

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM092024\  
 Data File : BM047592.D  
 Acq On : 20 Sep 2024 17:00  
 Operator : RC/JU  
 Sample : P2403-03  
 Misc : MDL-MDL-SOIL 8 ppm  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT2-2024

Quant Time: Sep 21 03:25:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM092024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 21 02:22:39 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.845  | 152  | 297142   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.639 | 136  | 1249095  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.474 | 164  | 669088   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.209 | 188  | 1236282  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.433 | 240  | 1032104  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.462 | 264  | 1097915  | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.422  | 112  | 2251785  | 116.131 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.004  | 99   | 2942130  | 115.157 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.998  | 82   | 1935729  | 77.145  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.956 | 330  | 669544   | 108.068 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.104 | 172  | 3617529  | 76.502  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.827 | 244  | 4125348  | 71.717  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.316  | 88   | 62922    | 7.453   | ng    | 99       |
| 3) Pyridine                   | 3.722  | 79   | 148064   | 6.327   | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.622  | 42   | 69928    | 7.206   | ng    | # 91     |
| 6) Aniline                    | 7.169  | 93   | 190136   | 8.687   | ng    | 99       |
| 8) 2-Chlorophenol             | 7.410  | 128  | 149228   | 7.351   | ng    | 99       |
| 9) Benzaldehyde               | 6.981  | 77   | 140639   | 10.787  | ng    | 99       |
| 10) Phenol                    | 7.034  | 94   | 185025   | 7.294   | ng    | 99       |
| 11) bis(2-Chloroethyl)ether   | 7.269  | 93   | 145676   | 7.145   | ng    | 100      |
| 12) 1,3-Dichlorobenzene       | 7.733  | 146  | 157172   | 7.001   | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 7.881  | 146  | 159934   | 7.041   | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.198  | 146  | 155874   | 7.119   | ng    | 96       |
| 15) Benzyl Alcohol            | 8.081  | 79   | 115444   | 7.003   | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.363  | 45   | 202973   | 7.810   | ng    | 98       |
| 17) 2-Methylphenol            | 8.281  | 107  | 109004   | 6.837   | ng    | 96       |
| 18) Hexachloroethane          | 8.928  | 117  | 64751    | 7.030   | ng    | 92       |
| 19) n-Nitroso-di-n-propyla... | 8.645  | 70   | 106572   | 6.810   | ng    | 98       |
| 20) 3+4-Methylphenols         | 8.604  | 107  | 143563   | 6.611   | ng    | 96       |
| 22) Acetophenone              | 8.663  | 105  | 218522   | 6.715   | ng    | # 99     |
| 24) Nitrobenzene              | 9.039  | 77   | 176822   | 6.823   | ng    | 99       |
| 25) Isophorone                | 9.569  | 82   | 270176   | 6.443   | ng    | 99       |
| 26) 2-Nitrophenol             | 9.751  | 139  | 51167    | 5.615   | ng    | 96       |
| 27) 2,4-Dimethylphenol        | 9.810  | 122  | 88580    | 6.820   | ng    | 95       |
| 28) bis(2-Chloroethoxy)met... | 10.051 | 93   | 179561   | 6.656   | ng    | 96       |
| 29) 2,4-Dichlorophenol        | 10.286 | 162  | 101844   | 6.203   | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 10.504 | 180  | 121877   | 6.512   | ng    | 98       |
| 31) Naphthalene               | 10.692 | 128  | 434823   | 6.580   | ng    | 98       |
| 32) Benzoic acid              | 9.869  | 122  | 51358    | 4.242   | ng    | 95       |
| 33) 4-Chloroaniline           | 10.792 | 127  | 161675   | 6.939   | ng    | 97       |
| 34) Hexachlorobutadiene       | 10.986 | 225  | 63108    | 6.196   | ng    | 99       |
| 35) Caprolactam               | 11.545 | 113  | 30517    | 5.377   | ng    | 95       |
| 36) 4-Chloro-3-methylphenol   | 11.916 | 107  | 108858   | 5.811   | ng    | 97       |
| 37) 2-Methylnaphthalene       | 12.298 | 142  | 260830   | 6.282   | ng    | 100      |
| 38) 1-Methylnaphthalene       | 12.521 | 142  | 241968   | 5.875   | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.668 | 216  | 115483   | 6.540   | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.657 | 237  | 44859    | 7.695   | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 12.910 | 196  | 65957    | 5.748   | ng    | 99       |

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 ALS Vial : 13 Sample Multiplier: 1

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 BNA\_M  
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 MDL-SOIL-03-QT2-2024

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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 21 02:22:39 2024  
 Response via : Initial Calibration

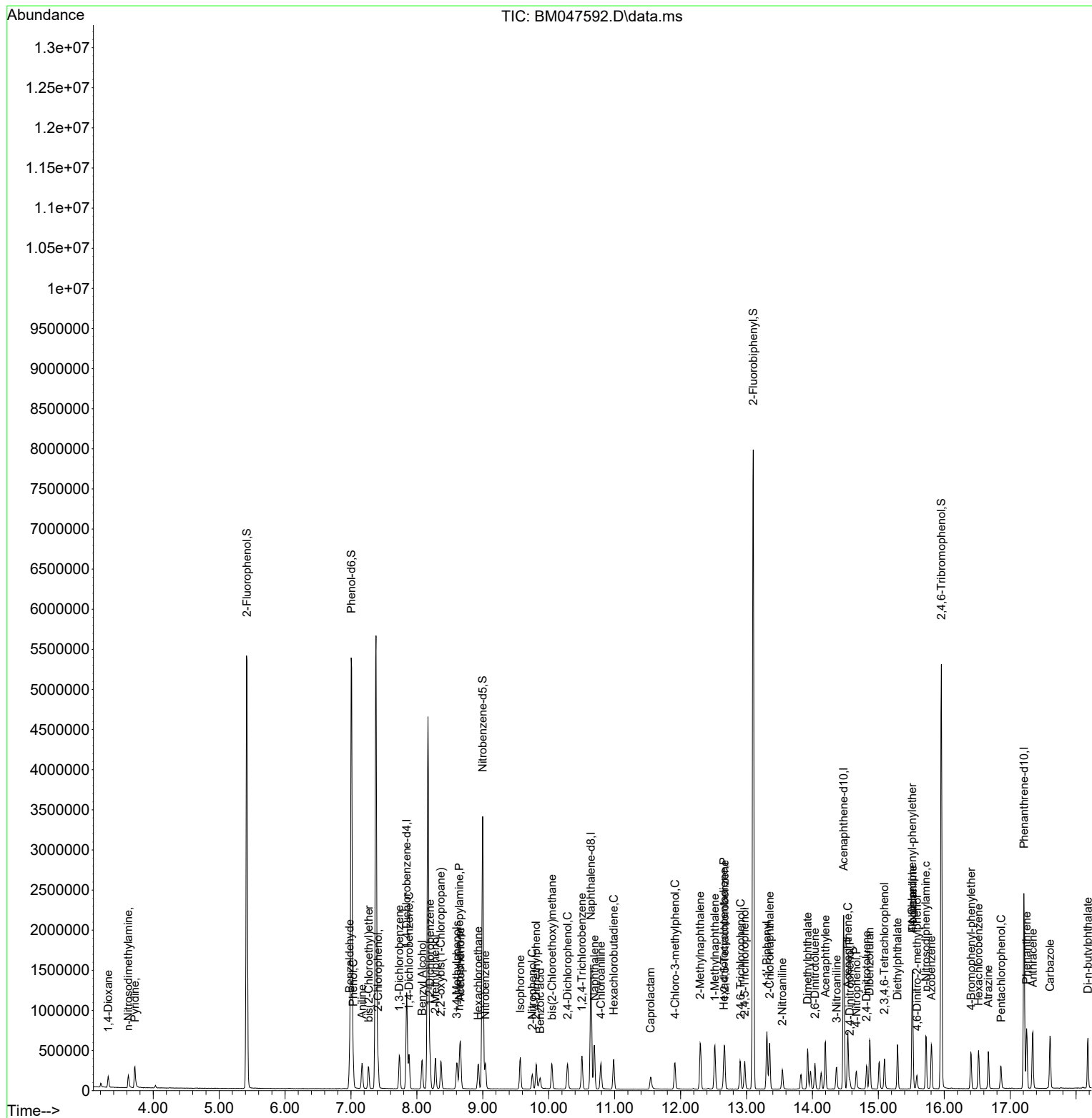
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.974 | 196  | 72821    | 5.646  | ng    | 96       |
| 46) 1,1'-Biphenyl             | 13.310 | 154  | 348797   | 6.750  | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.351 | 162  | 254367   | 6.291  | ng    | 99       |
| 48) 2-Nitroaniline            | 13.545 | 65   | 62775    | 5.198  | ng    | 97       |
| 49) Acenaphthylene            | 14.198 | 152  | 388556   | 6.678  | ng    | 100      |
| 50) Dimethylphthalate         | 13.927 | 163  | 291743   | 6.315  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.039 | 165  | 51790    | 5.351  | ng    | 98       |
| 52) Acenaphthene              | 14.539 | 154  | 240358   | 6.253  | ng    | 98       |
| 53) 3-Nitroaniline            | 14.368 | 138  | 58622    | 5.281  | ng #  | 92       |
| 54) 2,4-Dinitrophenol         | 14.568 | 184  | 16970    | 3.868  | ng    | 98       |
| 55) Dibenzofuran              | 14.868 | 168  | 361228   | 6.431  | ng    | 100      |
| 56) 4-Nitrophenol             | 14.668 | 139  | 47047    | 4.946  | ng    | 95       |
| 57) 2,4-Dinitrotoluene        | 14.821 | 165  | 61759    | 4.789  | ng #  | 83       |
| 58) Fluorene                  | 15.521 | 166  | 284156   | 5.716  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 15.092 | 232  | 57771    | 5.859  | ng    | 99       |
| 60) Diethylphthalate          | 15.292 | 149  | 292855   | 5.946  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.515 | 204  | 123602   | 5.690  | ng    | 98       |
| 62) 4-Nitroaniline            | 15.521 | 138  | 57818    | 4.623  | ng    | 98       |
| 63) Azobenzene                | 15.804 | 77   | 333548   | 6.195  | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.586 | 198  | 24076    | 4.110  | ng    | 90       |
| 66) n-Nitrosodiphenylamine    | 15.721 | 169  | 227963   | 6.174  | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 16.409 | 248  | 66941    | 5.961  | ng    | 93       |
| 68) Hexachlorobenzene         | 16.521 | 284  | 78146    | 5.952  | ng    | 98       |
| 69) Atrazine                  | 16.668 | 200  | 62471    | 7.028  | ng    | 96       |
| 70) Pentachlorophenol         | 16.862 | 266  | 39876    | 4.839  | ng    | 95       |
| 71) Phenanthrene              | 17.251 | 178  | 414505   | 6.177  | ng    | 100      |
| 72) Anthracene                | 17.345 | 178  | 392016   | 6.166  | ng    | 99       |
| 73) Carbazole                 | 17.603 | 167  | 384043   | 5.797  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.180 | 149  | 430715   | 5.375  | ng    | 98       |
| 75) Fluoranthene              | 19.256 | 202  | 396486   | 5.367  | ng    | 98       |
| 77) Benzidine                 | 19.439 | 184  | 151996   | 10.814 | ng    | 100      |
| 78) Pyrene                    | 19.621 | 202  | 421499   | 5.835  | ng    | 100      |
| 80) Butylbenzylphthalate      | 20.521 | 149  | 161138   | 5.124  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.415 | 228  | 433109   | 6.382  | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.338 | 252  | 120917   | 5.737  | ng    | 99       |
| 83) Chrysene                  | 21.480 | 228  | 404204   | 6.263  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.350 | 149  | 258871   | 5.146  | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.491 | 149  | 388774   | 5.009  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.873 | 276  | 472630   | 6.260  | ng #  | 89       |
| 88) Benzo(b)fluoranthene      | 23.503 | 252  | 394747   | 5.721  | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.562 | 252  | 409542   | 6.046  | ng    | 98       |
| 90) Benzo(a)pyrene            | 24.315 | 252  | 355782   | 6.081  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 27.938 | 278  | 383531   | 6.082  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 28.938 | 276  | 367723   | 5.818  | ng    | 99       |

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

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 ALS Vial : 13 Sample Multiplier: 1

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 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT2-2024

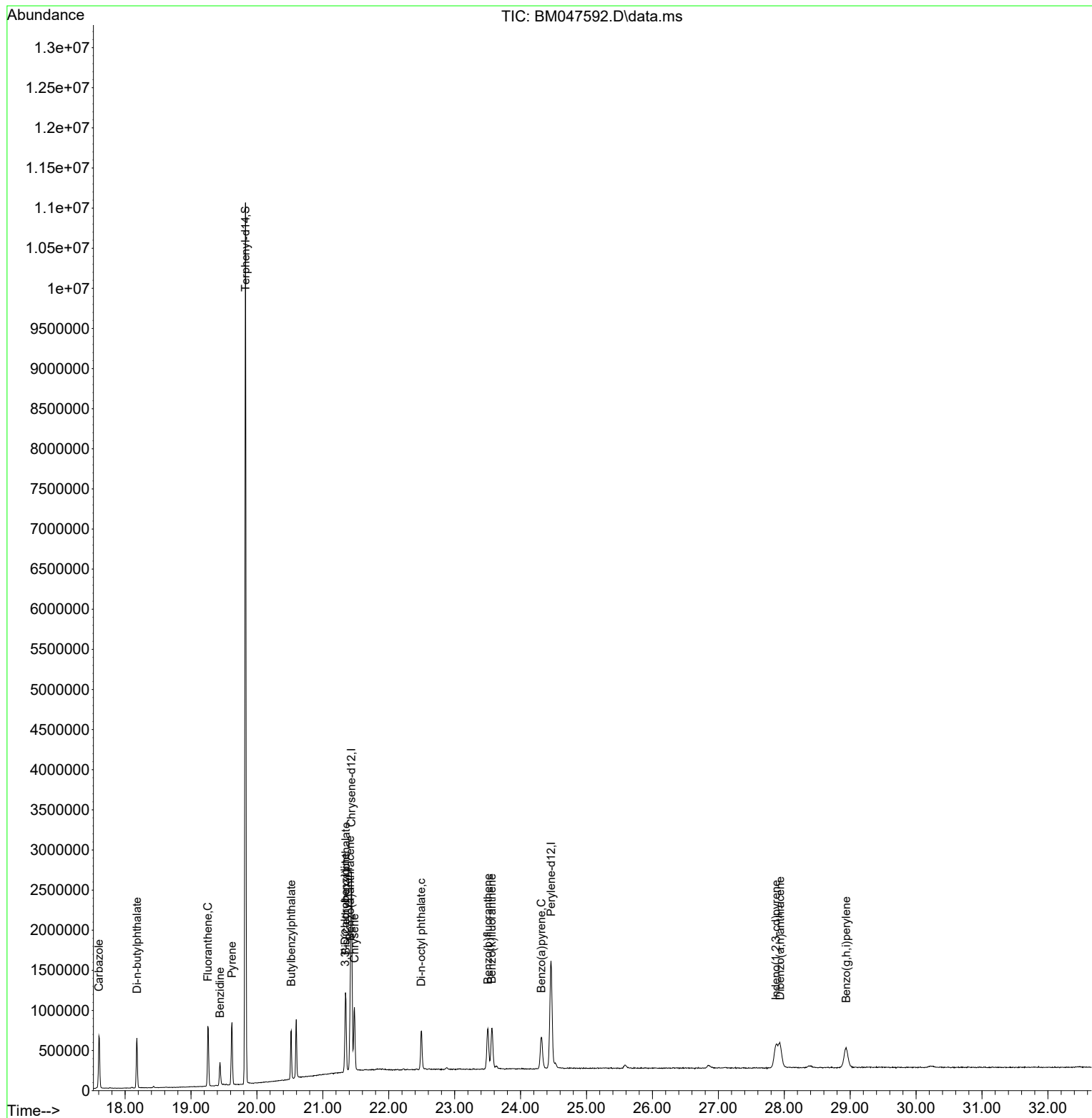
Quant Time: Sep 21 03:25:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM092024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 21 02:22:39 2024  
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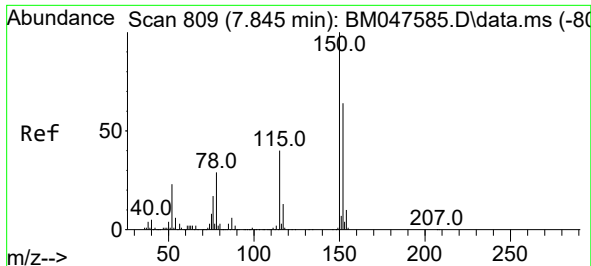


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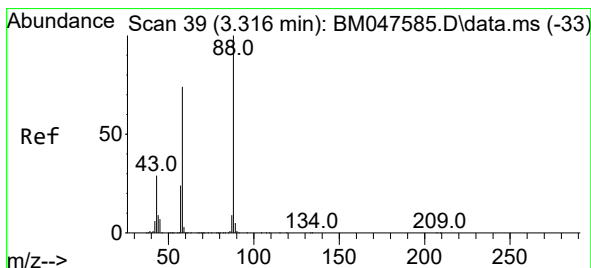
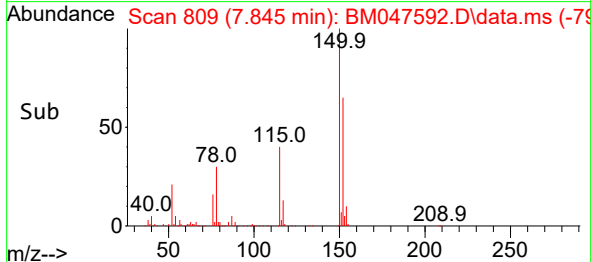
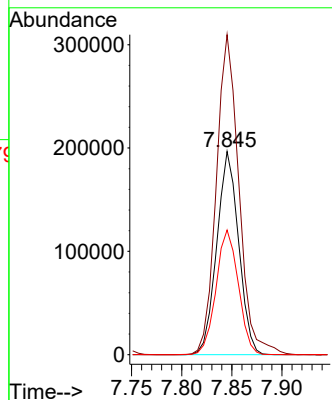
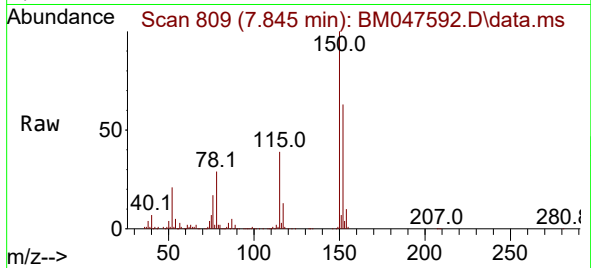




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.845 min Scan# 809  
Delta R.T. 0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

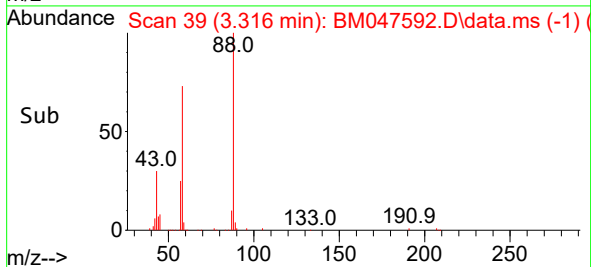
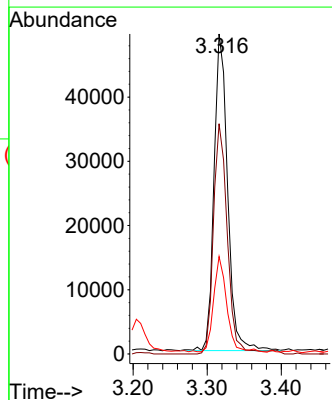
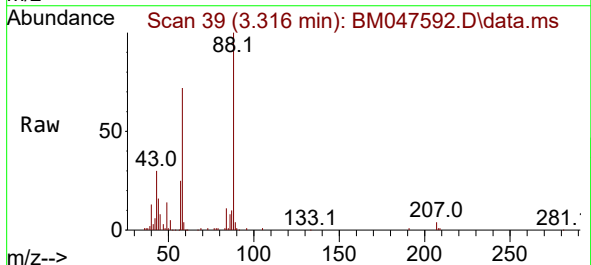
Instrument :  
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ClientSampleId :  
MDL-SOIL-03-QT2-2024

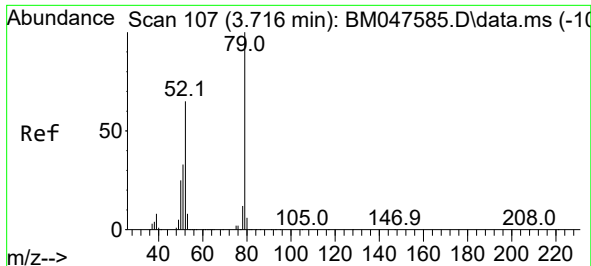
Tgt Ion:152 Resp: 297142  
Ion Ratio Lower Upper  
152 100  
150 157.5 124.5 186.7  
115 61.4 49.9 74.9



#2  
1,4-Dioxane  
Concen: 7.453 ng  
RT: 3.316 min Scan# 39  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion: 88 Resp: 62922  
Ion Ratio Lower Upper  
88 100  
58 73.9 58.0 87.0  
43 29.1 23.1 34.7

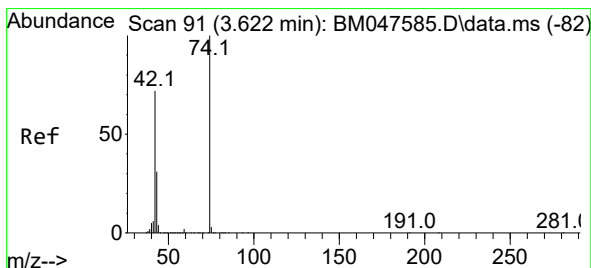
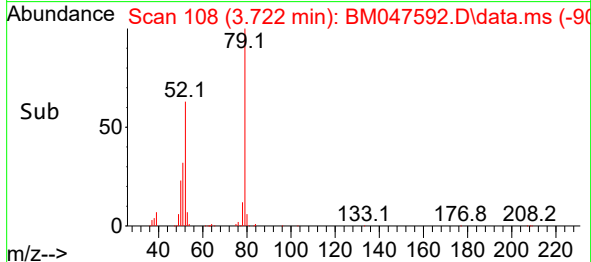
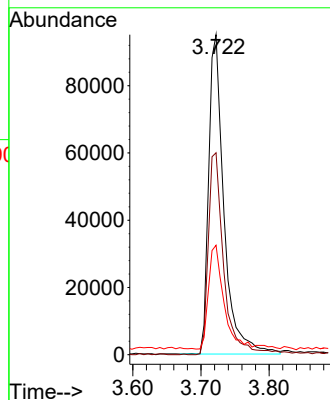
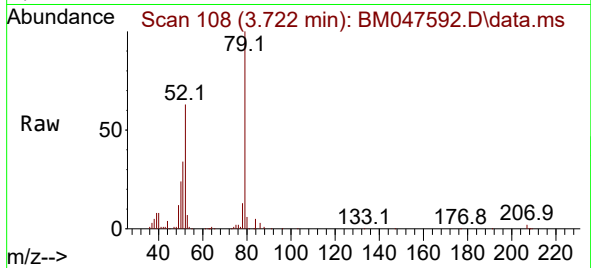




#3  
Pyridine  
Concen: 6.327 ng  
RT: 3.722 min Scan# 107  
Delta R.T. 0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

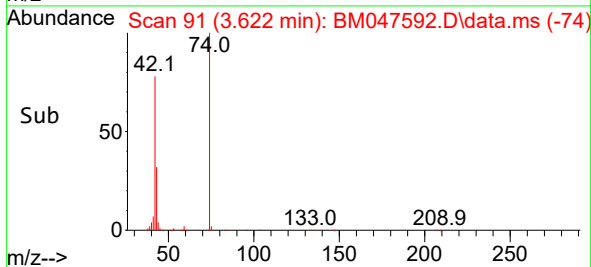
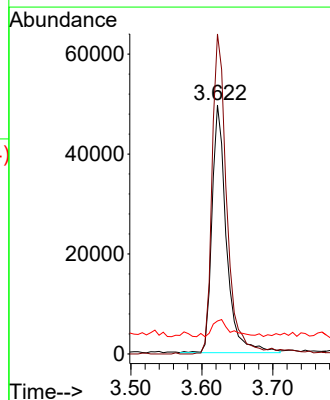
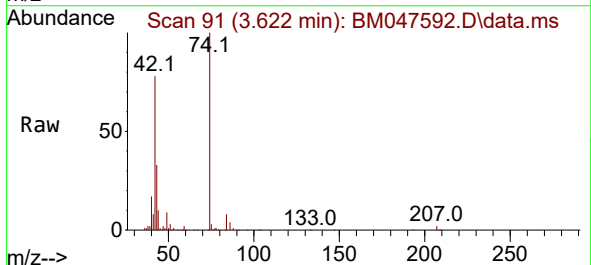
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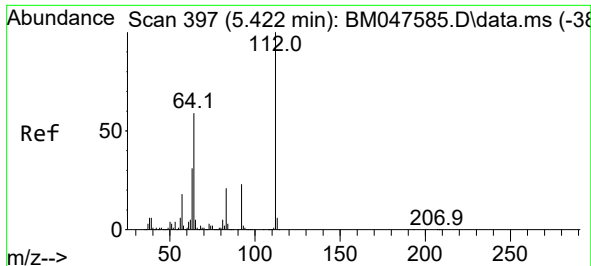
Tgt Ion: 79 Resp: 148064  
Ion Ratio Lower Upper  
79 100  
52 63.1 52.2 78.2  
51 34.2 26.5 39.7



#4  
n-Nitrosodimethylamine  
Concen: 7.206 ng  
RT: 3.622 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion: 42 Resp: 69928  
Ion Ratio Lower Upper  
42 100  
74 128.5 110.8 166.2  
44 13.2 6.1 9.1#

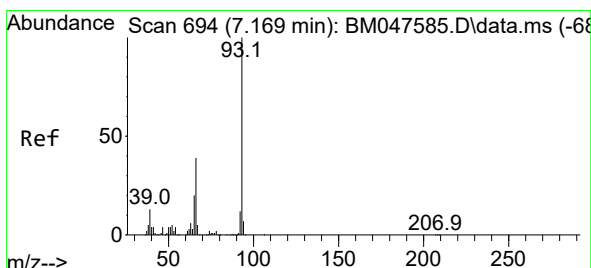
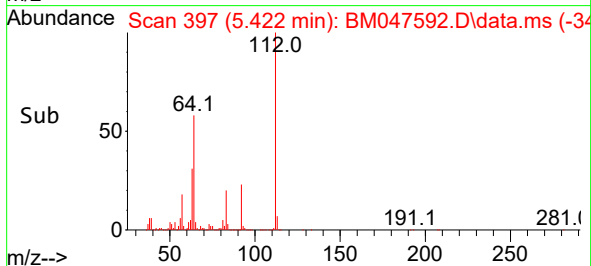
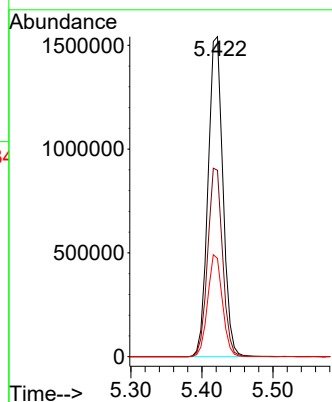
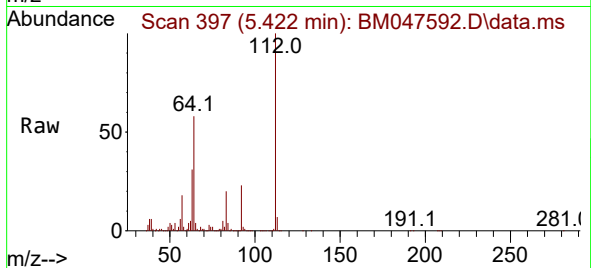




#5  
2-Fluorophenol  
Concen: 116.131 ng  
RT: 5.422 min Scan# 397  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

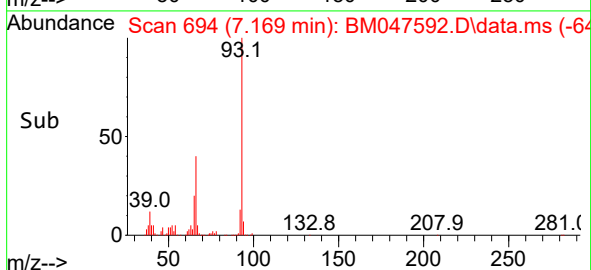
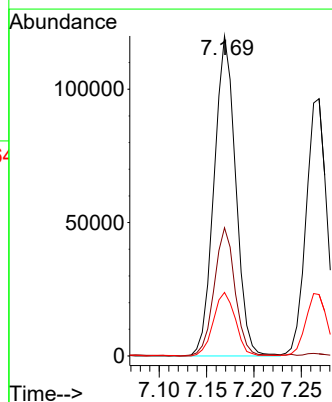
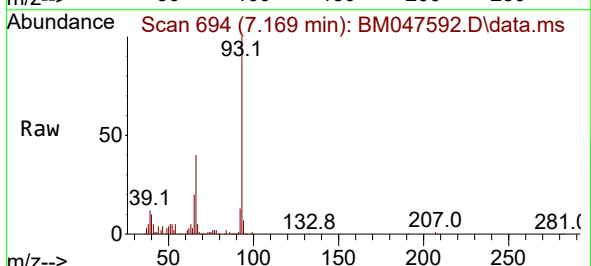
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MDL-SOIL-03-QT2-2024

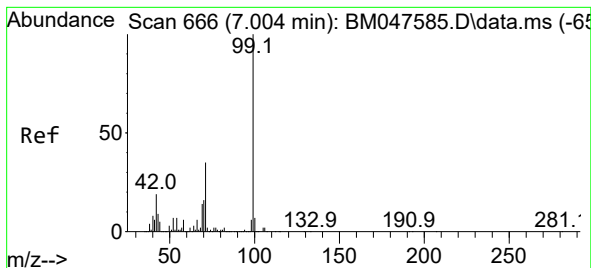
Tgt Ion:112 Resp: 2251785  
Ion Ratio Lower Upper  
112 100  
64 58.2 46.8 70.2  
63 30.7 25.2 37.8



#6  
Aniline  
Concen: 8.687 ng  
RT: 7.169 min Scan# 694  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion: 93 Resp: 190136  
Ion Ratio Lower Upper  
93 100  
66 40.1 31.4 47.0  
65 19.8 16.2 24.2





#7

Phenol-d6

Concen: 115.157 ng

RT: 7.004 min Scan# 6

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

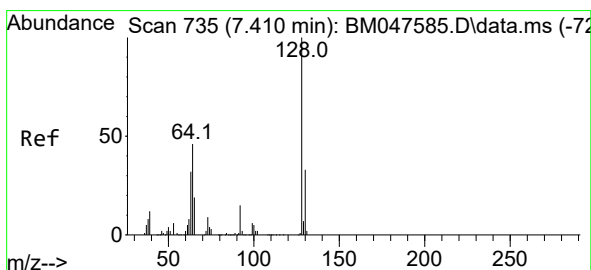
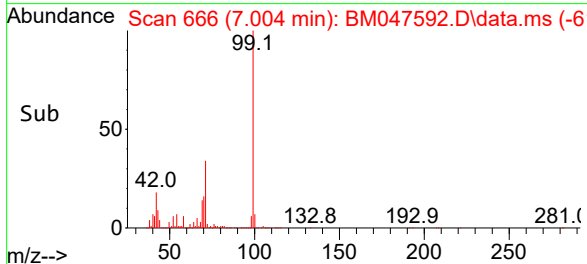
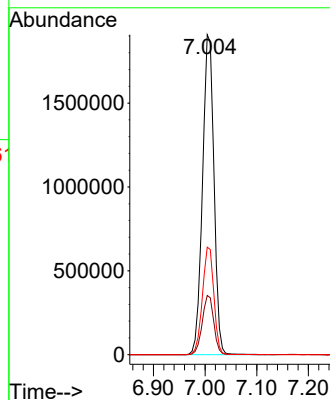
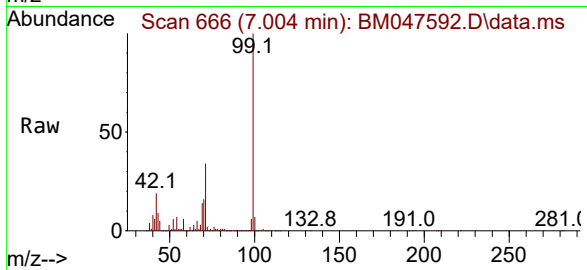
BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

Tgt Ion: 99 Resp: 2942130

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 18.5  | 15.3  | 22.9  |
| 71  | 33.6  | 27.8  | 41.6  |



#8

2-Chlorophenol

Concen: 7.351 ng

RT: 7.410 min Scan# 735

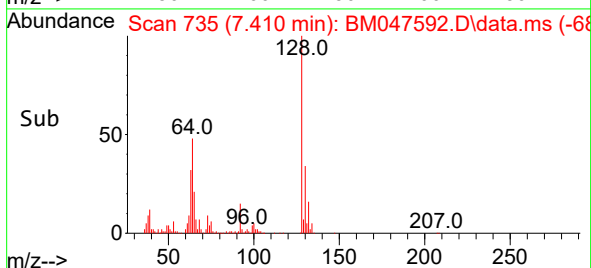
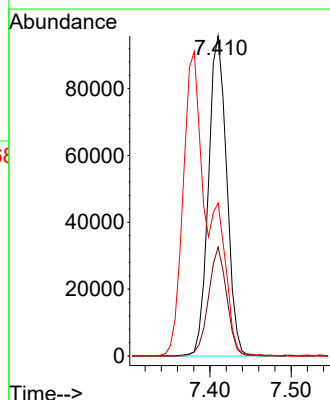
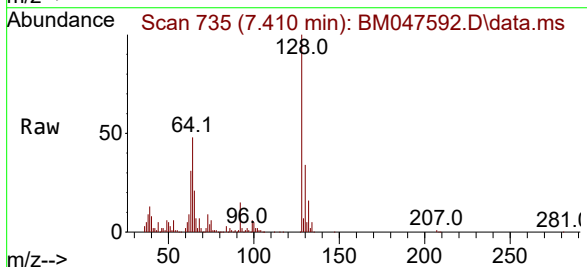
Delta R.T. -0.000 min

Lab File: BM047592.D

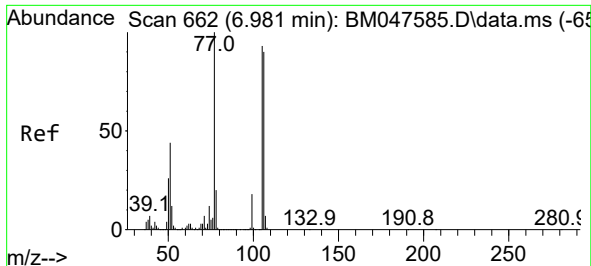
Acq: 20 Sep 2024 17:00

Tgt Ion:128 Resp: 149228

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 130 | 34.0  | 12.6  | 52.6  |
| 64  | 47.8  | 27.6  | 67.6  |



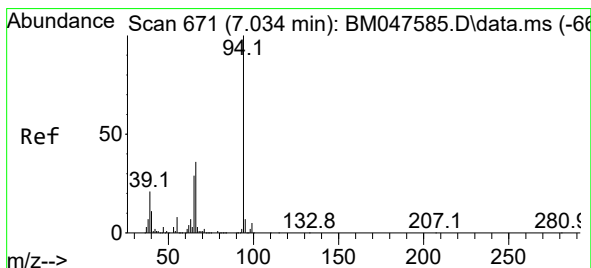
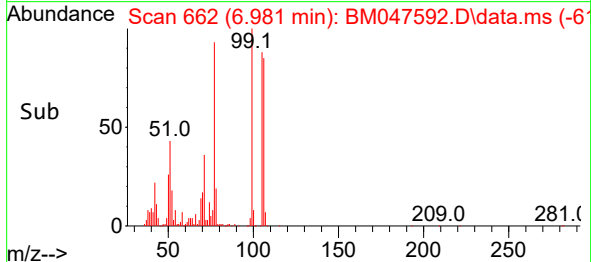
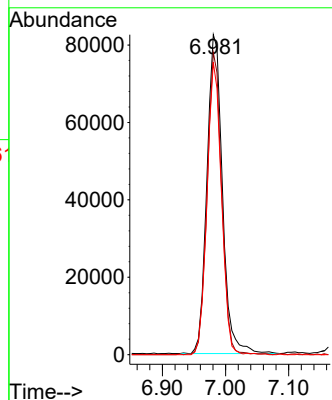
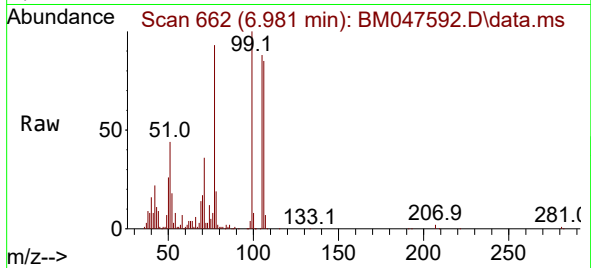




#9  
Benzaldehyde  
Concen: 10.787 ng  
RT: 6.981 min Scan# 662  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

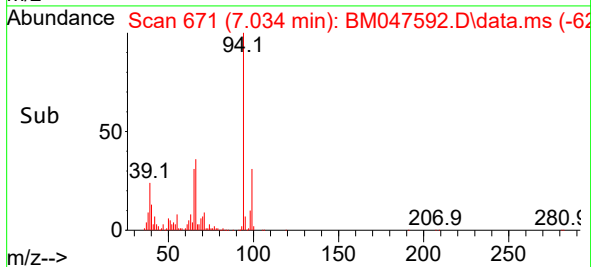
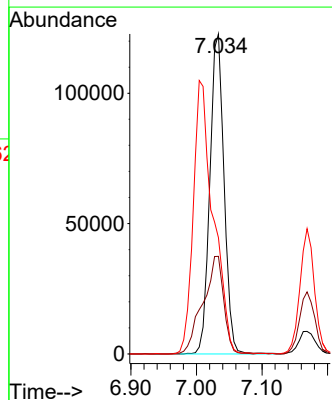
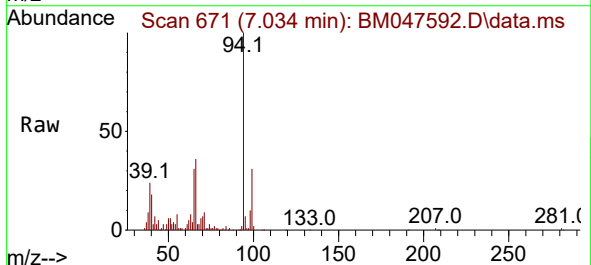
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

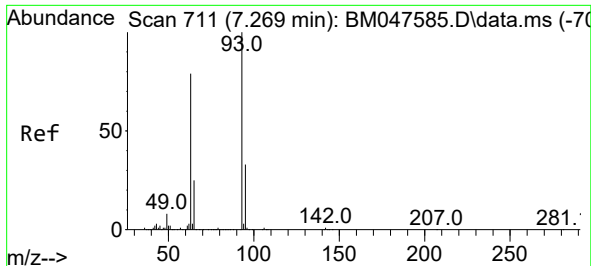
Tgt Ion: 77 Resp: 140639  
Ion Ratio Lower Upper  
77 100  
105 94.4 73.0 113.0  
106 91.4 70.3 110.3



#10  
Phenol  
Concen: 7.294 ng  
RT: 7.034 min Scan# 671  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion: 94 Resp: 185025  
Ion Ratio Lower Upper  
94 100  
65 30.5 9.1 49.1  
66 36.3 16.5 56.5

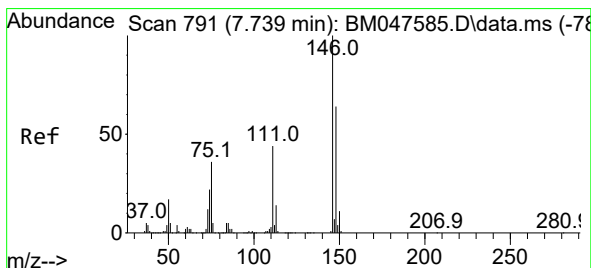
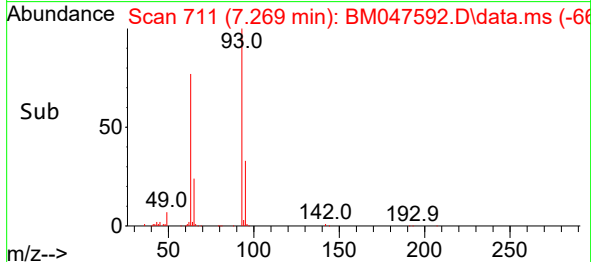
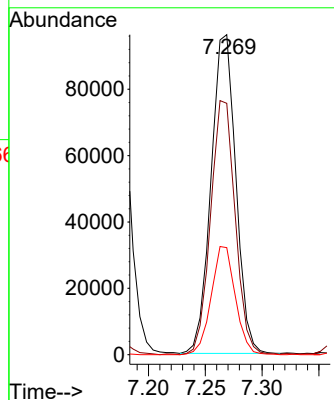
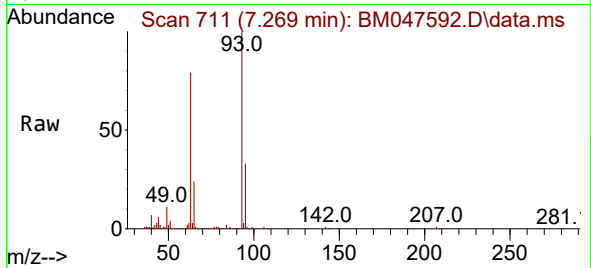




#11  
bis(2-Chloroethyl)ether  
Concen: 7.145 ng  
RT: 7.269 min Scan# 711  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

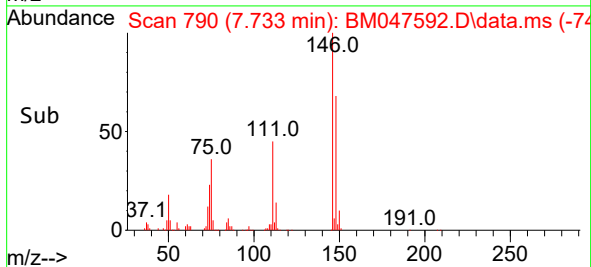
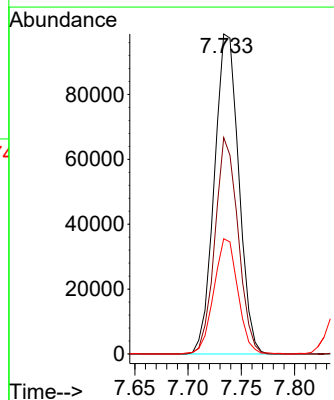
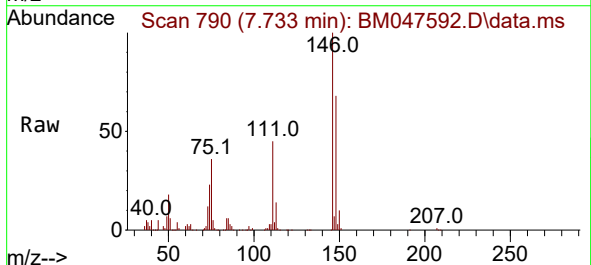
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

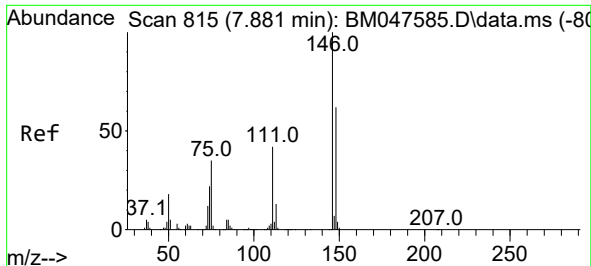
Tgt Ion: 93 Resp: 145676  
Ion Ratio Lower Upper  
93 100  
63 78.6 58.5 98.5  
95 33.5 12.9 52.9



#12  
1,3-Dichlorobenzene  
Concen: 7.001 ng  
RT: 7.733 min Scan# 790  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion: 146 Resp: 157172  
Ion Ratio Lower Upper  
146 100  
148 67.6 51.4 77.2  
75 36.0 28.4 42.6

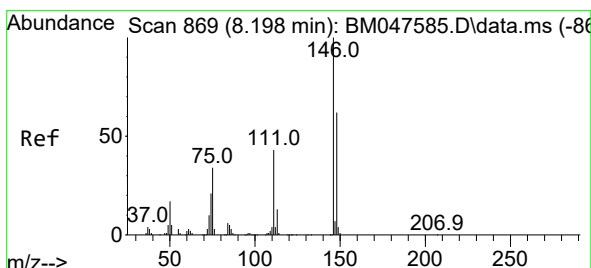
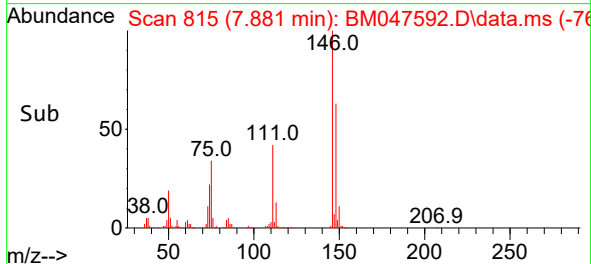
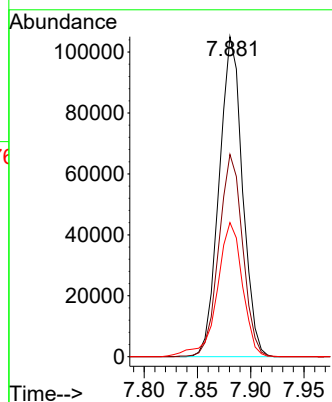
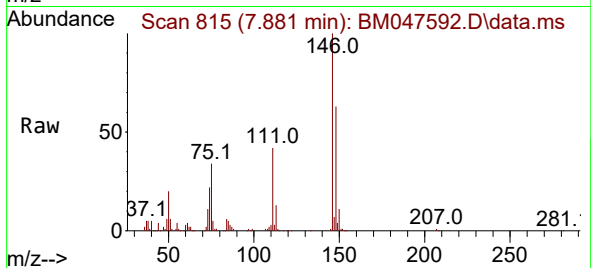




#13  
1,4-Dichlorobenzene  
Concen: 7.041 ng  
RT: 7.881 min Scan# 815  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

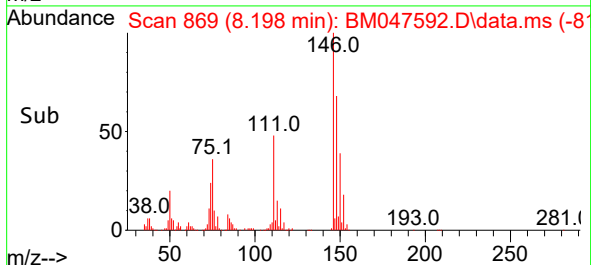
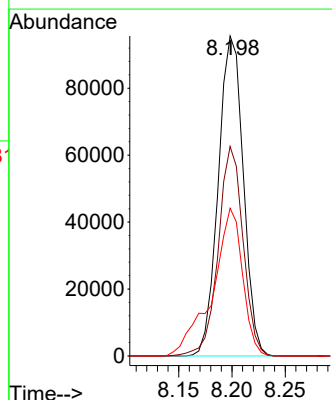
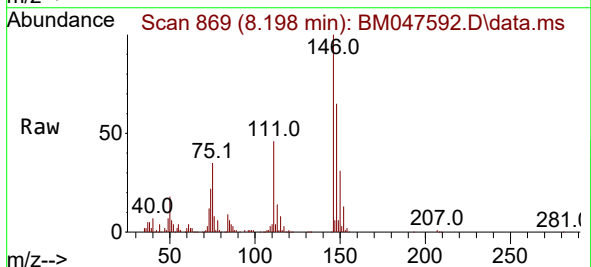
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

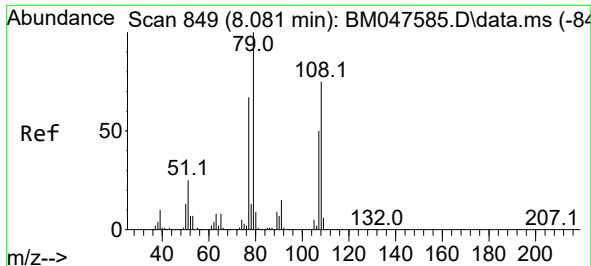
Tgt Ion:146 Resp: 159934  
Ion Ratio Lower Upper  
146 100  
148 63.2 49.8 74.6  
111 41.9 33.3 49.9



#14  
1,2-Dichlorobenzene  
Concen: 7.119 ng  
RT: 8.198 min Scan# 869  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:146 Resp: 155874  
Ion Ratio Lower Upper  
146 100  
148 65.5 49.7 74.5  
111 46.1 34.8 52.2

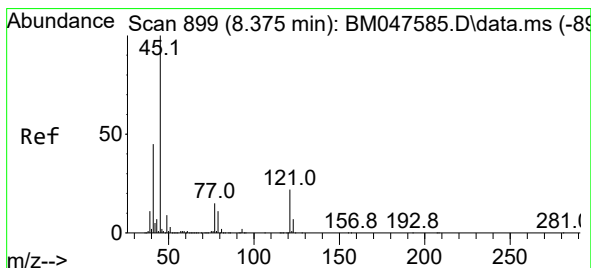
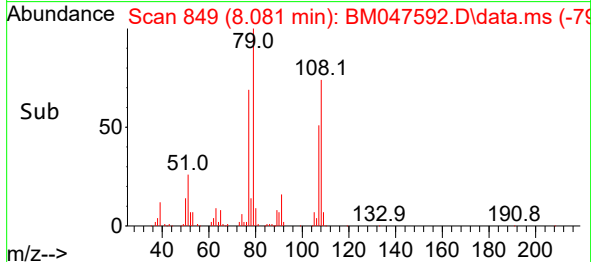
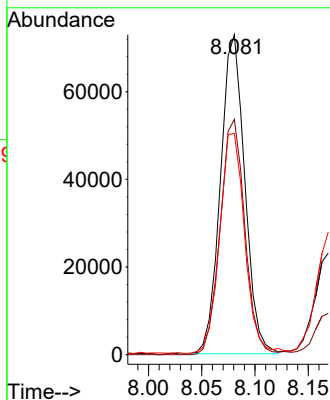
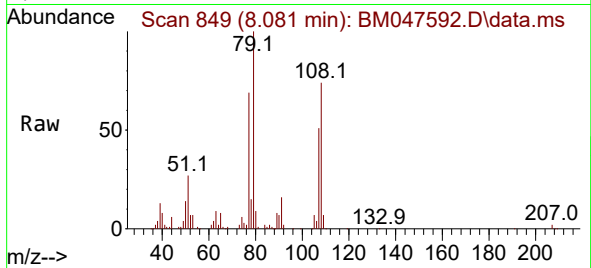




#15  
Benzyl Alcohol  
Concen: 7.003 ng  
RT: 8.081 min Scan# 849  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

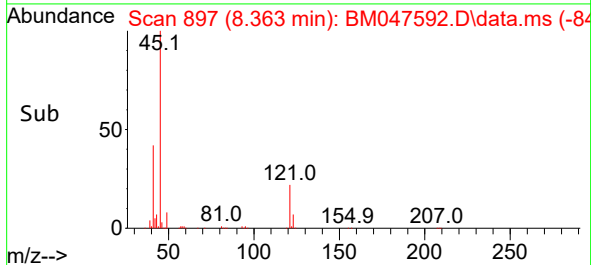
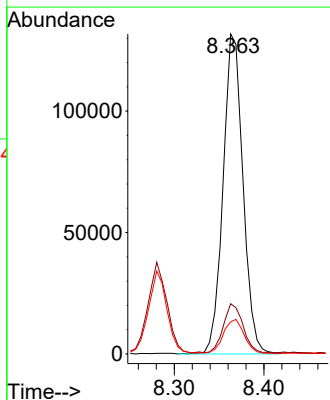
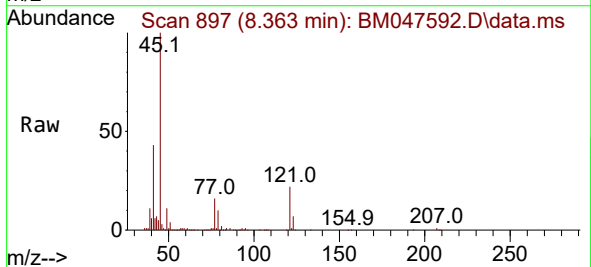
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

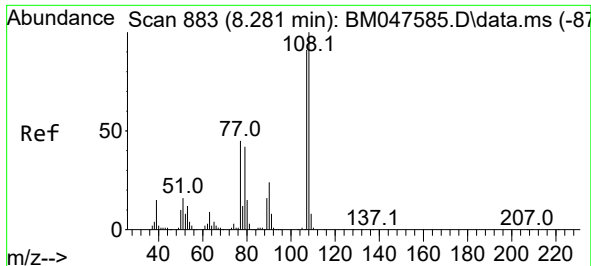
Tgt Ion: 79 Resp: 115444  
Ion Ratio Lower Upper  
79 100  
108 73.5 60.2 90.2  
77 69.2 53.9 80.9



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 7.810 ng  
RT: 8.363 min Scan# 897  
Delta R.T. -0.012 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion: 45 Resp: 202973  
Ion Ratio Lower Upper  
45 100  
77 15.7 0.0 35.5  
79 10.0 0.0 31.6

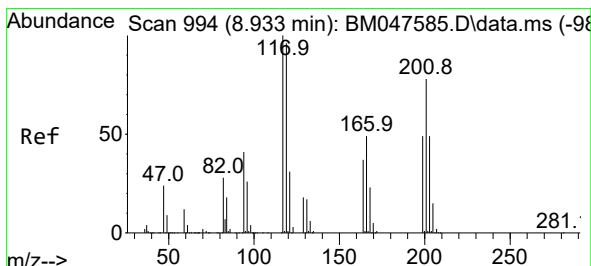
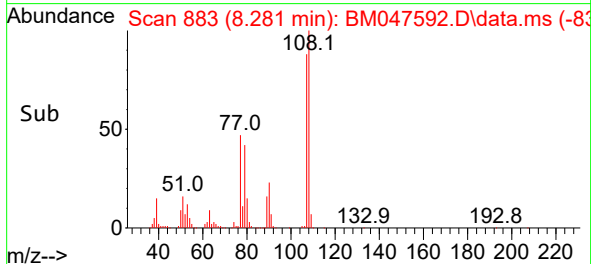
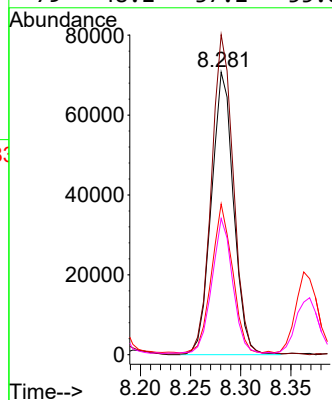
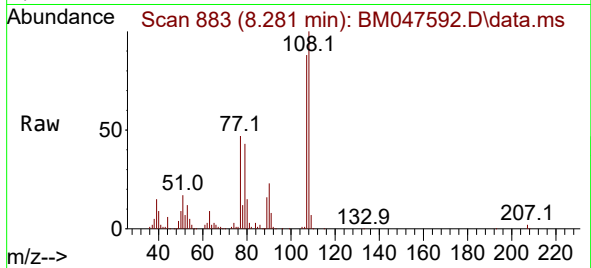




#17  
2-Methylphenol  
Concen: 6.837 ng  
RT: 8.281 min Scan# 883  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

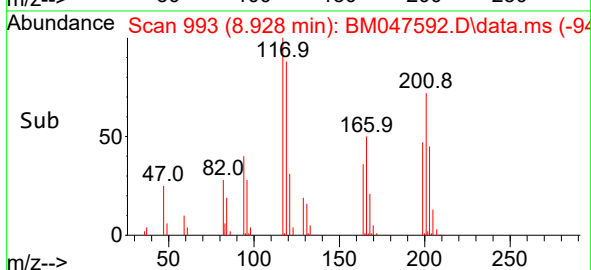
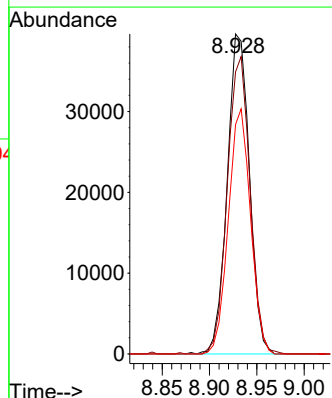
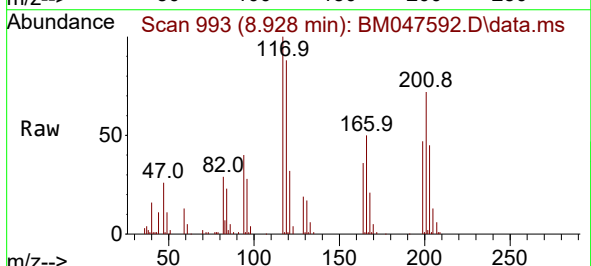
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

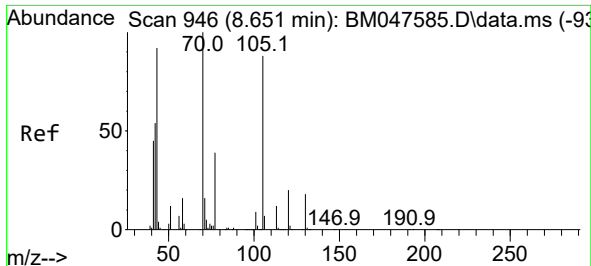
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 109004 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 113.3 | 87.8  | 131.6  |
| 77       | 53.4  | 39.6  | 59.4   |
| 79       | 48.2  | 37.2  | 55.8   |



#18  
Hexachloroethane  
Concen: 7.030 ng  
RT: 8.928 min Scan# 993  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 64751 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 88.2  | 77.2  | 115.8 |
| 201      | 71.7  | 62.3  | 93.5  |

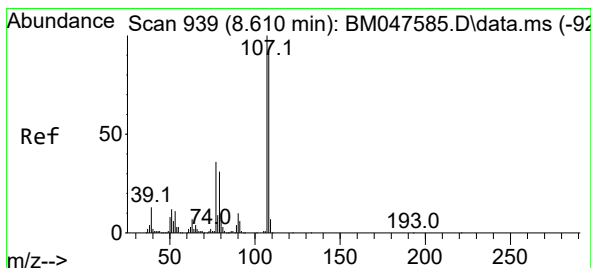
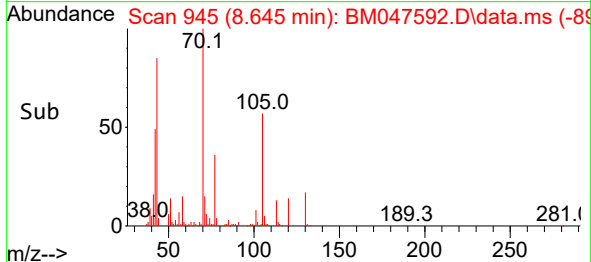
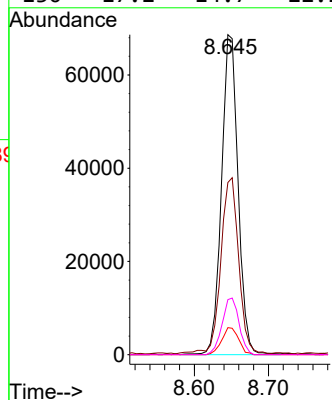
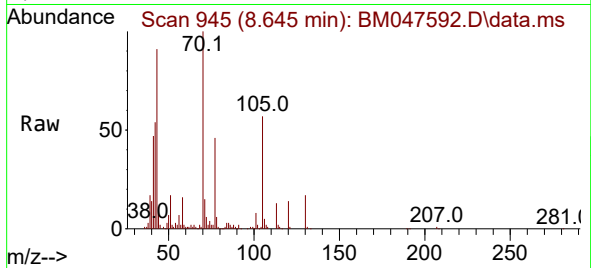




#19  
n-Nitroso-di-n-propylamine  
Concen: 6.810 ng  
RT: 8.645 min Scan# 946  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

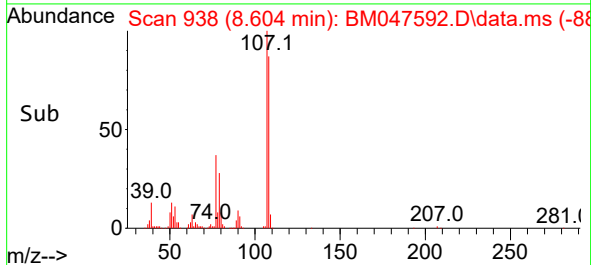
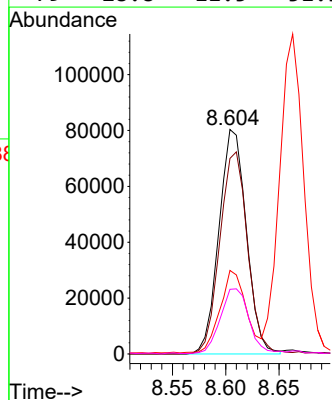
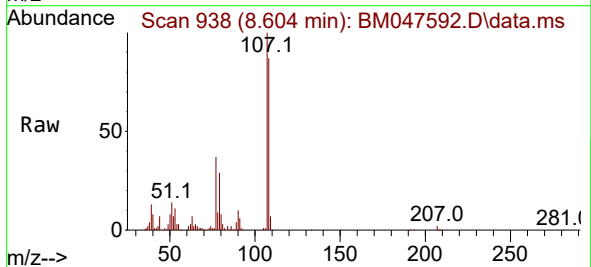
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

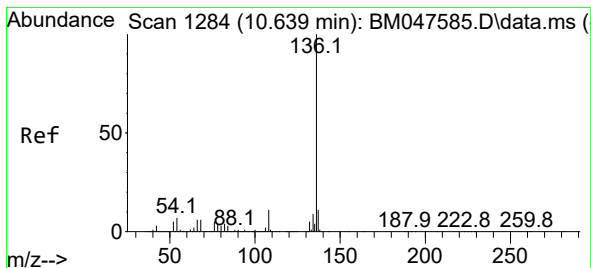
Tgt Ion: 70 Resp: 106572  
Ion Ratio Lower Upper  
70 100  
42 53.8 44.2 66.2  
101 8.4 7.0 10.4  
130 17.2 14.7 22.1



#20  
3+4-Methylphenols  
Concen: 6.611 ng  
RT: 8.604 min Scan# 938  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion: 107 Resp: 143563  
Ion Ratio Lower Upper  
107 100  
108 87.1 71.8 111.8  
77 37.2 16.1 56.1  
79 28.8 11.5 51.5

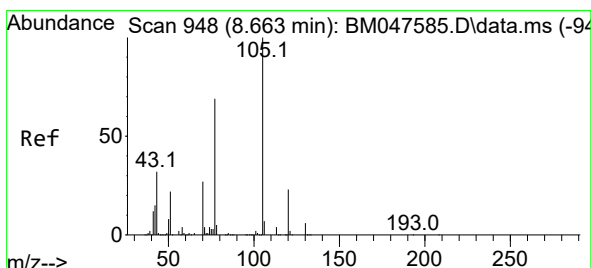
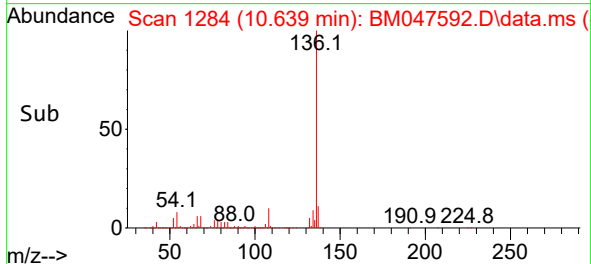
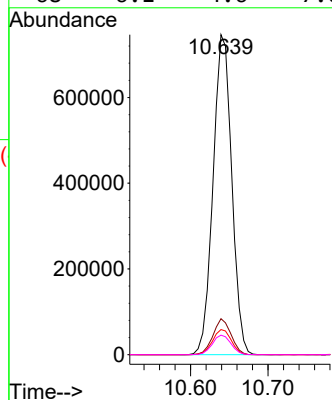
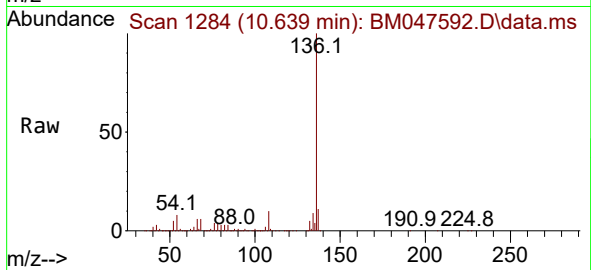




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.639 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

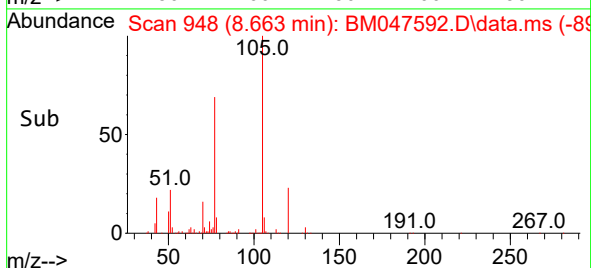
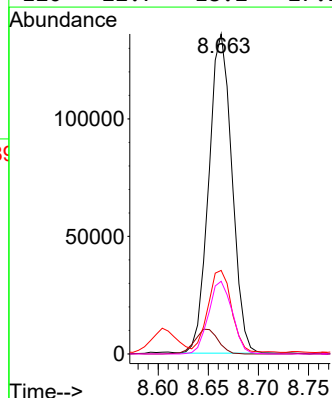
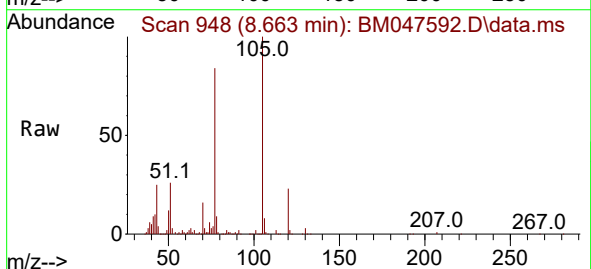
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

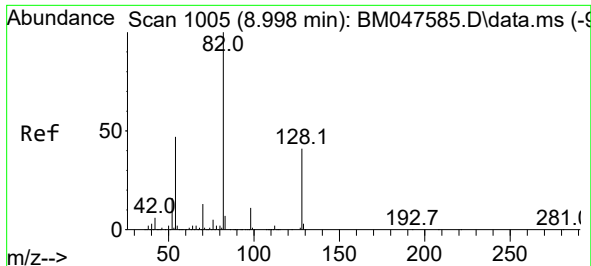
Tgt Ion:136 Resp: 1249095  
Ion Ratio Lower Upper  
136 100  
137 11.3 9.0 13.4  
54 7.8 6.0 9.0  
68 6.1 4.6 7.0



#22  
Acetophenone  
Concen: 6.715 ng  
RT: 8.663 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:105 Resp: 218522  
Ion Ratio Lower Upper  
105 100  
71 2.9 3.4 5.2#  
51 26.1 21.4 32.2  
120 22.7 18.2 27.2

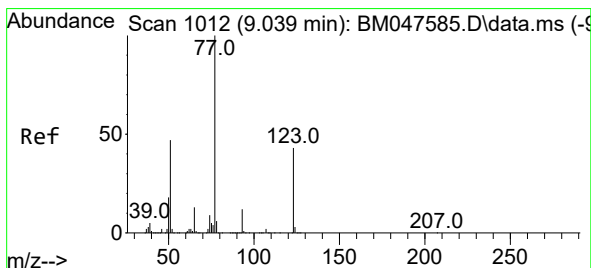
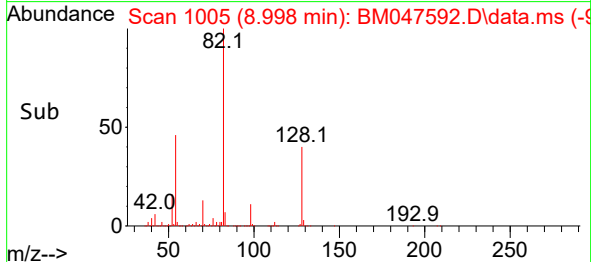
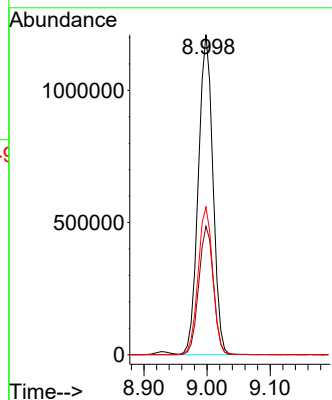
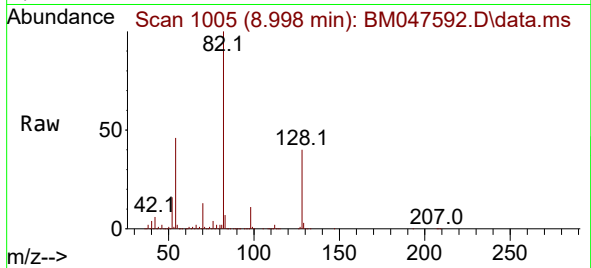




#23  
Nitrobenzene-d5  
Concen: 77.145 ng  
RT: 8.998 min Scan# 1005  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

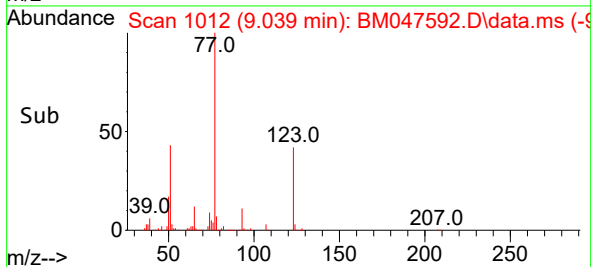
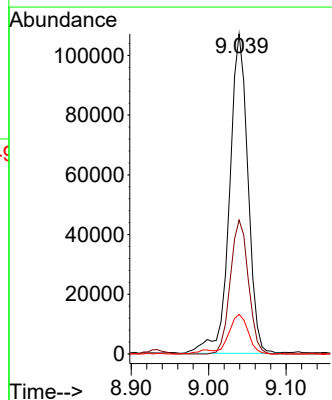
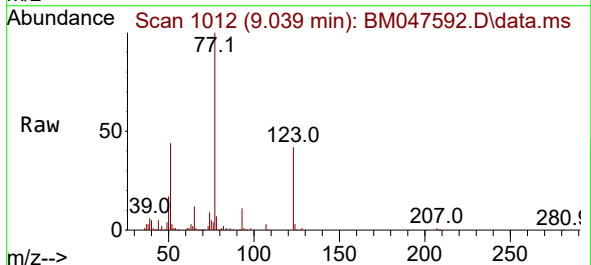
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

Tgt Ion: 82 Resp: 1935729  
Ion Ratio Lower Upper  
82 100  
128 40.1 32.5 48.7  
54 46.1 37.5 56.3

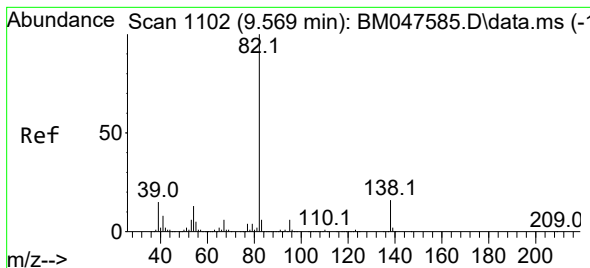


#24  
Nitrobenzene  
Concen: 6.823 ng  
RT: 9.039 min Scan# 1012  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion: 77 Resp: 176822  
Ion Ratio Lower Upper  
77 100  
123 41.9 34.1 51.1  
65 12.3 10.7 16.1







#25

Isophorone

Concen: 6.443 ng

RT: 9.569 min Scan# 1102

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

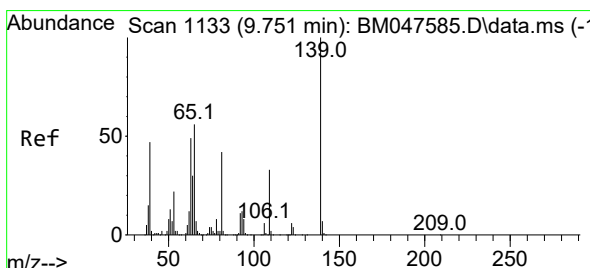
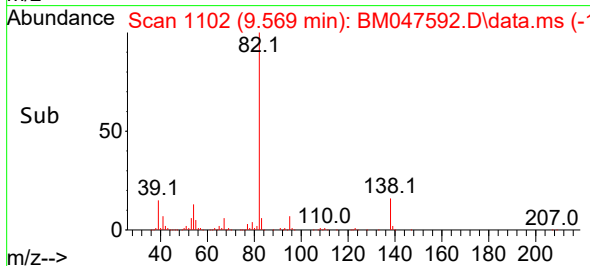
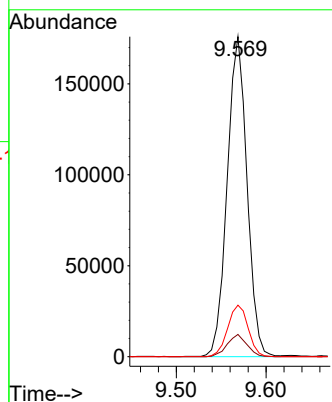
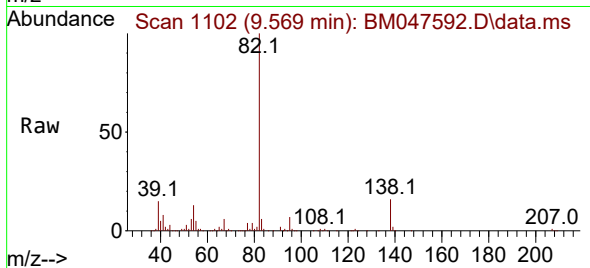
Tgt Ion: 82 Resp: 270176

Ion Ratio Lower Upper

82 100

95 7.0 5.0 7.6

138 16.1 12.9 19.3



#26

2-Nitrophenol

Concen: 5.615 ng

RT: 9.751 min Scan# 1133

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

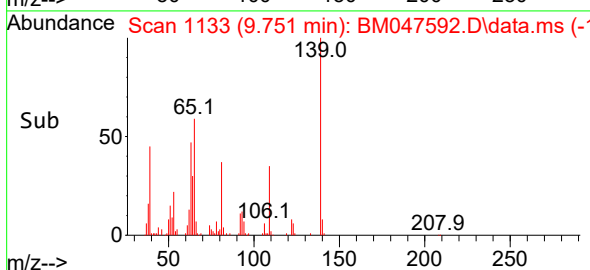
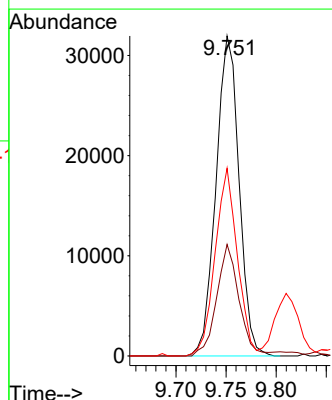
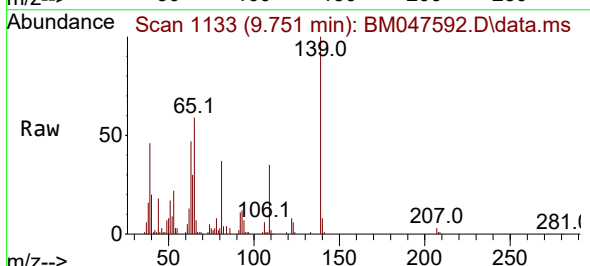
Tgt Ion: 139 Resp: 51167

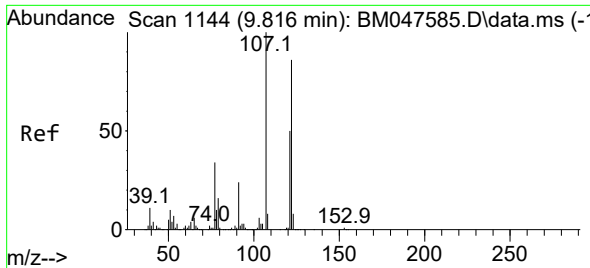
Ion Ratio Lower Upper

139 100

109 34.9 26.1 39.1

65 58.7 44.7 67.1

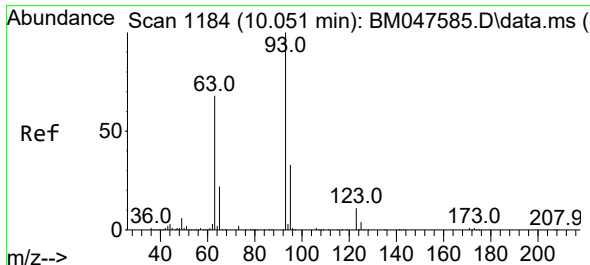
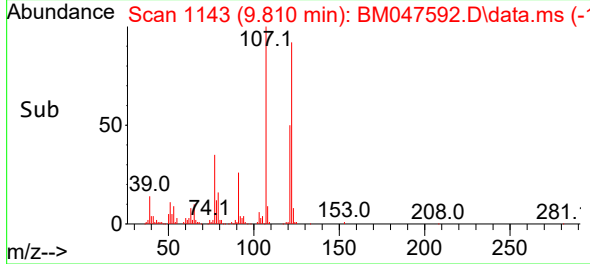
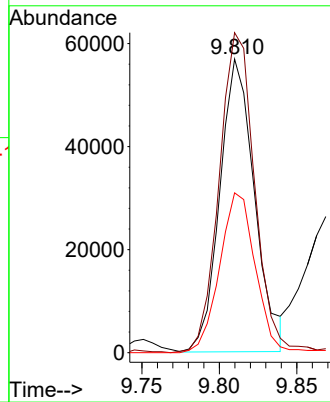
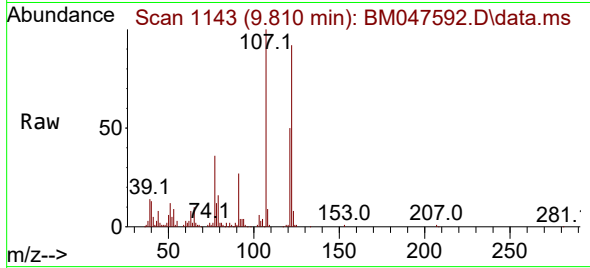




#27  
2,4-Dimethylphenol  
Concen: 6.820 ng  
RT: 9.810 min Scan# 1143  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

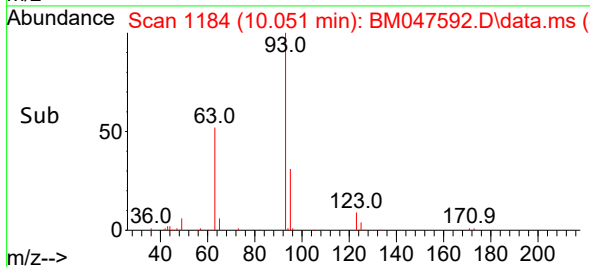
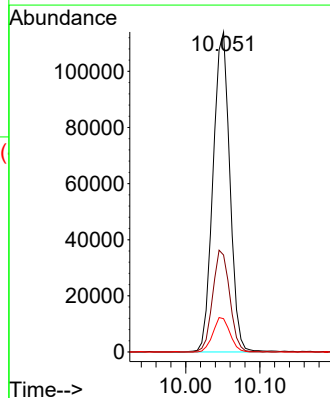
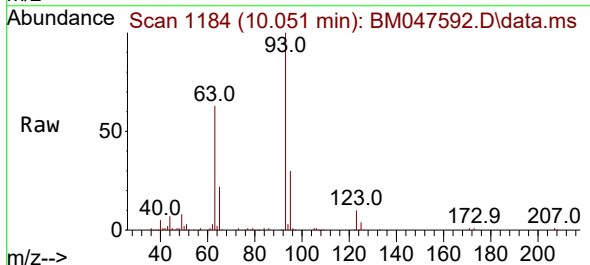
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

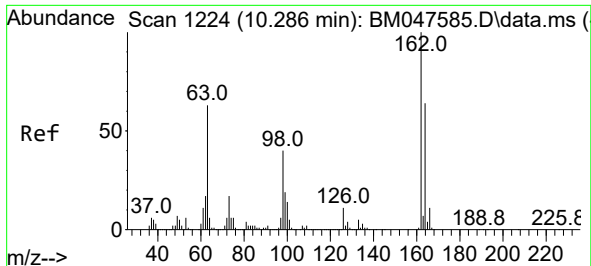
Tgt Ion:122 Resp: 88580  
Ion Ratio Lower Upper  
122 100  
107 109.0 92.2 138.2  
121 54.5 45.8 68.6



#28  
bis(2-Chloroethoxy)methane  
Concen: 6.656 ng  
RT: 10.051 min Scan# 1184  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion: 93 Resp: 179561  
Ion Ratio Lower Upper  
93 100  
95 30.3 26.2 39.4  
123 10.4 9.0 13.4





#29

2,4-Dichlorophenol

Concen: 6.203 ng

RT: 10.286 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

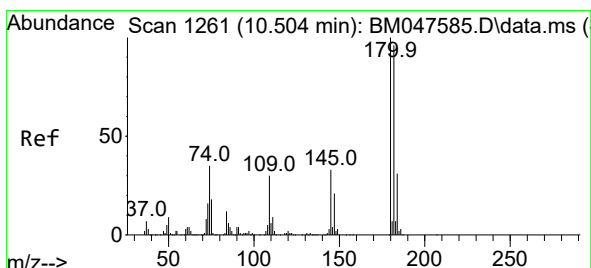
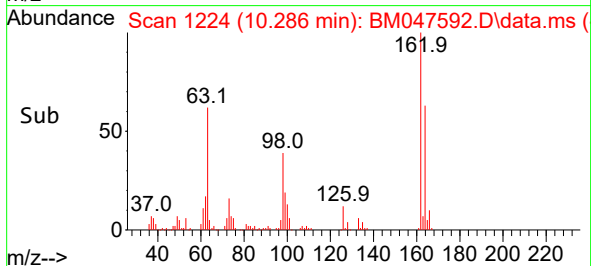
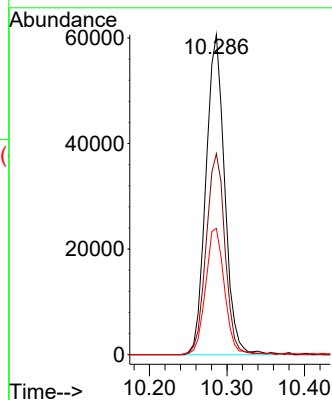
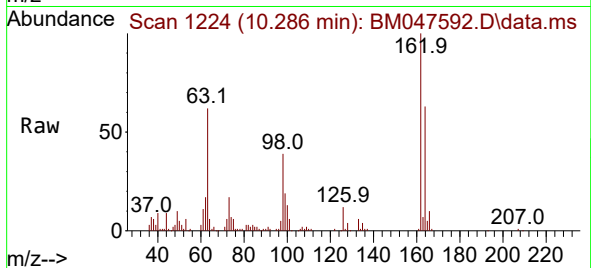
Tgt Ion:162 Resp: 101844

Ion Ratio Lower Upper

162 100

164 62.8 43.9 83.9

98 39.4 20.3 60.3



#30

1,2,4-Trichlorobenzene

Concen: 6.512 ng

RT: 10.504 min Scan# 1261

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

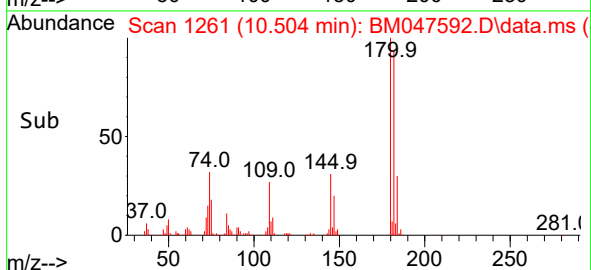
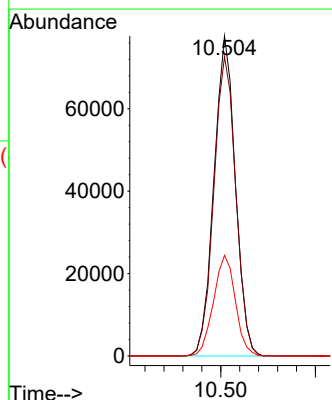
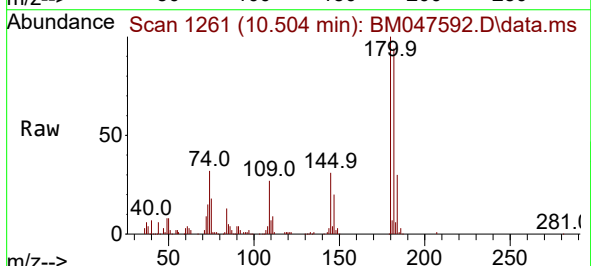
Tgt Ion:180 Resp: 121877

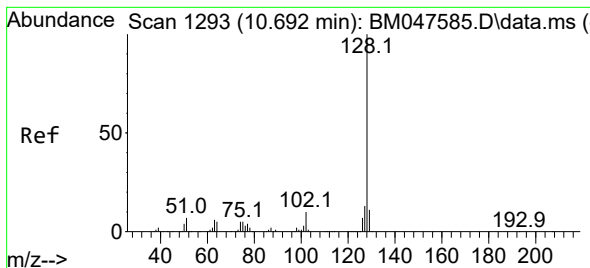
Ion Ratio Lower Upper

180 100

182 93.5 76.6 115.0

145 31.5 26.2 39.2





#31

Naphthalene

Concen: 6.580 ng

RT: 10.692 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

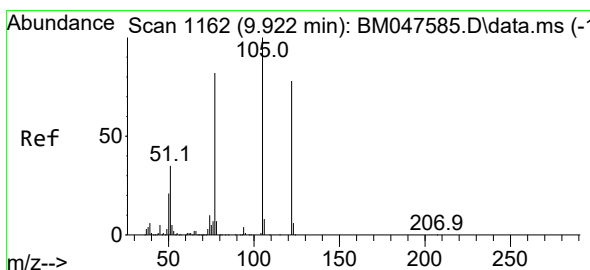
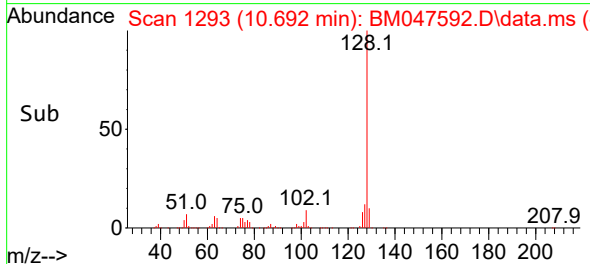
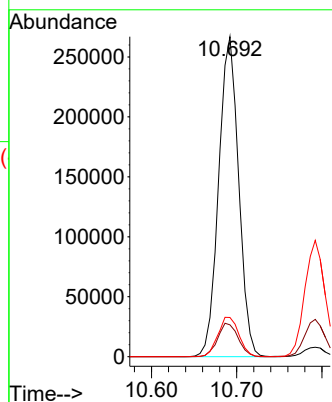
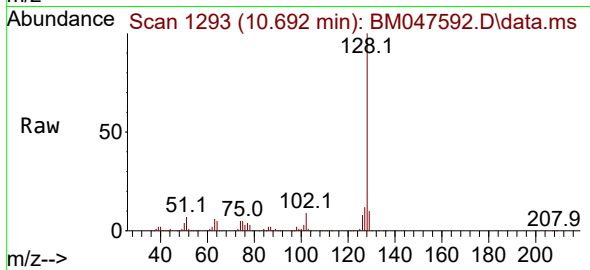
Tgt Ion:128 Resp: 434823

Ion Ratio Lower Upper

128 100

129 10.0 8.8 13.2

127 12.3 10.3 15.5



#32

Benzoic acid

Concen: 4.242 ng

RT: 9.869 min Scan# 1153

Delta R.T. -0.053 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

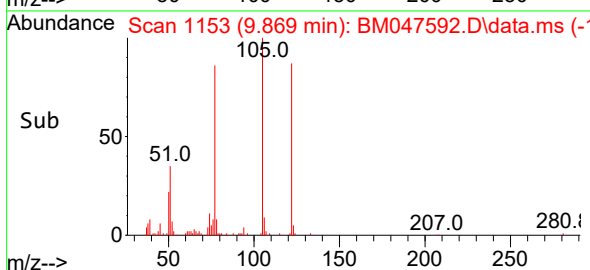
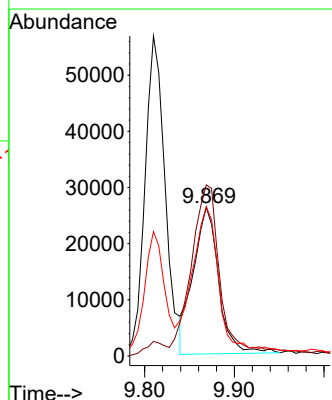
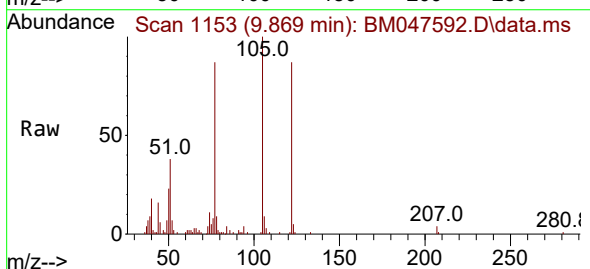
Tgt Ion:122 Resp: 51358

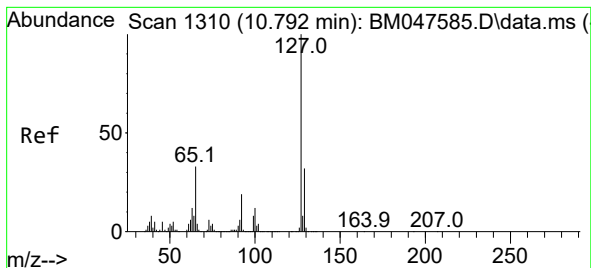
Ion Ratio Lower Upper

122 100

105 115.2 103.1 143.1

77 100.7 82.4 122.4





#33

4-Chloroaniline

Concen: 6.939 ng

RT: 10.792 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

Tgt Ion:127 Resp: 161675

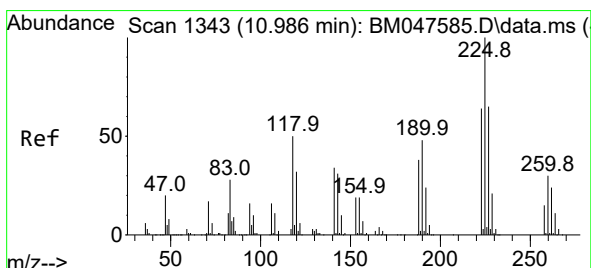
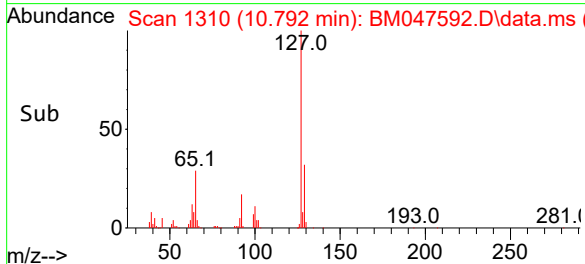
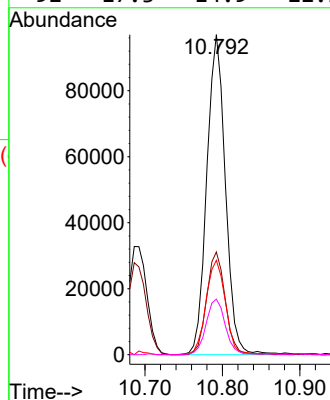
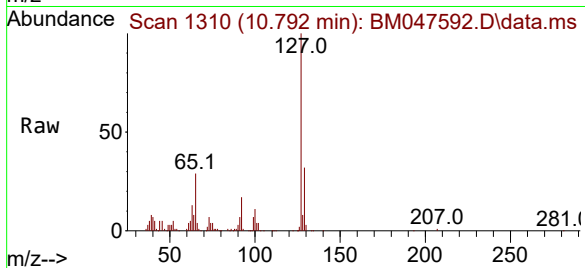
Ion Ratio Lower Upper

127 100

129 32.1 25.6 38.4

65 29.5 26.1 39.1

92 17.3 14.9 22.3



#34

Hexachlorobutadiene

Concen: 6.196 ng

RT: 10.986 min Scan# 1343

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

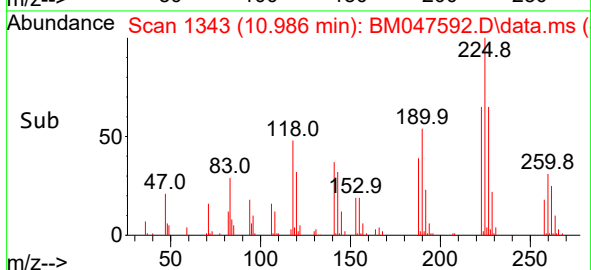
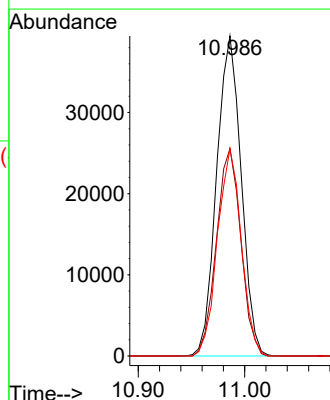
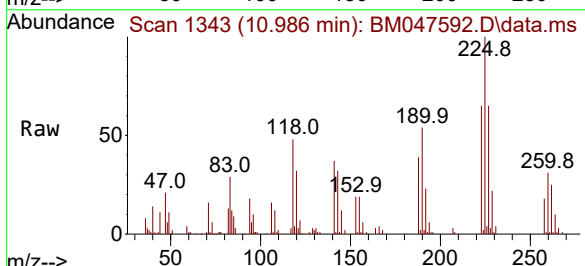
Tgt Ion:225 Resp: 63108

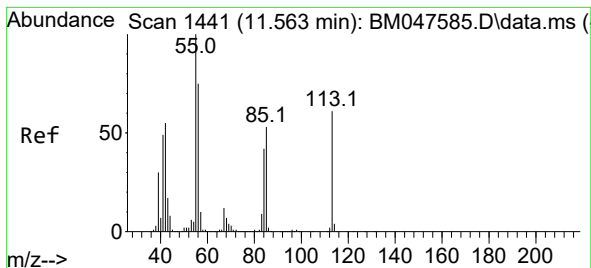
Ion Ratio Lower Upper

225 100

223 64.8 51.4 77.0

227 64.7 52.1 78.1





#35

Caprolactam

Concen: 5.377 ng

RT: 11.545 min Scan# 1441

Delta R.T. -0.018 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

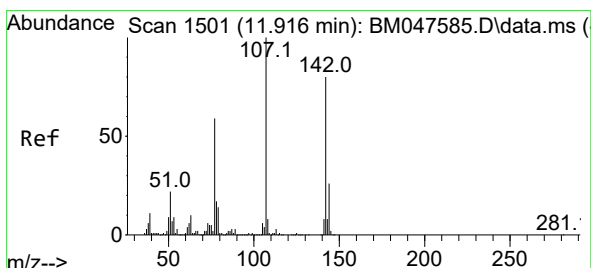
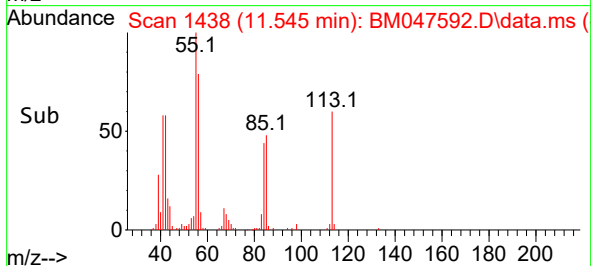
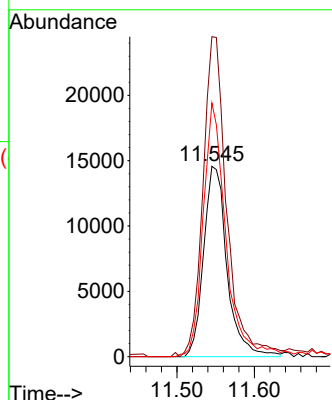
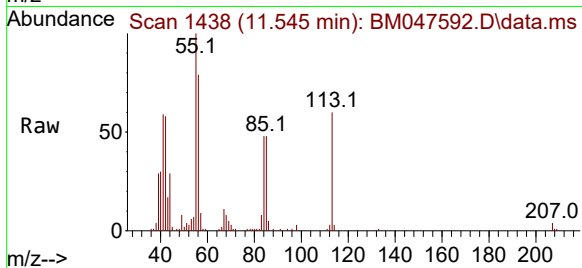
Tgt Ion:113 Resp: 30517

Ion Ratio Lower Upper

113 100

55 168.0 145.5 185.5

56 133.3 103.9 143.9



#36

4-Chloro-3-methylphenol

Concen: 5.811 ng

RT: 11.916 min Scan# 1501

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

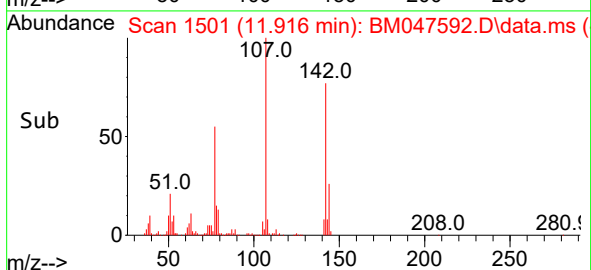
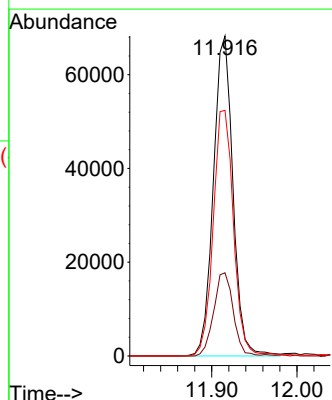
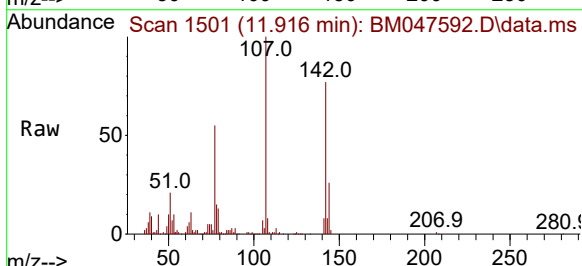
Tgt Ion:107 Resp: 108858

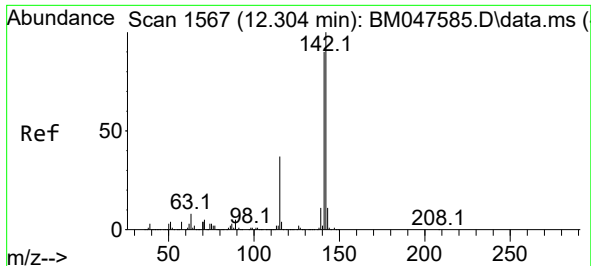
Ion Ratio Lower Upper

107 100

144 26.0 20.7 31.1

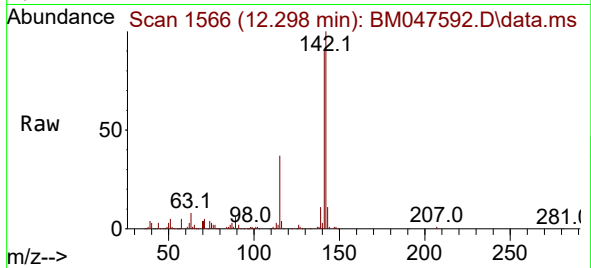
142 76.8 63.9 95.9



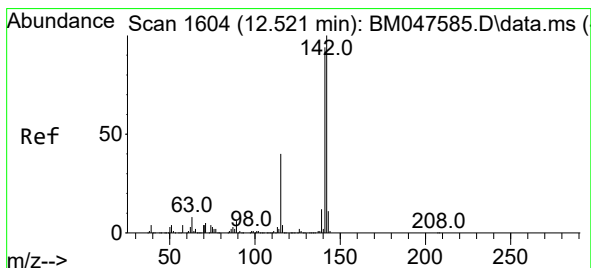
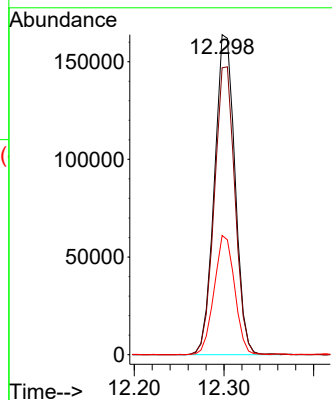
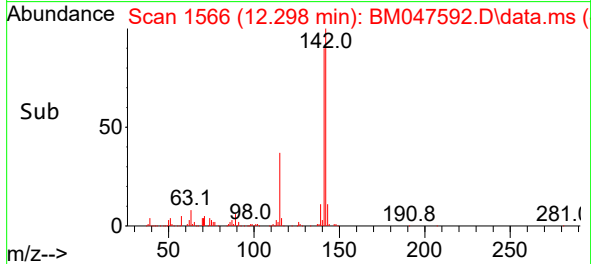


#37  
2-Methylnaphthalene  
Concen: 6.282 ng  
RT: 12.298 min Scan# 1566  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

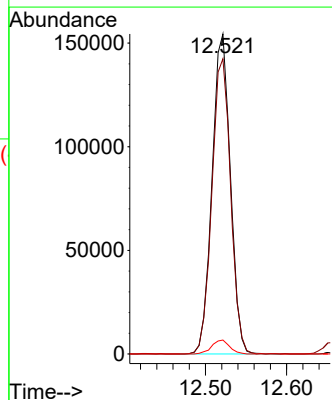
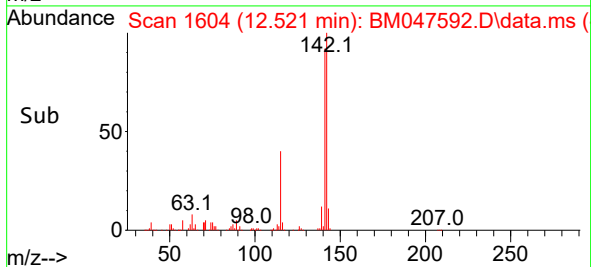
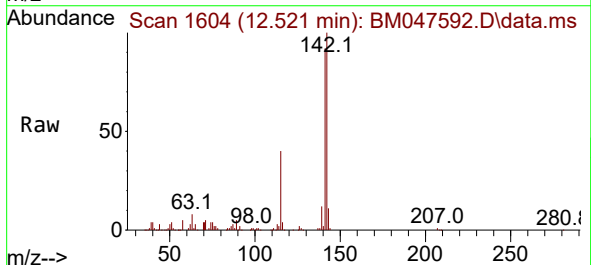


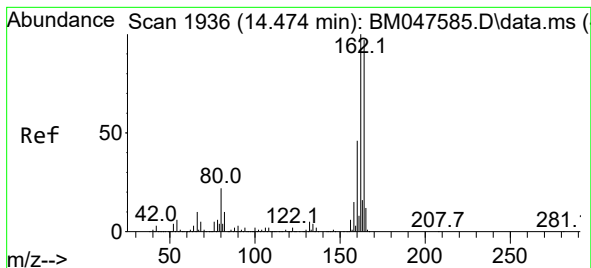
Tgt Ion:142 Resp: 260830  
Ion Ratio Lower Upper  
142 100  
141 89.6 71.7 107.5  
115 37.3 29.5 44.3



#38  
1-Methylnaphthalene  
Concen: 5.875 ng  
RT: 12.521 min Scan# 1604  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:142 Resp: 241968  
Ion Ratio Lower Upper  
142 100  
141 92.3 75.3 112.9  
116 4.3 3.0 4.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.474 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

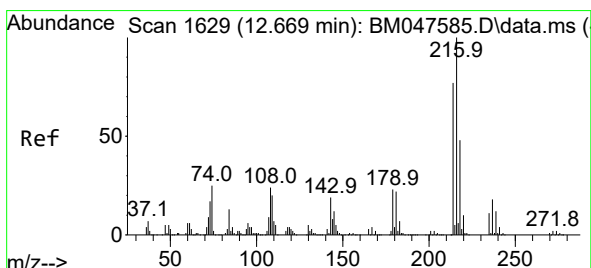
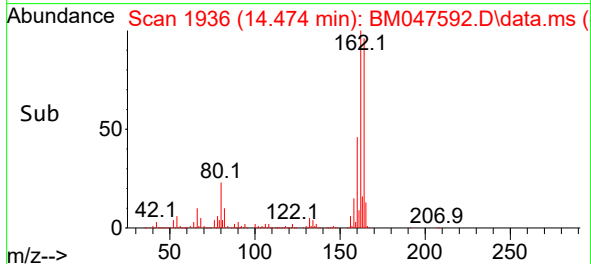
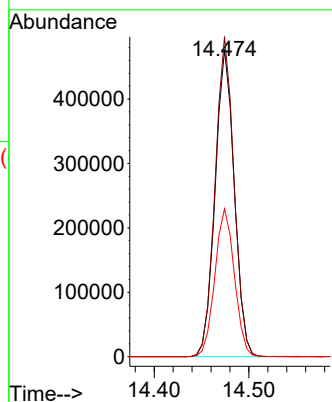
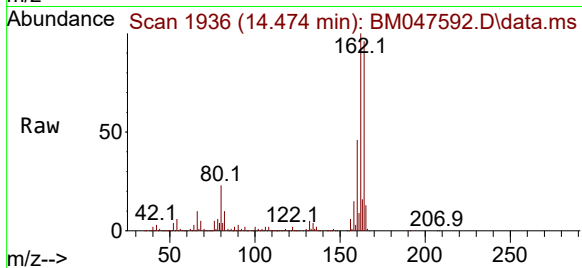
Tgt Ion:164 Resp: 669088

Ion Ratio Lower Upper

164 100

162 104.2 82.6 123.8

160 48.2 37.8 56.6



#40

1,2,4,5-Tetrachlorobenzene

Concen: 6.540 ng

RT: 12.668 min Scan# 1629

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Tgt Ion:216 Resp: 115483

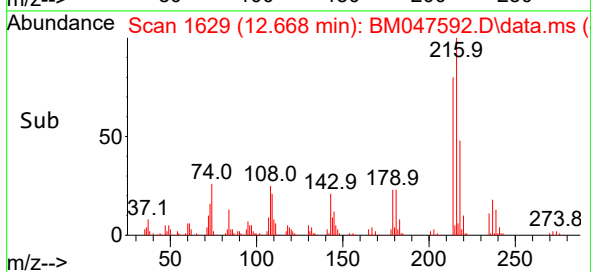
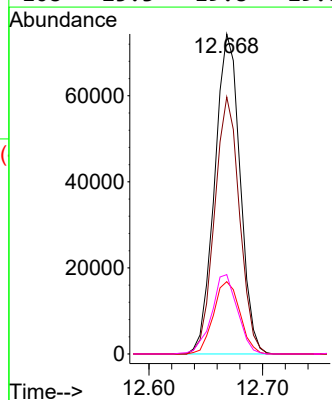
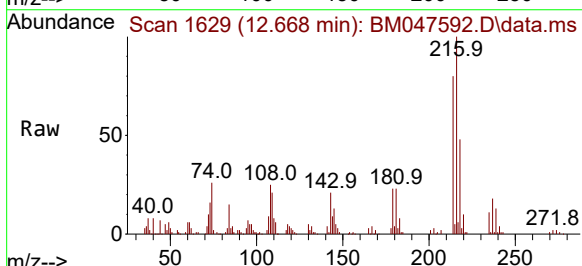
Ion Ratio Lower Upper

216 100

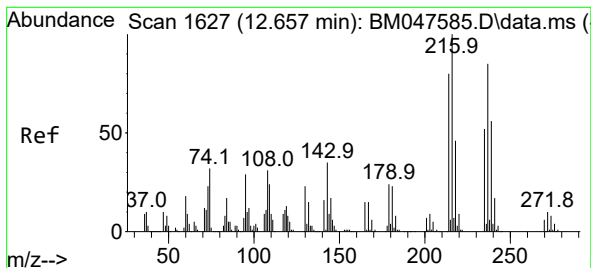
214 78.9 62.8 94.2

179 23.5 18.5 27.7

108 25.3 19.8 29.8







#41

Hexachlorocyclopentadiene

Concen: 7.695 ng

RT: 12.657 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

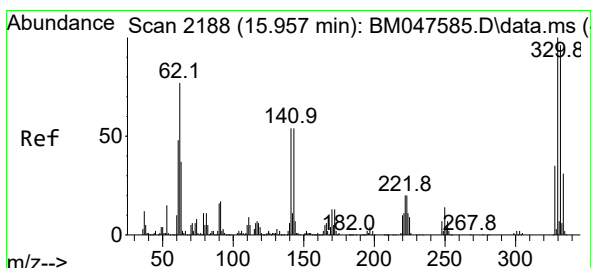
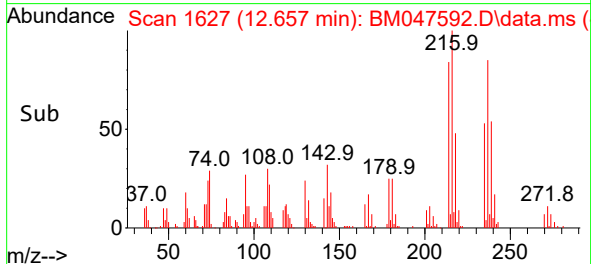
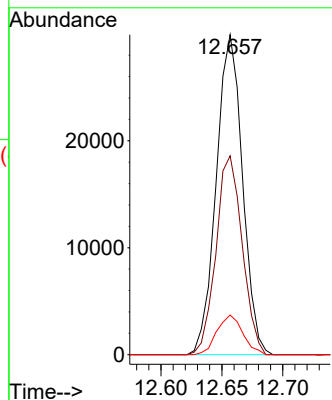
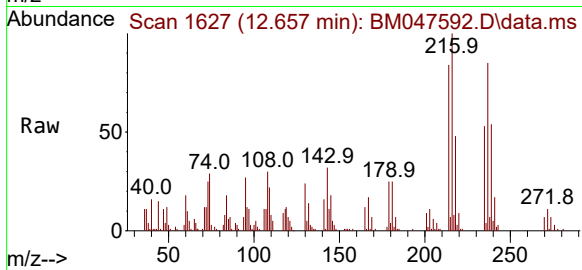
Tgt Ion:237 Resp: 44859

Ion Ratio Lower Upper

237 100

235 62.2 41.2 81.2

272 12.4 0.0 32.0



#42

2,4,6-Tribromophenol

Concen: 108.068 ng

RT: 15.956 min Scan# 2188

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

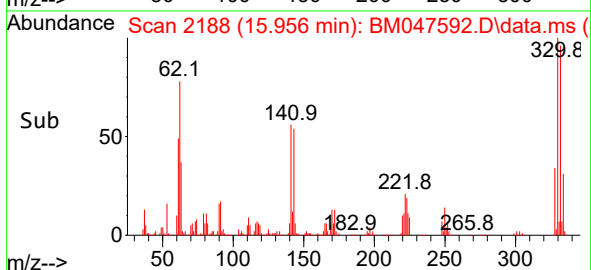
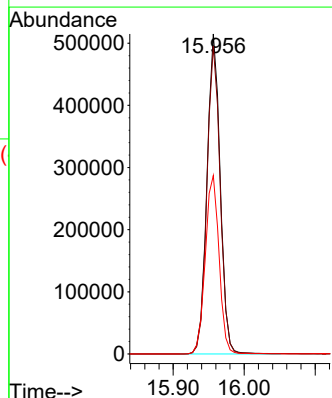
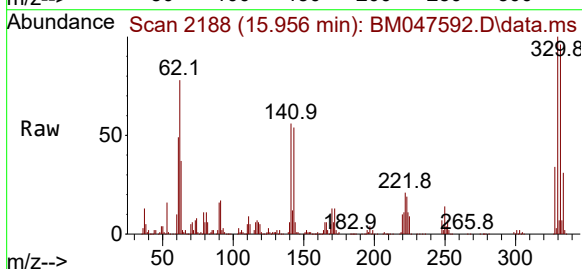
Tgt Ion:330 Resp: 669544

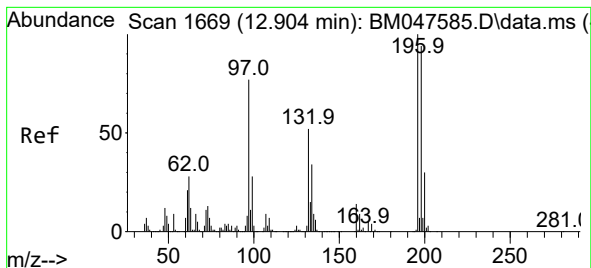
Ion Ratio Lower Upper

330 100

332 96.4 77.0 115.4

141 57.9 45.9 68.9





#43

2,4,6-Trichlorophenol

Concen: 5.748 ng

RT: 12.910 min Scan# 1

Delta R.T. 0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

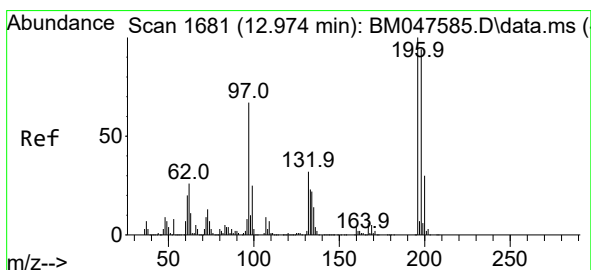
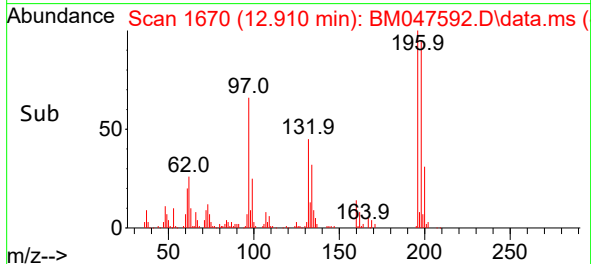
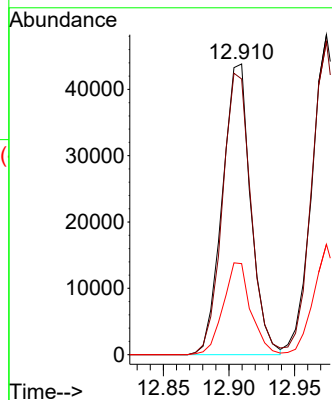
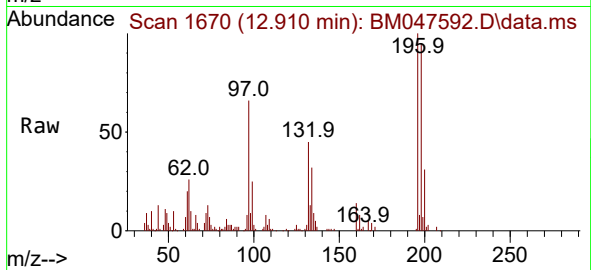
Tgt Ion:196 Resp: 65957

Ion Ratio Lower Upper

196 100

198 94.8 75.5 113.3

200 31.3 24.3 36.5



#44

2,4,5-Trichlorophenol

Concen: 5.646 ng

RT: 12.974 min Scan# 1681

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Tgt Ion:196 Resp: 72821

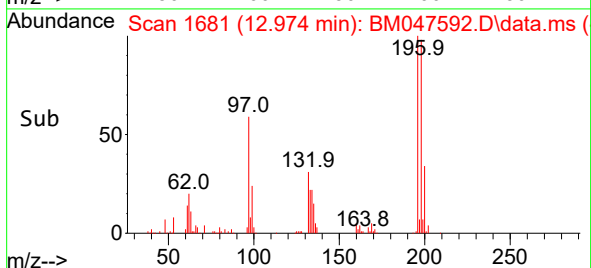
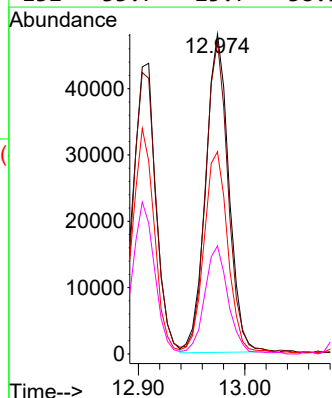
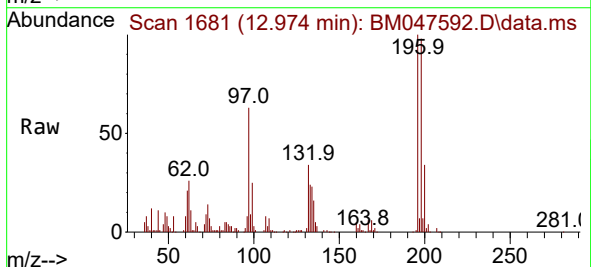
Ion Ratio Lower Upper

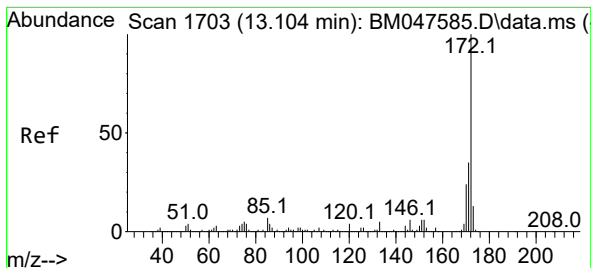
196 100

198 97.8 75.5 113.3

97 63.2 53.5 80.3

132 33.7 25.7 38.5





#45

2-Fluorobiphenyl

Concen: 76.502 ng

RT: 13.104 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

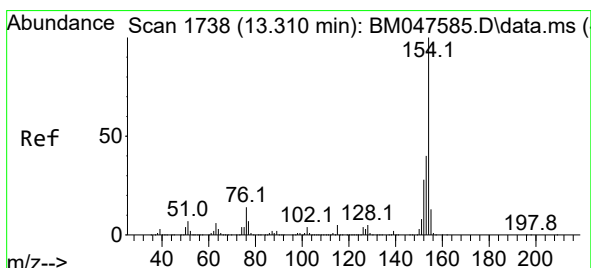
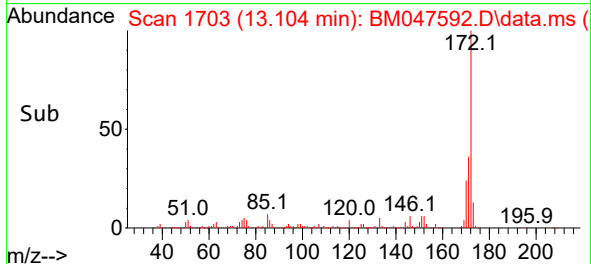
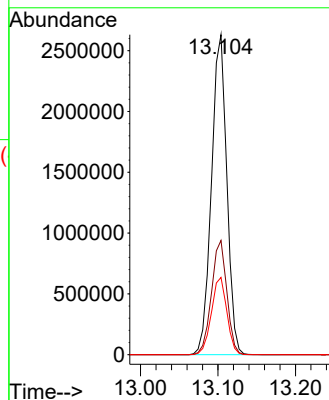
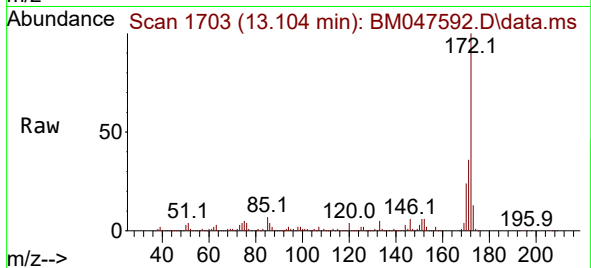
Tgt Ion:172 Resp: 3617529

Ion Ratio Lower Upper

172 100

171 35.7 28.1 42.1

170 24.2 19.0 28.6



#46

1,1'-Biphenyl

Concen: 6.750 ng

RT: 13.310 min Scan# 1738

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

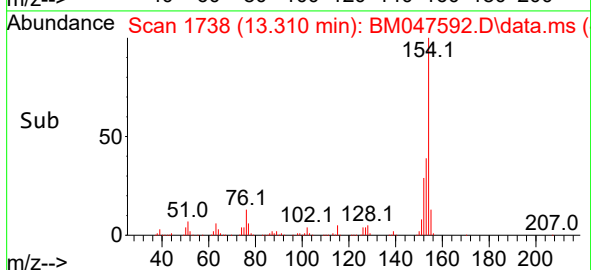
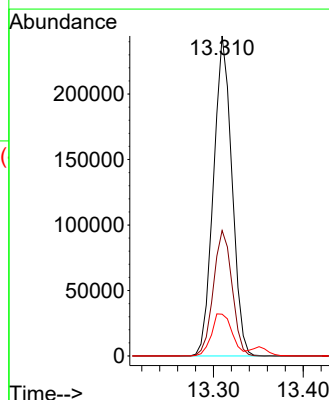
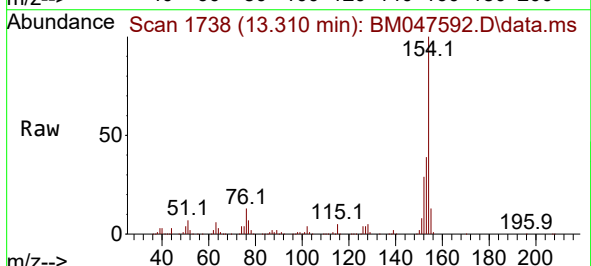
Tgt Ion:154 Resp: 348797

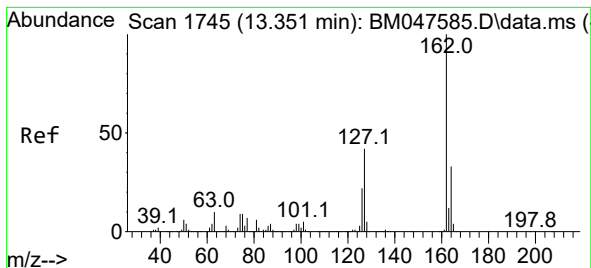
Ion Ratio Lower Upper

154 100

153 39.2 19.9 59.9

76 13.1 0.0 34.5





#47

2-Chloronaphthalene

Concen: 6.291 ng

RT: 13.351 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

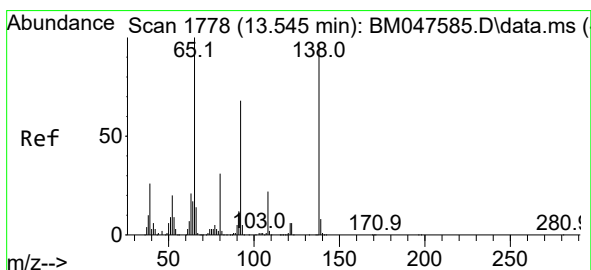
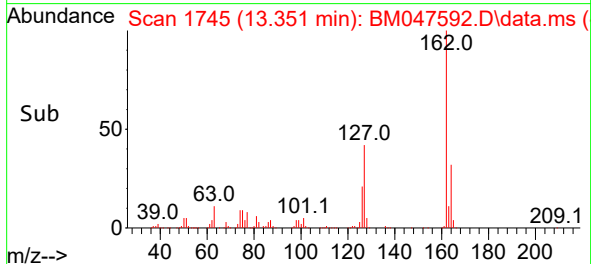
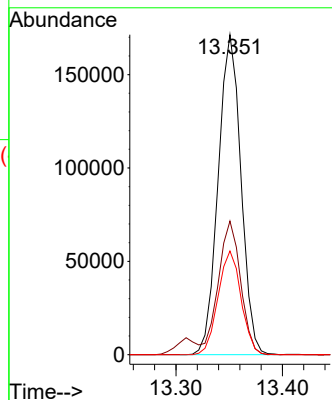
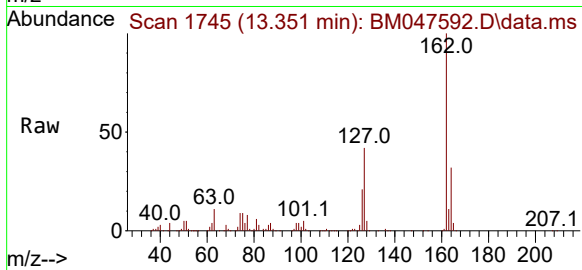
Tgt Ion:162 Resp: 254367

Ion Ratio Lower Upper

162 100

127 41.7 33.8 50.6

164 32.4 26.2 39.4



#48

2-Nitroaniline

Concen: 5.198 ng

RT: 13.545 min Scan# 1778

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

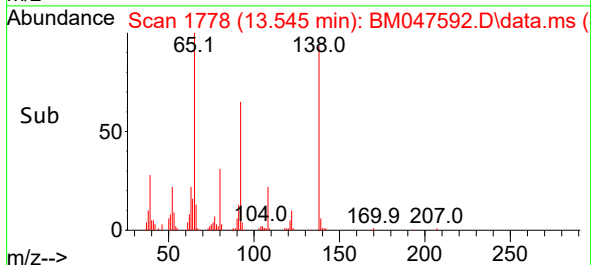
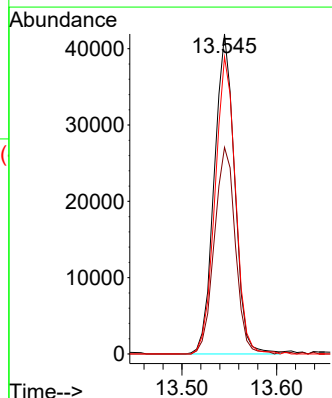
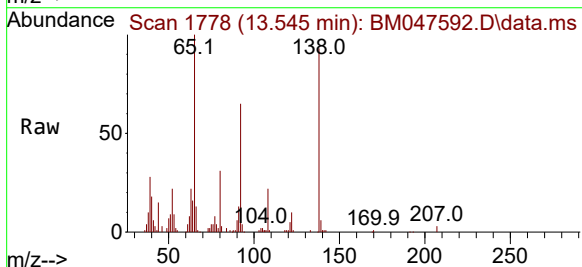
Tgt Ion: 65 Resp: 62775

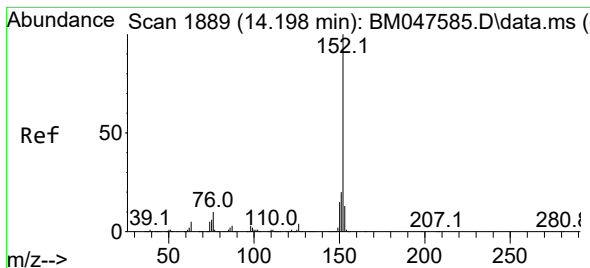
Ion Ratio Lower Upper

65 100

92 64.6 54.2 81.4

138 92.8 76.6 114.8





#49

Acenaphthylene

Concen: 6.678 ng

RT: 14.198 min Scan# 1889

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

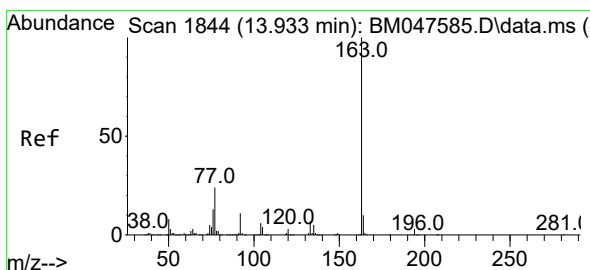
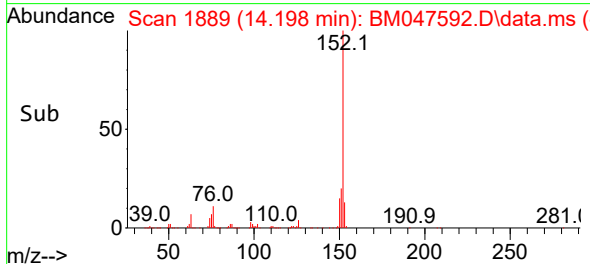
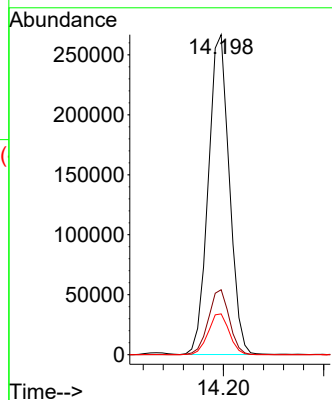
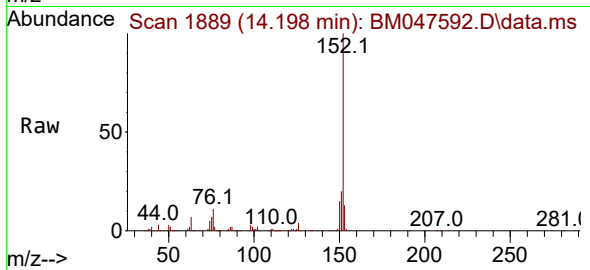
Tgt Ion:152 Resp: 388556

Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.2

153 12.8 10.4 15.6



#50

Dimethylphthalate

Concen: 6.315 ng

RT: 13.927 min Scan# 1843

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

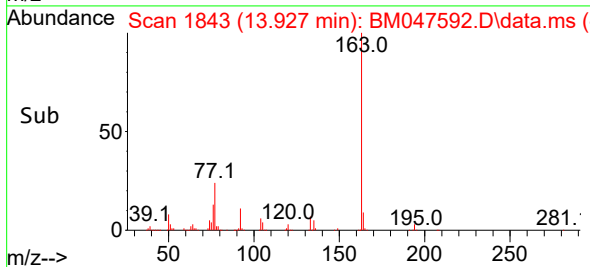
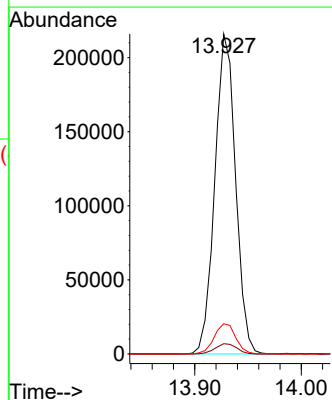
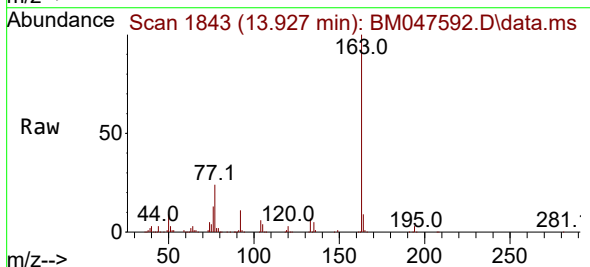
Tgt Ion:163 Resp: 291743

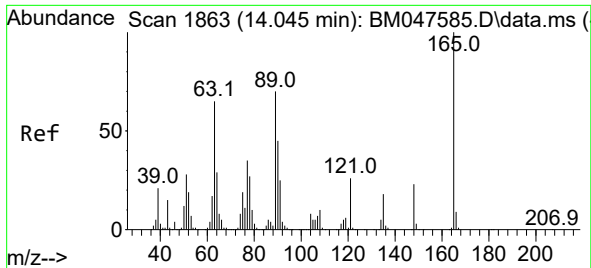
Ion Ratio Lower Upper

163 100

194 3.2 2.7 4.1

164 9.4 8.2 12.2

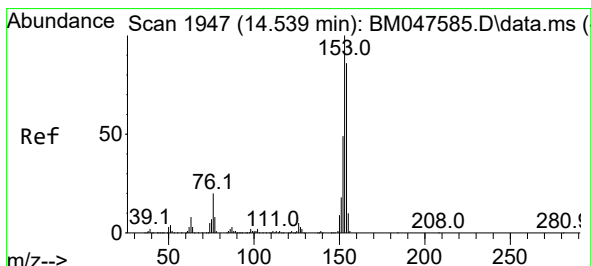
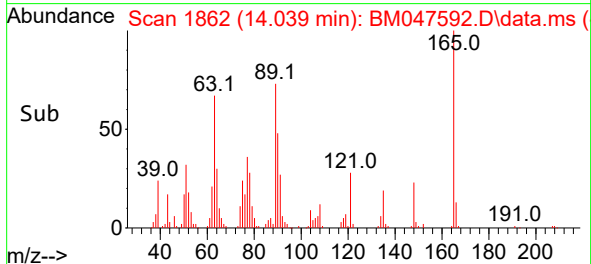
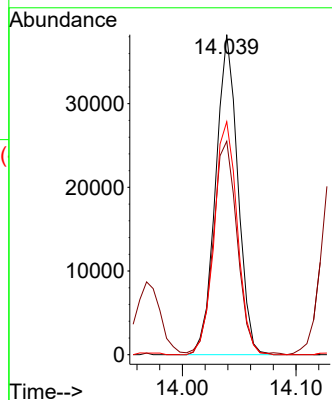
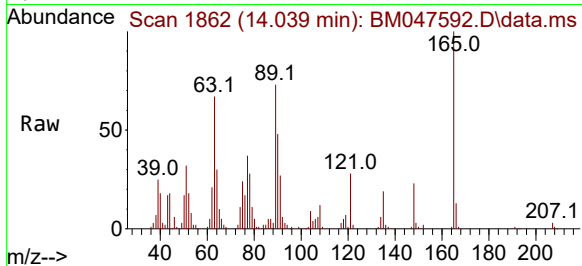




#51  
2,6-Dinitrotoluene  
Concen: 5.351 ng  
RT: 14.039 min Scan# 1862  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

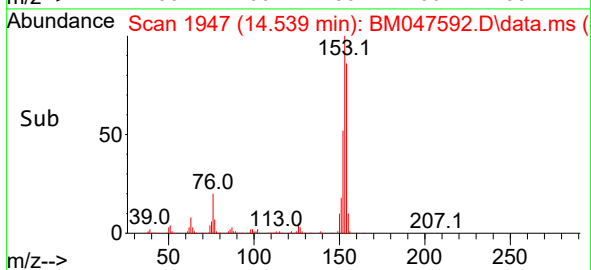
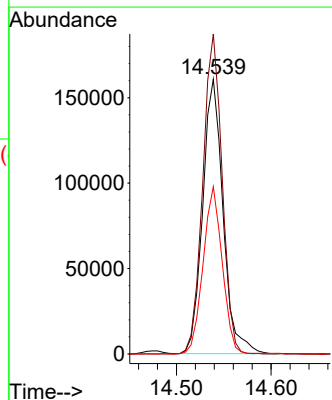
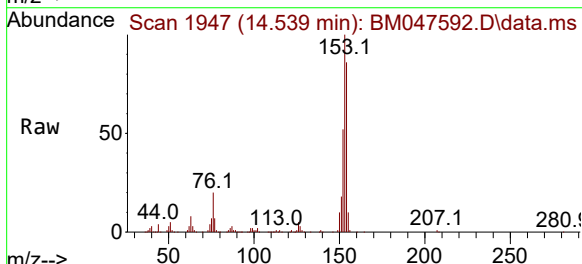
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

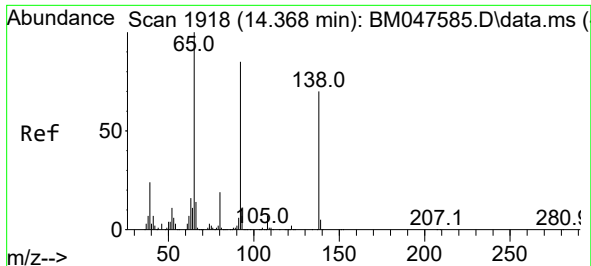
Tgt Ion:165 Resp: 51790  
Ion Ratio Lower Upper  
165 100  
63 66.7 53.0 79.6  
89 72.8 56.4 84.6



#52  
Acenaphthene  
Concen: 6.253 ng  
RT: 14.539 min Scan# 1947  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:154 Resp: 240358  
Ion Ratio Lower Upper  
154 100  
153 116.5 92.8 139.2  
152 60.9 45.7 68.5

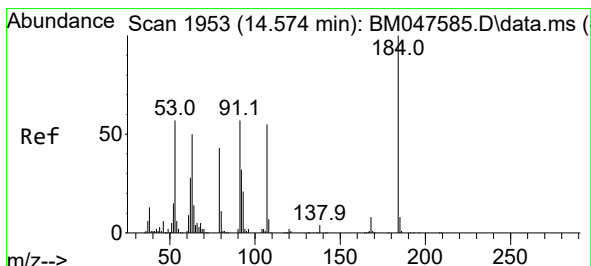
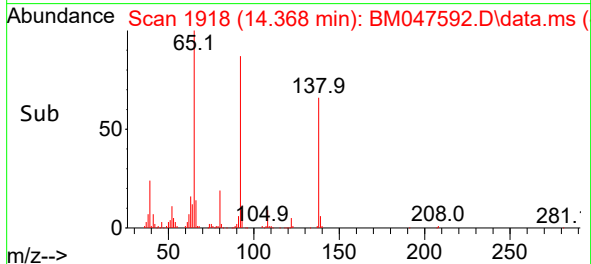
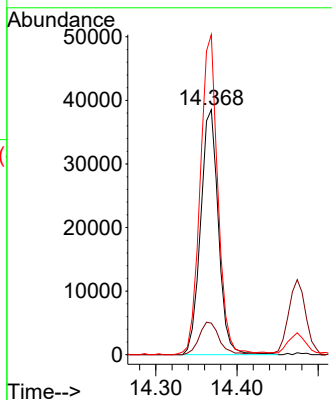
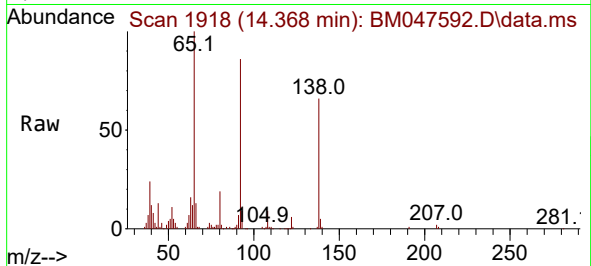




#53  
3-Nitroaniline  
Concen: 5.281 ng  
RT: 14.368 min Scan# 1918  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

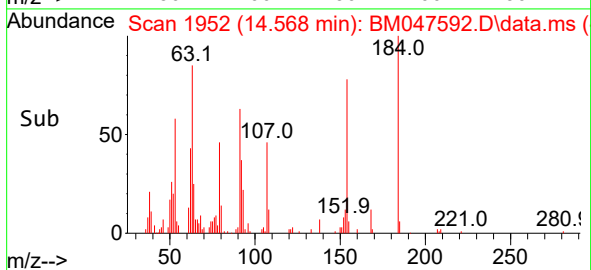
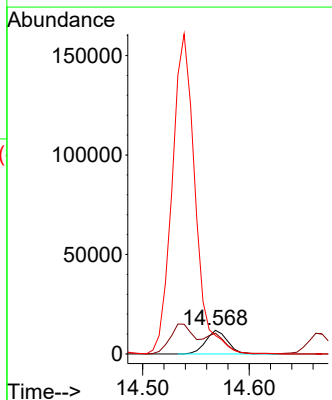
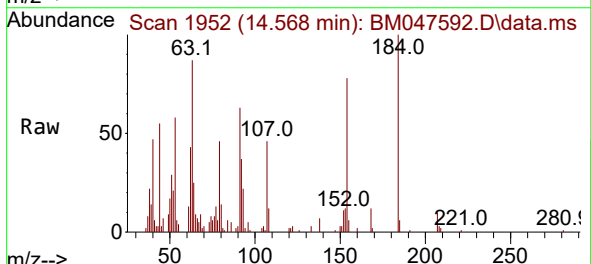
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

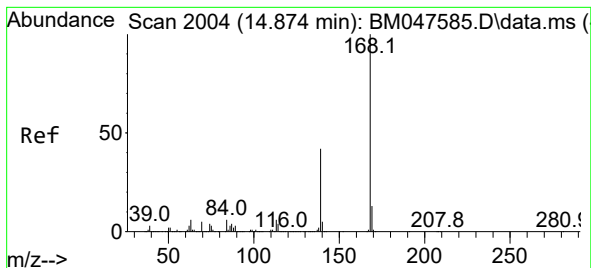
Tgt Ion:138 Resp: 58622  
Ion Ratio Lower Upper  
138 100  
108 12.9 8.3 12.5#  
92 130.6 97.0 145.6



#54  
2,4-Dinitrophenol  
Concen: 3.868 ng  
RT: 14.568 min Scan# 1952  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:184 Resp: 16970  
Ion Ratio Lower Upper  
184 100  
63 87.5 69.0 103.6  
154 77.6 59.7 89.5





#55

Dibenzenofuran

Concen: 6.431 ng

RT: 14.868 min Scan# 20

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

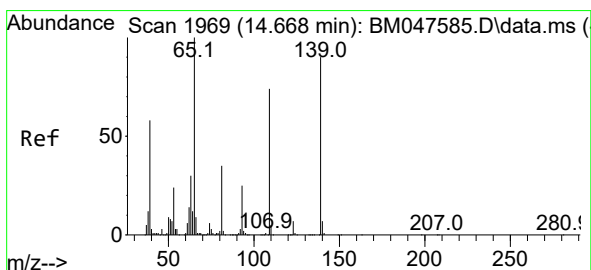
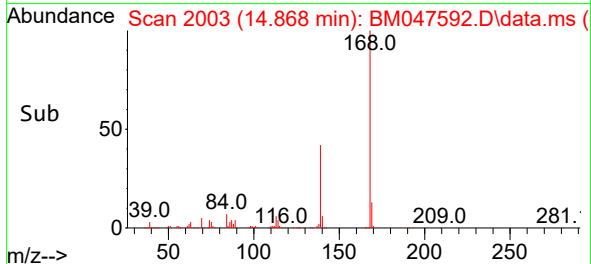
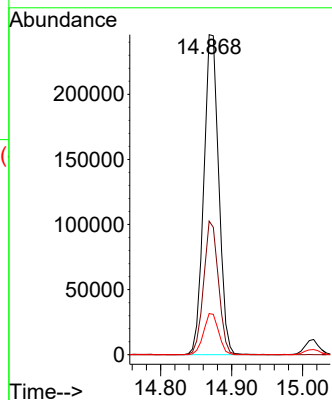
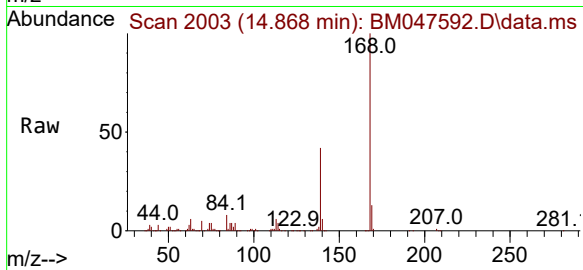
Tgt Ion:168 Resp: 361228

Ion Ratio Lower Upper

168 100

139 41.8 33.4 50.2

169 12.9 10.4 15.6



#56

4-Nitrophenol

Concen: 4.946 ng

RT: 14.668 min Scan# 1969

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

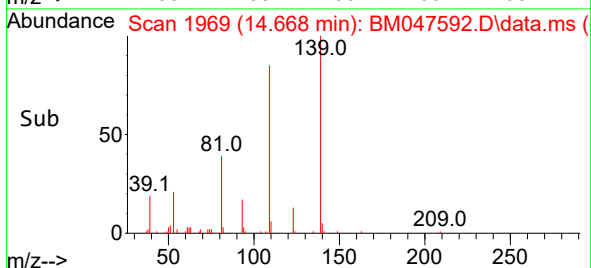
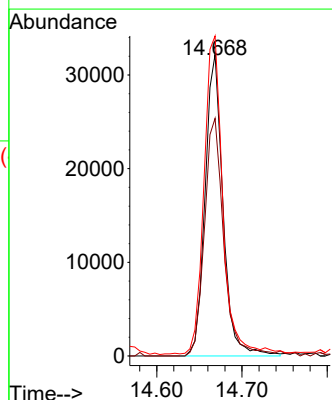
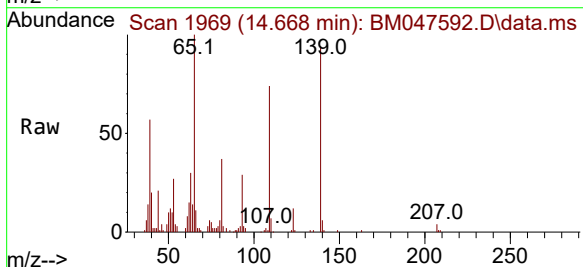
Tgt Ion:139 Resp: 47047

Ion Ratio Lower Upper

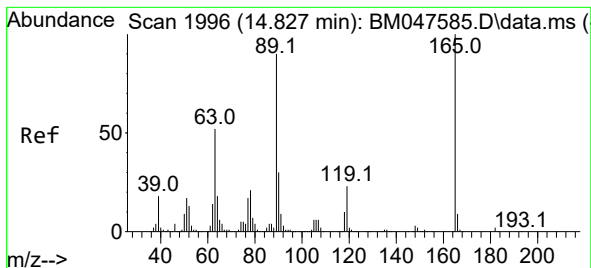
139 100

109 78.8 63.1 103.1

65 106.1 91.8 131.8



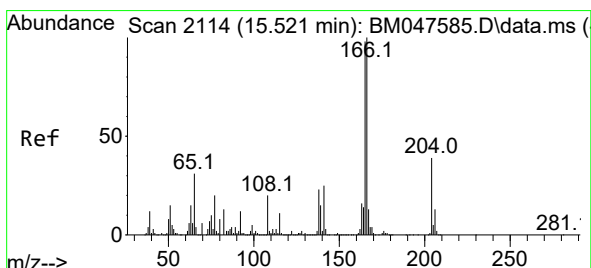
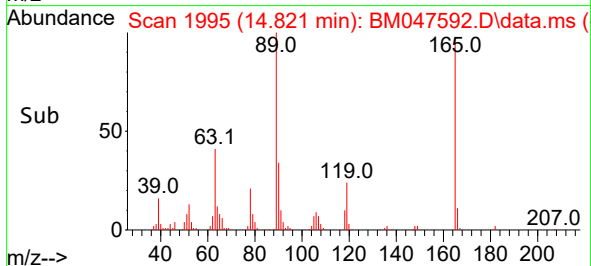
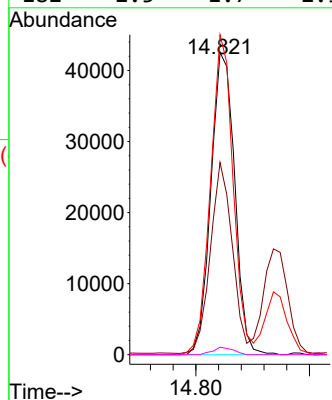
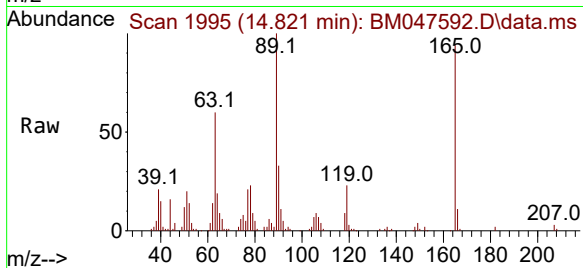




#57  
2,4-Dinitrotoluene  
Concen: 4.789 ng  
RT: 14.821 min Scan# 1996  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

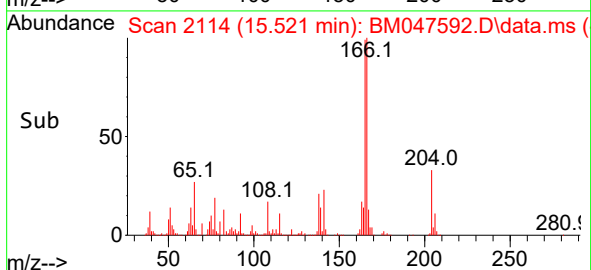
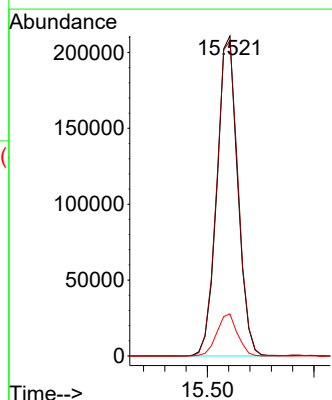
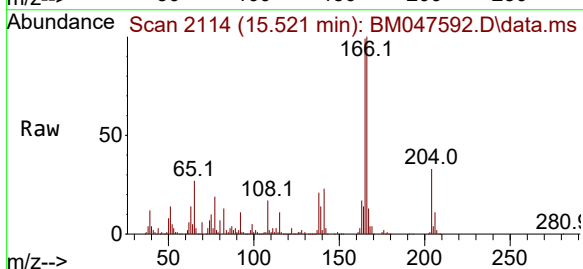
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

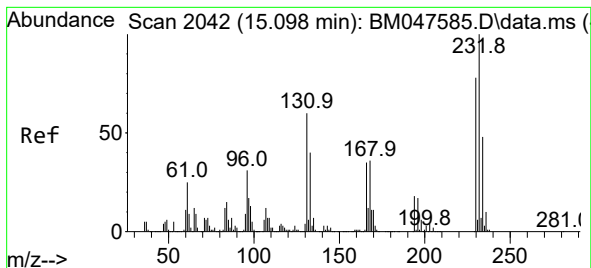
Tgt Ion:165 Resp: 61759  
Ion Ratio Lower Upper  
165 100  
63 63.6 41.6 62.4#  
89 105.8 71.7 107.5  
182 2.5 1.7 2.5



#58  
Fluorene  
Concen: 5.716 ng  
RT: 15.521 min Scan# 2114  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:166 Resp: 284156  
Ion Ratio Lower Upper  
166 100  
165 98.5 78.4 117.6  
167 13.1 10.5 15.7

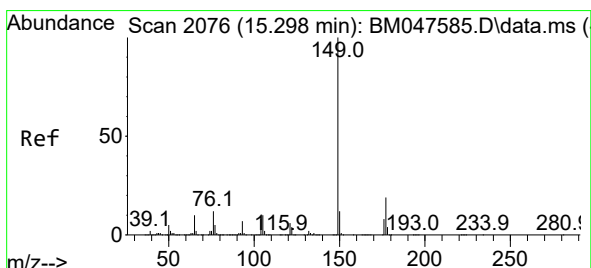
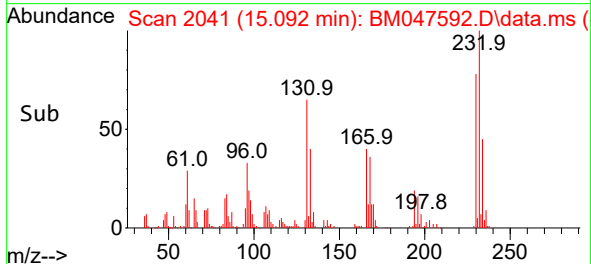
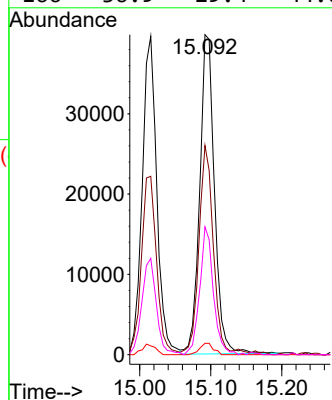
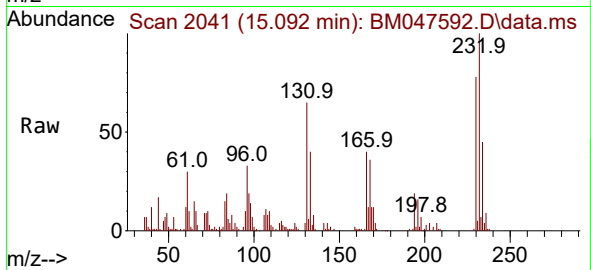




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 5.859 ng  
RT: 15.092 min Scan# 2041  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

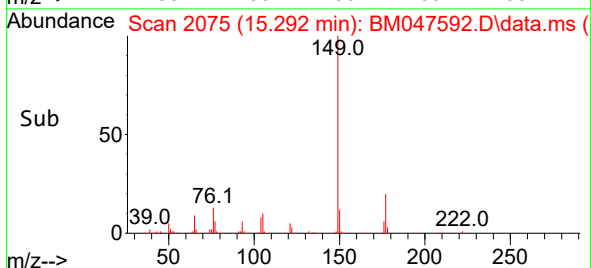
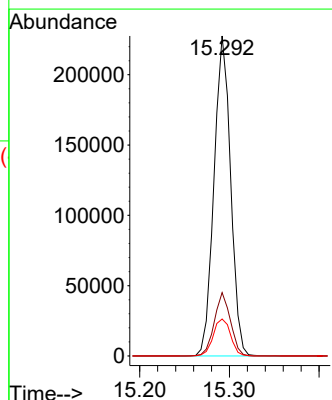
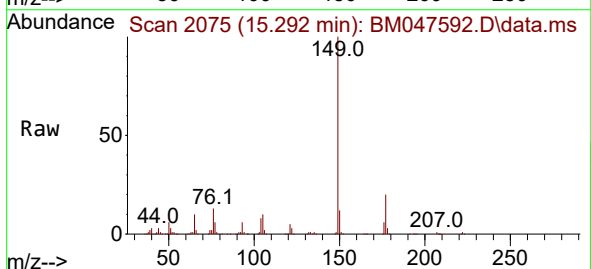
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

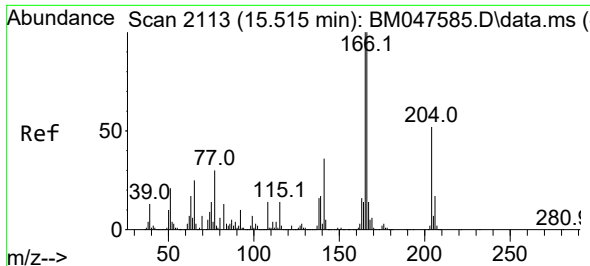
Tgt Ion:232 Resp: 57771  
Ion Ratio Lower Upper  
232 100  
131 61.2 50.3 75.5  
130 3.3 3.0 4.4  
166 36.9 29.4 44.0



#60  
Diethylphthalate  
Concen: 5.946 ng  
RT: 15.292 min Scan# 2075  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:149 Resp: 292855  
Ion Ratio Lower Upper  
149 100  
177 19.8 15.4 23.0  
150 11.5 9.4 14.0





#61

4-Chlorophenyl-phenylether

Concen: 5.690 ng

RT: 15.515 min Scan# 2113

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

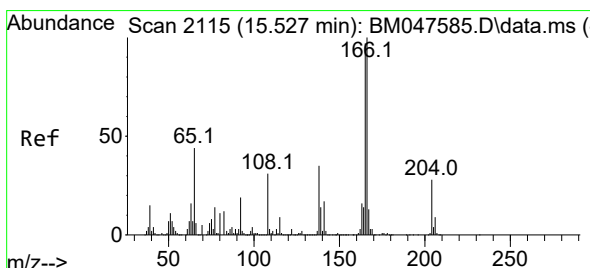
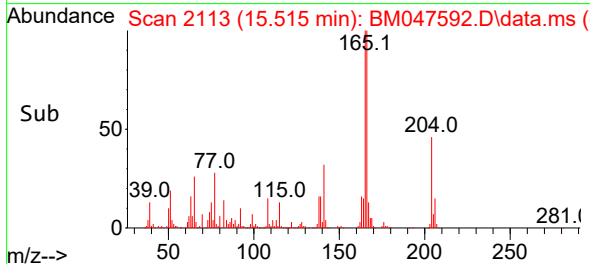
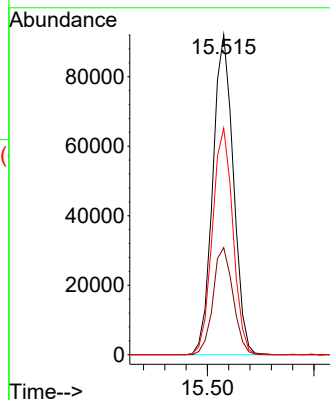
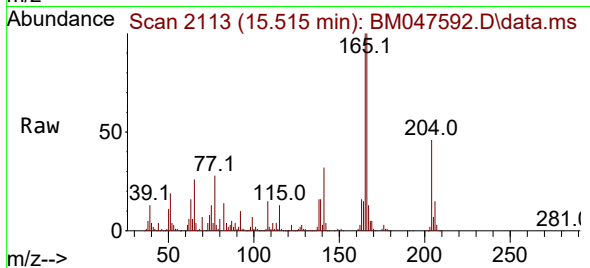
Tgt Ion:204 Resp: 123602

Ion Ratio Lower Upper

204 100

206 33.5 26.2 39.2

141 70.8 55.3 82.9



#62

4-Nitroaniline

Concen: 4.623 ng

RT: 15.521 min Scan# 2114

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

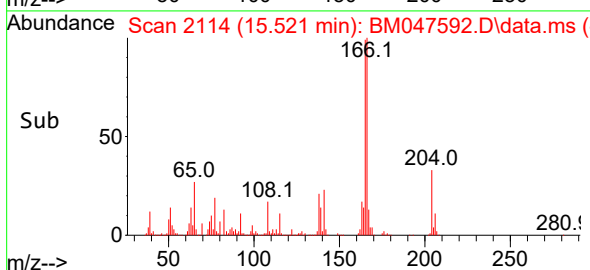
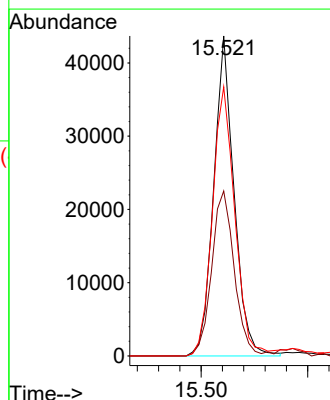
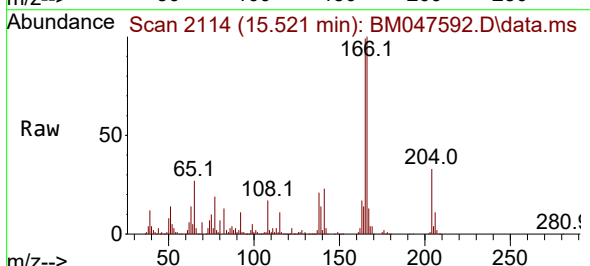
Tgt Ion:138 Resp: 57818

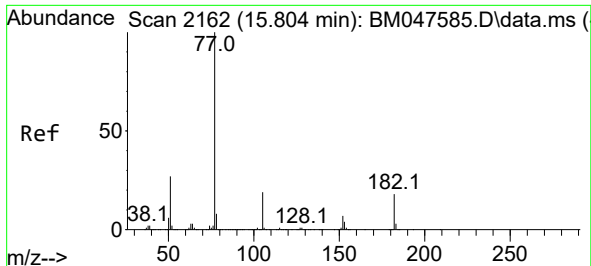
Ion Ratio Lower Upper

138 100

92 51.6 33.3 73.3

108 84.1 66.2 106.2

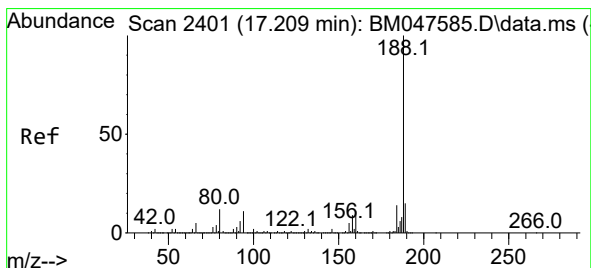
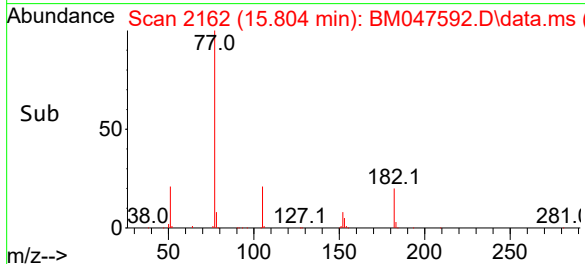
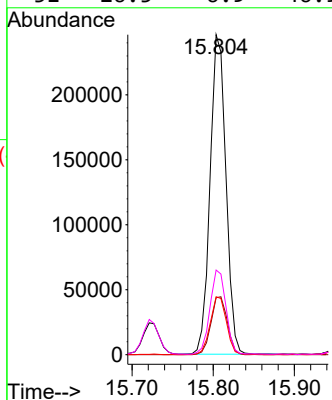
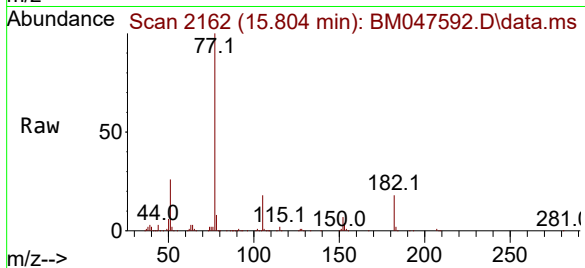




#63  
Azobenzene  
Concen: 6.195 ng  
RT: 15.804 min Scan# 2162  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

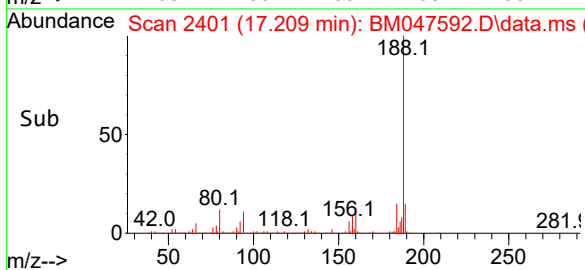
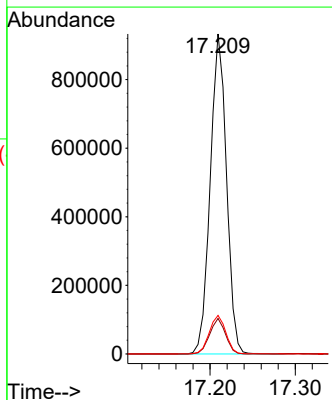
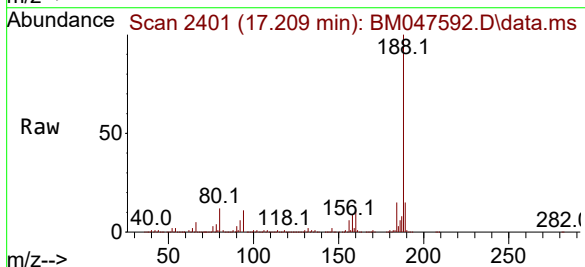
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

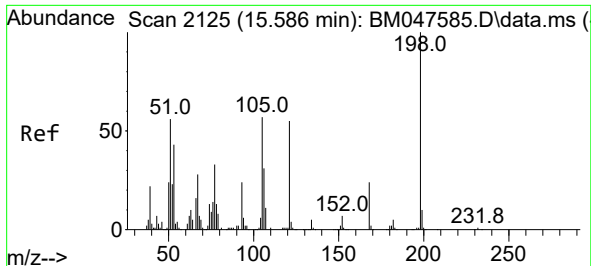
|             |              |
|-------------|--------------|
| Tgt Ion: 77 | Resp: 333548 |
| Ion Ratio   | Lower Upper  |
| 77 100      |              |
| 182 17.8    | 0.0 38.2     |
| 105 18.1    | 0.0 38.8     |
| 51 26.5     | 6.9 46.9     |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.209 min Scan# 2401  
Delta R.T. 0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

|             |               |       |       |
|-------------|---------------|-------|-------|
| Tgt Ion:188 | Resp: 1236282 |       |       |
| Ion         | Ratio         | Lower | Upper |
| 188         | 100           |       |       |
| 94          | 11.1          | 8.6   | 13.0  |
| 80          | 12.0          | 9.9   | 14.9  |

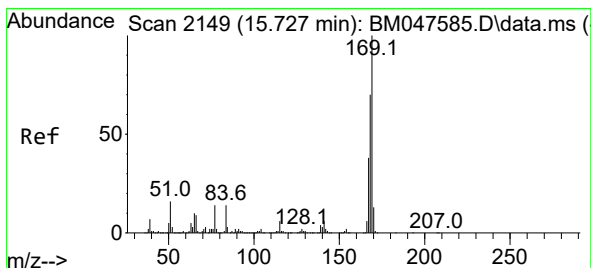
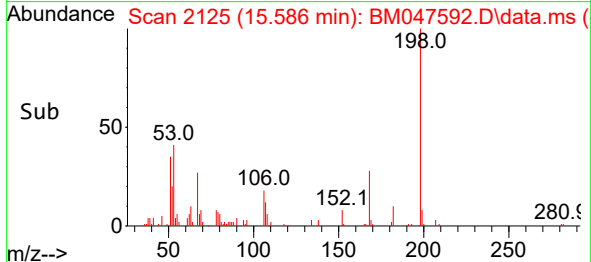
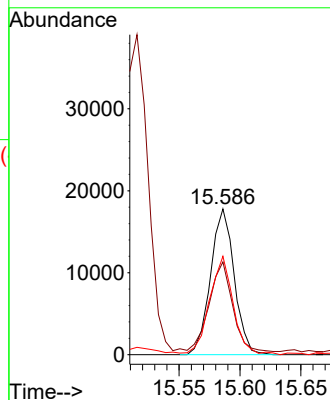
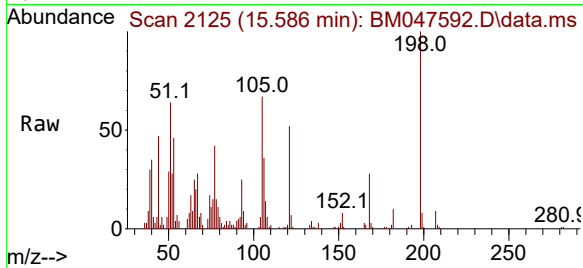




#65  
4,6-Dinitro-2-methylphenol  
Concen: 4.110 ng  
RT: 15.586 min Scan# 2125  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

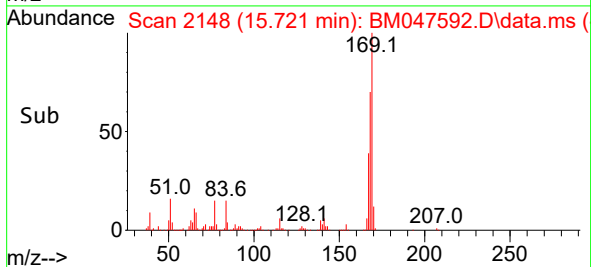
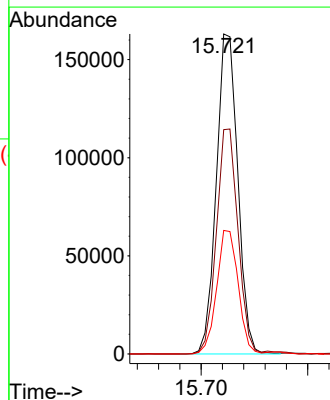
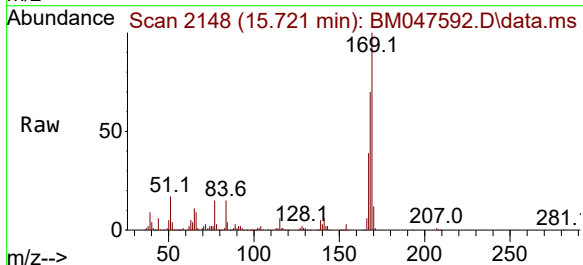
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

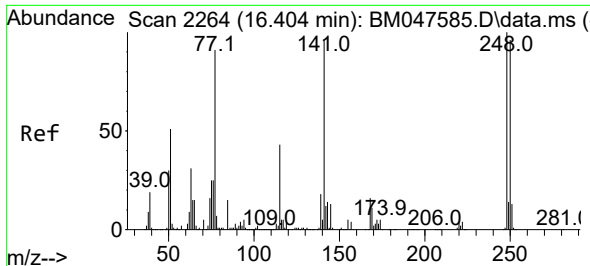
Tgt Ion:198 Resp: 24076  
Ion Ratio Lower Upper  
198 100  
51 63.7 38.2 78.2  
105 67.4 38.0 78.0



#66  
n-Nitrosodiphenylamine  
Concen: 6.174 ng  
RT: 15.721 min Scan# 2148  
Delta R.T. -0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:169 Resp: 227963  
Ion Ratio Lower Upper  
169 100  
168 70.1 55.8 83.8  
167 38.6 30.7 46.1

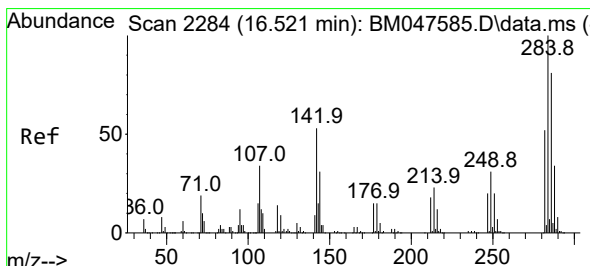
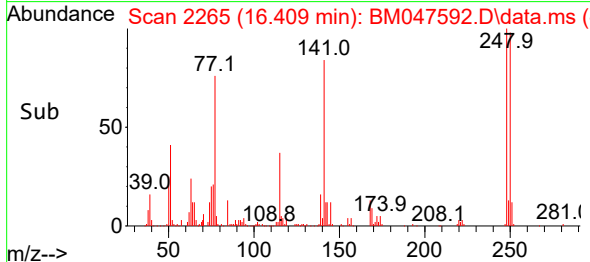
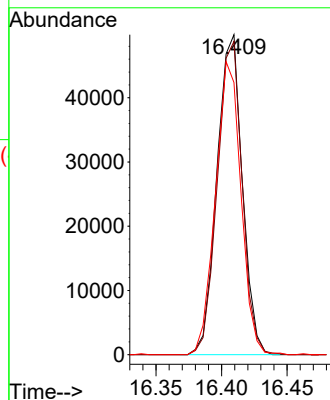
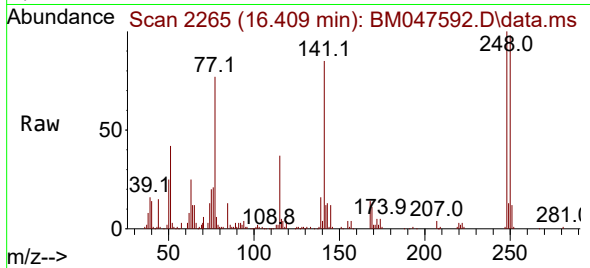




#67  
4-Bromophenyl-phenylether  
Concen: 5.961 ng  
RT: 16.409 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

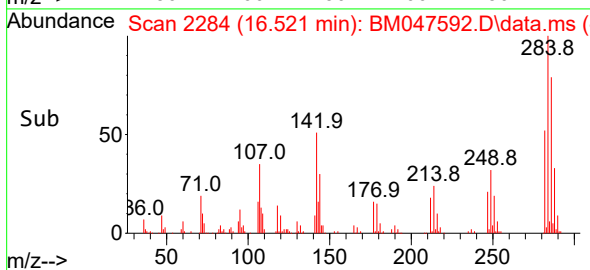
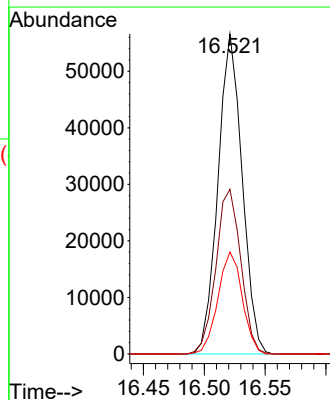
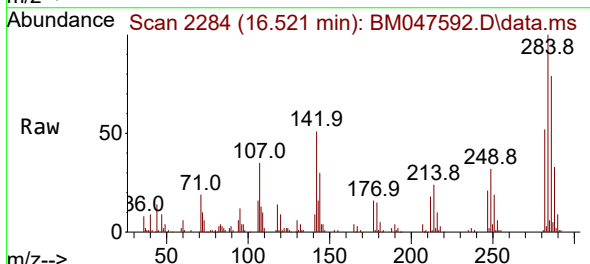
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

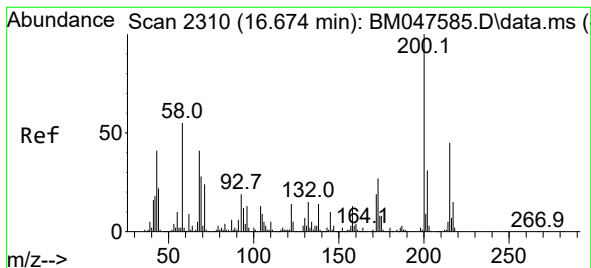
Tgt Ion:248 Resp: 66941  
Ion Ratio Lower Upper  
248 100  
250 97.9 76.7 115.1  
141 85.1 76.7 115.1



#68  
Hexachlorobenzene  
Concen: 5.952 ng  
RT: 16.521 min Scan# 2284  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:284 Resp: 78146  
Ion Ratio Lower Upper  
284 100  
142 51.4 42.5 63.7  
249 31.9 25.0 37.6





#69

Atrazine

Concen: 7.028 ng

RT: 16.668 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

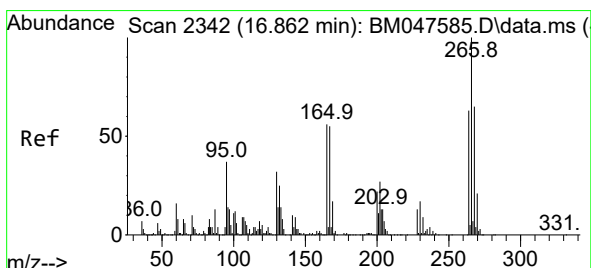
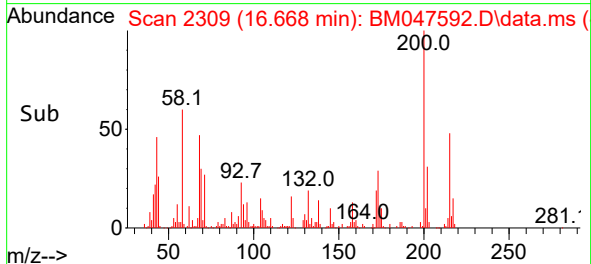
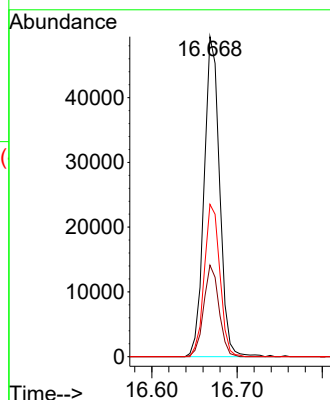
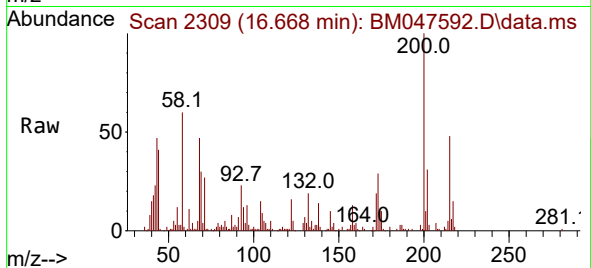
Tgt Ion:200 Resp: 62471

Ion Ratio Lower Upper

200 100

173 28.6 7.4 47.4

215 47.6 24.5 64.5



#70

Pentachlorophenol

Concen: 4.839 ng

RT: 16.862 min Scan# 2342

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

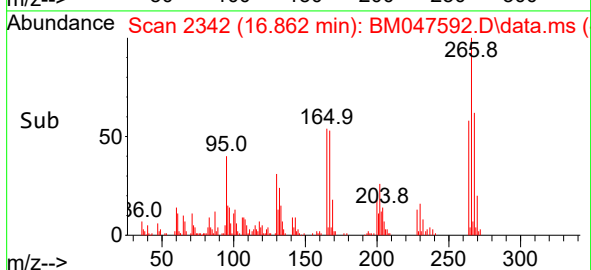
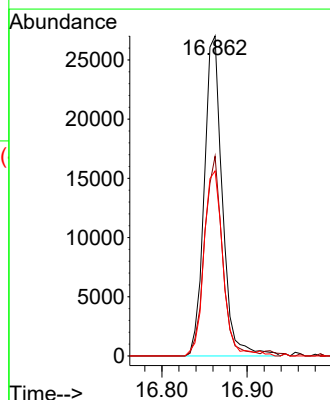
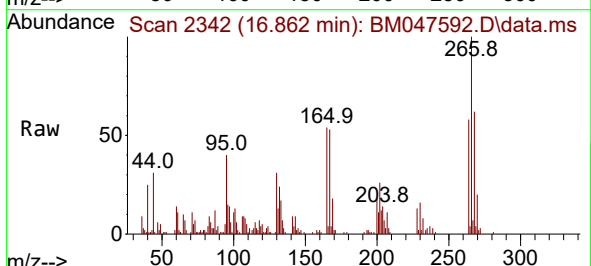
Tgt Ion:266 Resp: 39876

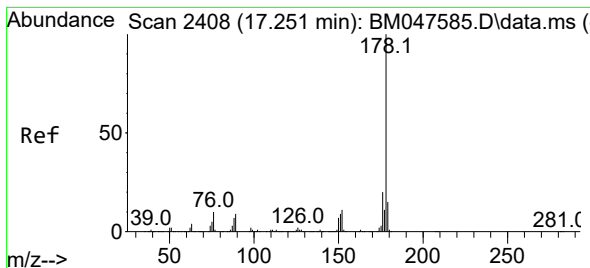
Ion Ratio Lower Upper

266 100

268 62.4 52.2 78.4

264 57.9 50.0 75.0





#71

Phenanthrene

Concen: 6.177 ng

RT: 17.251 min Scan# 2408

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

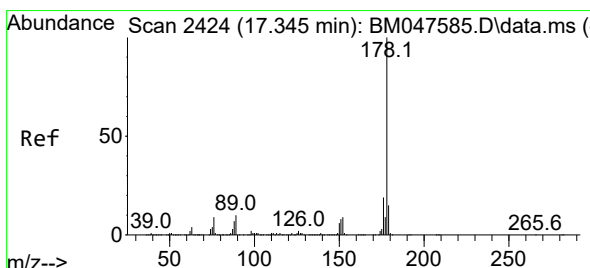
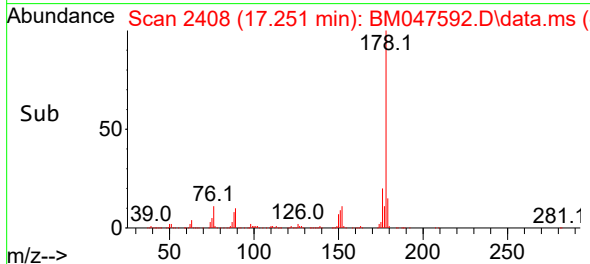
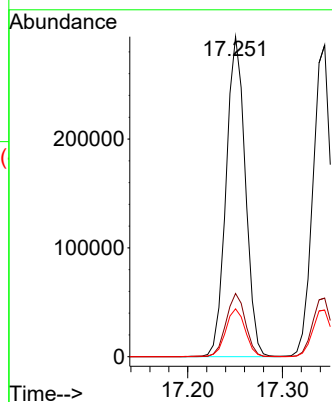
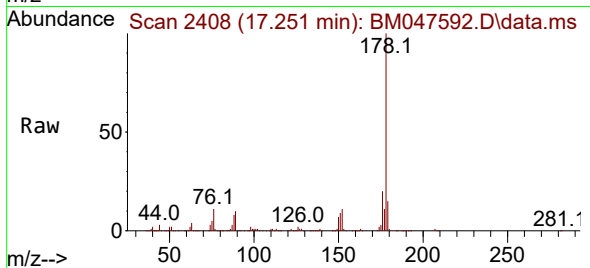
Tgt Ion:178 Resp: 414505

Ion Ratio Lower Upper

178 100

176 19.8 15.8 23.8

179 15.0 12.2 18.2



#72

Anthracene

Concen: 6.166 ng

RT: 17.345 min Scan# 2424

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

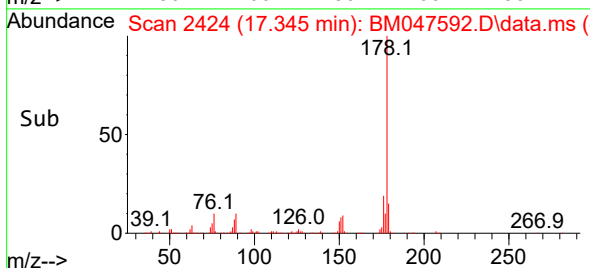
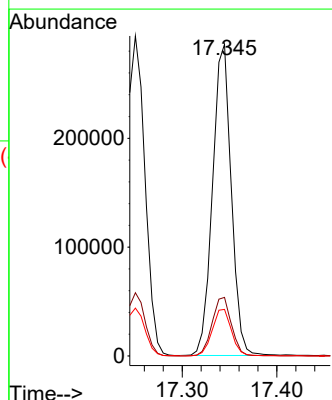
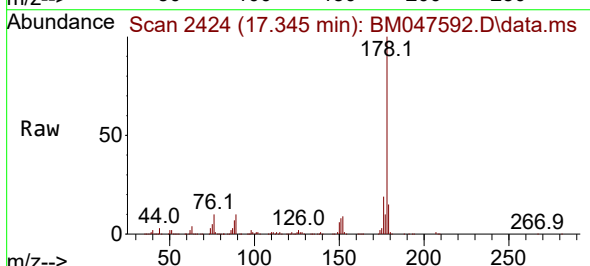
Tgt Ion:178 Resp: 392016

Ion Ratio Lower Upper

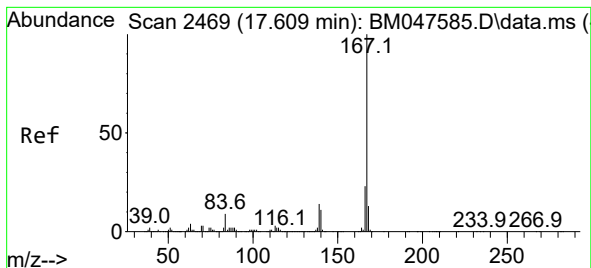
178 100

176 18.8 15.4 23.2

179 14.9 12.2 18.2







#73

Carbazole

Concen: 5.797 ng

RT: 17.603 min Scan# 2469

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

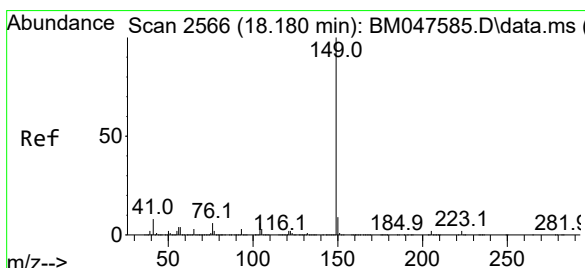
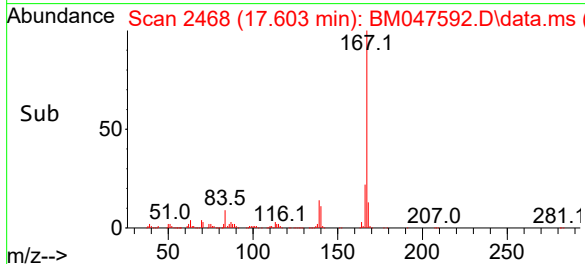
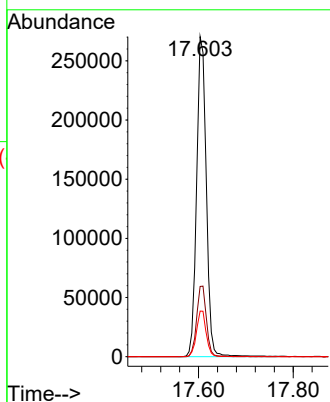
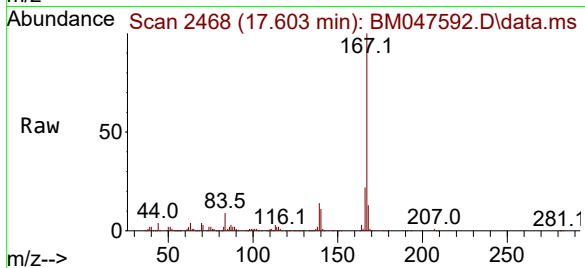
Tgt Ion:167 Resp: 384043

Ion Ratio Lower Upper

167 100

166 22.0 18.0 27.0

139 14.2 11.3 16.9



#74

Di-n-butylphthalate

Concen: 5.375 ng

RT: 18.180 min Scan# 2566

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

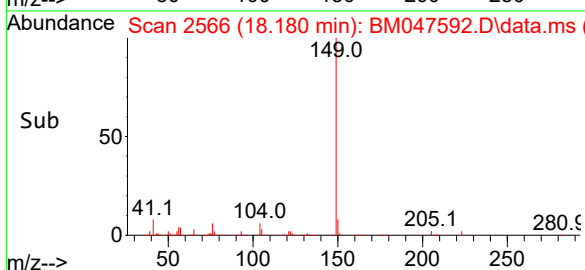
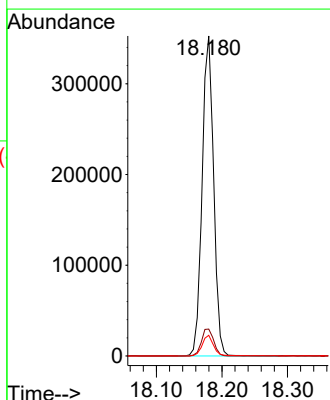
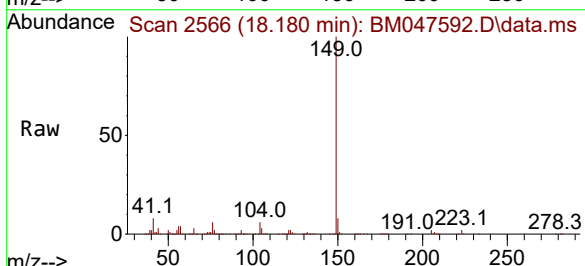
Tgt Ion:149 Resp: 430715

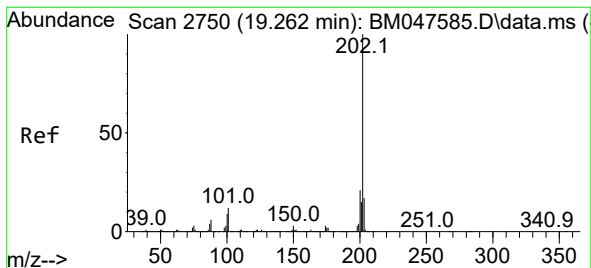
Ion Ratio Lower Upper

149 100

150 8.4 7.4 11.0

104 6.5 4.7 7.1





#75

Fluoranthene

Concen: 5.367 ng

RT: 19.256 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

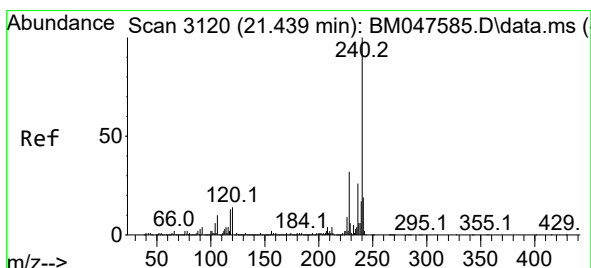
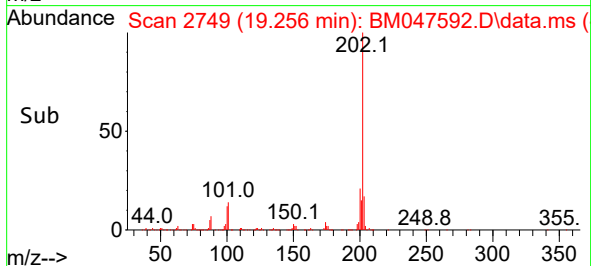
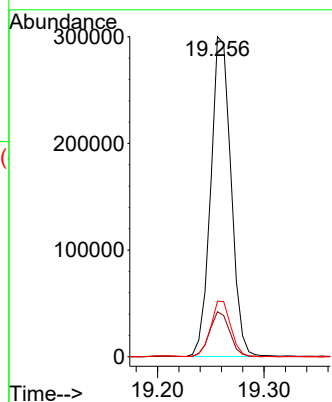
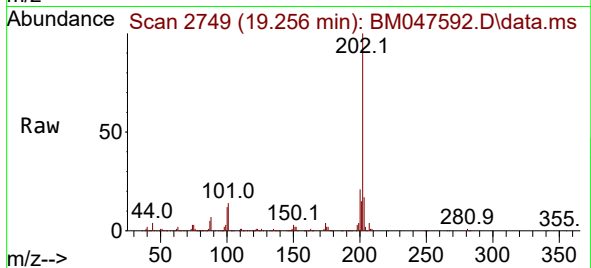
Tgt Ion:202 Resp: 396486

Ion Ratio Lower Upper

202 100

101 14.1 0.0 32.2

203 17.4 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.433 min Scan# 3119

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

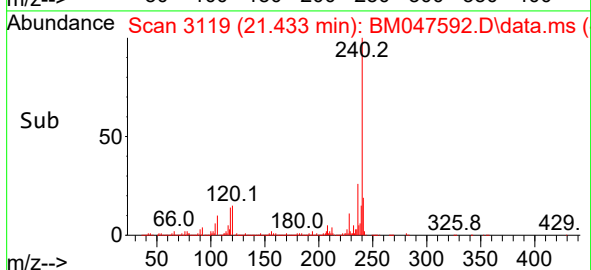
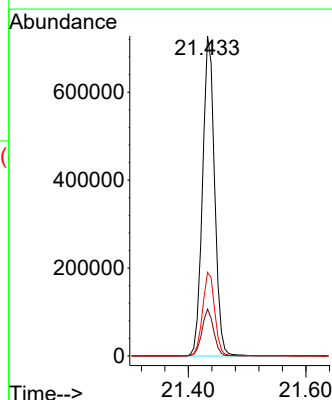
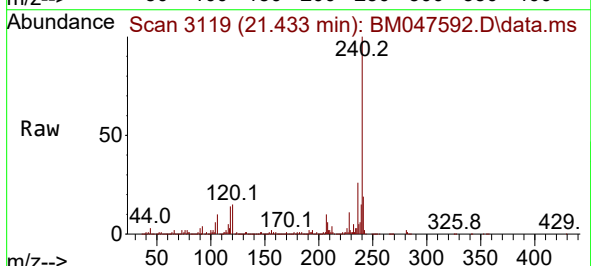
Tgt Ion:240 Resp: 1032104

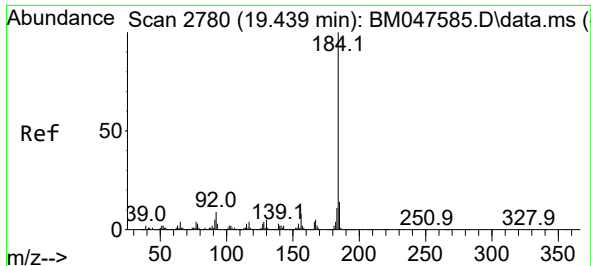
Ion Ratio Lower Upper

240 100

120 14.7 10.8 16.2

236 26.2 20.8 31.2

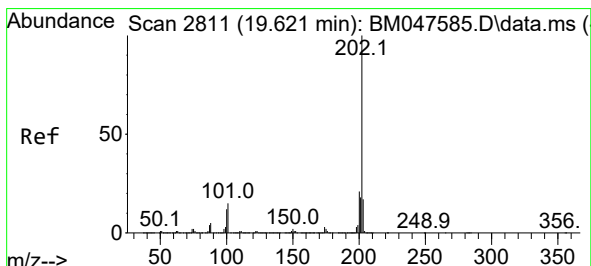
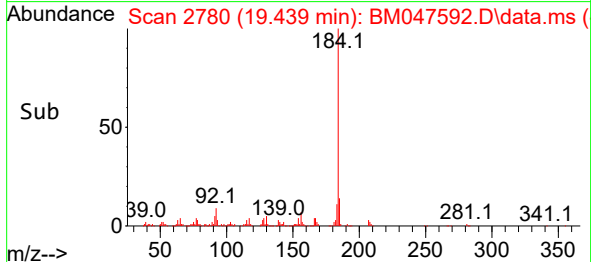
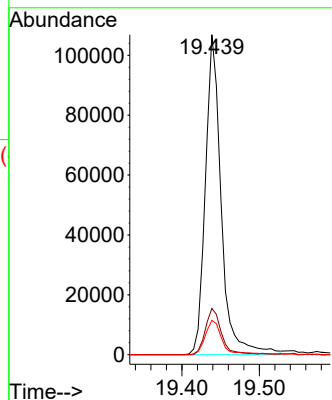
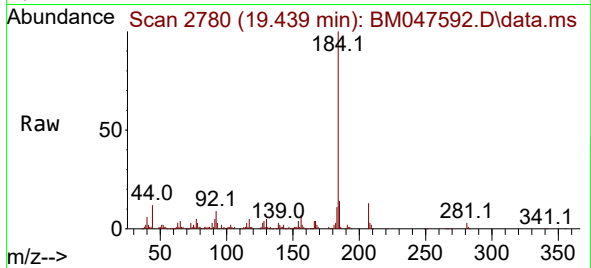




#77  
Benzidine  
Concen: 10.814 ng  
RT: 19.439 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

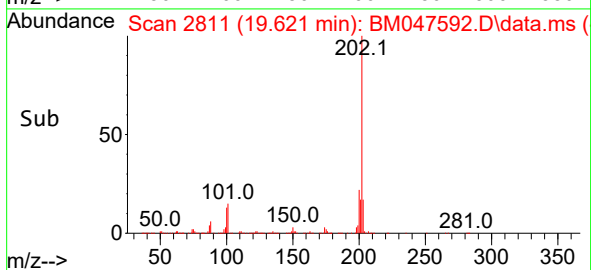
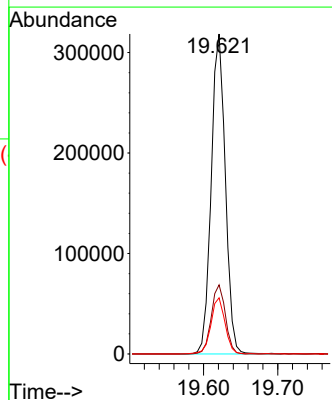
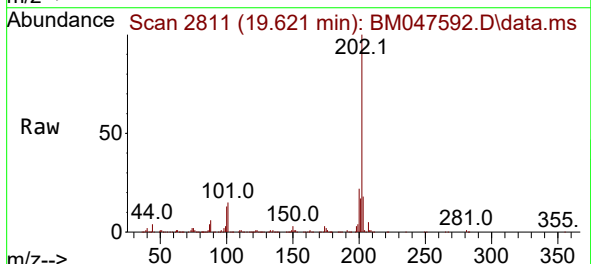
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

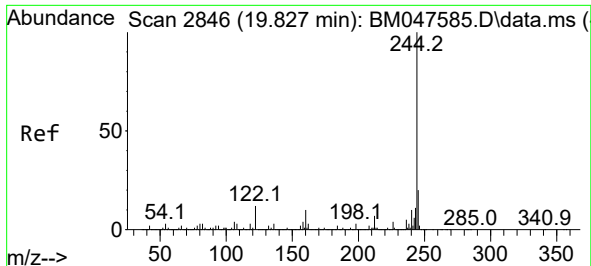
Tgt Ion:184 Resp: 151996  
Ion Ratio Lower Upper  
184 100  
185 14.4 11.5 17.3  
183 10.7 8.7 13.1



#78  
Pyrene  
Concen: 5.835 ng  
RT: 19.621 min Scan# 2811  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:202 Resp: 421499  
Ion Ratio Lower Upper  
202 100  
200 21.6 17.2 25.8  
203 17.6 13.8 20.8

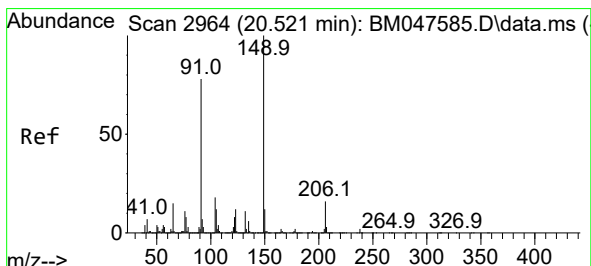
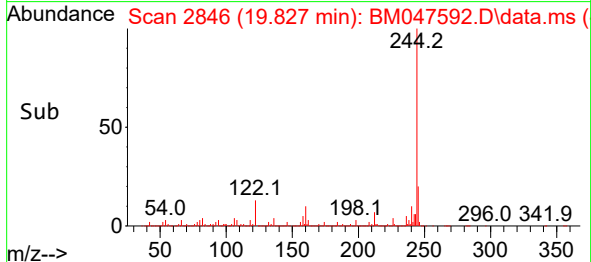
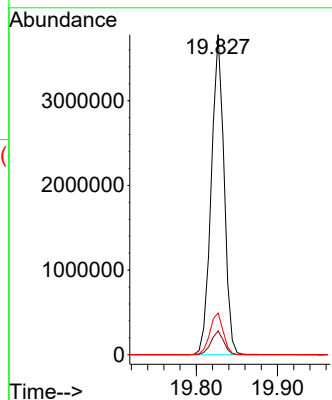
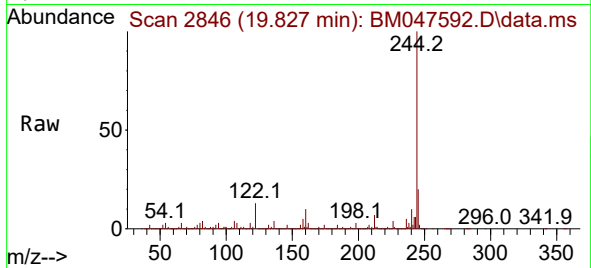




#79  
Terphenyl-d14  
Concen: 71.717 ng  
RT: 19.827 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

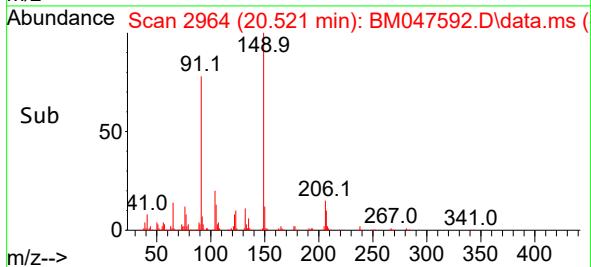
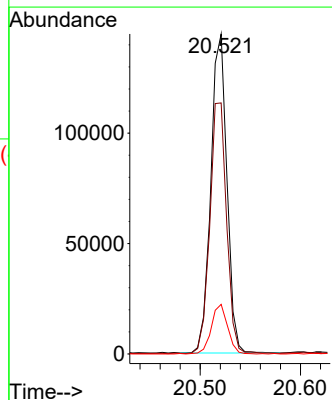
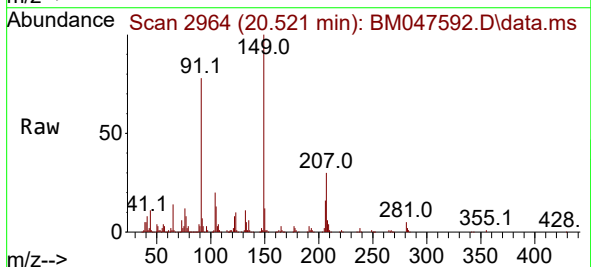
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT2-2024

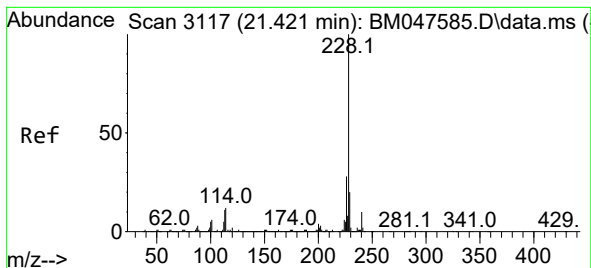
Tgt Ion:244 Resp: 4125348  
Ion Ratio Lower Upper  
244 100  
212 7.4 6.0 9.0  
122 13.0 10.0 15.0



#80  
Butylbenzylphthalate  
Concen: 5.124 ng  
RT: 20.521 min Scan# 2964  
Delta R.T. -0.000 min  
Lab File: BM047592.D  
Acq: 20 Sep 2024 17:00

Tgt Ion:149 Resp: 161138  
Ion Ratio Lower Upper  
149 100  
91 78.5 62.3 93.5  
206 15.5 13.0 19.6





#81

Benzo(a)anthracene

Concen: 6.382 ng

RT: 21.415 min Scan# 3116

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

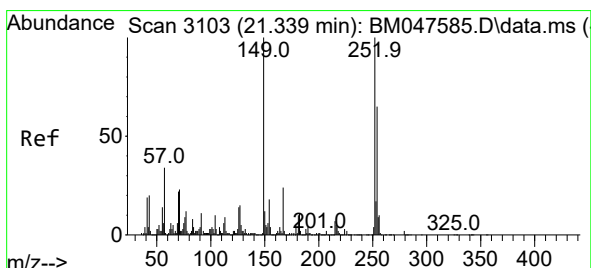
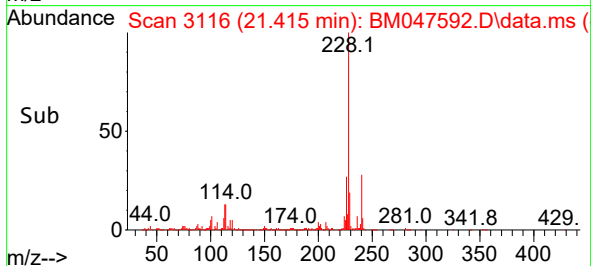
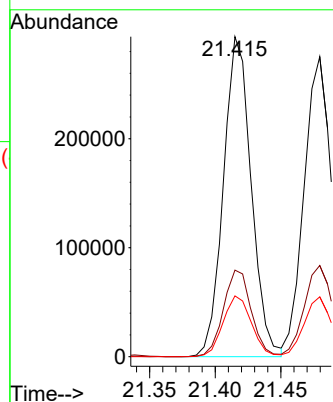
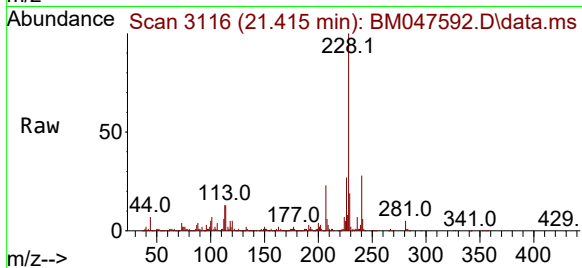
Tgt Ion:228 Resp: 433109

Ion Ratio Lower Upper

228 100

226 27.1 22.4 33.6

229 19.0 16.0 24.0



#82

3,3'-Dichlorobenzidine

Concen: 5.737 ng

RT: 21.338 min Scan# 3103

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

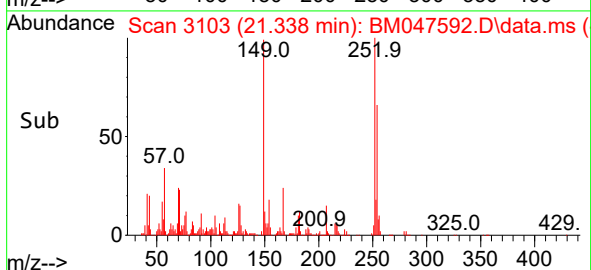
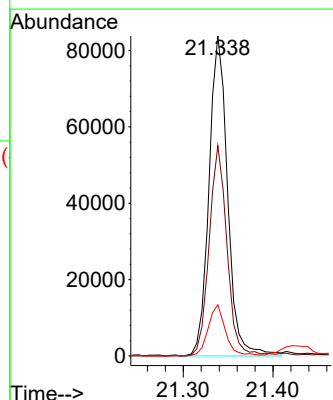
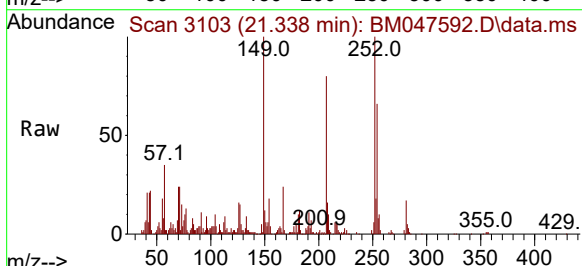
Tgt Ion:252 Resp: 120917

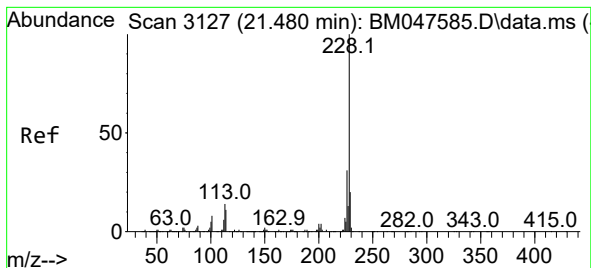
Ion Ratio Lower Upper

252 100

254 65.7 52.3 78.5

126 16.0 11.4 17.0





#83

Chrysene

Concen: 6.263 ng

RT: 21.480 min Scan# 3127

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

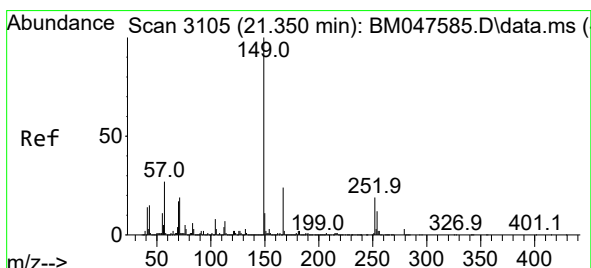
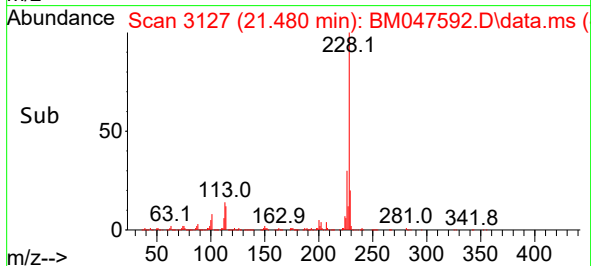
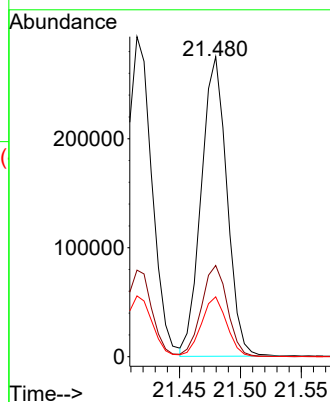
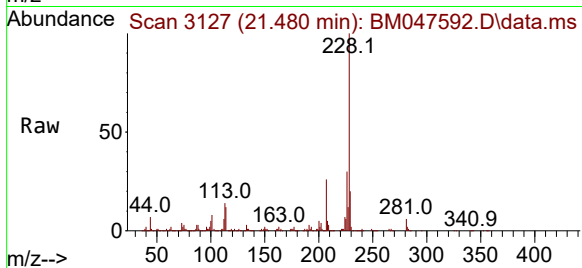
Tgt Ion:228 Resp: 404204

Ion Ratio Lower Upper

228 100

226 30.4 24.9 37.3

229 19.9 15.8 23.6



#84

Bis(2-ethylhexyl)phthalate

Concen: 5.146 ng

RT: 21.350 min Scan# 3105

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

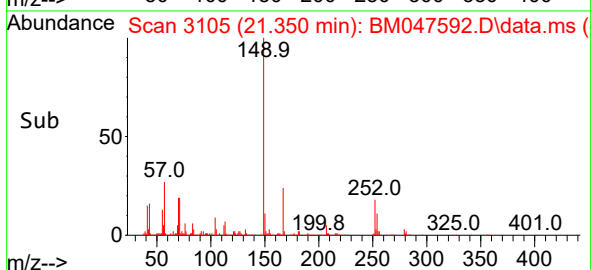
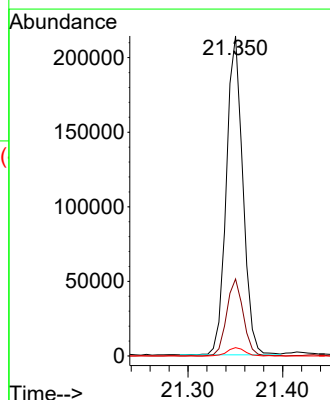
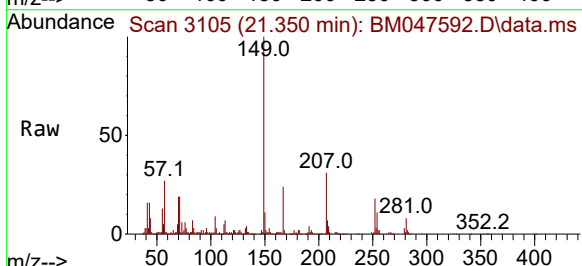
Tgt Ion:149 Resp: 258871

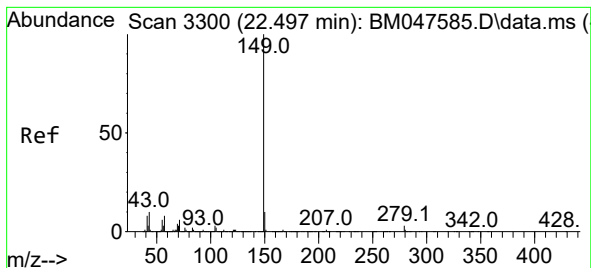
Ion Ratio Lower Upper

149 100

167 24.0 19.5 29.3

279 2.6 2.3 3.5





#85

Di-n-octyl phthalate

Concen: 5.009 ng

RT: 22.491 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

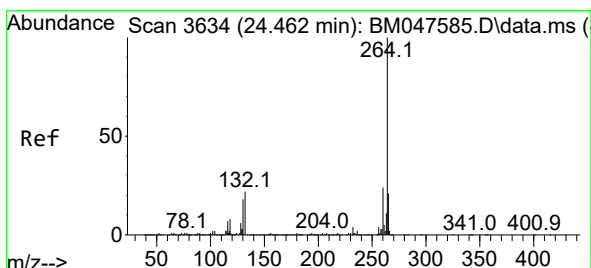
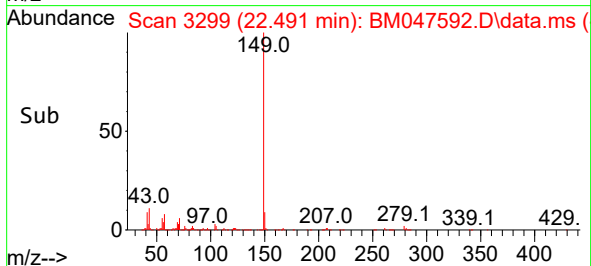
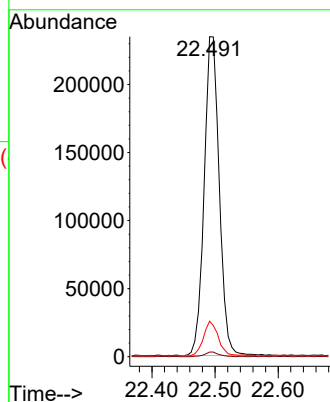
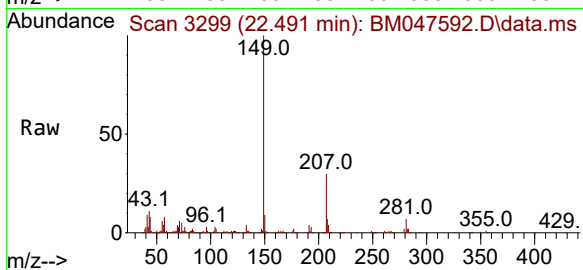
Tgt Ion:149 Resp: 388774

Ion Ratio Lower Upper

149 100

167 1.4 1.1 1.7

43 10.8 8.2 12.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.462 min Scan# 3634

Delta R.T. -0.000 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

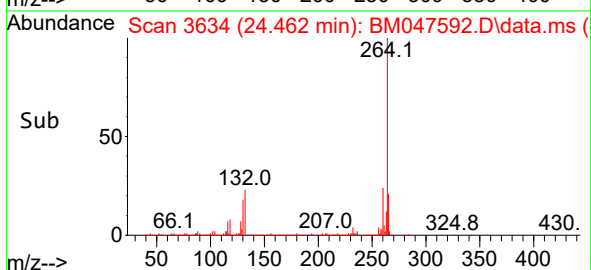
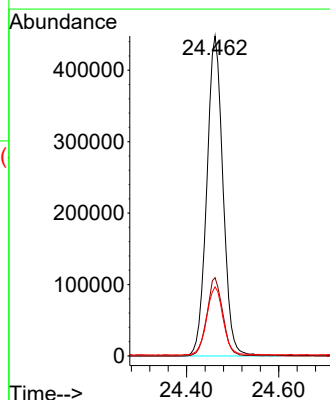
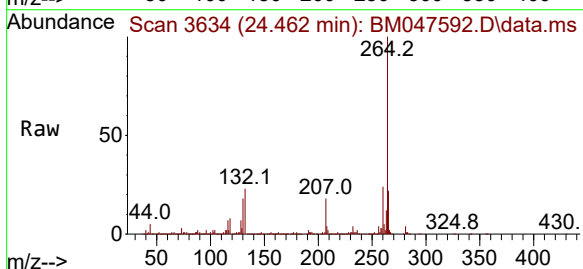
Tgt Ion:264 Resp: 1097915

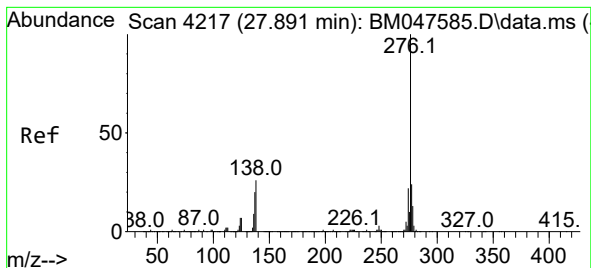
Ion Ratio Lower Upper

264 100

260 24.4 18.9 28.3

265 21.6 17.0 25.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.260 ng

RT: 27.873 min Scan# 41

Delta R.T. -0.018 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

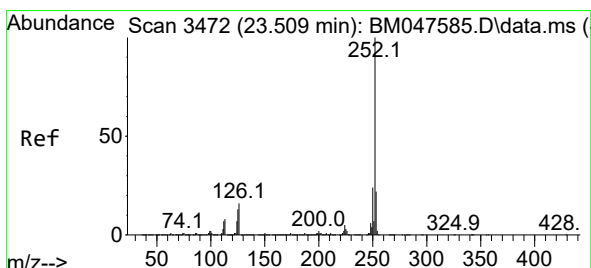
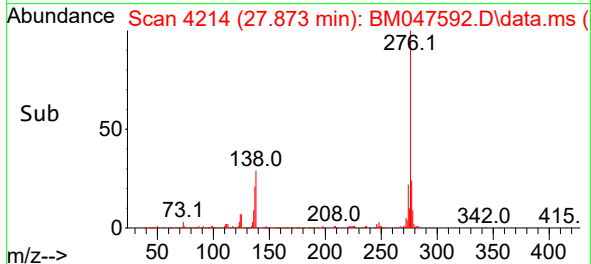
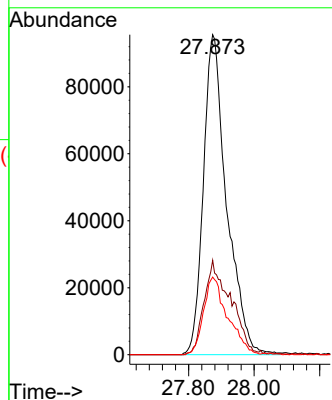
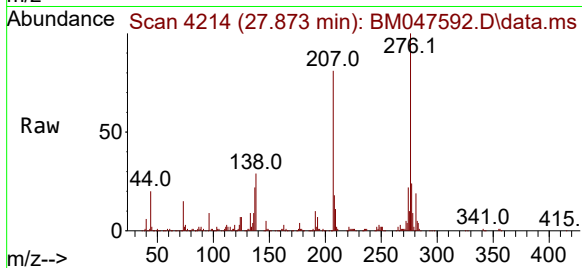
Tgt Ion:276 Resp: 472630

Ion Ratio Lower Upper

276 100

138 33.6 18.1 27.1#

277 25.1 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 5.721 ng

RT: 23.503 min Scan# 3471

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

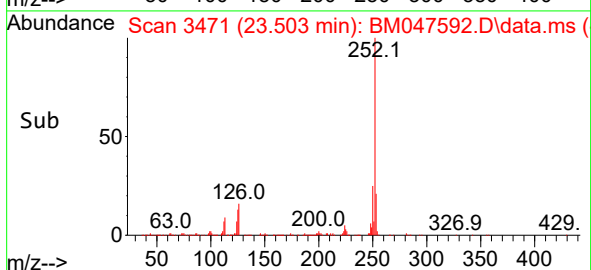
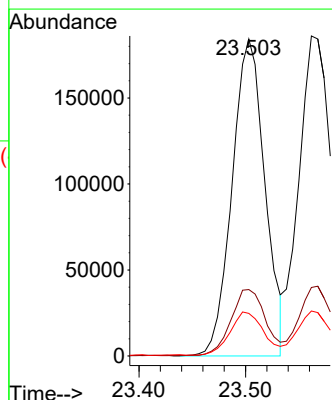
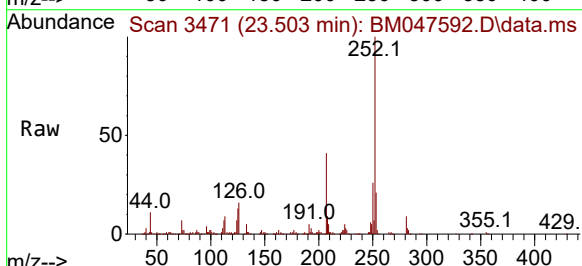
Tgt Ion:252 Resp: 394747

Ion Ratio Lower Upper

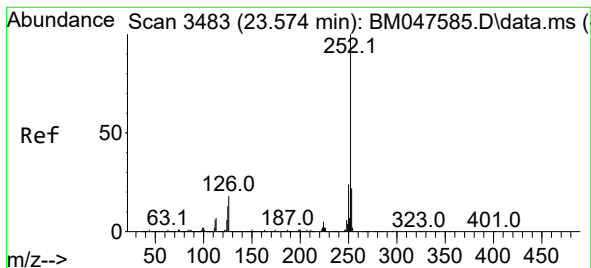
252 100

253 21.0 17.4 26.0

125 13.5 10.2 15.2







#89

Benzo(k)fluoranthene

Concen: 6.046 ng

RT: 23.562 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

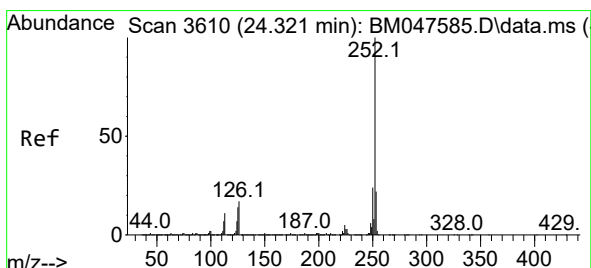
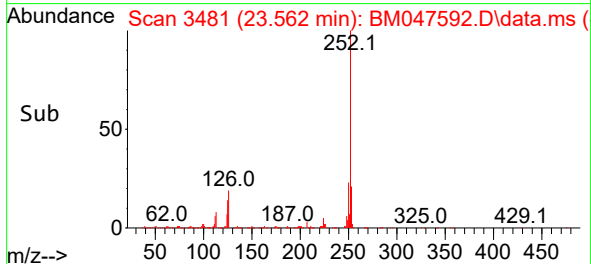
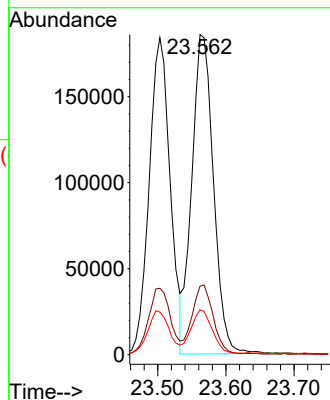
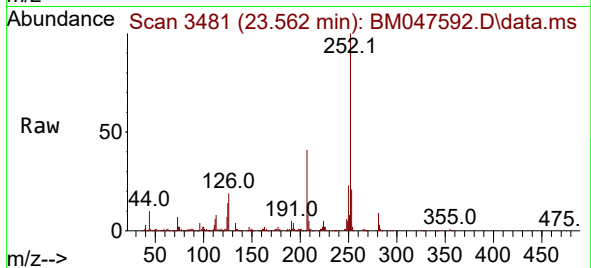
Tgt Ion:252 Resp: 409542

Ion Ratio Lower Upper

252 100

253 21.4 17.6 26.4

125 14.1 10.2 15.4



#90

Benzo(a)pyrene

Concen: 6.081 ng

RT: 24.315 min Scan# 3609

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

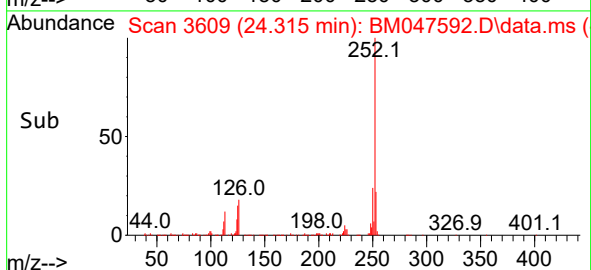
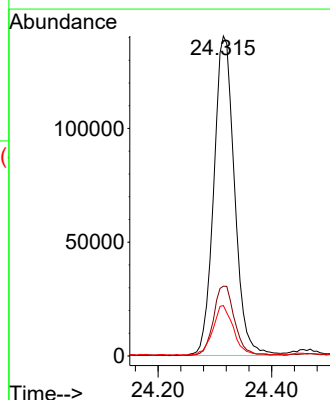
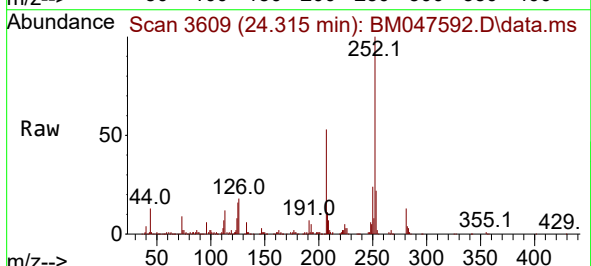
Tgt Ion:252 Resp: 355782

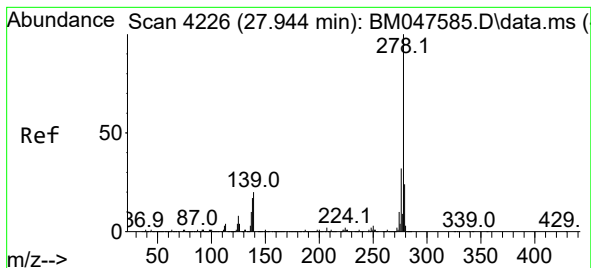
Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.0

125 15.8 11.5 17.3





#91

Dibenzo(a,h)anthracene

Concen: 6.082 ng

RT: 27.938 min Scan# 4395

Delta R.T. -0.006 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT2-2024

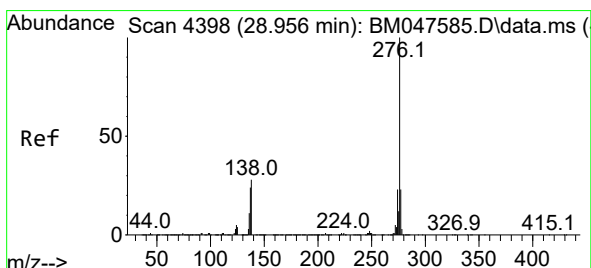
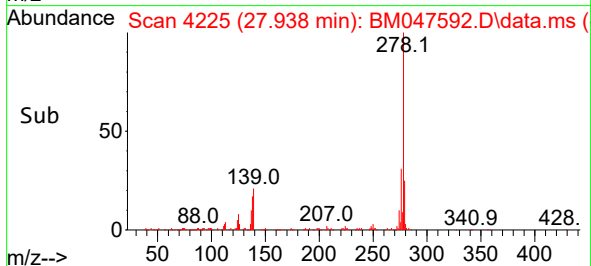
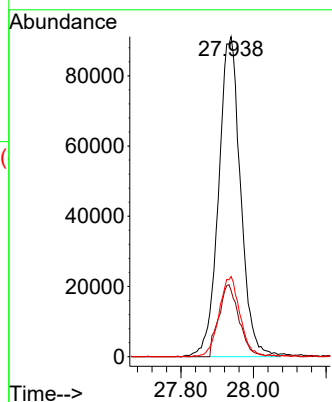
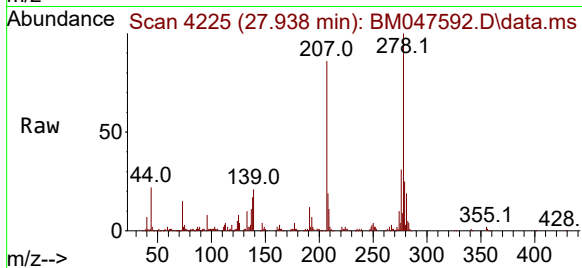
Tgt Ion:278 Resp: 383531

Ion Ratio Lower Upper

278 100

139 20.7 16.4 24.6

279 25.1 19.0 28.6



#92

Benzo(g,h,i)perylene

Concen: 5.818 ng

RT: 28.938 min Scan# 4395

Delta R.T. -0.018 min

Lab File: BM047592.D

Acq: 20 Sep 2024 17:00

Tgt Ion:276 Resp: 367723

Ion Ratio Lower Upper

276 100

277 22.5 18.3 27.5

138 28.3 22.3 33.5

