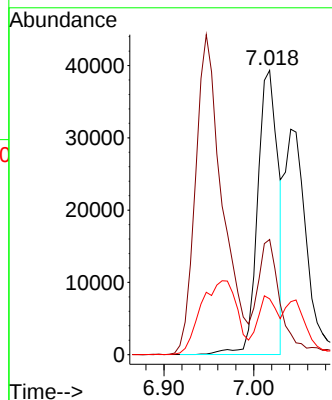
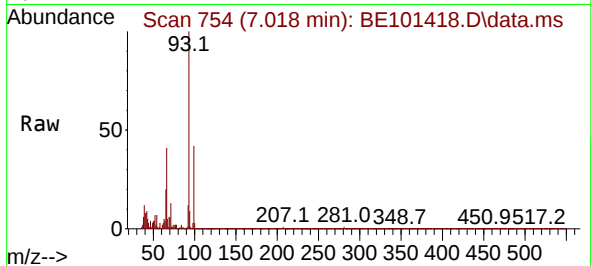




#6  
Aniline  
Concen: 4.966 ng  
RT: 7.018 min Scan# 754  
Delta R.T. 0.005 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

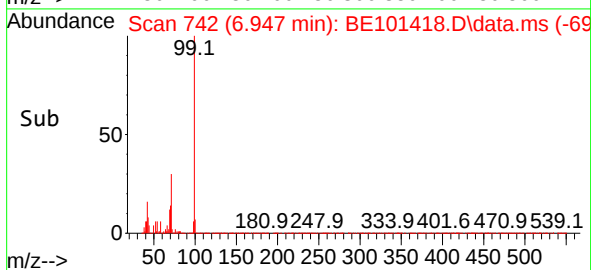
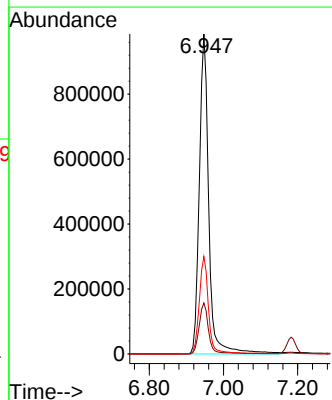
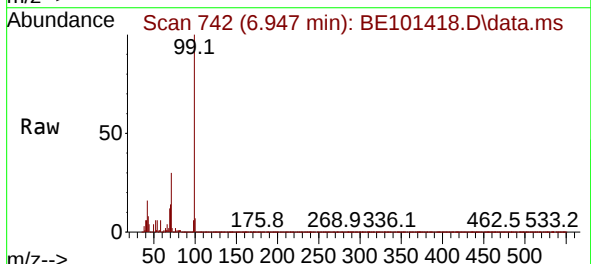
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

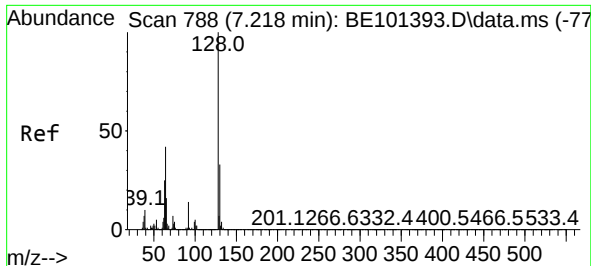
Tgt Ion: 93 Resp: 62313  
Ion Ratio Lower Upper  
93 100  
66 40.5 31.0 46.4  
65 19.6 15.5 23.3



#7  
Phenol-d6  
Concen: 106.052 ng  
RT: 6.947 min Scan# 742  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion: 99 Resp: 1736362  
Ion Ratio Lower Upper  
99 100  
42 15.9 12.3 18.5  
71 30.5 23.8 35.8

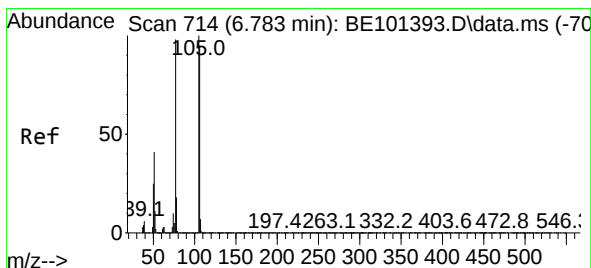
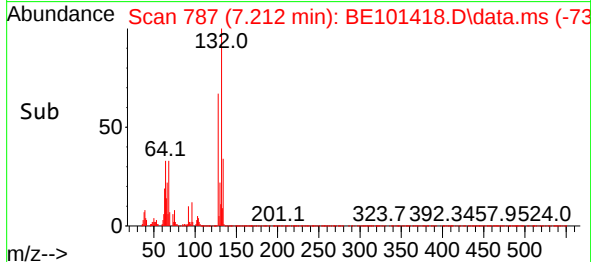
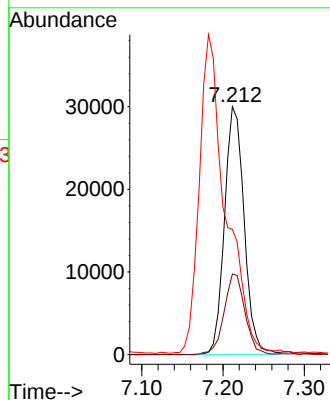
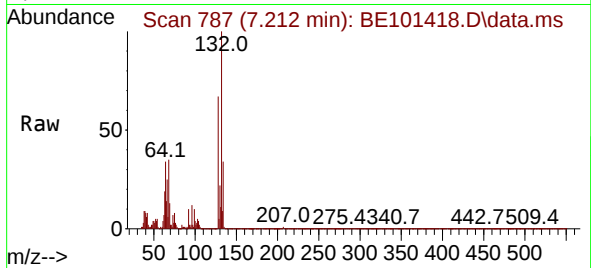




#8  
2-Chlorophenol  
Concen: 3.570 ng  
RT: 7.212 min Scan# 715  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

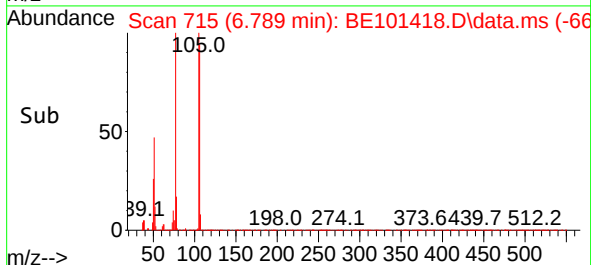
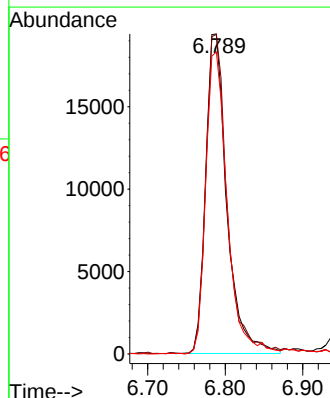
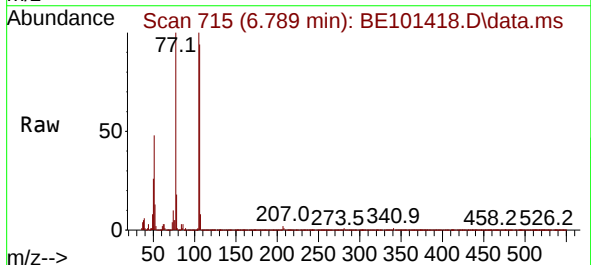
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

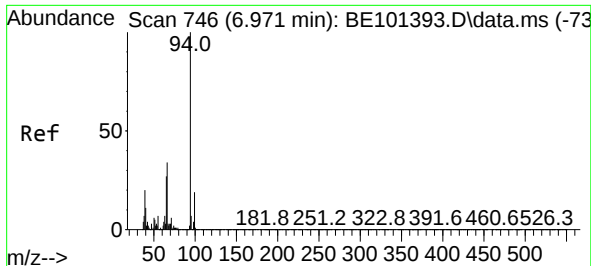
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 50566 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 130       | 32.5  | 12.9  | 52.9  |
| 64        | 50.6  | 22.3  | 62.3  |



#9  
Benzaldehyde  
Concen: 4.649 ng  
RT: 6.789 min Scan# 715  
Delta R.T. 0.005 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 77    | Resp: | 36748 |
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 105       | 99.8  | 81.9  | 121.9 |
| 106       | 94.4  | 76.5  | 116.5 |

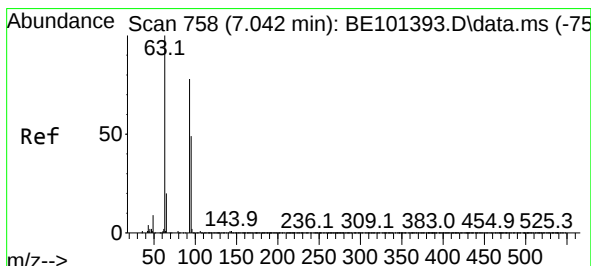
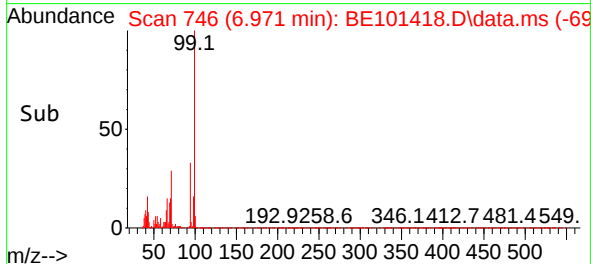
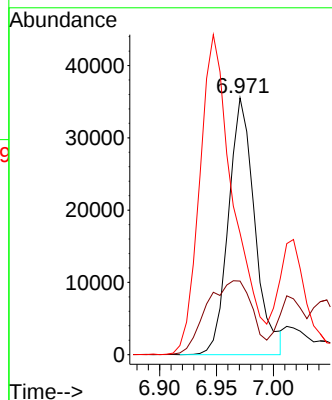
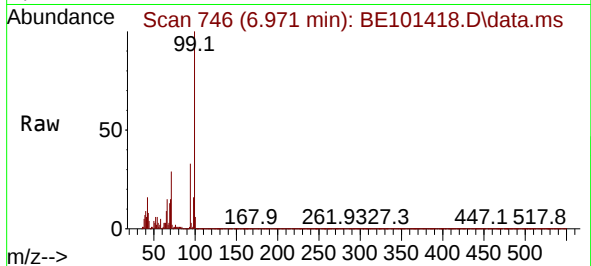




#10  
Phenol  
Concen: 3.213 ng  
RT: 6.971 min Scan# 741  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

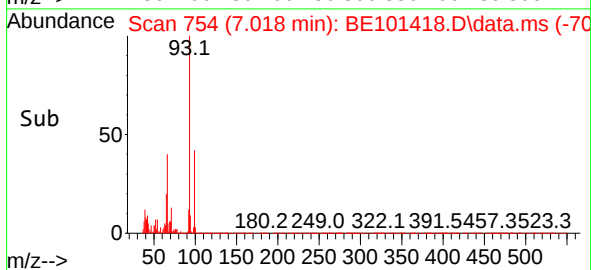
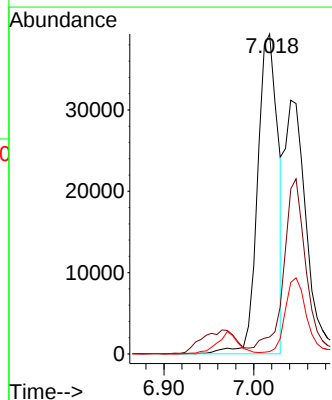
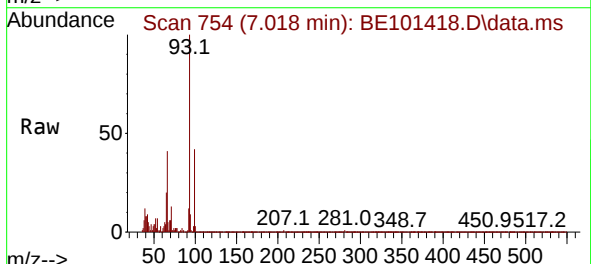
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

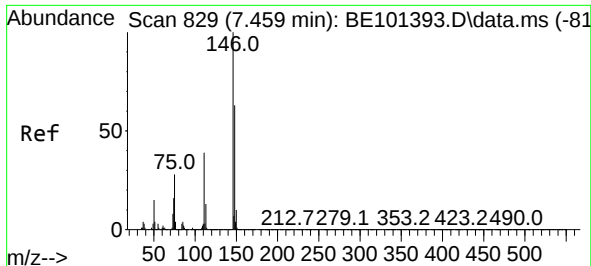
Tgt Ion: 94 Resp: 57086  
Ion Ratio Lower Upper  
94 100  
65 28.7 6.8 46.8  
66 47.4 14.0 54.0



#11  
bis(2-Chloroethyl)ether  
Concen: 4.276 ng  
RT: 7.018 min Scan# 754  
Delta R.T. -0.024 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion: 93 Resp: 62313  
Ion Ratio Lower Upper  
93 100  
63 5.3 46.3 86.3#  
95 0.8 9.6 49.6#





#12

1,3-Dichlorobenzene

Concen: 3.542 ng

RT: 7.458 min Scan# 81

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

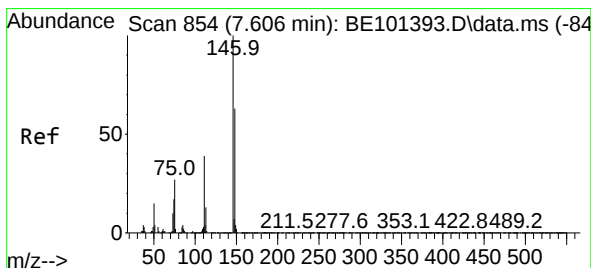
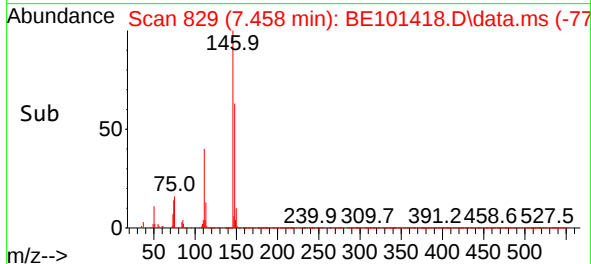
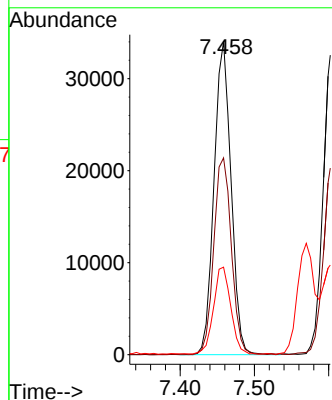
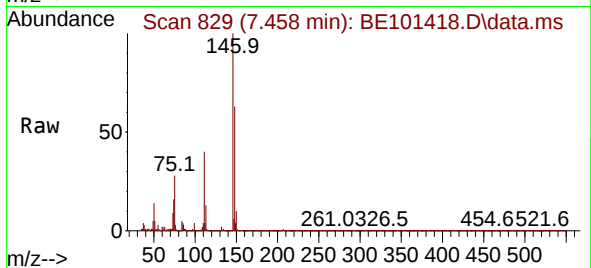
Tgt Ion:146 Resp: 54083

Ion Ratio Lower Upper

146 100

148 62.8 50.5 75.7

75 28.0 22.0 33.0



#13

1,4-Dichlorobenzene

Concen: 3.515 ng

RT: 7.605 min Scan# 854

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

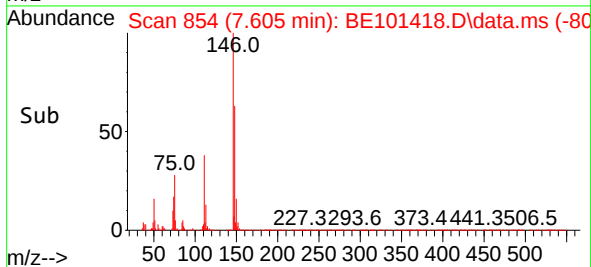
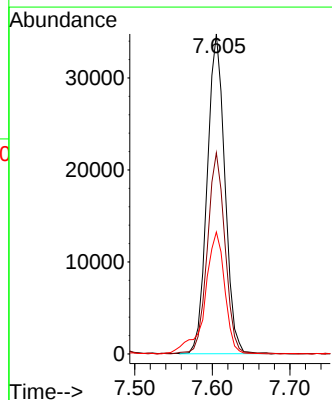
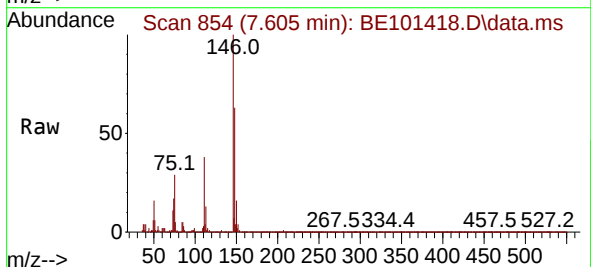
Tgt Ion:146 Resp: 54808

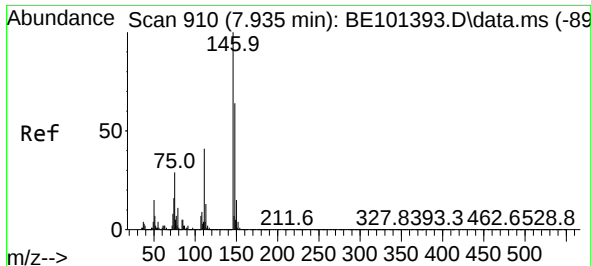
Ion Ratio Lower Upper

146 100

148 62.8 50.2 75.2

111 38.1 31.6 47.4





#14

1,2-Dichlorobenzene

Concen: 3.531 ng

RT: 7.934 min Scan# 910

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

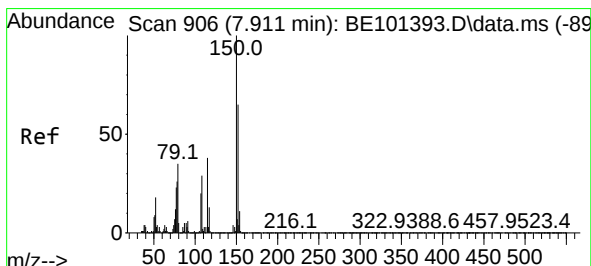
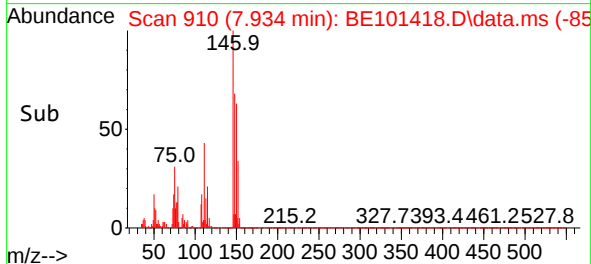
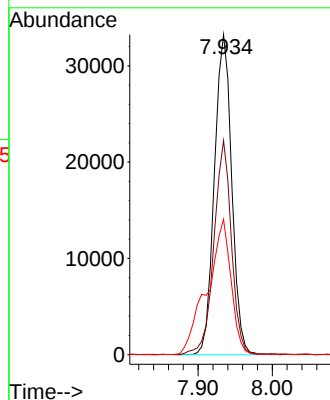
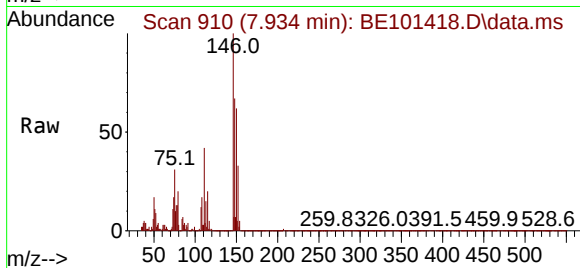
Tgt Ion:146 Resp: 53907

Ion Ratio Lower Upper

146 100

148 66.9 51.4 77.2

111 42.3 32.8 49.2



#15

Benzyl Alcohol

Concen: 4.717 ng

RT: 7.911 min Scan# 906

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

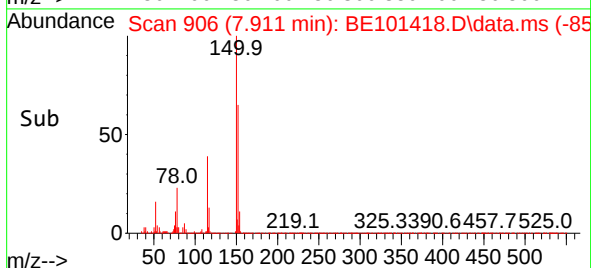
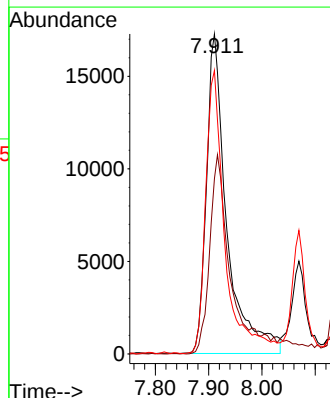
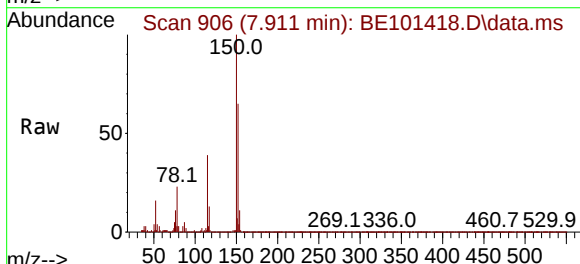
Tgt Ion: 79 Resp: 46038

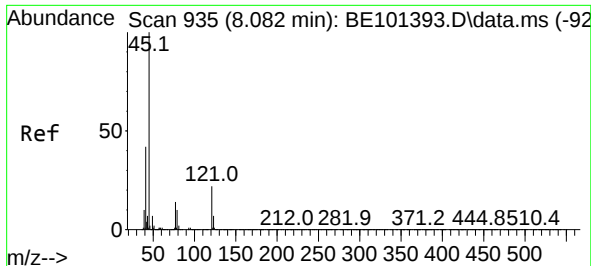
Ion Ratio Lower Upper

79 100

108 54.8 66.1 99.1#

77 88.6 53.1 79.7#

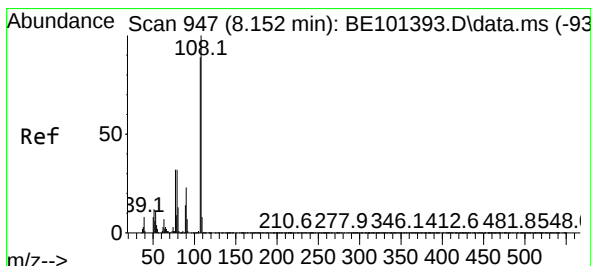
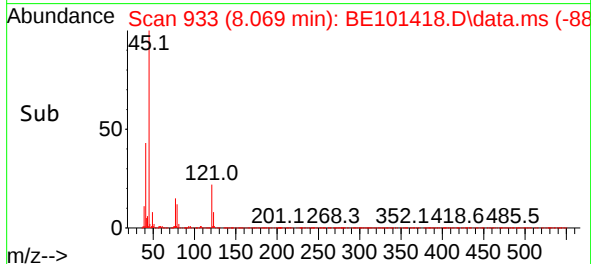
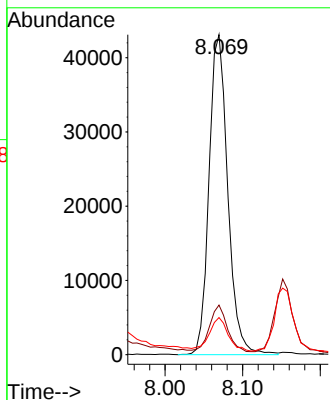
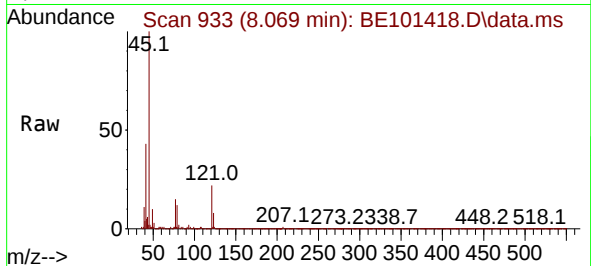




#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 3.947 ng  
RT: 8.069 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

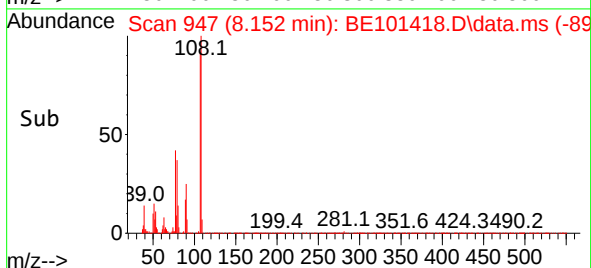
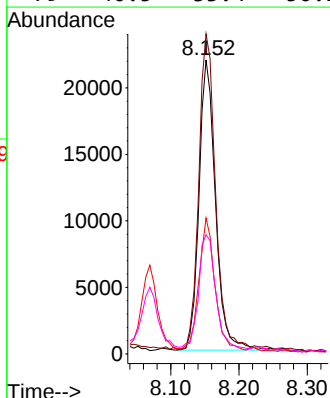
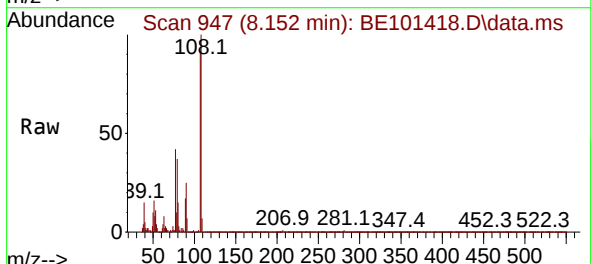
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

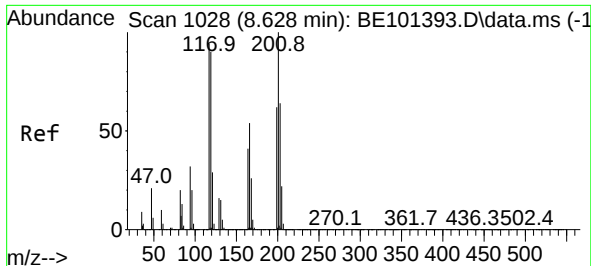
Tgt Ion: 45 Resp: 72380  
Ion Ratio Lower Upper  
45 100  
77 15.5 0.0 34.5  
79 11.6 0.0 31.8



#17  
2-Methylphenol  
Concen: 3.045 ng  
RT: 8.152 min Scan# 947  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion: 107 Resp: 36606  
Ion Ratio Lower Upper  
107 100  
108 108.8 90.0 135.0  
77 46.2 34.2 51.4  
79 40.5 33.4 50.2

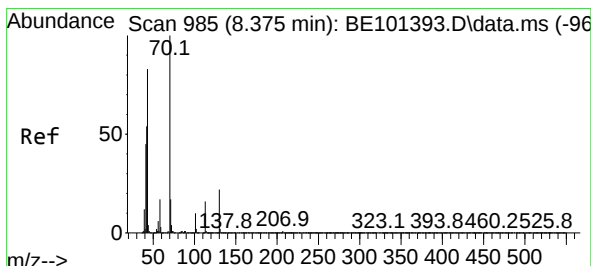
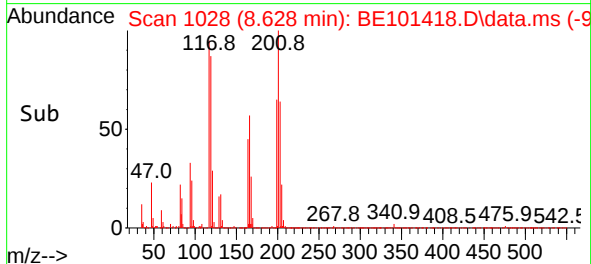
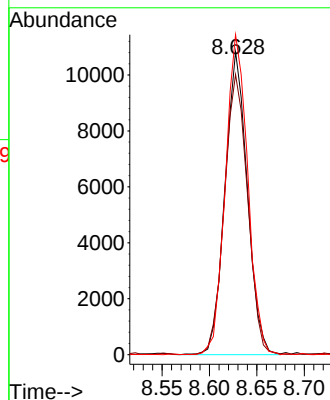
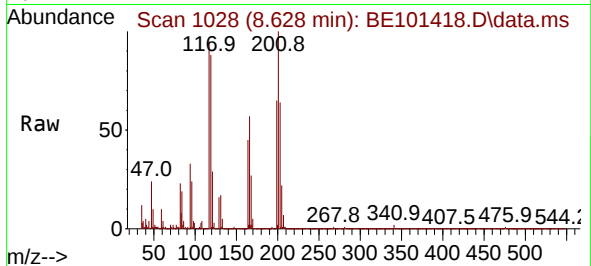




#18  
Hexachloroethane  
Concen: 3.487 ng  
RT: 8.628 min Scan# 1028  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

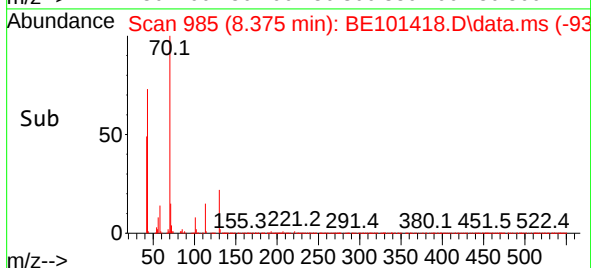
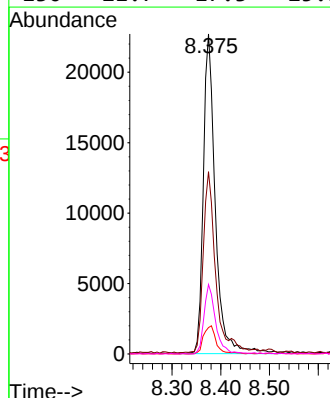
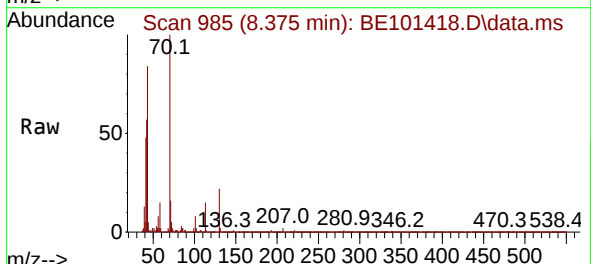
Instrument : BNA\_E  
ClientSampleId : MDL-SOIL-03-QT4-2024

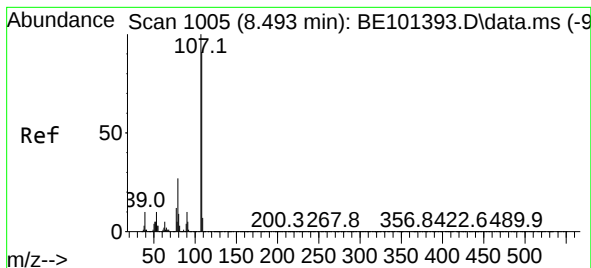
Tgt Ion:117 Resp: 17760  
Ion Ratio Lower Upper  
117 100  
119 92.4 77.0 115.4  
201 105.6 85.3 127.9



#19  
n-Nitroso-di-n-propylamine  
Concen: 3.584 ng  
RT: 8.375 min Scan# 985  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion: 70 Resp: 38944  
Ion Ratio Lower Upper  
70 100  
42 56.9 43.4 65.0  
101 8.3 8.1 12.1  
130 21.7 17.3 25.9

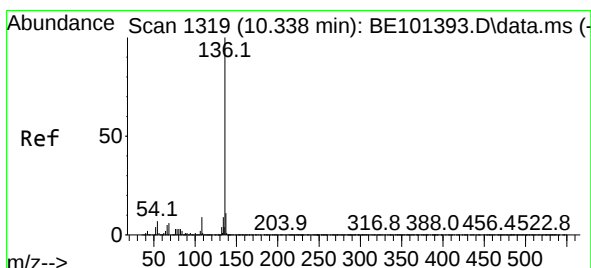
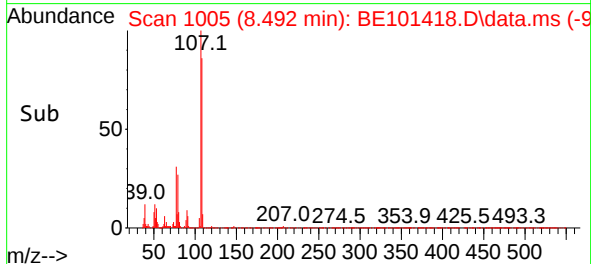
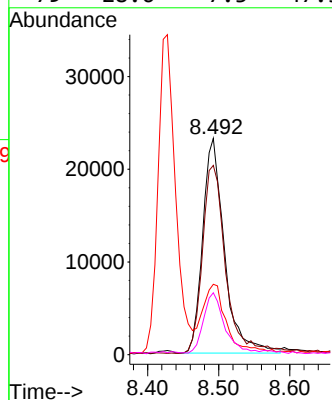
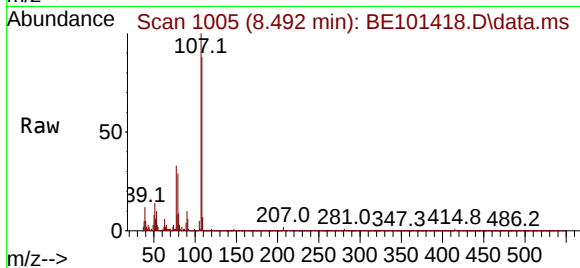




#20  
3+4-Methylphenols  
Concen: 2.979 ng  
RT: 8.492 min Scan# 1005  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

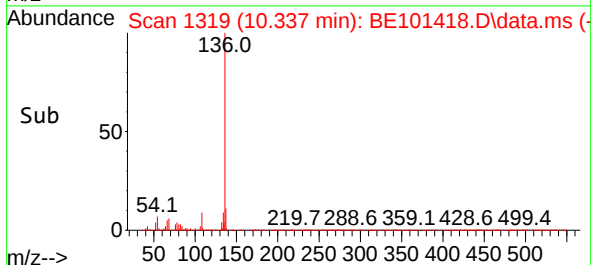
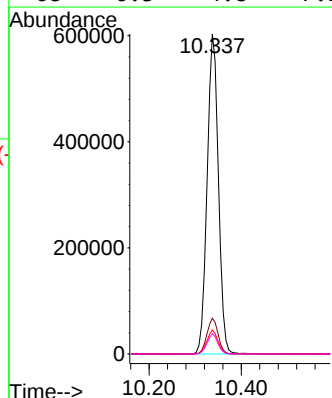
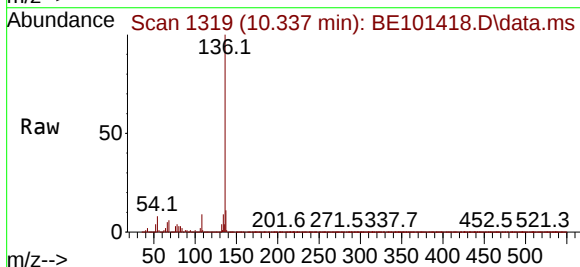
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

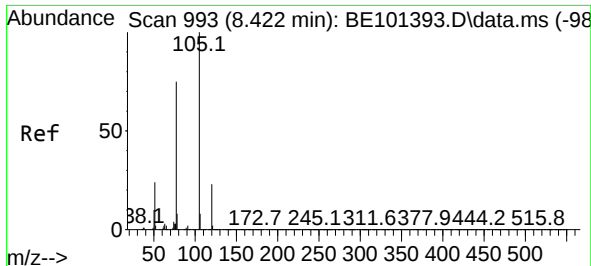
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:107 | Resp: | 49444       |
| Ion         | Ratio | Lower Upper |
| 107         | 100   |             |
| 108         | 87.5  | 70.6 110.6  |
| 77          | 32.5  | 11.3 51.3   |
| 79          | 28.6  | 7.3 47.3    |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.337 min Scan# 1319  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:136 | Resp: | 1027670     |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.2  | 9.0 13.6    |
| 54          | 7.5   | 5.9 8.9     |
| 68          | 6.3   | 4.8 7.2     |

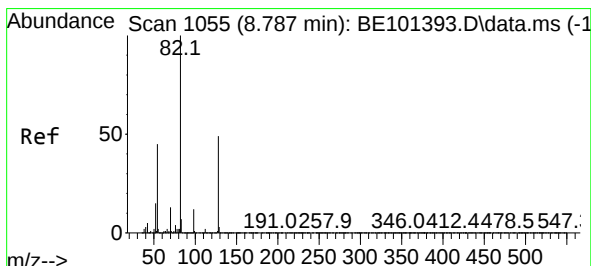
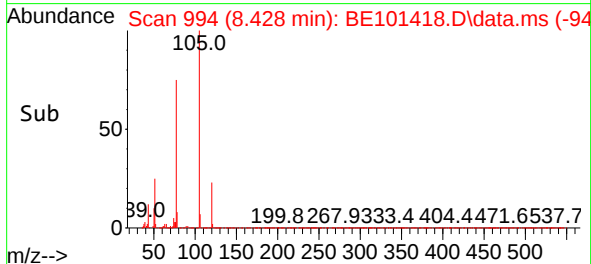
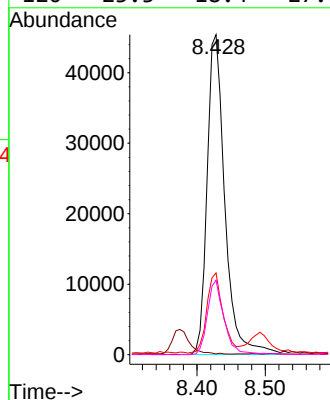
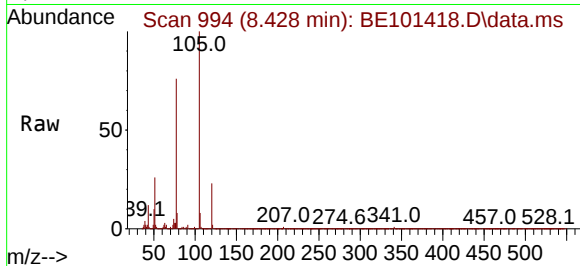




#22  
Acetophenone  
Concen: 3.514 ng  
RT: 8.428 min Scan# 993  
Delta R.T. 0.005 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

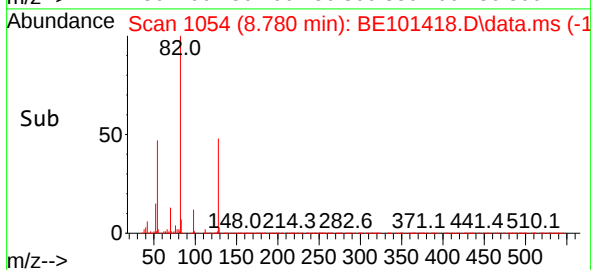
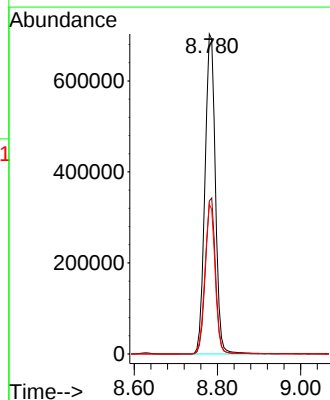
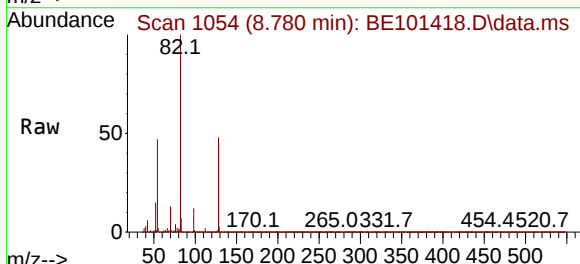
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

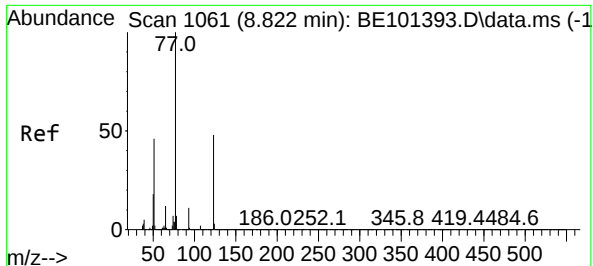
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 82002 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 0.2   | 0.1   | 0.1#  |
| 51       | 25.5  | 19.4  | 29.0  |
| 120      | 23.3  | 18.4  | 27.6  |



#23  
Nitrobenzene-d5  
Concen: 74.781 ng  
RT: 8.780 min Scan# 1054  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1223551 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 47.8  | 38.9  | 58.3    |
| 54       | 46.8  | 36.2  | 54.4    |

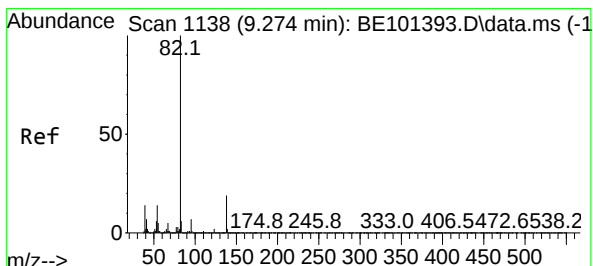
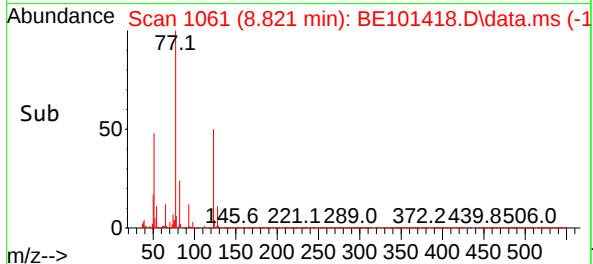
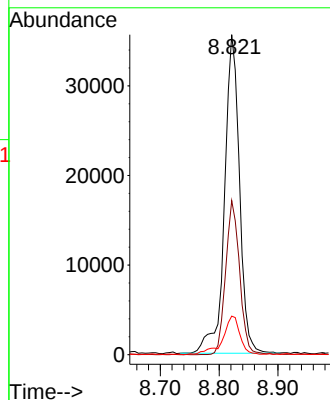
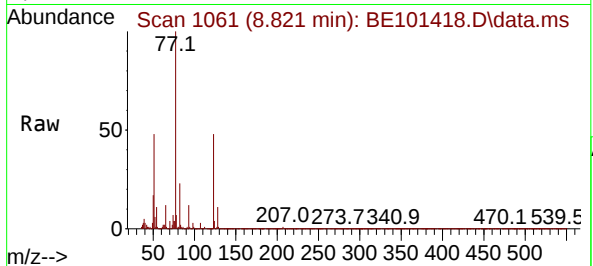




#24  
Nitrobenzene  
Concen: 3.616 ng  
RT: 8.821 min Scan# 1061  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

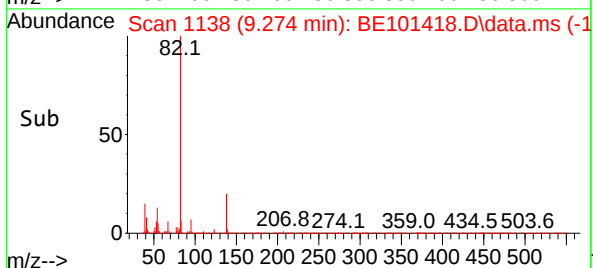
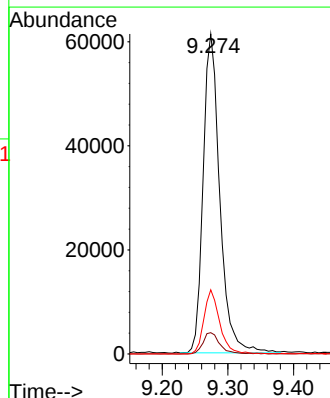
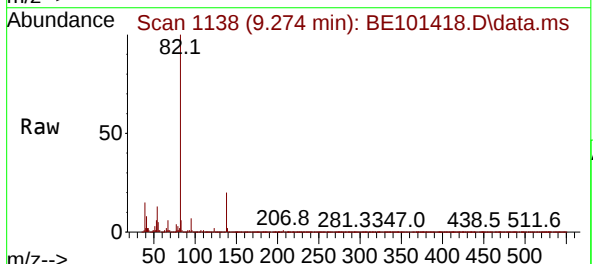
Instrument : BNA\_E  
ClientSampleId : MDL-SOIL-03-QT4-2024

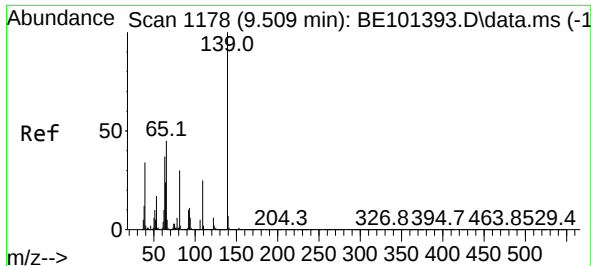
Tgt Ion: 77 Resp: 62974  
Ion Ratio Lower Upper  
77 100  
123 48.2 38.7 58.1  
65 12.1 10.0 15.0



#25  
Isophorone  
Concen: 3.391 ng  
RT: 9.274 min Scan# 1138  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion: 82 Resp: 108258  
Ion Ratio Lower Upper  
82 100  
95 6.6 5.5 8.3  
138 20.0 15.0 22.4

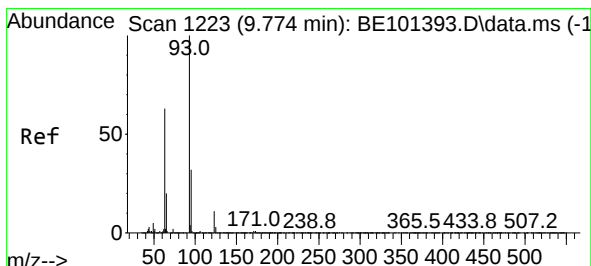
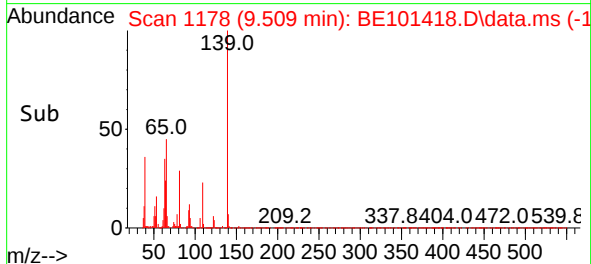
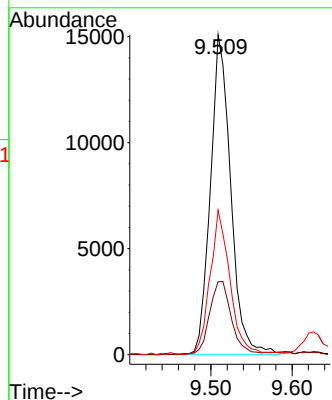
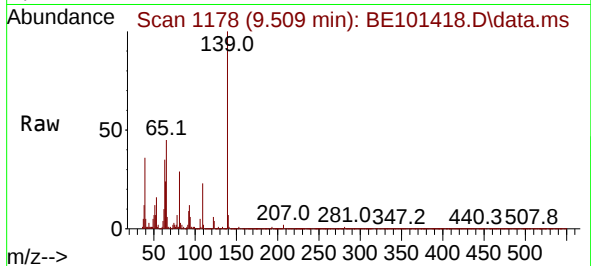




#26  
2-Nitrophenol  
Concen: 3.104 ng  
RT: 9.509 min Scan# 1178  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

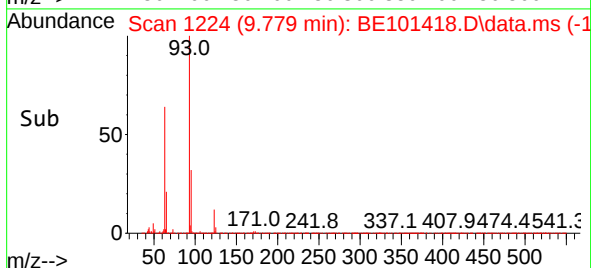
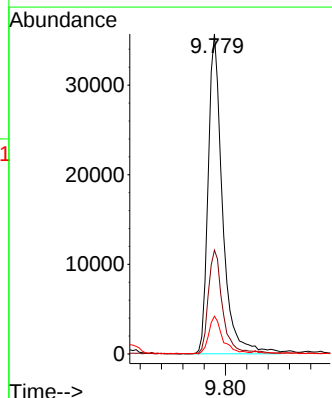
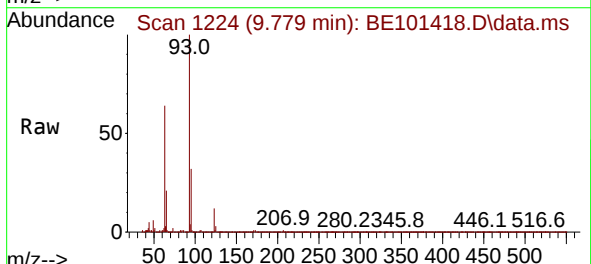
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

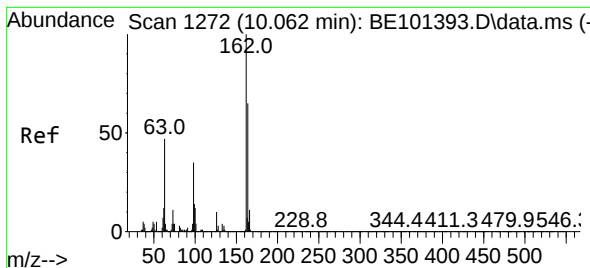
Tgt Ion:139 Resp: 26126  
Ion Ratio Lower Upper  
139 100  
109 22.8 20.1 30.1  
65 45.1 36.0 54.0



#28  
bis(2-Chloroethoxy)methane  
Concen: 3.438 ng  
RT: 9.779 min Scan# 1224  
Delta R.T. 0.005 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion: 93 Resp: 66577  
Ion Ratio Lower Upper  
93 100  
95 32.5 25.8 38.6  
123 11.8 8.6 13.0





#29

2,4-Dichlorophenol

Concen: 3.134 ng

RT: 10.055 min Scan# 1271

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

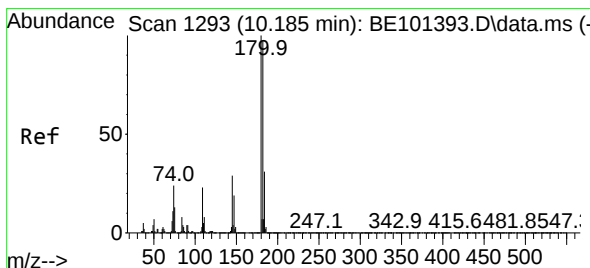
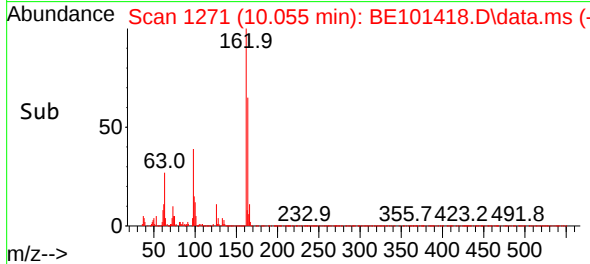
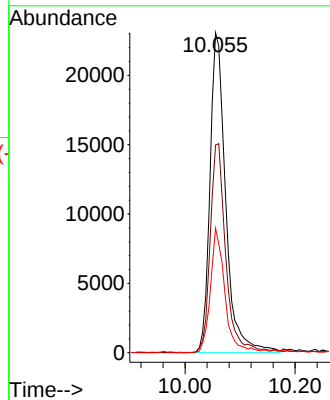
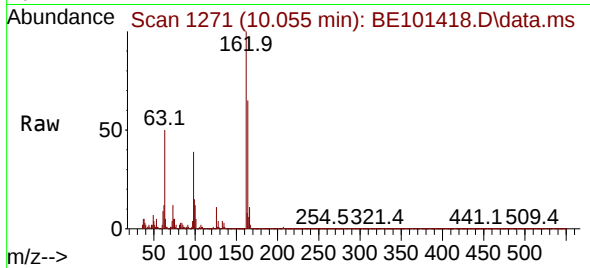
Tgt Ion:162 Resp: 45925

Ion Ratio Lower Upper

162 100

164 64.9 45.4 85.4

98 38.9 14.5 54.5



#30

1,2,4-Trichlorobenzene

Concen: 3.486 ng

RT: 10.185 min Scan# 1293

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

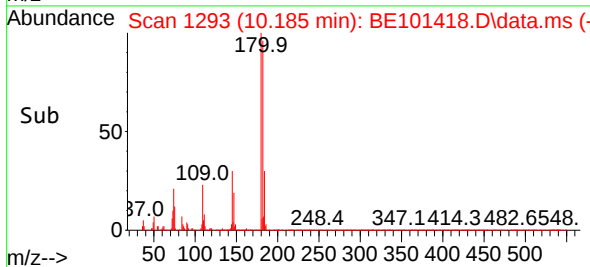
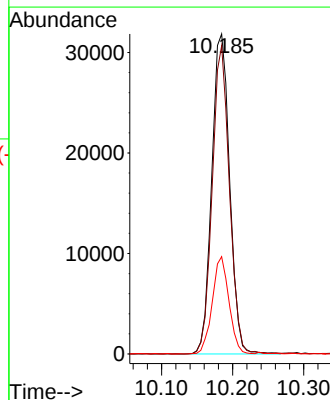
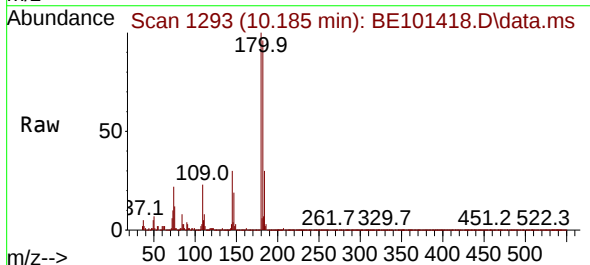
Tgt Ion:180 Resp: 55637

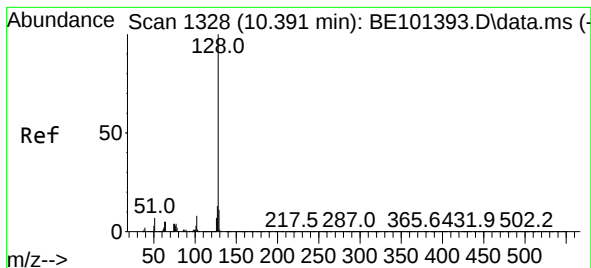
Ion Ratio Lower Upper

180 100

182 96.3 77.4 116.0

145 30.4 23.3 34.9





#31

Naphthalene

Concen: 3.462 ng

RT: 10.384 min Scan# 11

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

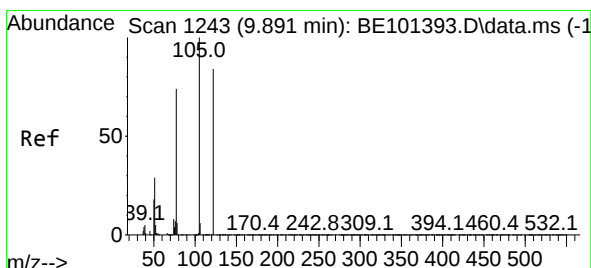
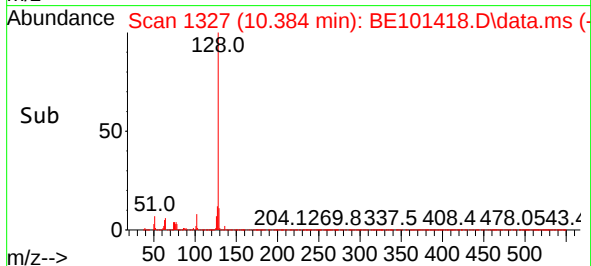
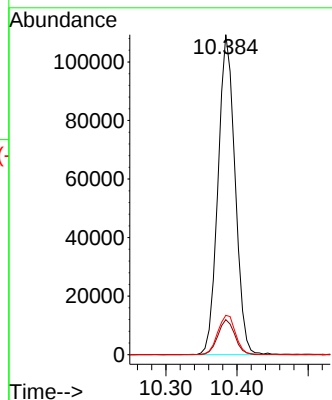
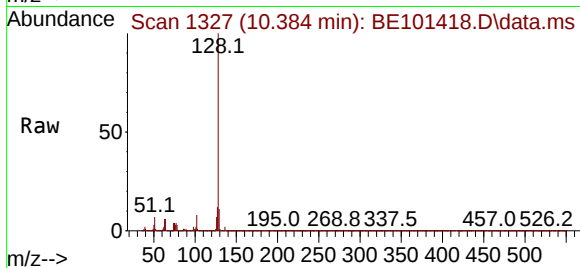
Tgt Ion:128 Resp: 181318

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

127 12.3 10.3 15.5



#32

Benzoic acid

Concen: 8.647 ng

RT: 9.826 min Scan# 1232

Delta R.T. -0.065 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

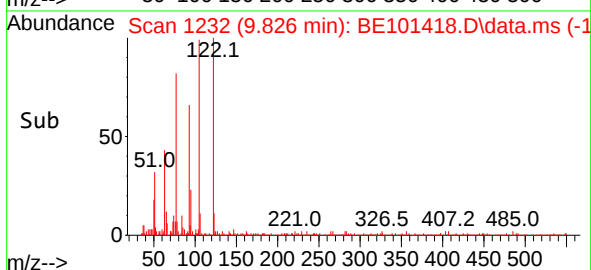
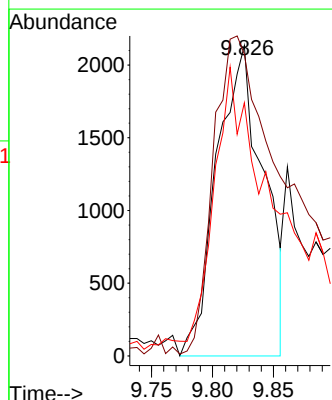
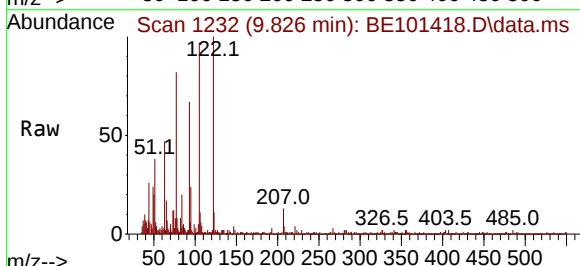
Tgt Ion:122 Resp: 5677

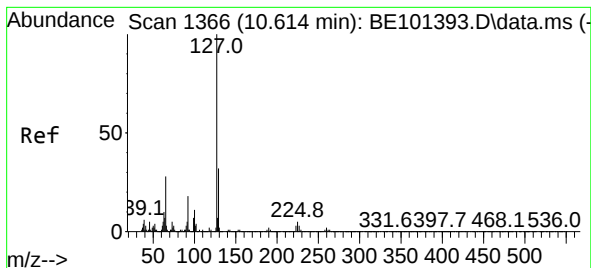
Ion Ratio Lower Upper

122 100

105 97.2 97.9 137.9

77 81.5 68.1 108.1





#33

4-Chloroaniline

Concen: 3.626 ng

RT: 10.613 min Scan# 11

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

Tgt Ion:127 Resp: 66031

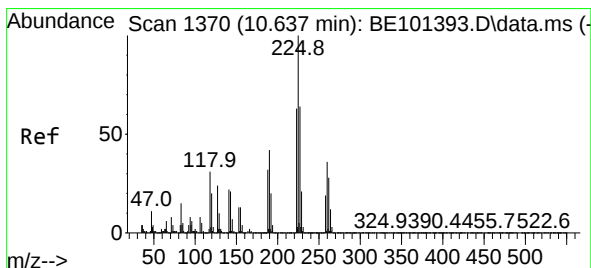
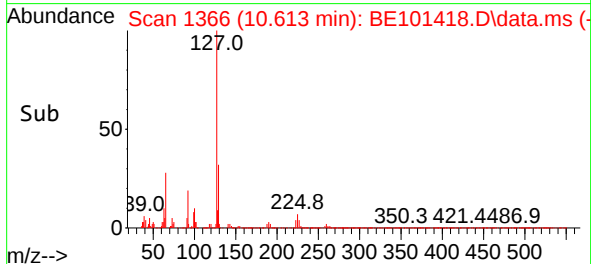
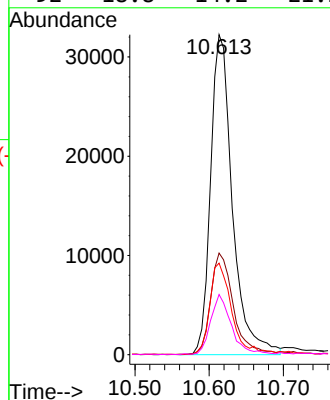
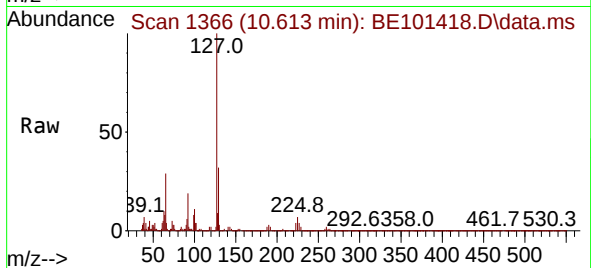
Ion Ratio Lower Upper

127 100

129 31.7 25.7 38.5

65 28.6 22.2 33.4

92 18.8 14.2 21.2



#34

Hexachlorobutadiene

Concen: 3.347 ng

RT: 10.637 min Scan# 1370

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

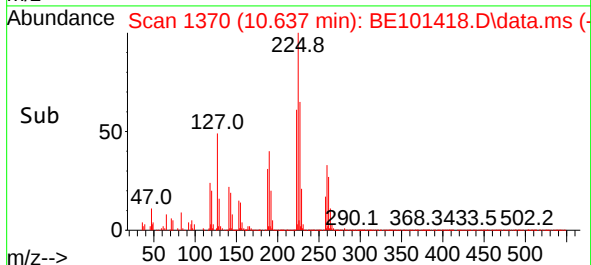
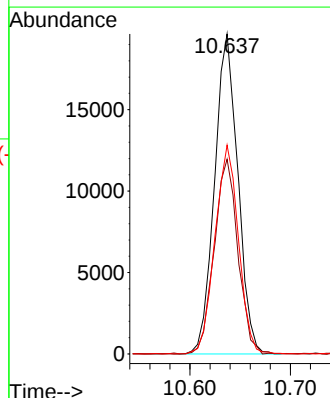
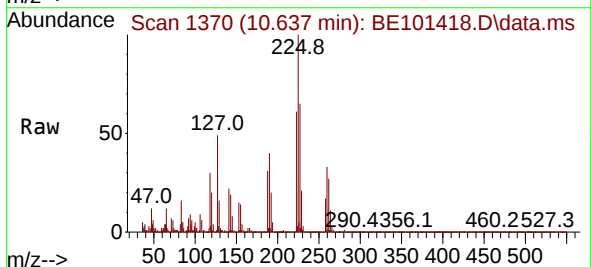
Tgt Ion:225 Resp: 31627

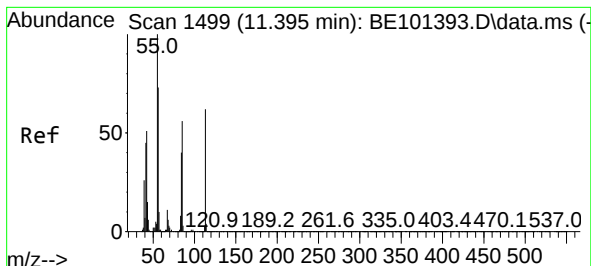
Ion Ratio Lower Upper

225 100

223 64.2 50.5 75.7

227 67.4 51.0 76.6





#35

Caprolactam

Concen: 2.475 ng

RT: 11.389 min Scan# 1499

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

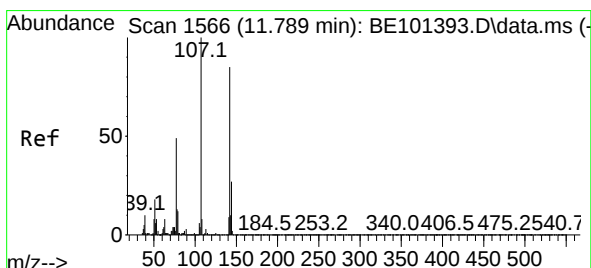
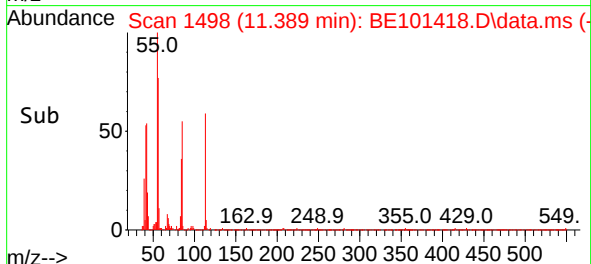
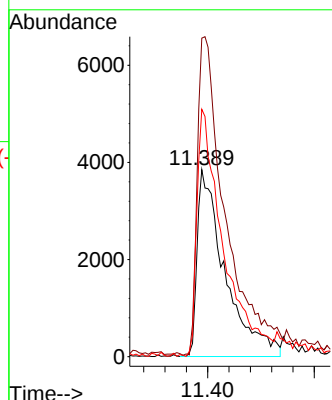
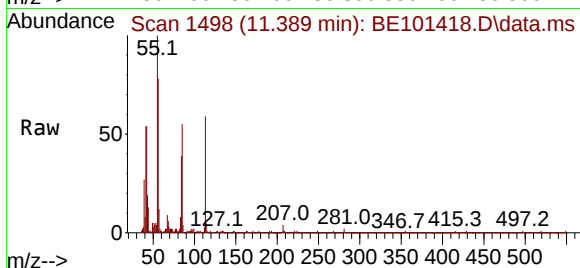
Tgt Ion:113 Resp: 13901

Ion Ratio Lower Upper

113 100

55 170.3 141.2 181.2

56 132.3 96.9 136.9



#36

4-Chloro-3-methylphenol

Concen: 2.954 ng

RT: 11.783 min Scan# 1565

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

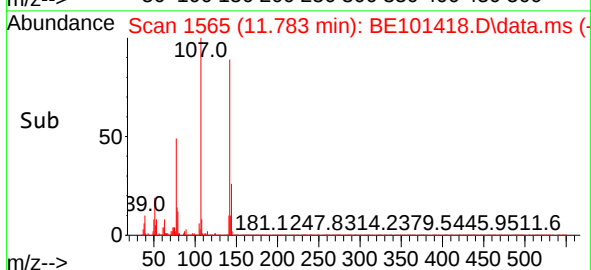
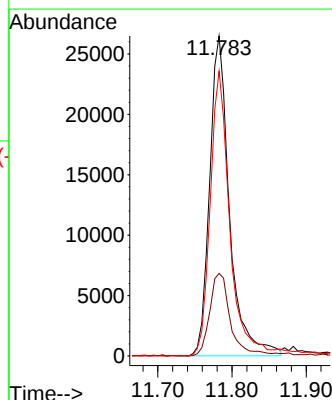
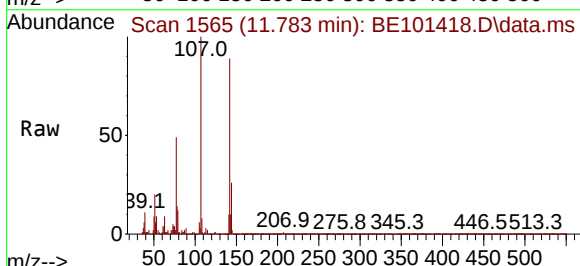
Tgt Ion:107 Resp: 49286

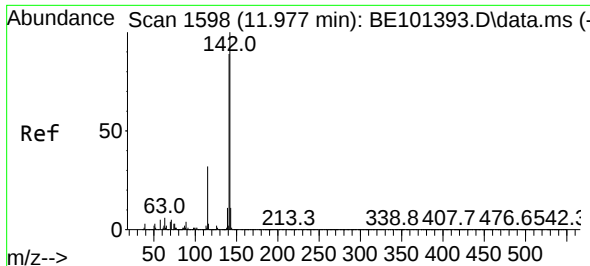
Ion Ratio Lower Upper

107 100

144 25.8 21.9 32.9

142 89.0 68.0 102.0

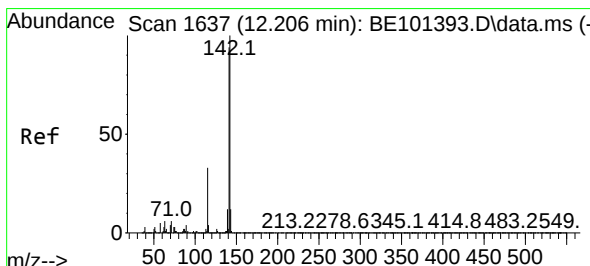
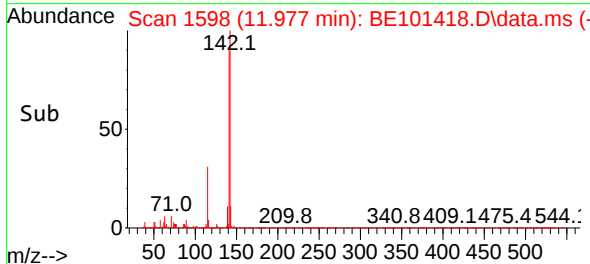
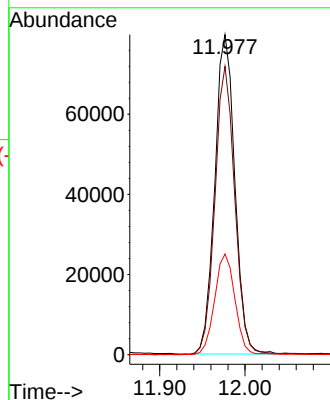
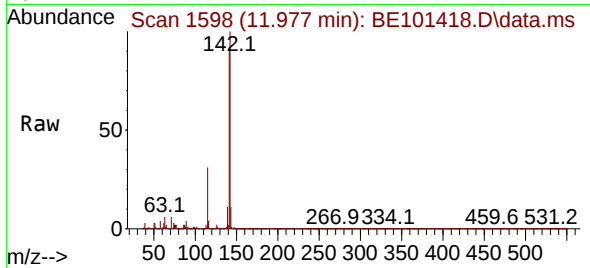




#37  
2-Methylnaphthalene  
Concen: 3.444 ng  
RT: 11.977 min Scan# 11  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

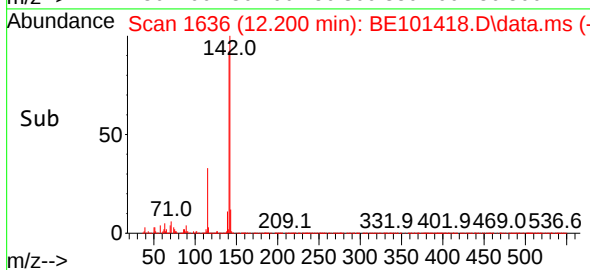
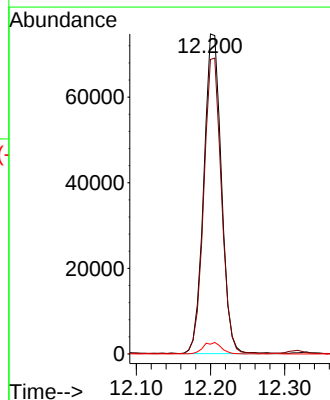
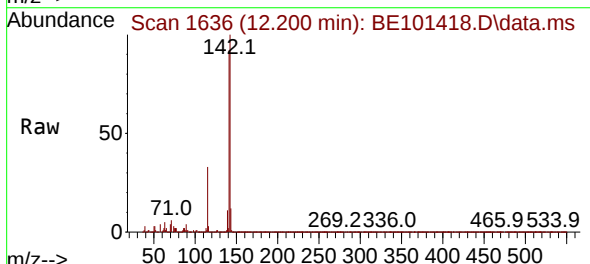
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

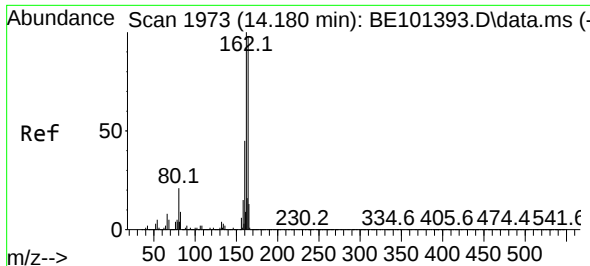
Tgt Ion:142 Resp: 129926  
Ion Ratio Lower Upper  
142 100  
141 90.1 71.4 107.2  
115 31.5 25.6 38.4



#38  
1-Methylnaphthalene  
Concen: 3.264 ng  
RT: 12.200 min Scan# 1636  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion:142 Resp: 122911  
Ion Ratio Lower Upper  
142 100  
141 92.1 75.0 112.4  
116 3.1 2.9 4.3

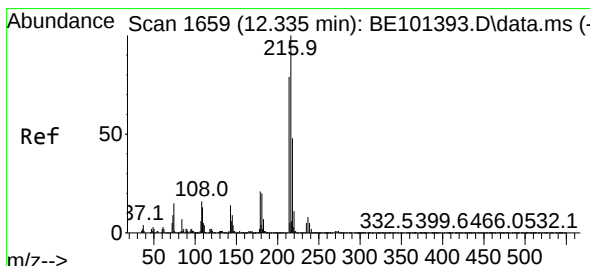
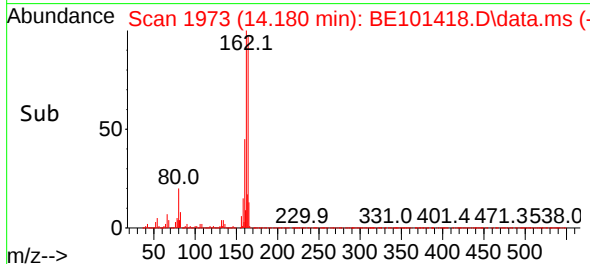
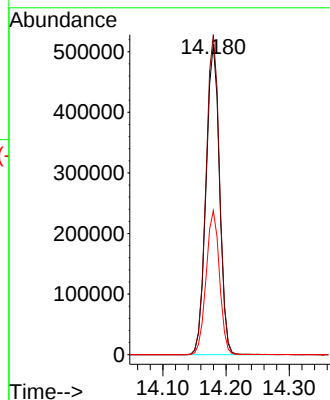
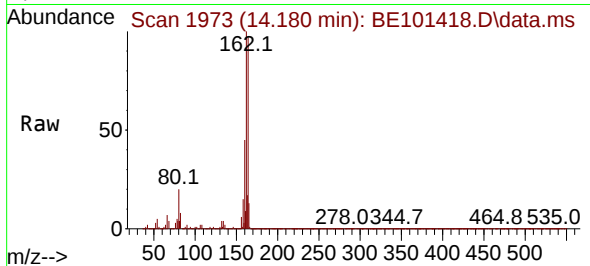




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.180 min Scan# 1973  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

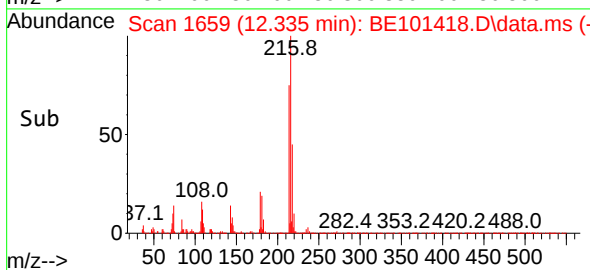
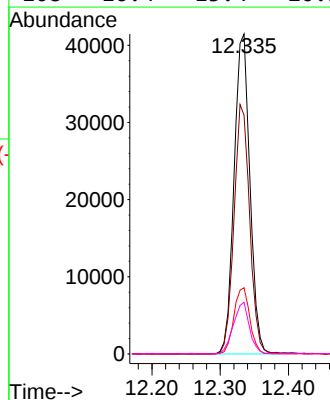
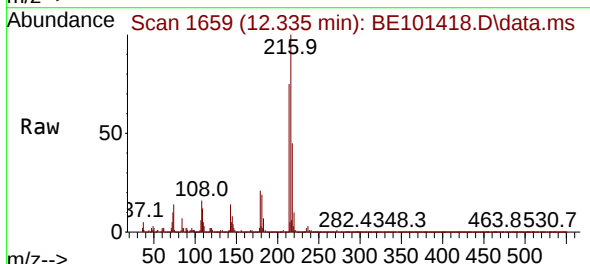
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

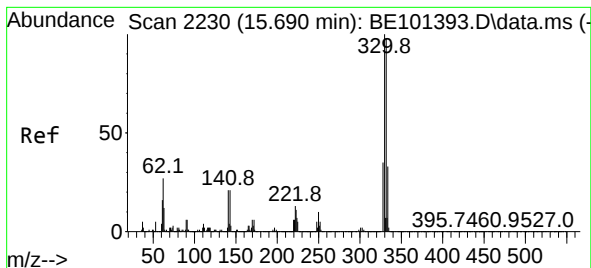
Tgt Ion:164 Resp: 755754  
Ion Ratio Lower Upper  
164 100  
162 103.1 81.3 121.9  
160 46.4 36.4 54.6



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 3.517 ng  
RT: 12.335 min Scan# 1659  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion:216 Resp: 66724  
Ion Ratio Lower Upper  
216 100  
214 77.4 63.0 94.4  
179 20.9 16.7 25.1  
108 16.4 13.4 20.2





#42

2,4,6-Tribromophenol

Concen: 107.910 ng

RT: 15.690 min Scan# 21

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

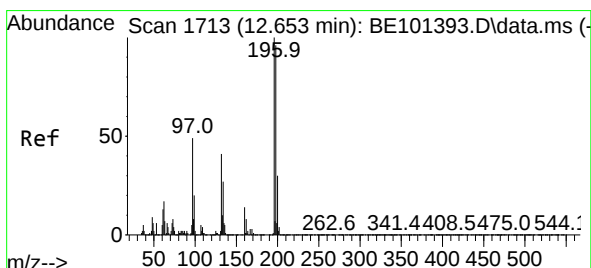
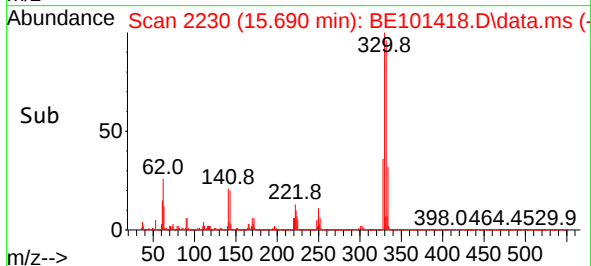
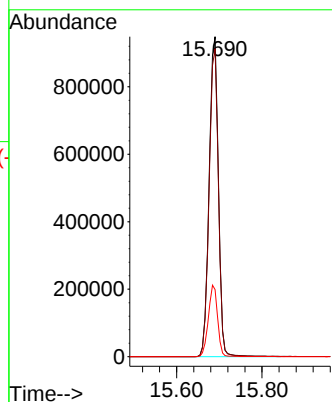
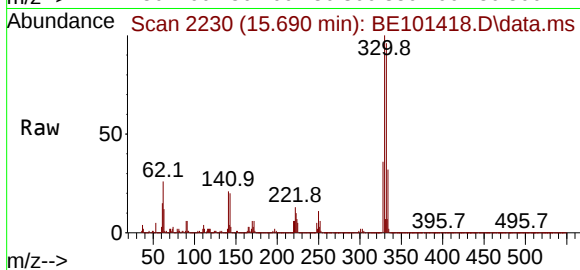
Tgt Ion:330 Resp: 1429363

Ion Ratio Lower Upper

330 100

332 96.4 78.2 117.2

141 22.3 18.3 27.5



#43

2,4,6-Trichlorophenol

Concen: 3.046 ng

RT: 12.652 min Scan# 1713

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

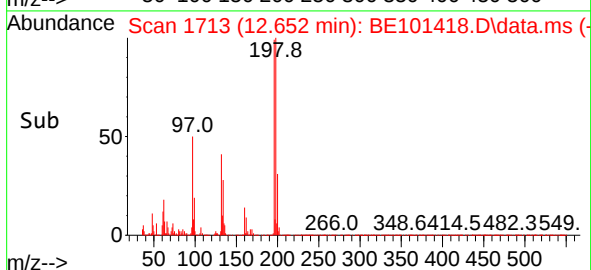
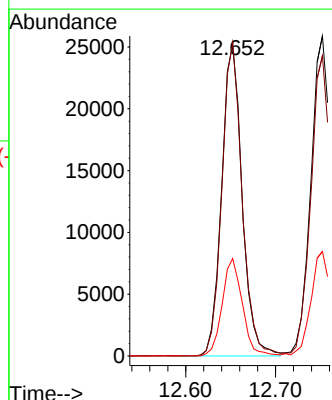
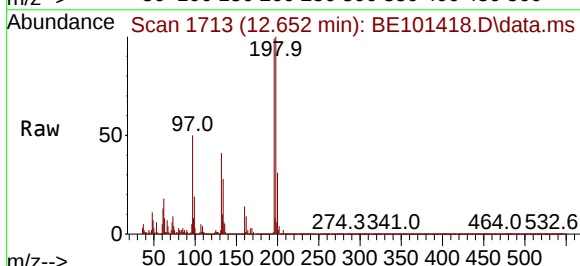
Tgt Ion:196 Resp: 39843

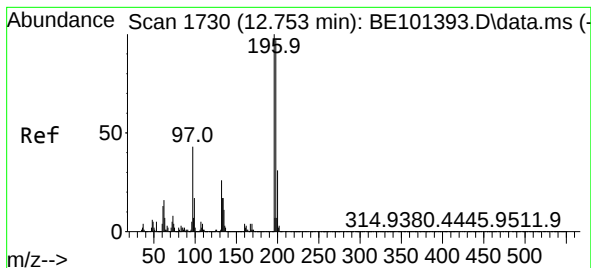
Ion Ratio Lower Upper

196 100

198 100.9 76.6 115.0

200 31.3 24.1 36.1





#44

2,4,5-Trichlorophenol

Concen: 3.012 ng

RT: 12.752 min Scan# 1730

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

Tgt Ion:196 Resp: 45115

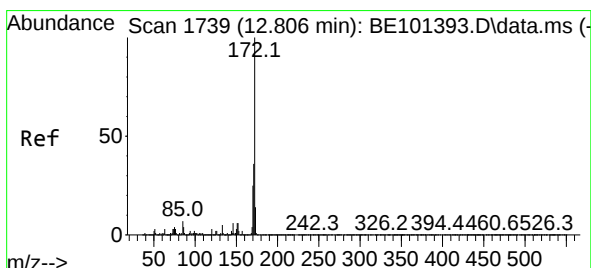
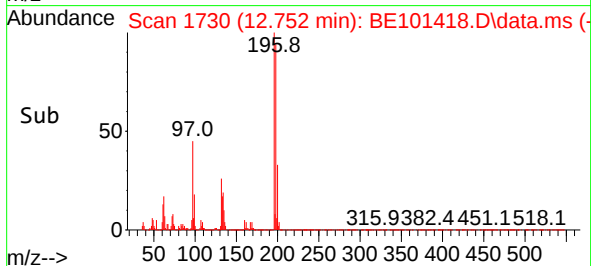
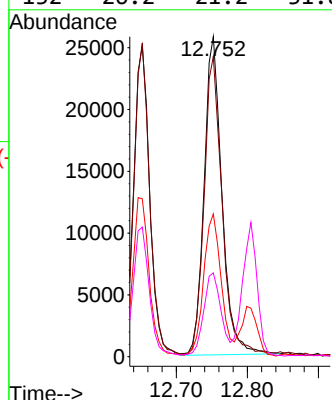
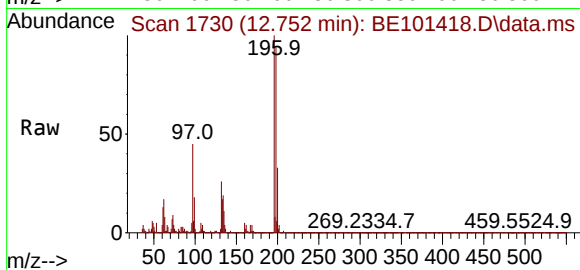
Ion Ratio Lower Upper

196 100

198 93.8 77.4 116.0

97 44.6 34.8 52.2

132 26.2 21.2 31.8



#45

2-Fluorobiphenyl

Concen: 70.183 ng

RT: 12.805 min Scan# 1739

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

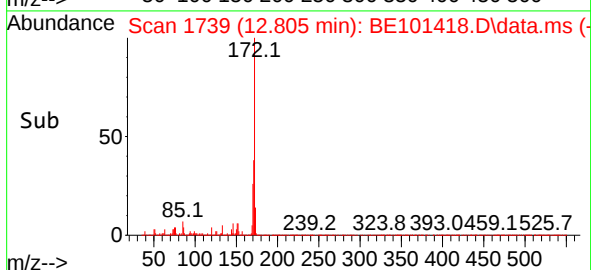
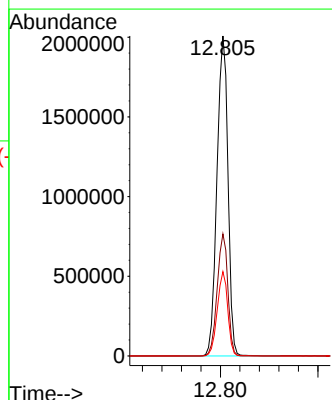
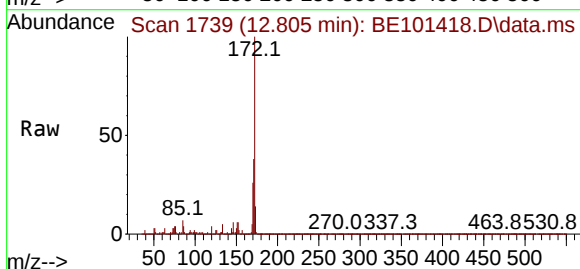
Tgt Ion:172 Resp: 3131990

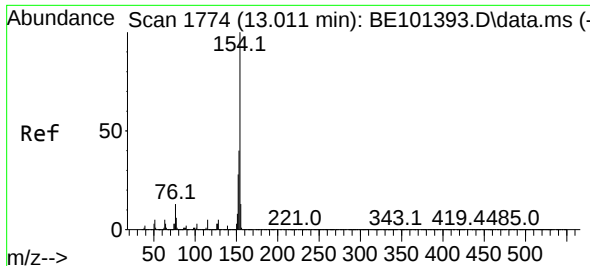
Ion Ratio Lower Upper

172 100

171 38.1 29.2 43.8

170 26.4 19.8 29.6

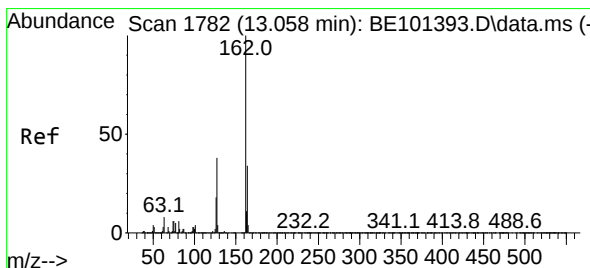
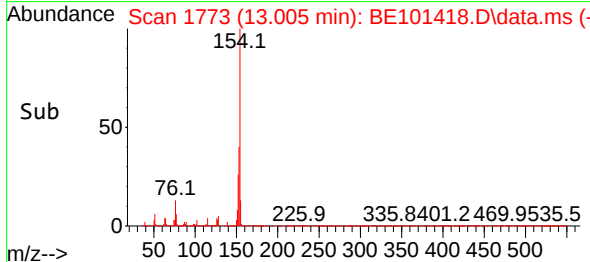
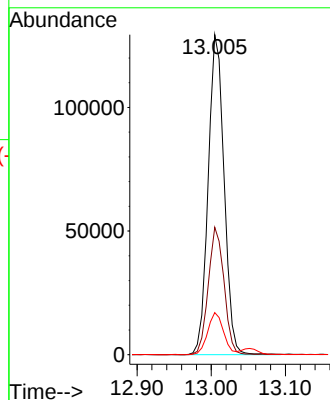
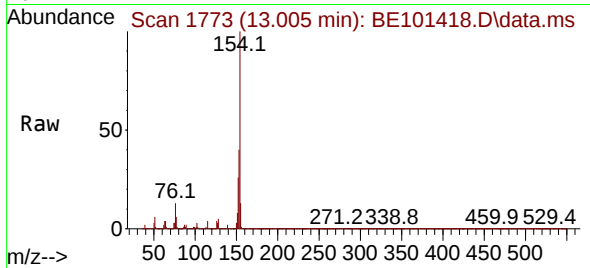




#46  
1,1'-Biphenyl  
Concen: 3.722 ng  
RT: 13.005 min Scan# 1773  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

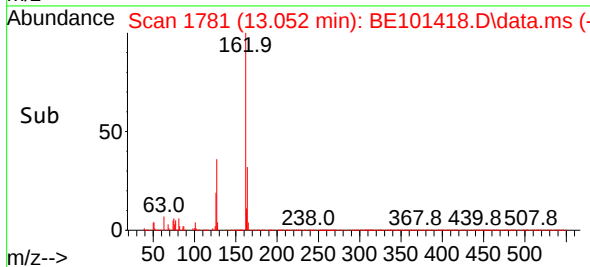
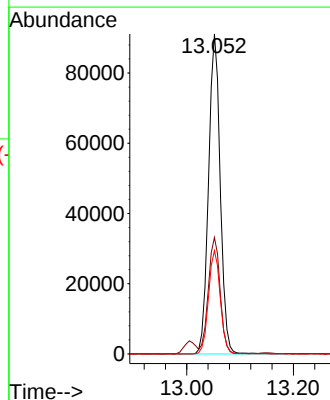
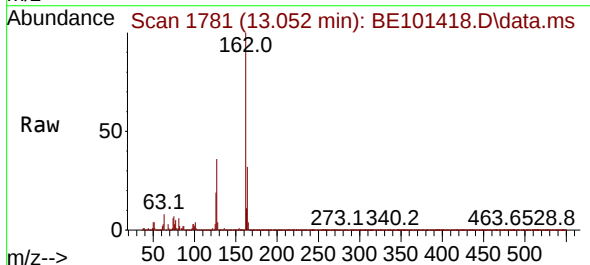
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

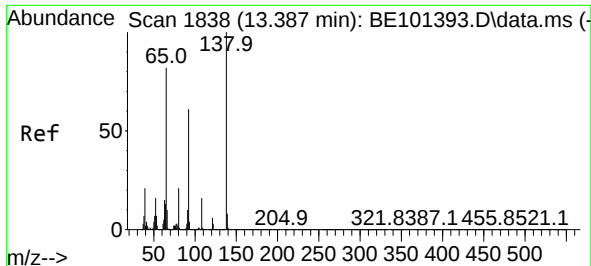
Tgt Ion:154 Resp: 192743  
Ion Ratio Lower Upper  
154 100  
153 39.8 20.3 60.3  
76 13.1 0.0 32.6



#47  
2-Chloronaphthalene  
Concen: 3.385 ng  
RT: 13.052 min Scan# 1781  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion:162 Resp: 138461  
Ion Ratio Lower Upper  
162 100  
127 36.4 30.4 45.6  
164 32.3 27.0 40.6

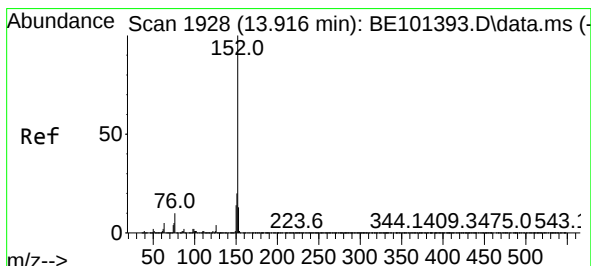
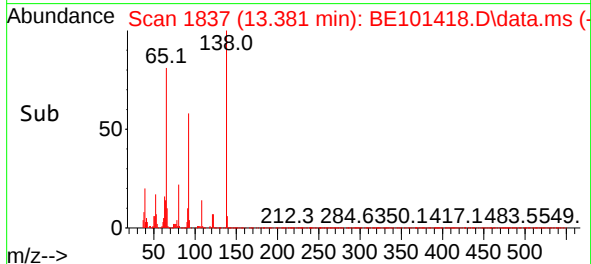
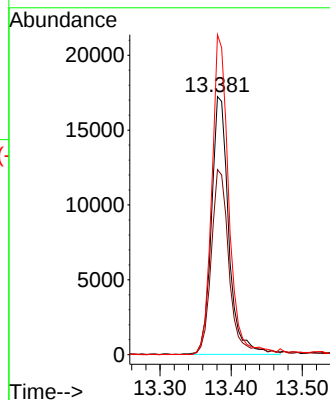
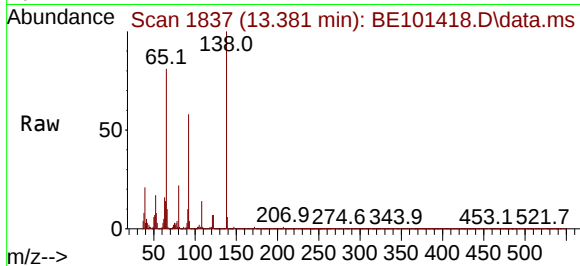




#48  
2-Nitroaniline  
Concen: 2.637 ng  
RT: 13.381 min Scan# 1837  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

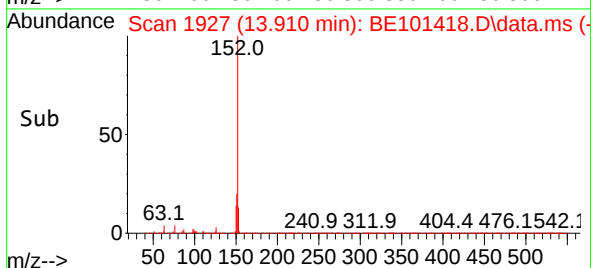
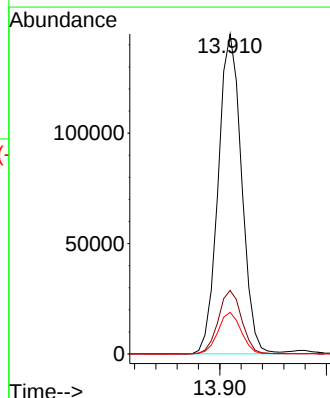
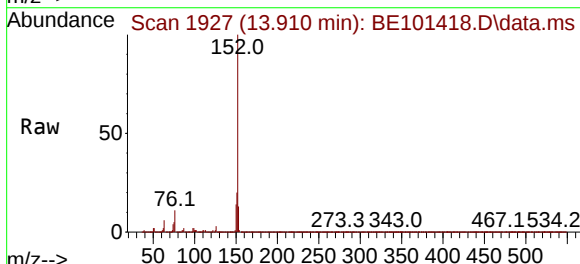
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

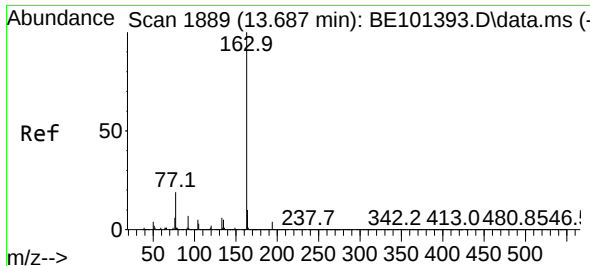
|             |                  |
|-------------|------------------|
| Tgt Ion: 65 | Resp: 29035      |
| Ion Ratio   | Lower Upper      |
| 65          | 100              |
| 92          | 71.8 59.0 88.4   |
| 138         | 124.0 97.4 146.0 |



#49  
Acenaphthylene  
Concen: 3.639 ng  
RT: 13.910 min Scan# 1927  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

|              |                |
|--------------|----------------|
| Tgt Ion: 152 | Resp: 220162   |
| Ion Ratio    | Lower Upper    |
| 152          | 100            |
| 151          | 19.8 16.2 24.4 |
| 153          | 13.0 10.5 15.7 |

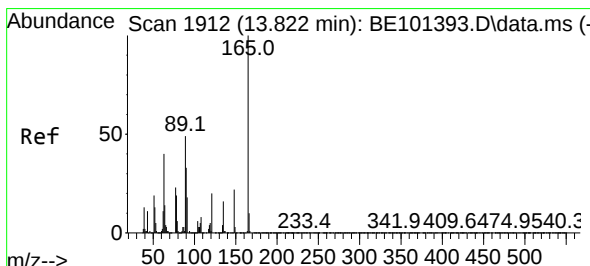
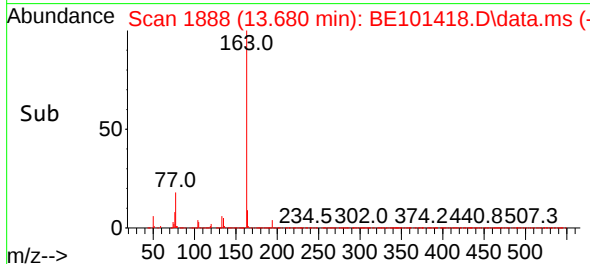
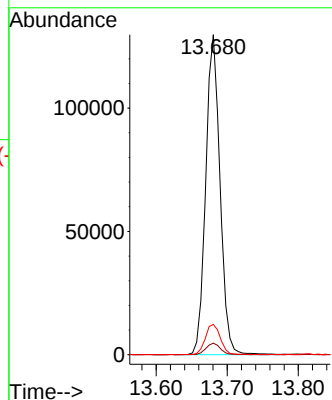
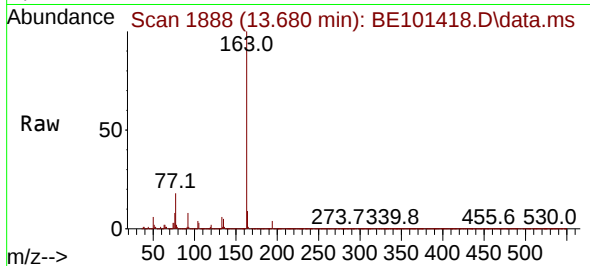




#50  
Dimethylphthalate  
Concen: 3.406 ng  
RT: 13.680 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

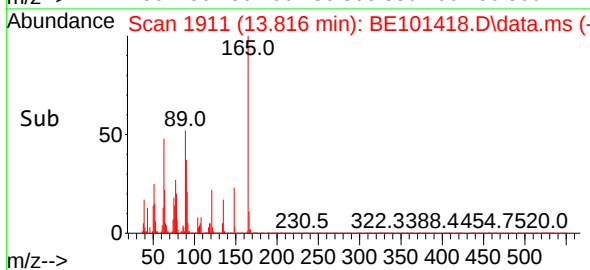
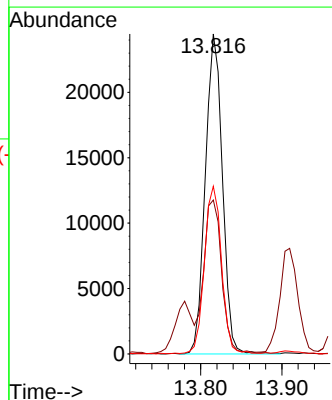
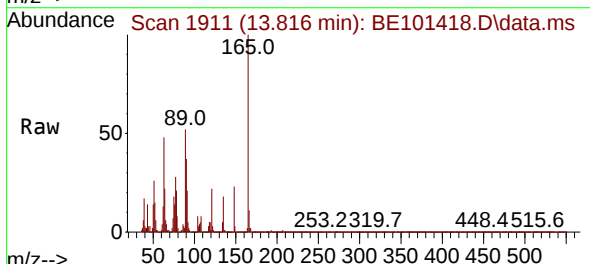
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

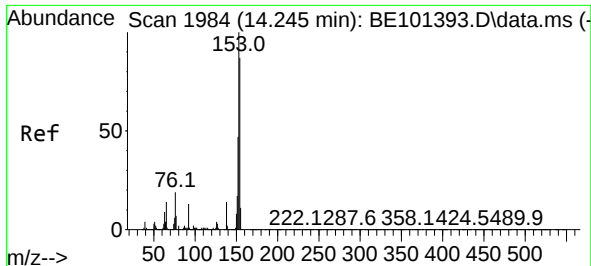
Tgt Ion:163 Resp: 181722  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.9 4.3  
164 9.4 8.4 12.6



#51  
2,6-Dinitrotoluene  
Concen: 2.894 ng  
RT: 13.816 min Scan# 1911  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion:165 Resp: 35647  
Ion Ratio Lower Upper  
165 100  
63 48.1 38.0 57.0  
89 52.4 39.5 59.3

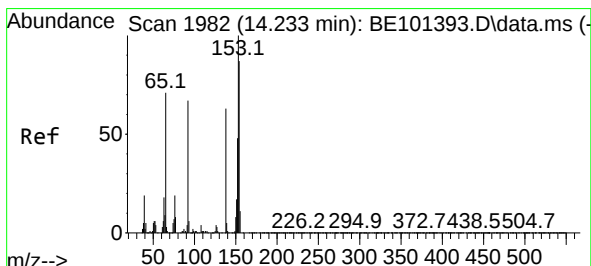
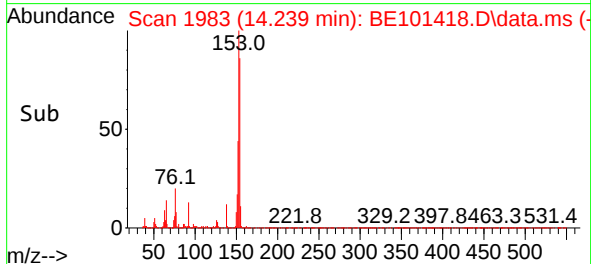
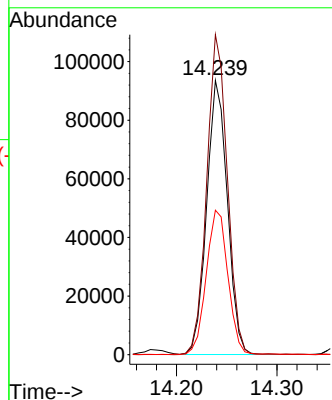
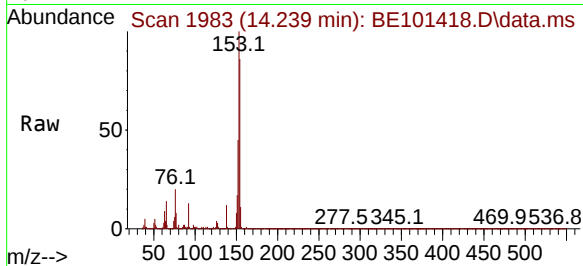




#52  
Acenaphthene  
Concen: 3.403 ng  
RT: 14.239 min Scan# 1983  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

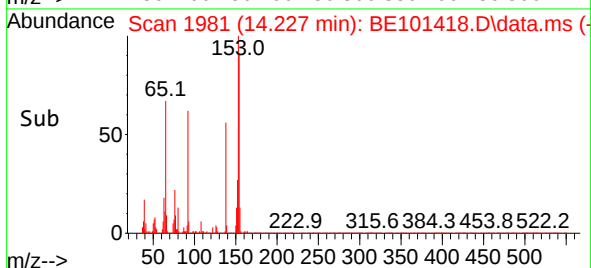
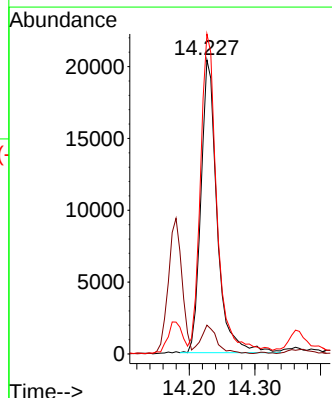
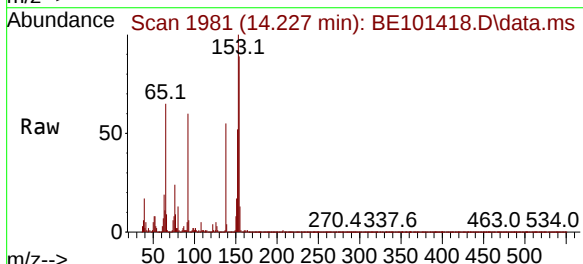
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

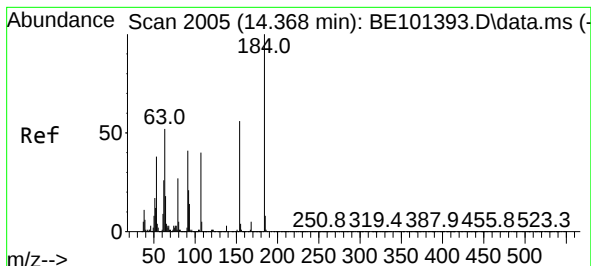
Tgt Ion:154 Resp: 134423  
Ion Ratio Lower Upper  
154 100  
153 116.7 91.8 137.6  
152 52.7 43.1 64.7



#53  
3-Nitroaniline  
Concen: 2.860 ng  
RT: 14.227 min Scan# 1981  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion:138 Resp: 35025  
Ion Ratio Lower Upper  
138 100  
108 9.8 7.1 10.7  
92 108.8 84.4 126.6





#54

2,4-Dinitrophenol

Concen: 6.720 ng

RT: 14.368 min Scan# 2005

Delta R.T. -0.000 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

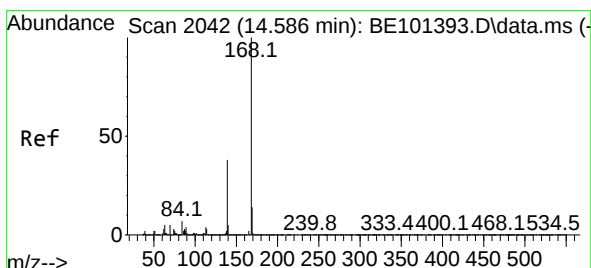
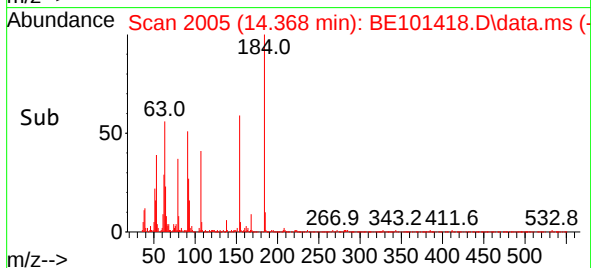
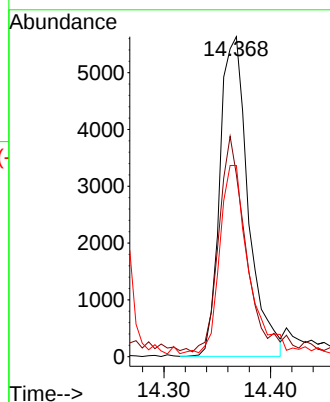
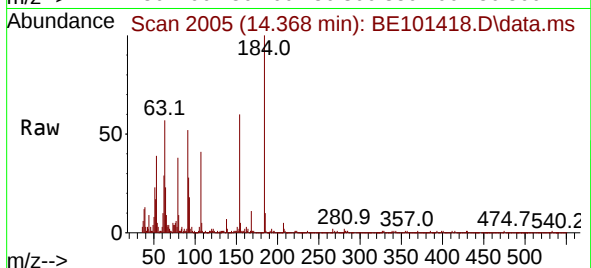
Tgt Ion:184 Resp: 10388

Ion Ratio Lower Upper

184 100

63 57.0 41.8 62.6

154 59.7 44.9 67.3



#55

Dibenzofuran

Concen: 3.554 ng

RT: 14.585 min Scan# 2042

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

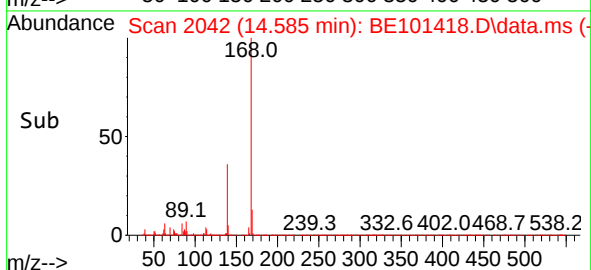
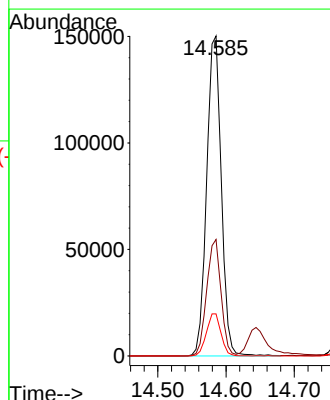
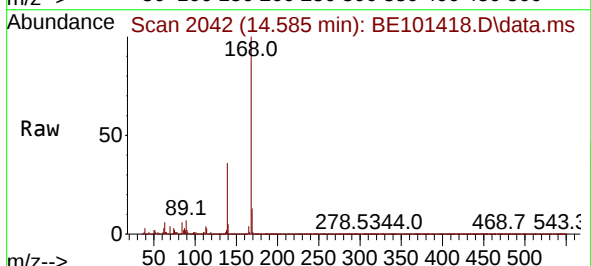
Tgt Ion:168 Resp: 223747

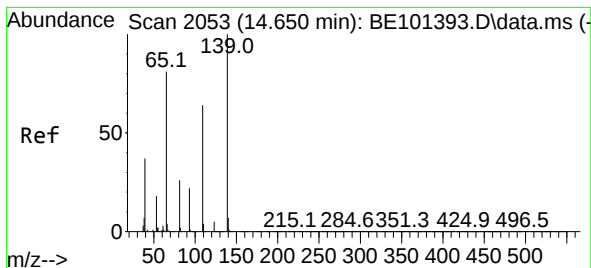
Ion Ratio Lower Upper

168 100

139 36.4 30.2 45.4

169 13.2 11.0 16.4





#56

4-Nitrophenol

Concen: 2.368 ng

RT: 14.644 min Scan# 2052

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

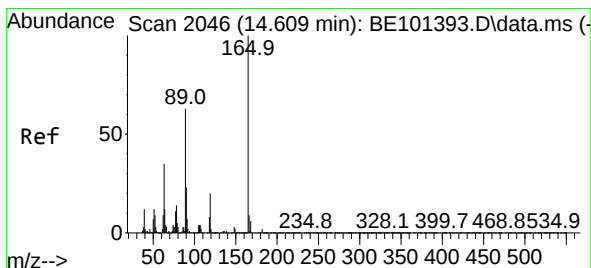
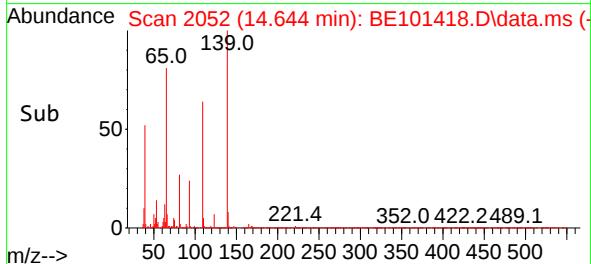
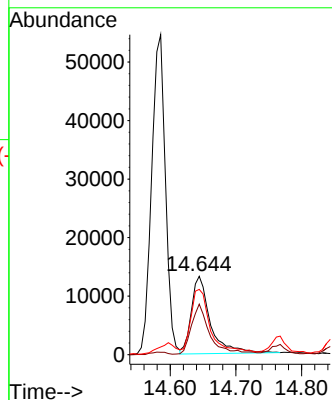
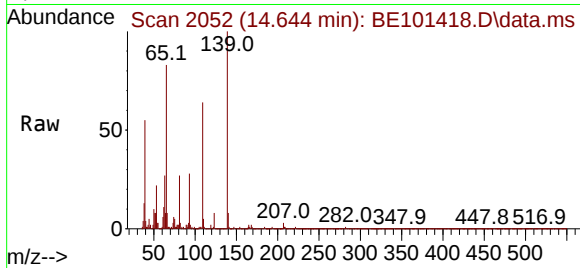
Tgt Ion:139 Resp: 26553

Ion Ratio Lower Upper

139 100

109 64.4 42.4 82.4

65 83.2 63.4 103.4



#57

2,4-Dinitrotoluene

Concen: 2.683 ng

RT: 14.603 min Scan# 2045

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Tgt Ion:165 Resp: 45501

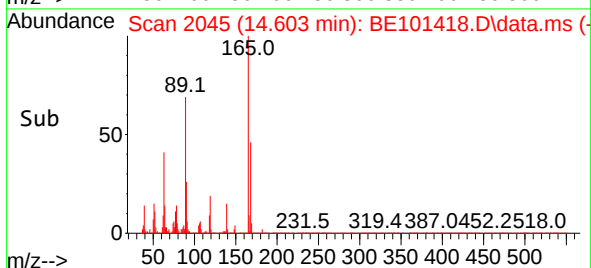
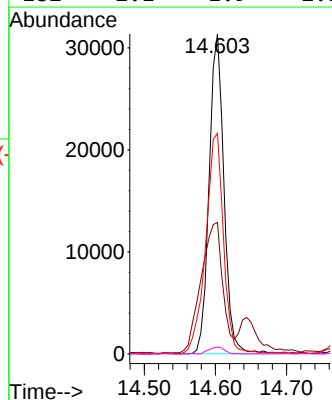
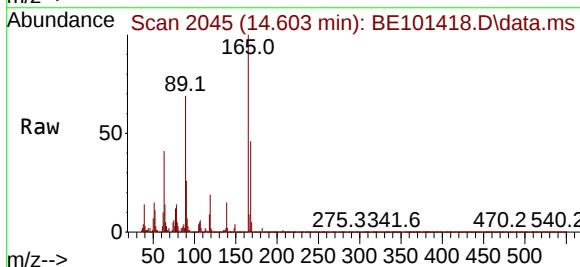
Ion Ratio Lower Upper

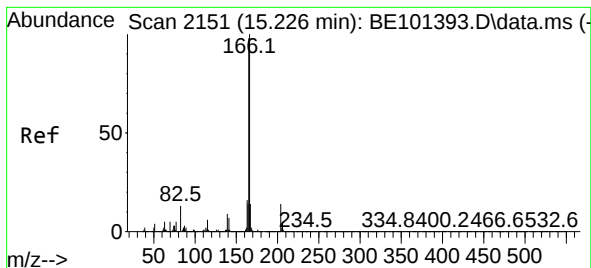
165 100

63 41.1 28.6 42.8

89 68.9 50.8 76.2

182 2.1 1.9 2.9





#58

Fluorene

Concen: 3.414 ng

RT: 15.220 min Scan# 2151

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

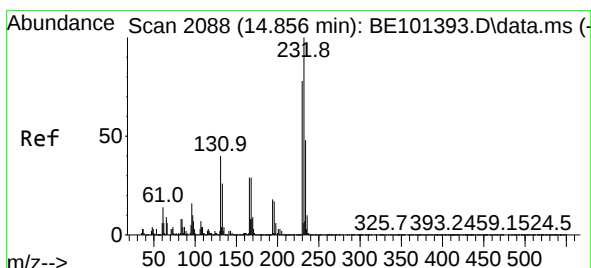
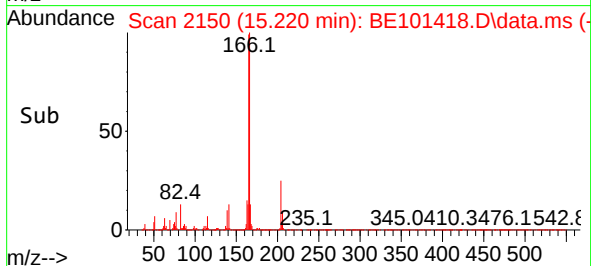
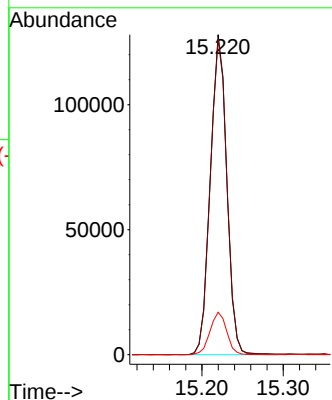
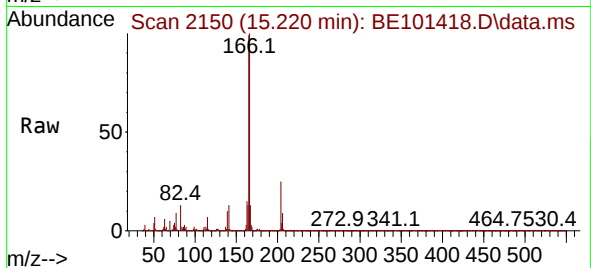
Tgt Ion:166 Resp: 179795

Ion Ratio Lower Upper

166 100

165 98.6 78.7 118.1

167 13.2 11.0 16.4



#59

2,3,4,6-Tetrachlorophenol

Concen: 3.320 ng

RT: 14.850 min Scan# 2087

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Tgt Ion:232 Resp: 45949

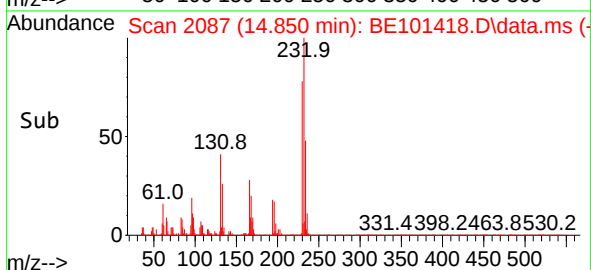
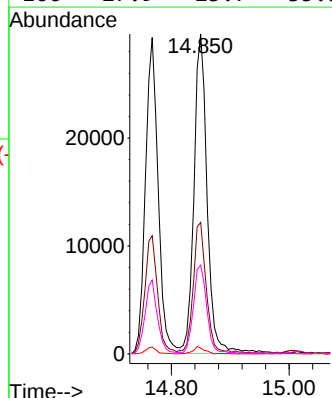
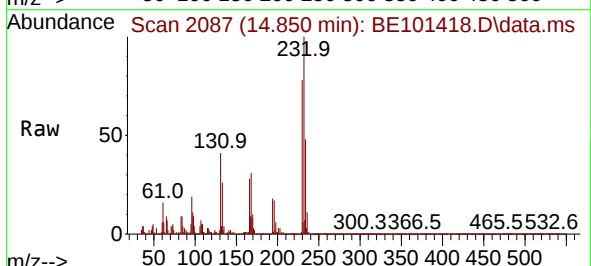
Ion Ratio Lower Upper

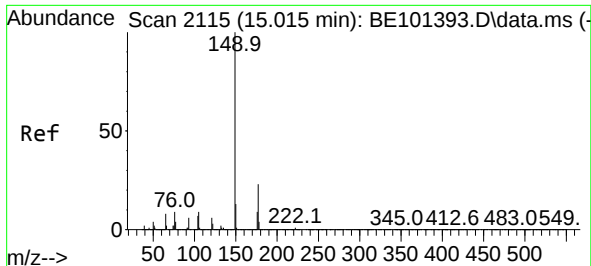
232 100

131 41.6 33.5 50.3

130 2.1 1.6 2.4

166 27.9 23.7 35.5

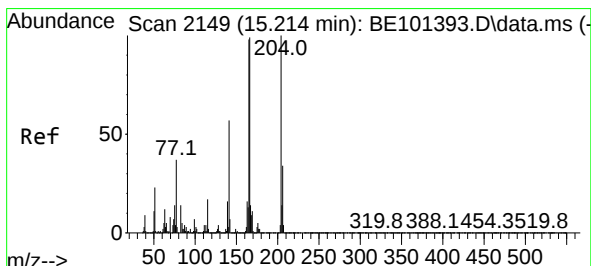
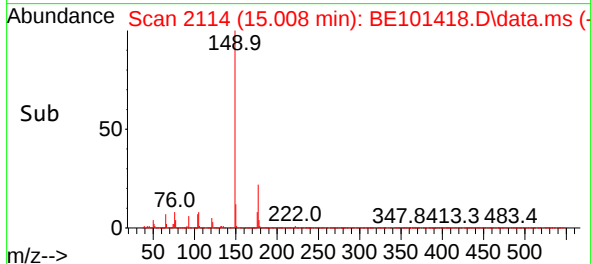
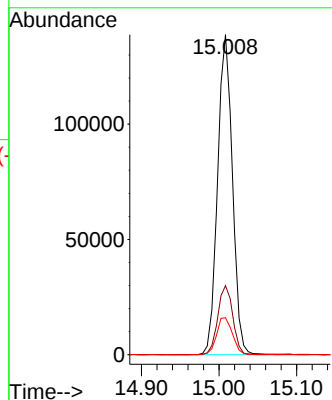
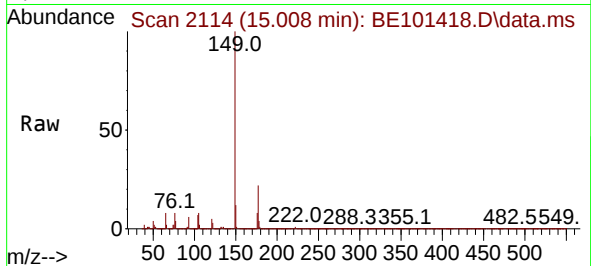




#60  
Diethylphthalate  
Concen: 3.304 ng  
RT: 15.008 min Scan# 2114  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

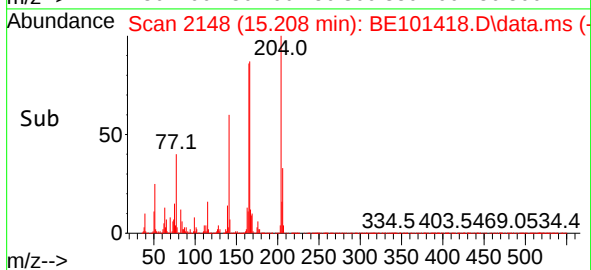
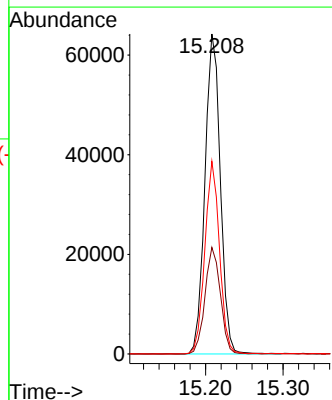
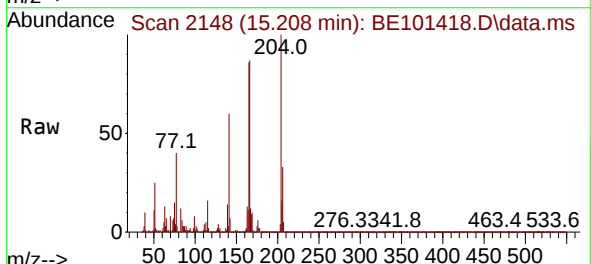
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

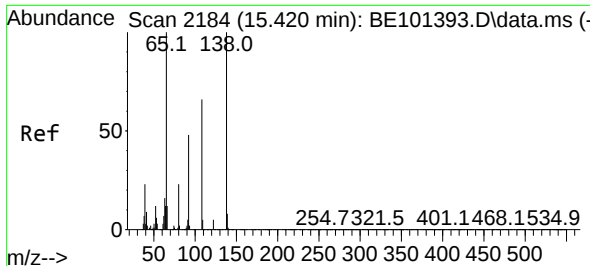
Tgt Ion:149 Resp: 184379  
Ion Ratio Lower Upper  
149 100  
177 21.6 18.0 27.0  
150 11.6 10.3 15.5



#61  
4-Chlorophenyl-phenylether  
Concen: 3.384 ng  
RT: 15.208 min Scan# 2148  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion:204 Resp: 88438  
Ion Ratio Lower Upper  
204 100  
206 33.3 26.9 40.3  
141 60.2 45.9 68.9

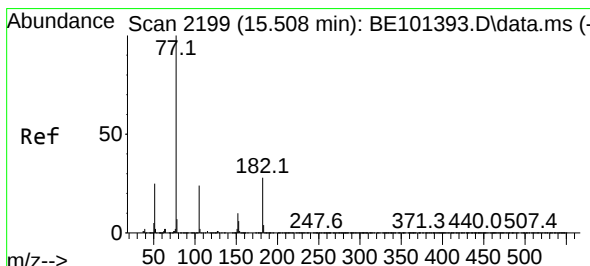
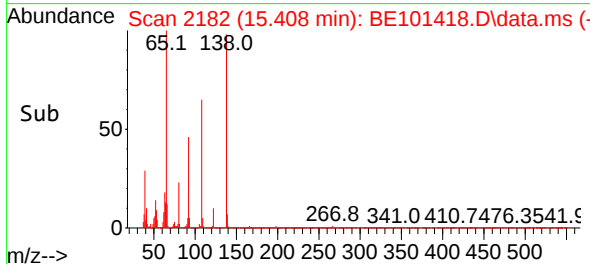
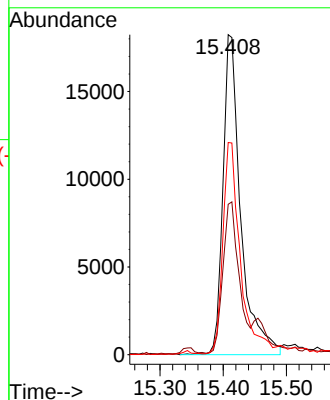
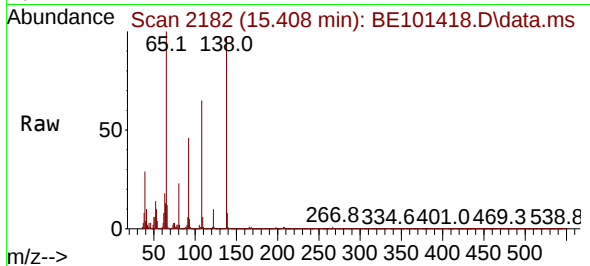




#62  
4-Nitroaniline  
Concen: 2.606 ng  
RT: 15.408 min Scan# 2182  
Delta R.T. -0.012 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

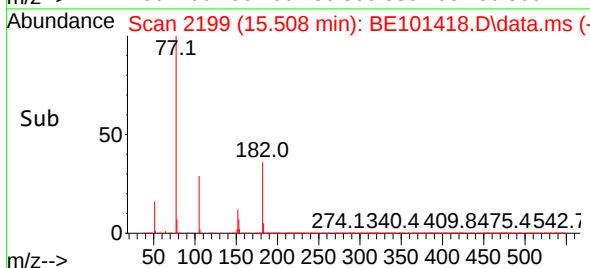
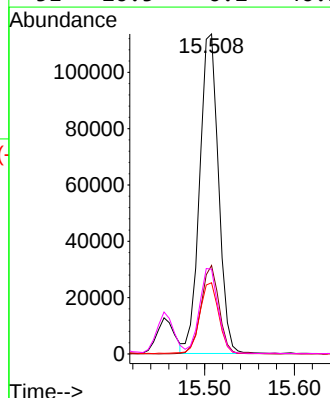
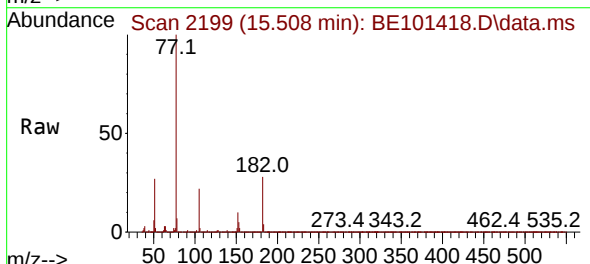
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

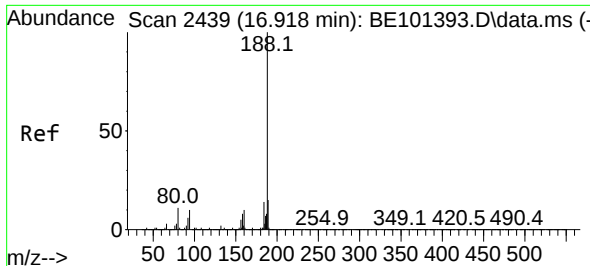
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 138   | Resp: | 35518 |
| Ion      | Ratio | Lower | Upper |
| 138      | 100   |       |       |
| 92       | 47.0  | 28.7  | 68.7  |
| 108      | 66.3  | 46.5  | 86.5  |



#63  
Azobenzene  
Concen: 3.442 ng  
RT: 15.508 min Scan# 2199  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 77    | Resp: | 165087 |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 182      | 27.6  | 7.6   | 47.6   |
| 105      | 22.2  | 3.2   | 43.2   |
| 51       | 26.5  | 6.2   | 46.2   |

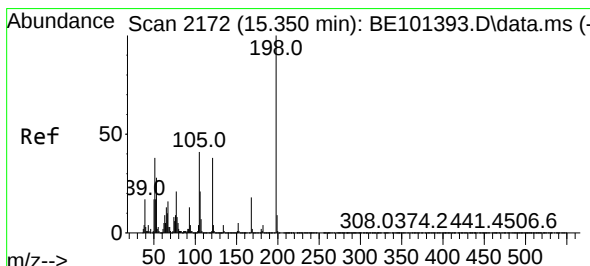
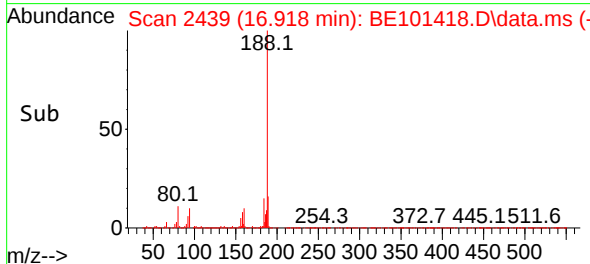
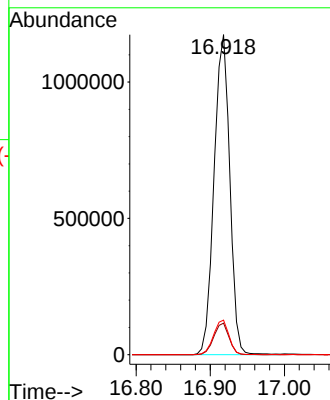
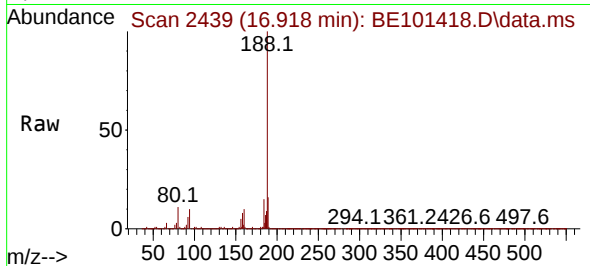




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.918 min Scan# 2439  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

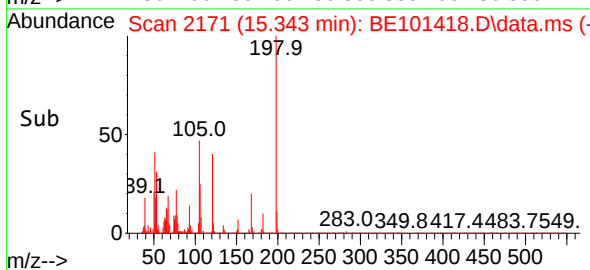
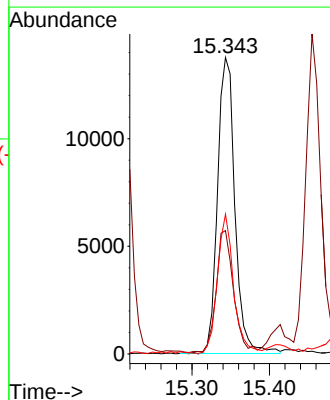
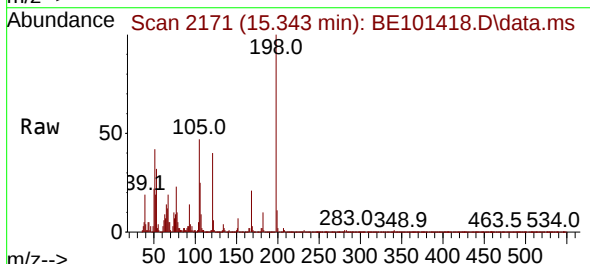
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

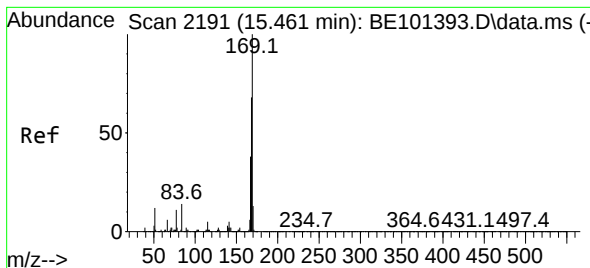
Tgt Ion:188 Resp: 1722994  
Ion Ratio Lower Upper  
188 100  
94 9.8 7.8 11.8  
80 10.8 8.6 12.8



#65  
4,6-Dinitro-2-methylphenol  
Concen: 2.114 ng  
RT: 15.343 min Scan# 2171  
Delta R.T. -0.007 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion:198 Resp: 21401  
Ion Ratio Lower Upper  
198 100  
51 41.6 18.2 58.2  
105 47.1 21.5 61.5





#66

n-Nitrosodiphenylamine

Concen: 3.453 ng

RT: 15.455 min Scan# 2191

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

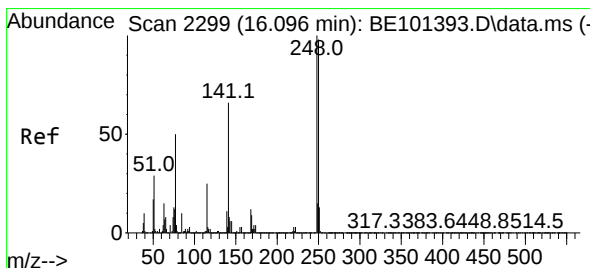
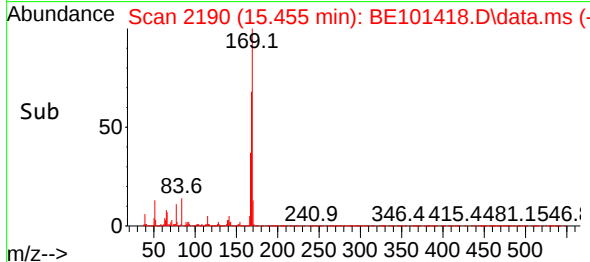
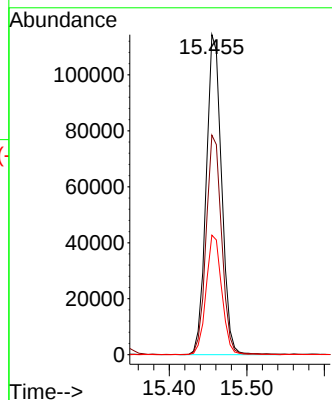
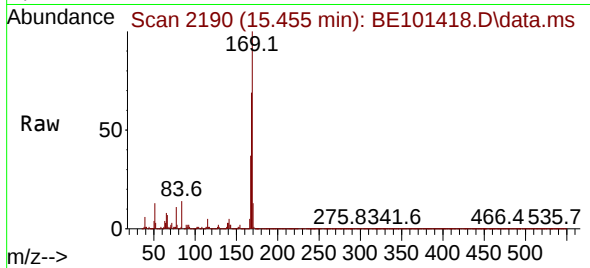
Tgt Ion:169 Resp: 157792

Ion Ratio Lower Upper

169 100

168 68.6 54.5 81.7

167 37.4 30.4 45.6



#67

4-Bromophenyl-phenylether

Concen: 3.357 ng

RT: 16.095 min Scan# 2299

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

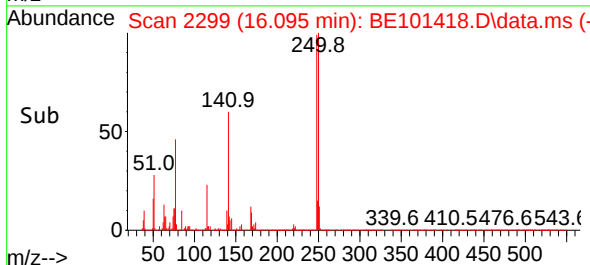
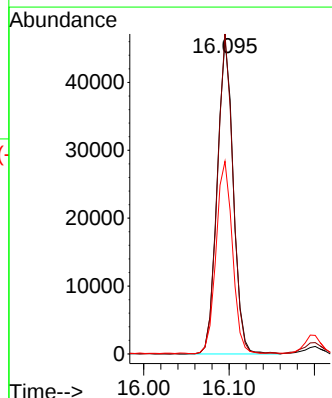
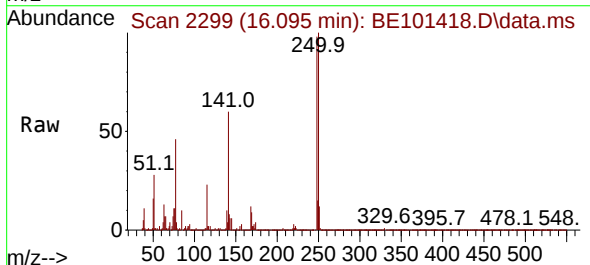
Tgt Ion:248 Resp: 60836

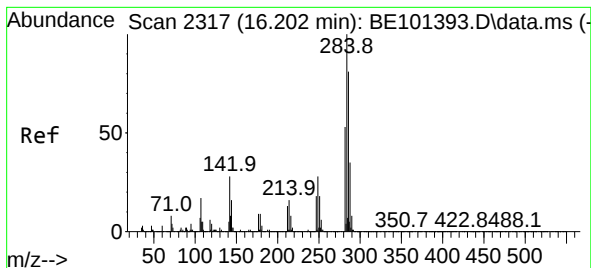
Ion Ratio Lower Upper

248 100

250 101.7 78.2 117.2

141 61.2 53.0 79.4





#68

Hexachlorobenzene

Concen: 3.380 ng

RT: 16.201 min Scan# 21

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

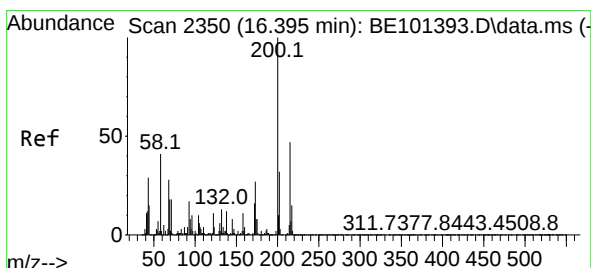
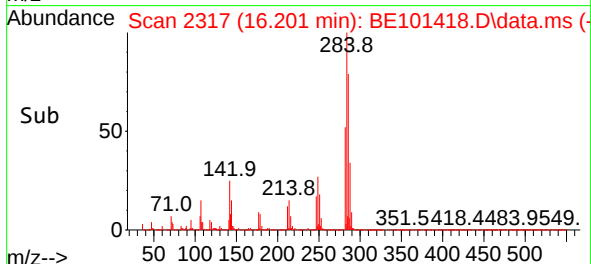
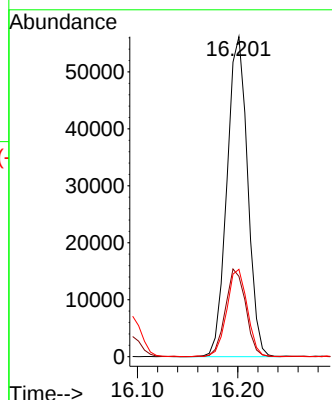
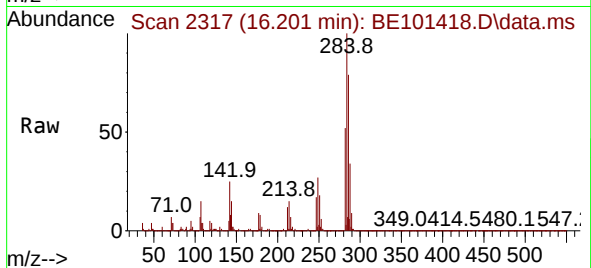
Tgt Ion:284 Resp: 80288

Ion Ratio Lower Upper

284 100

142 25.1 22.2 33.2

249 27.3 22.8 34.2



#69

Atrazine

Concen: 4.029 ng

RT: 16.389 min Scan# 2349

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

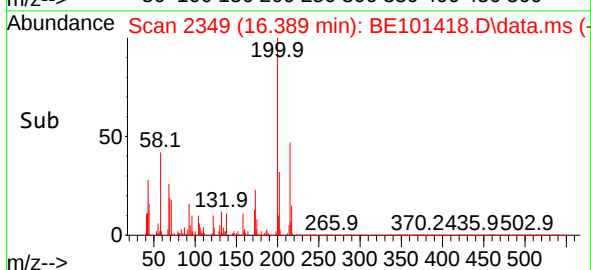
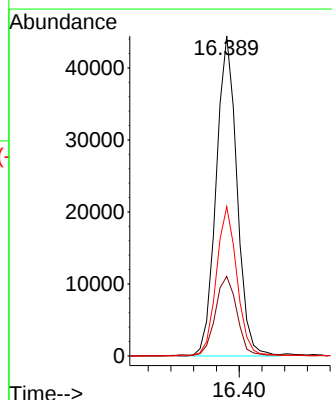
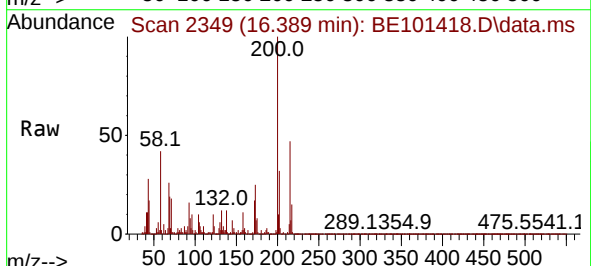
Tgt Ion:200 Resp: 56444

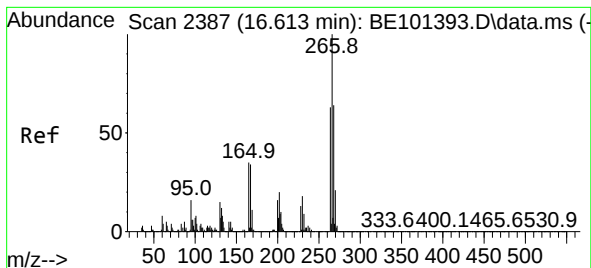
Ion Ratio Lower Upper

200 100

173 24.8 7.0 47.0

215 46.7 27.3 67.3





#70

Pentachlorophenol

Concen: 2.574 ng

RT: 16.606 min Scan# 21

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

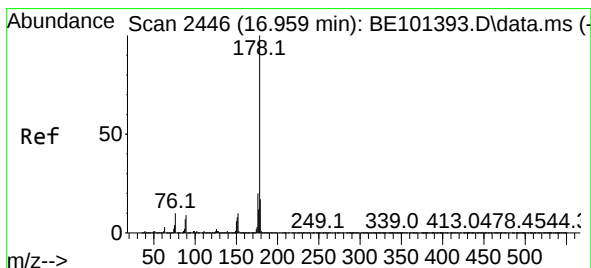
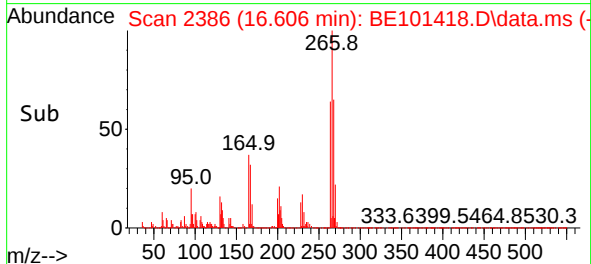
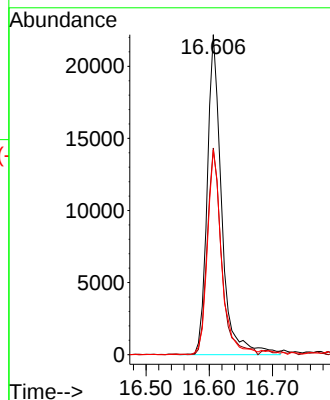
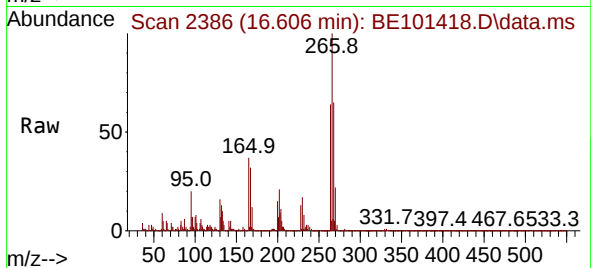
Tgt Ion:266 Resp: 35196

Ion Ratio Lower Upper

266 100

268 64.6 51.5 77.3

264 64.0 50.7 76.1



#71

Phenanthrene

Concen: 3.725 ng

RT: 16.953 min Scan# 2445

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

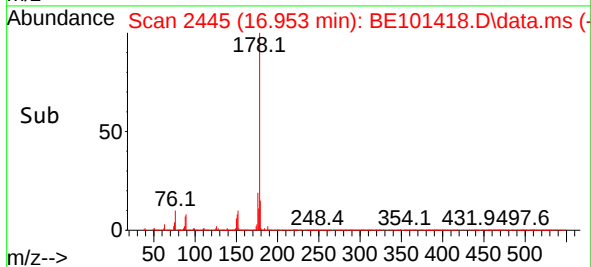
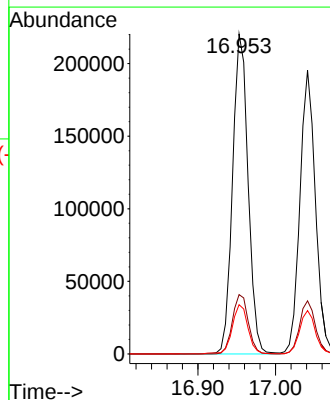
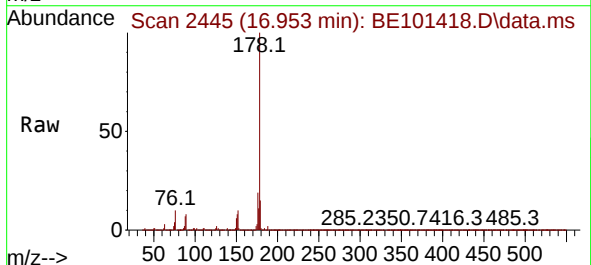
Tgt Ion:178 Resp: 307305

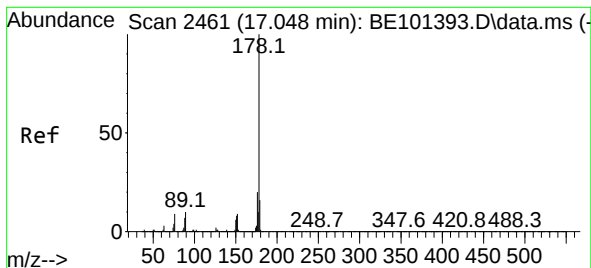
Ion Ratio Lower Upper

178 100

176 18.6 16.4 24.6

179 15.4 13.2 19.8





#72

Anthracene

Concen: 3.417 ng

RT: 17.041 min Scan# 2461

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

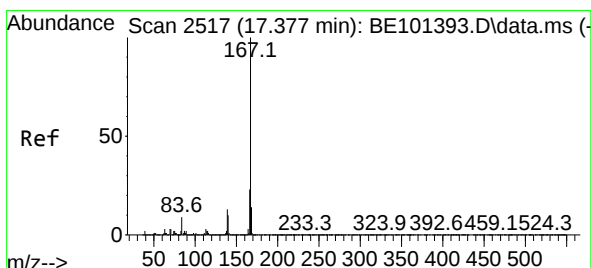
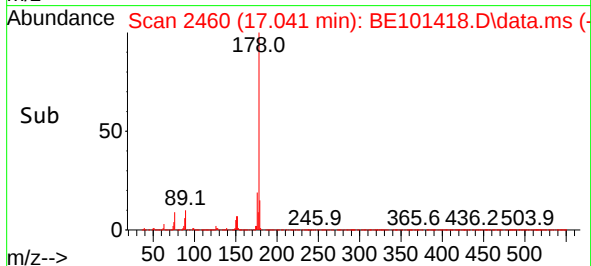
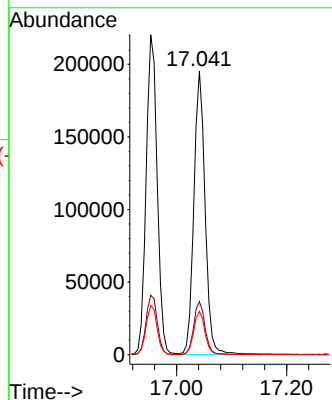
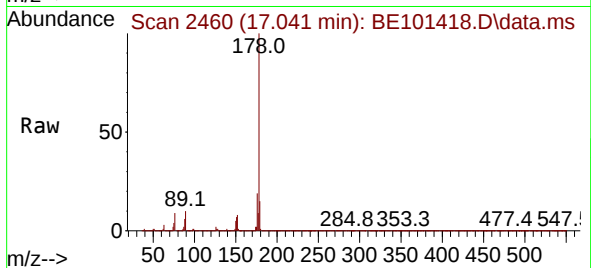
Tgt Ion:178 Resp: 275216

Ion Ratio Lower Upper

178 100

176 18.7 15.9 23.9

179 15.3 13.1 19.7



#73

Carbazole

Concen: 3.455 ng

RT: 17.370 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

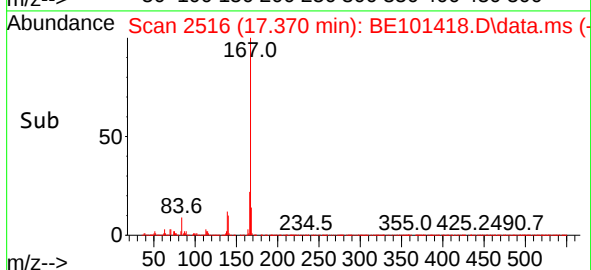
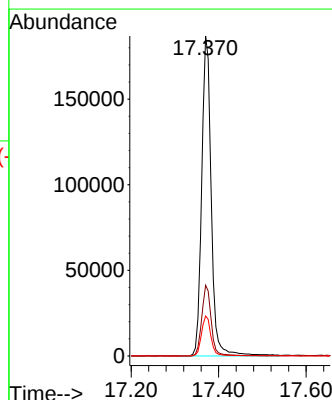
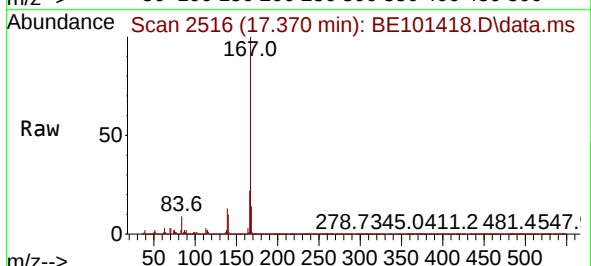
Tgt Ion:167 Resp: 284775

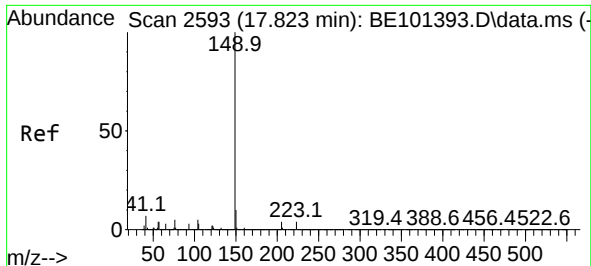
Ion Ratio Lower Upper

167 100

166 22.1 18.3 27.5

139 12.5 10.8 16.2

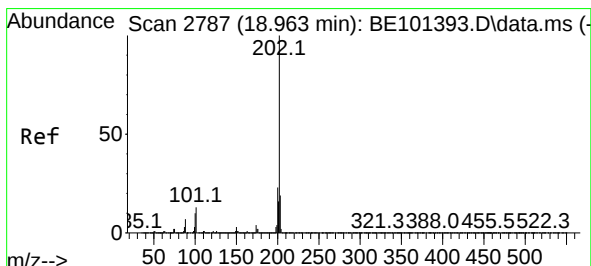
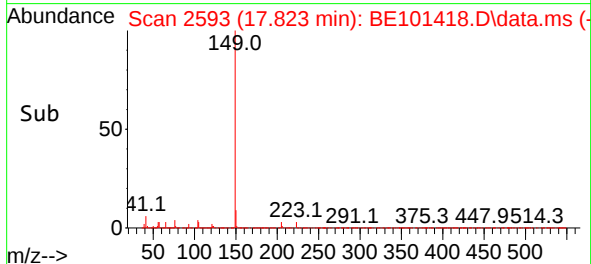
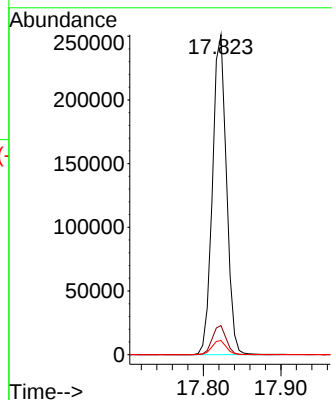
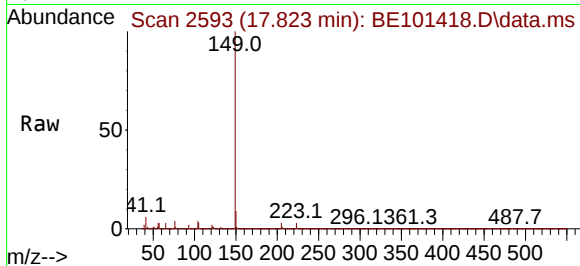




#74  
Di-n-butylphthalate  
Concen: 3.467 ng  
RT: 17.823 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

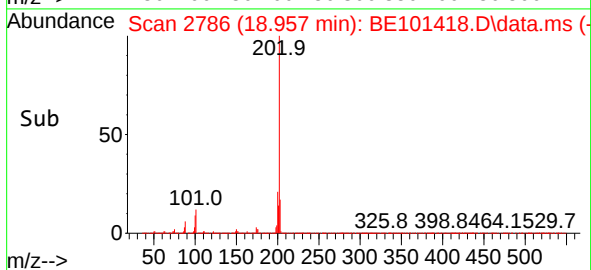
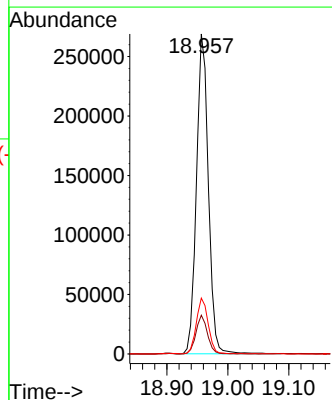
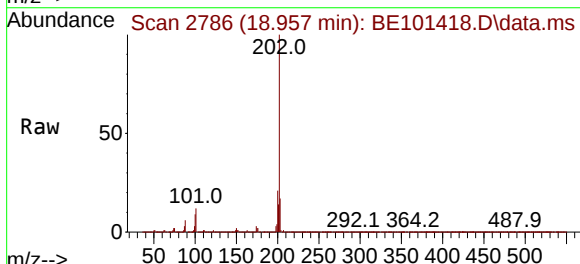
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

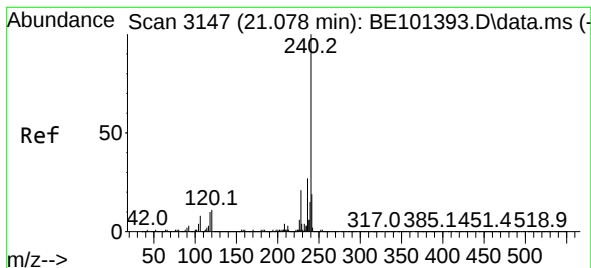
Tgt Ion:149 Resp: 314585  
Ion Ratio Lower Upper  
149 100  
150 9.1 8.2 12.4  
104 4.4 3.9 5.9



#75  
Fluoranthene  
Concen: 3.636 ng  
RT: 18.957 min Scan# 2786  
Delta R.T. -0.006 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion:202 Resp: 364362  
Ion Ratio Lower Upper  
202 100  
101 12.1 0.0 33.3  
203 17.5 0.0 39.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.072 min Scan# 3146

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

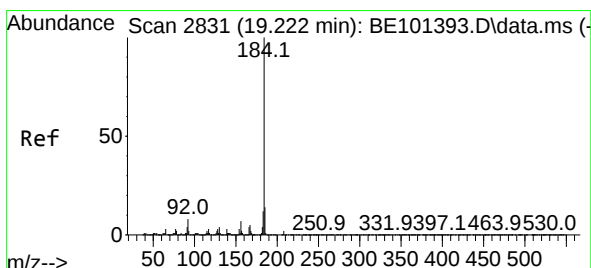
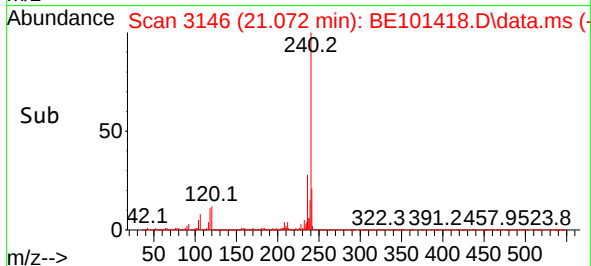
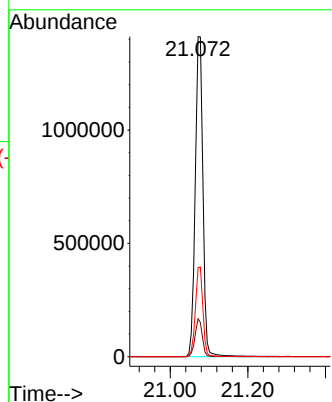
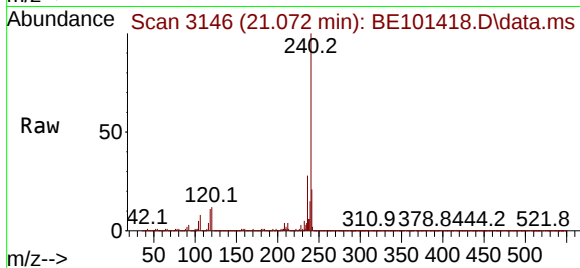
Tgt Ion:240 Resp: 1945102

Ion Ratio Lower Upper

240 100

120 11.8 9.0 13.4

236 27.8 21.4 32.0



#77

Benzidine

Concen: 2.487 ng

RT: 19.215 min Scan# 2830

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

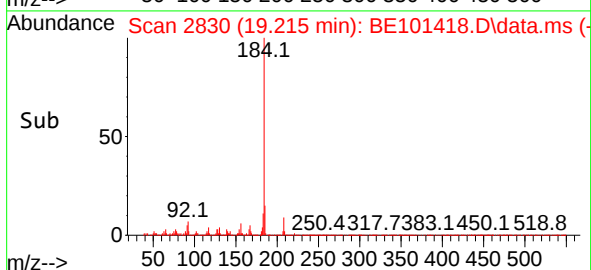
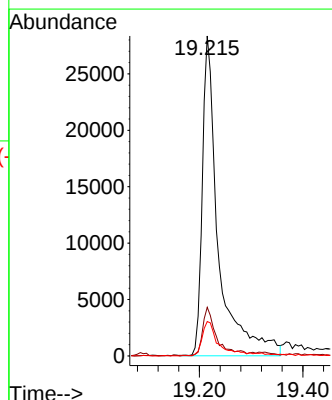
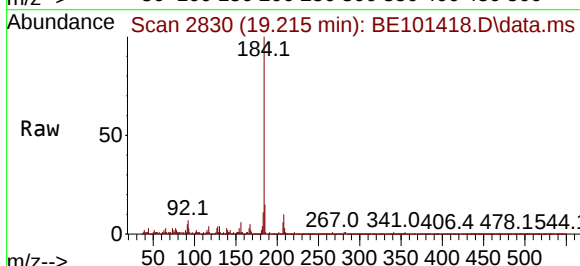
Tgt Ion:184 Resp: 61398

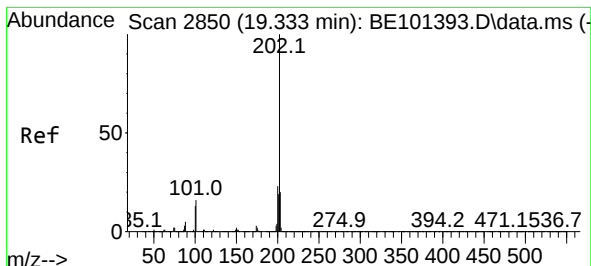
Ion Ratio Lower Upper

184 100

185 15.2 11.5 17.3

183 10.7 9.3 13.9





#78

Pyrene

Concen: 3.642 ng

RT: 19.327 min Scan# 21

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

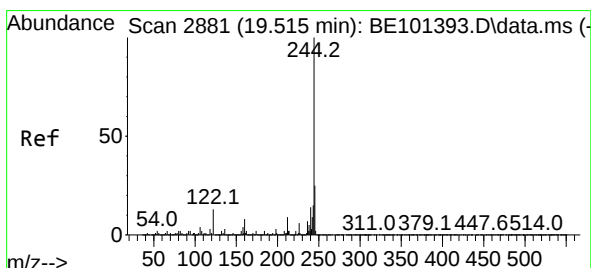
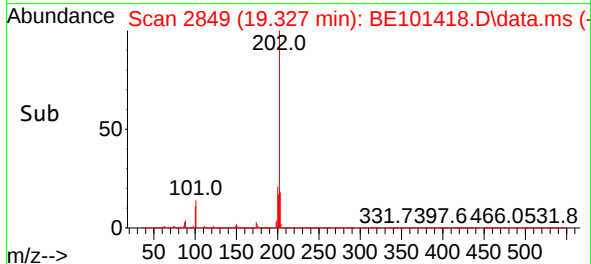
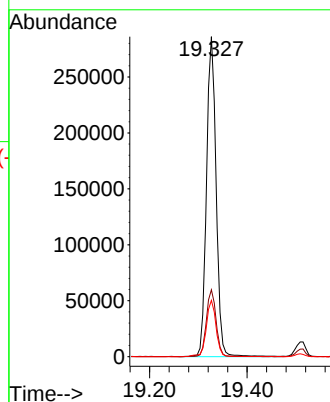
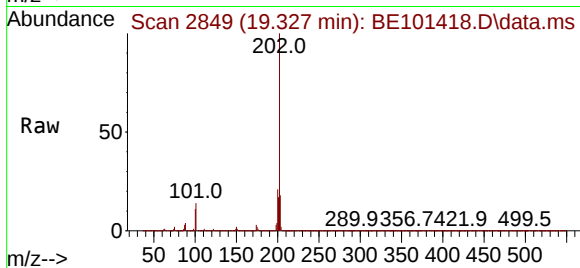
Tgt Ion:202 Resp: 389518

Ion Ratio Lower Upper

202 100

200 20.9 18.6 28.0

203 17.6 15.6 23.4



#79

Terphenyl-d14

Concen: 56.521 ng

RT: 19.509 min Scan# 2880

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

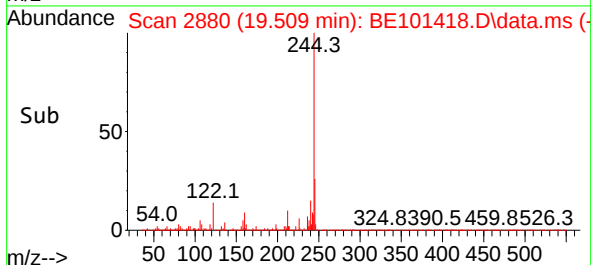
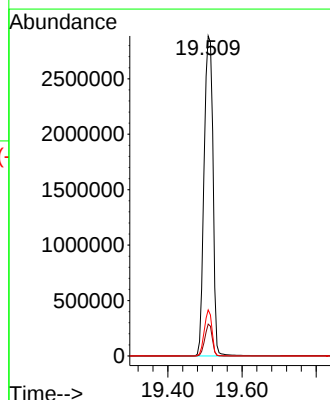
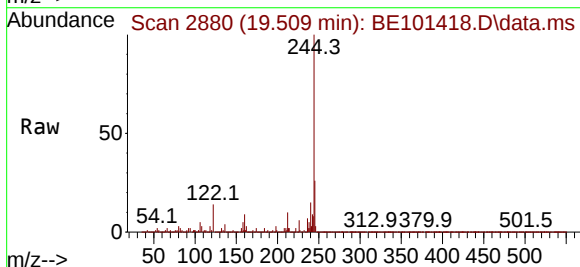
Tgt Ion:244 Resp: 4776744

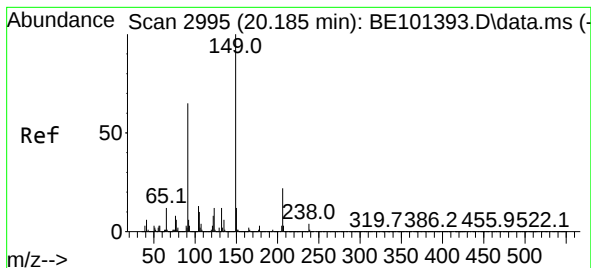
Ion Ratio Lower Upper

244 100

212 9.9 7.2 10.8

122 14.4 10.4 15.6





#80

Butylbenzylphthalate

Concen: 3.432 ng

RT: 20.179 min Scan# 2994

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

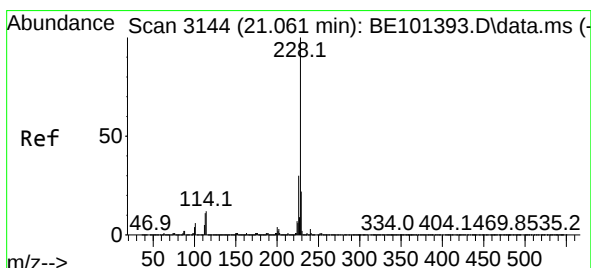
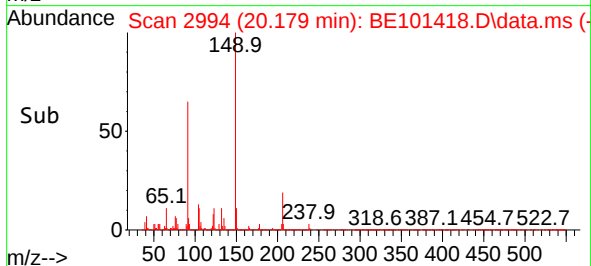
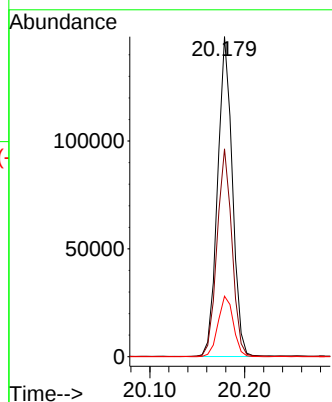
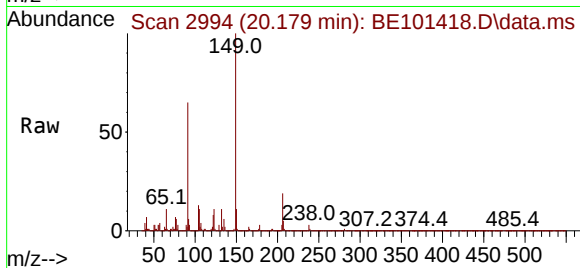
Tgt Ion:149 Resp: 160918

Ion Ratio Lower Upper

149 100

91 64.9 51.8 77.8

206 18.9 17.4 26.2



#81

Benzo(a)anthracene

Concen: 3.939 ng

RT: 21.054 min Scan# 3143

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

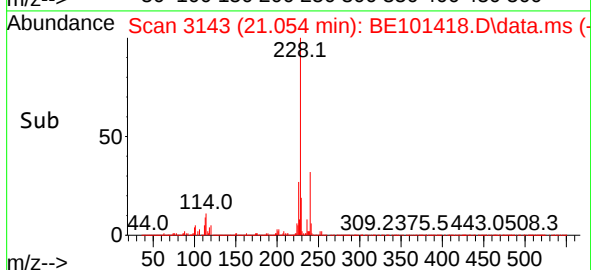
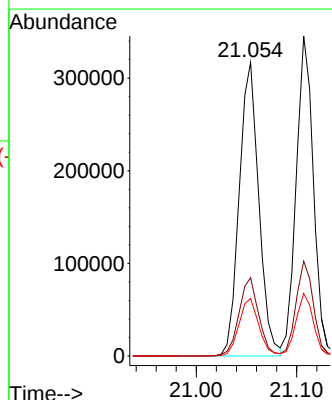
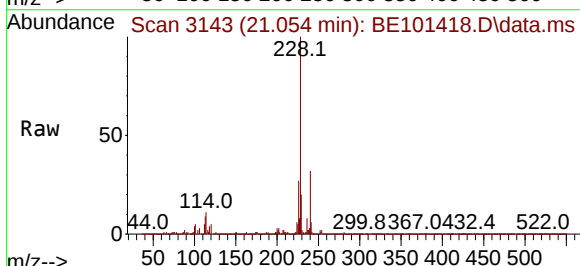
Tgt Ion:228 Resp: 430655

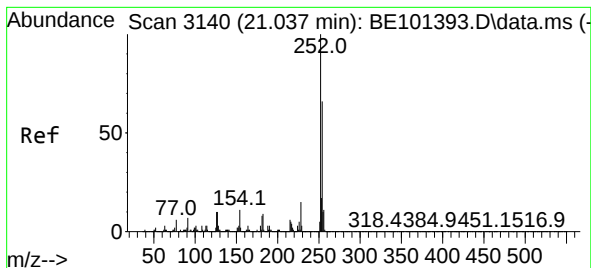
Ion Ratio Lower Upper

228 100

226 26.6 24.1 36.1

229 19.5 17.3 25.9





#82

3,3'-Dichlorobenzidine

Concen: 3.165 ng

RT: 21.031 min Scan# 31

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

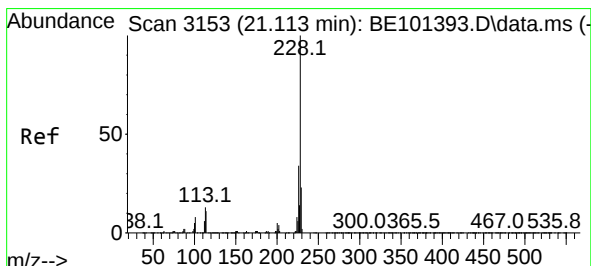
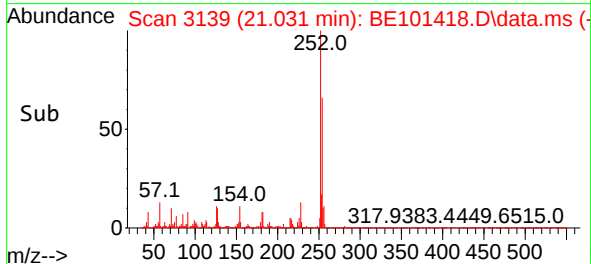
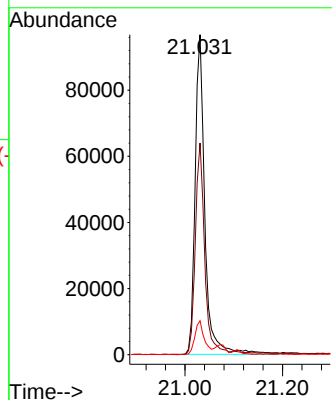
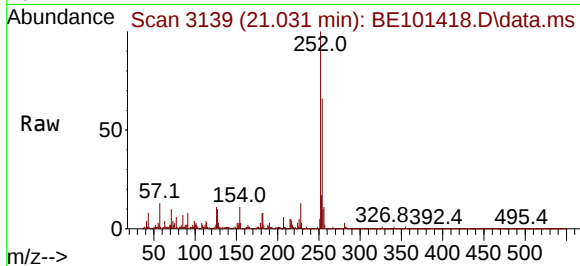
Tgt Ion:252 Resp: 135543

Ion Ratio Lower Upper

252 100

254 66.2 52.6 78.8

126 10.6 7.7 11.5



#83

Chrysene

Concen: 3.943 ng

RT: 21.107 min Scan# 3152

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

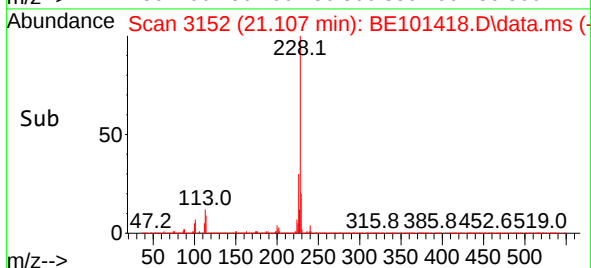
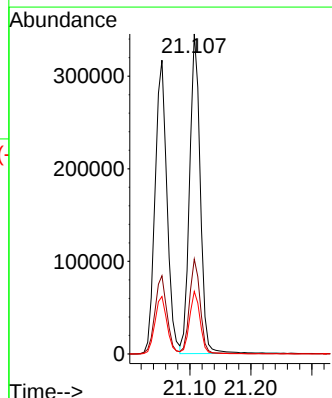
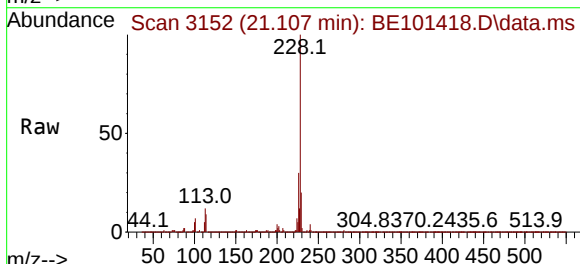
Tgt Ion:228 Resp: 416799

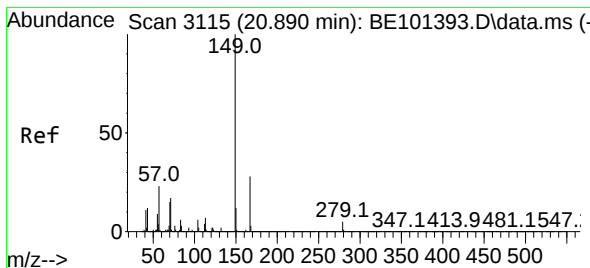
Ion Ratio Lower Upper

228 100

226 29.7 27.2 40.8

229 19.5 18.0 27.0





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.362 ng

RT: 20.884 min Scan# 3114

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

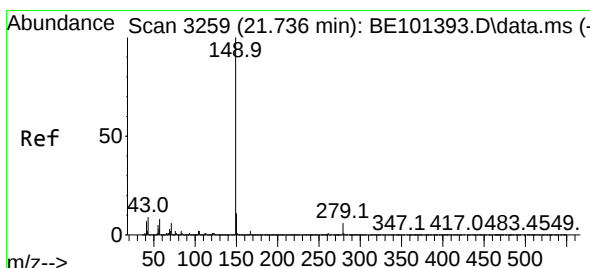
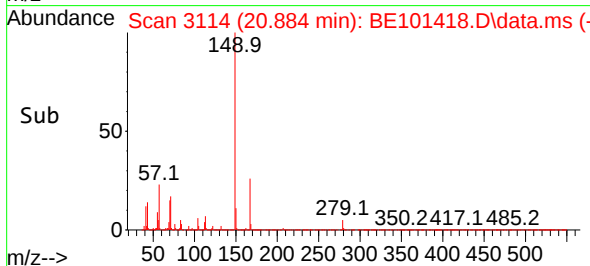
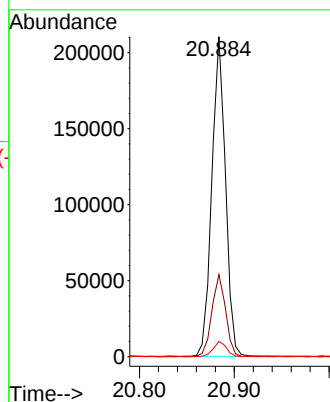
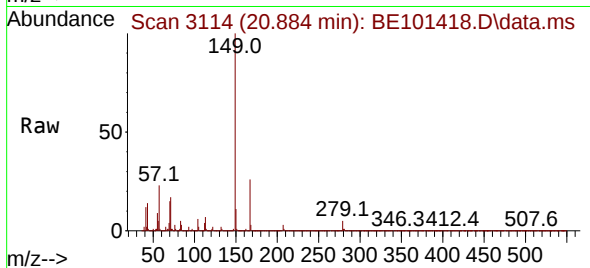
Tgt Ion:149 Resp: 209438

Ion Ratio Lower Upper

149 100

167 25.6 22.7 34.1

279 4.8 4.3 6.5



#85

Di-n-octyl phthalate

Concen: 3.524 ng

RT: 21.730 min Scan# 3258

Delta R.T. -0.006 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

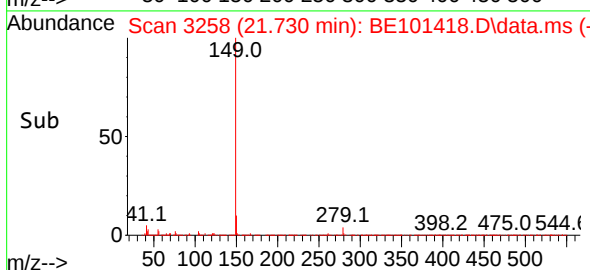
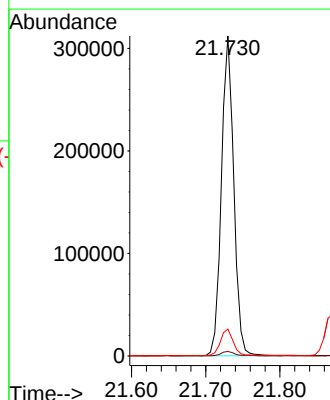
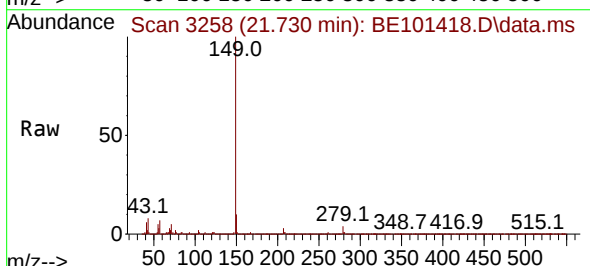
Tgt Ion:149 Resp: 360303

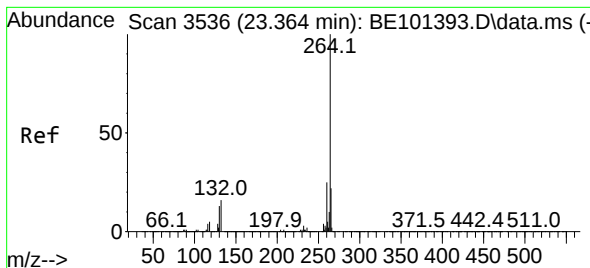
Ion Ratio Lower Upper

149 100

167 1.7 1.4 2.0

43 8.8 7.0 10.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.363 min Scan# 31

Delta R.T. -0.001 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

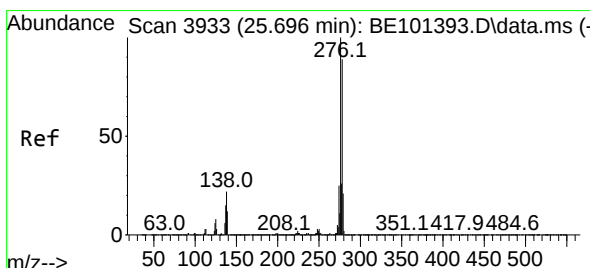
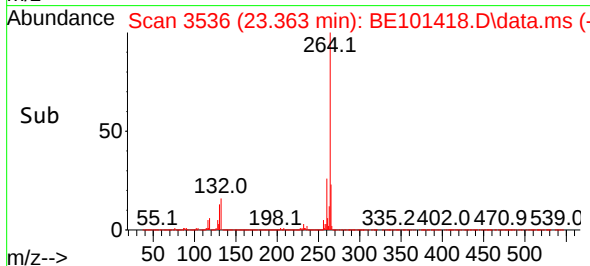
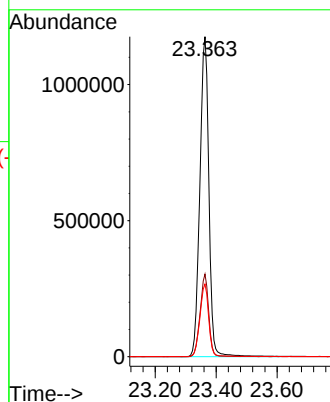
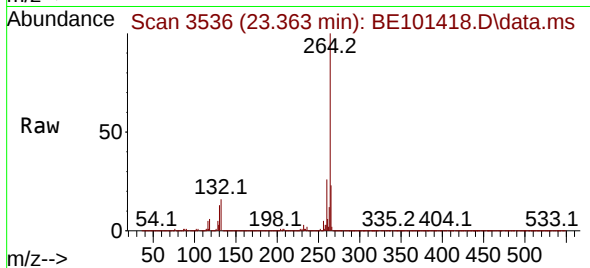
Tgt Ion:264 Resp: 2422824

Ion Ratio Lower Upper

264 100

260 25.8 19.8 29.8

265 22.7 17.6 26.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.626 ng

RT: 25.660 min Scan# 3927

Delta R.T. -0.036 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

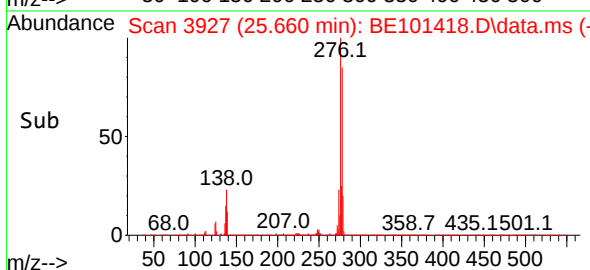
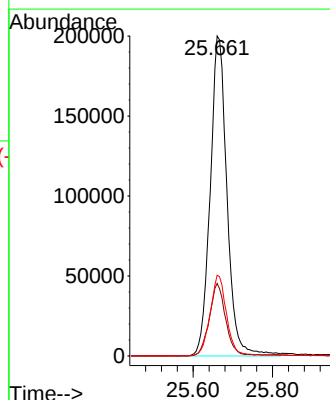
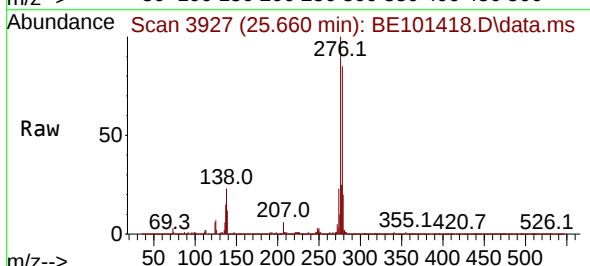
Tgt Ion:276 Resp: 587942

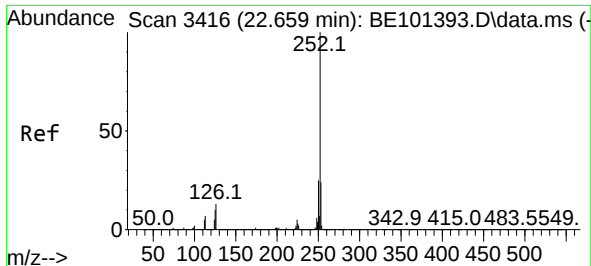
Ion Ratio Lower Upper

276 100

138 22.1 17.8 26.8

277 24.6 20.5 30.7

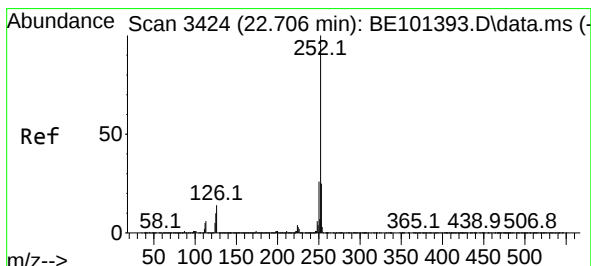
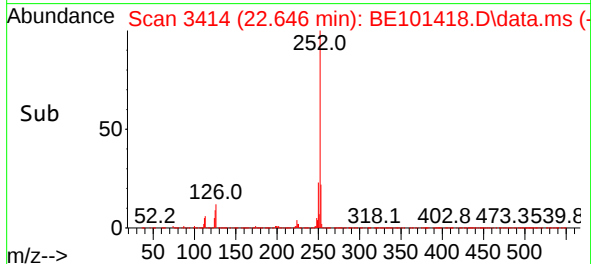
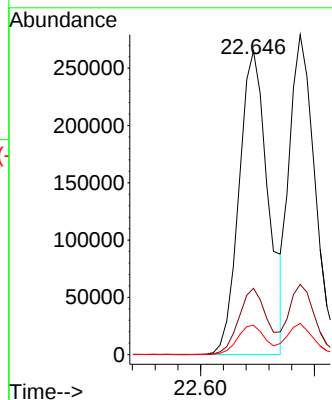
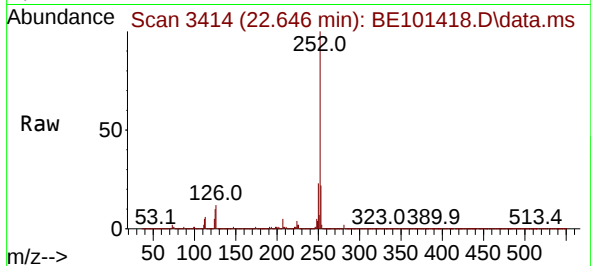




#88  
Benzo(b)fluoranthene  
Concen: 3.720 ng  
RT: 22.646 min Scan# 3416  
Delta R.T. -0.012 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

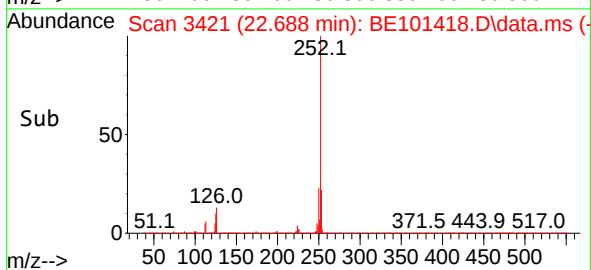
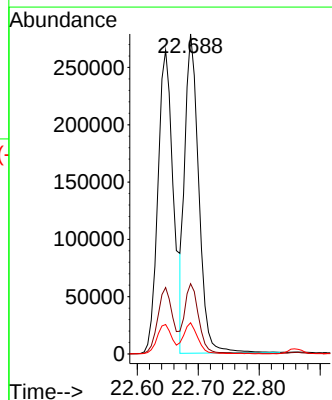
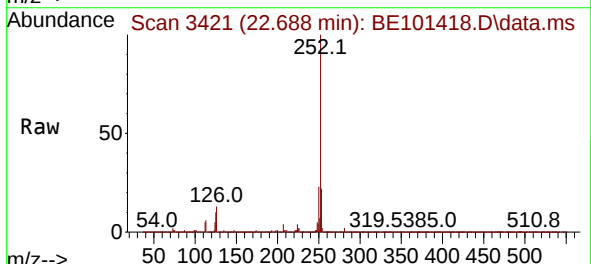
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-SOIL-03-QT4-2024

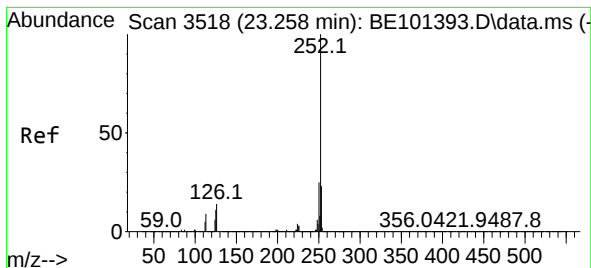
Tgt Ion:252 Resp: 469710  
Ion Ratio Lower Upper  
252 100  
253 21.9 19.0 28.6  
125 9.7 8.2 12.2



#89  
Benzo(k)fluoranthene  
Concen: 3.740 ng  
RT: 22.688 min Scan# 3421  
Delta R.T. -0.018 min  
Lab File: BE101418.D  
Acq: 30 Oct 2024 11:11

Tgt Ion:252 Resp: 441173  
Ion Ratio Lower Upper  
252 100  
253 21.9 19.4 29.2  
125 9.7 8.2 12.2





#90

Benzo(a)pyrene

Concen: 3.726 ng

RT: 23.246 min Scan# 3518

Delta R.T. -0.012 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024

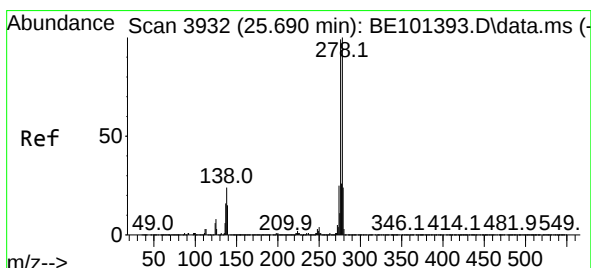
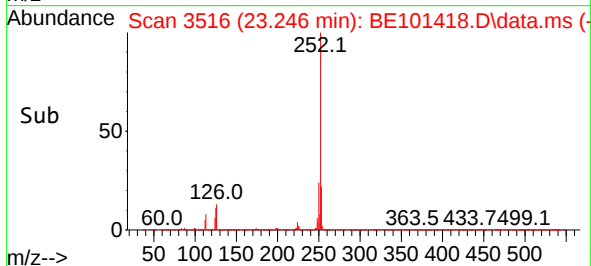
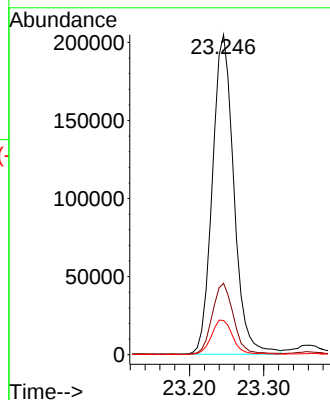
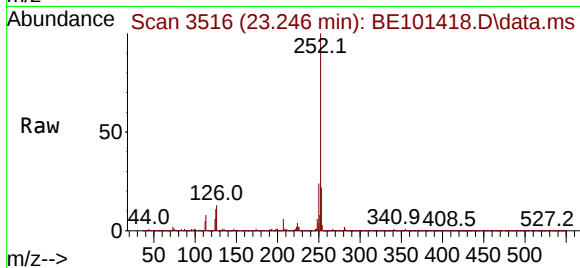
Tgt Ion:252 Resp: 411436

Ion Ratio Lower Upper

252 100

253 22.3 18.4 27.6

125 10.7 9.0 13.6



#91

Dibenzo(a,h)anthracene

Concen: 3.565 ng

RT: 25.660 min Scan# 3927

Delta R.T. -0.030 min

Lab File: BE101418.D

Acq: 30 Oct 2024 11:11

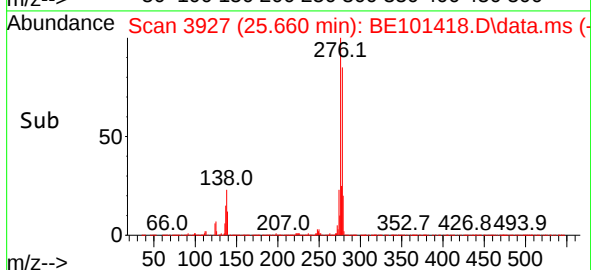
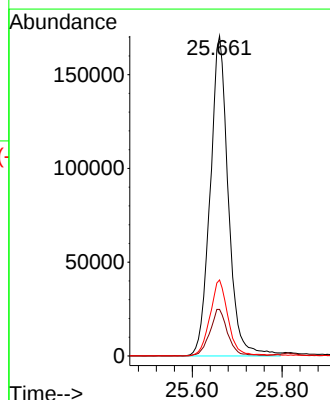
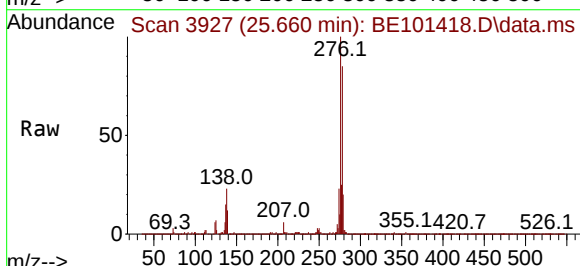
Tgt Ion:278 Resp: 477660

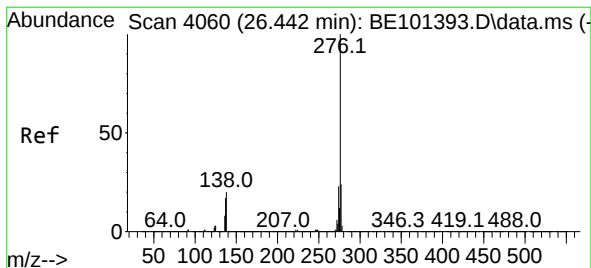
Ion Ratio Lower Upper

278 100

139 14.6 11.9 17.9

279 23.8 19.3 28.9





#92

Benzo(g,h,i)perylene

Concen: 3.277 ng

RT: 26.413 min Scan# 40

Delta R.T. -0.030 min

Lab File: BE101418.D

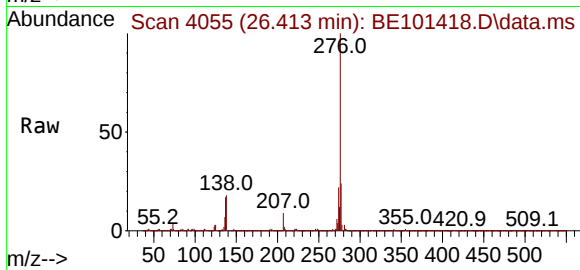
Acq: 30 Oct 2024 11:11

Instrument :

BNA\_E

ClientSampleId :

MDL-SOIL-03-QT4-2024



Tgt Ion:276 Resp: 452317

Ion Ratio Lower Upper

276 100

277 24.2 19.4 29.2

138 18.2 15.8 23.6

