

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM020625\  
 Data File : BM049579.D  
 Acq On : 06 Feb 2025 13:19  
 Operator : RC/JU  
 Sample : Q1168-02  
 Misc : LOQ-SOIL 5PPM  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2025

Quant Time: Feb 06 13:51:39 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 06 11:55:12 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.822  | 152  | 152376   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.622 | 136  | 565641   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.463 | 164  | 342536   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.204 | 188  | 648790   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.445 | 240  | 540612   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.474 | 264  | 455366   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.393  | 112  | 1371205  | 144.709 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.981  | 99   | 1774865  | 142.971 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.975  | 82   | 1186468  | 107.893 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.945 | 330  | 578896   | 142.628 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.092 | 172  | 2914074  | 110.209 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.833 | 244  | 4601043  | 129.963 | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.293  | 88   | 41981    | 10.537  | ng    | 96       |
| 3) Pyridine                   | 3.693  | 79   | 96310    | 8.699   | ng    | 93       |
| 4) n-Nitrosodimethylamine     | 3.599  | 42   | 52755    | 10.185  | ng    | # 87     |
| 6) Aniline                    | 7.146  | 93   | 118841   | 10.100  | ng    | 97       |
| 8) 2-Chlorophenol             | 7.387  | 128  | 85754    | 9.063   | ng    | 97       |
| 9) Benzaldehyde               | 6.957  | 77   | 93903    | 14.286  | ng    | 97       |
| 10) Phenol                    | 7.004  | 94   | 115980   | 9.485   | ng    | 95       |
| 11) bis(2-Chloroethyl)ether   | 7.246  | 93   | 94143    | 9.517   | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 7.716  | 146  | 107075   | 9.750   | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 7.857  | 146  | 108513   | 9.768   | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.175  | 146  | 103090   | 9.611   | ng    | 99       |
| 15) Benzyl Alcohol            | 8.057  | 79   | 71060    | 8.228   | ng    | 97       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.351  | 45   | 140584   | 10.557  | ng    | 99       |
| 17) 2-Methylphenol            | 8.257  | 107  | 65991    | 8.826   | ng    | 94       |
| 18) Hexachloroethane          | 8.910  | 117  | 38008    | 9.367   | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 8.628  | 70   | 73846    | 9.084   | ng    | 97       |
| 20) 3+4-Methylphenols         | 8.587  | 107  | 84193    | 8.530   | ng    | 97       |
| 22) Acetophenone              | 8.640  | 105  | 144356   | 9.475   | ng    | 96       |
| 24) Nitrobenzene              | 9.016  | 77   | 109128   | 10.214  | ng    | 95       |
| 25) Isophorone                | 9.545  | 82   | 186689   | 9.413   | ng    | 98       |
| 26) 2-Nitrophenol             | 9.734  | 139  | 17729    | 7.617   | ng    | 96       |
| 27) 2,4-Dimethylphenol        | 9.792  | 122  | 51278    | 8.177   | ng    | 91       |
| 28) bis(2-Chloroethoxy)met... | 10.034 | 93   | 116507   | 9.121   | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 10.263 | 162  | 63819    | 7.390   | ng    | 96       |
| 30) 1,2,4-Trichlorobenzene    | 10.487 | 180  | 98591    | 9.318   | ng    | 96       |
| 31) Naphthalene               | 10.675 | 128  | 268110   | 8.987   | ng    | 97       |
| 32) Benzoic acid              | 9.834  | 122  | 10603    | 8.346   | ng    | 94       |
| 33) 4-Chloroaniline           | 10.769 | 127  | 101800   | 9.117   | ng    | 97       |
| 34) Hexachlorobutadiene       | 10.969 | 225  | 57509    | 9.077   | ng    | 98       |
| 35) Caprolactam               | 11.510 | 113  | 18491    | 7.019   | ng    | # 83     |
| 36) 4-Chloro-3-methylphenol   | 11.892 | 107  | 61509    | 7.142   | ng    | 95       |
| 37) 2-Methylnaphthalene       | 12.286 | 142  | 182035   | 8.667   | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.504 | 142  | 167629   | 8.203   | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 12.651 | 216  | 104553   | 9.284   | ng    | 100      |
| 41) Hexachlorocyclopentadiene | 12.645 | 237  | 19987    | 6.952   | ng    | 94       |
| 43) 2,4,6-Trichlorophenol     | 12.892 | 196  | 41103    | 6.688   | ng    | 95       |

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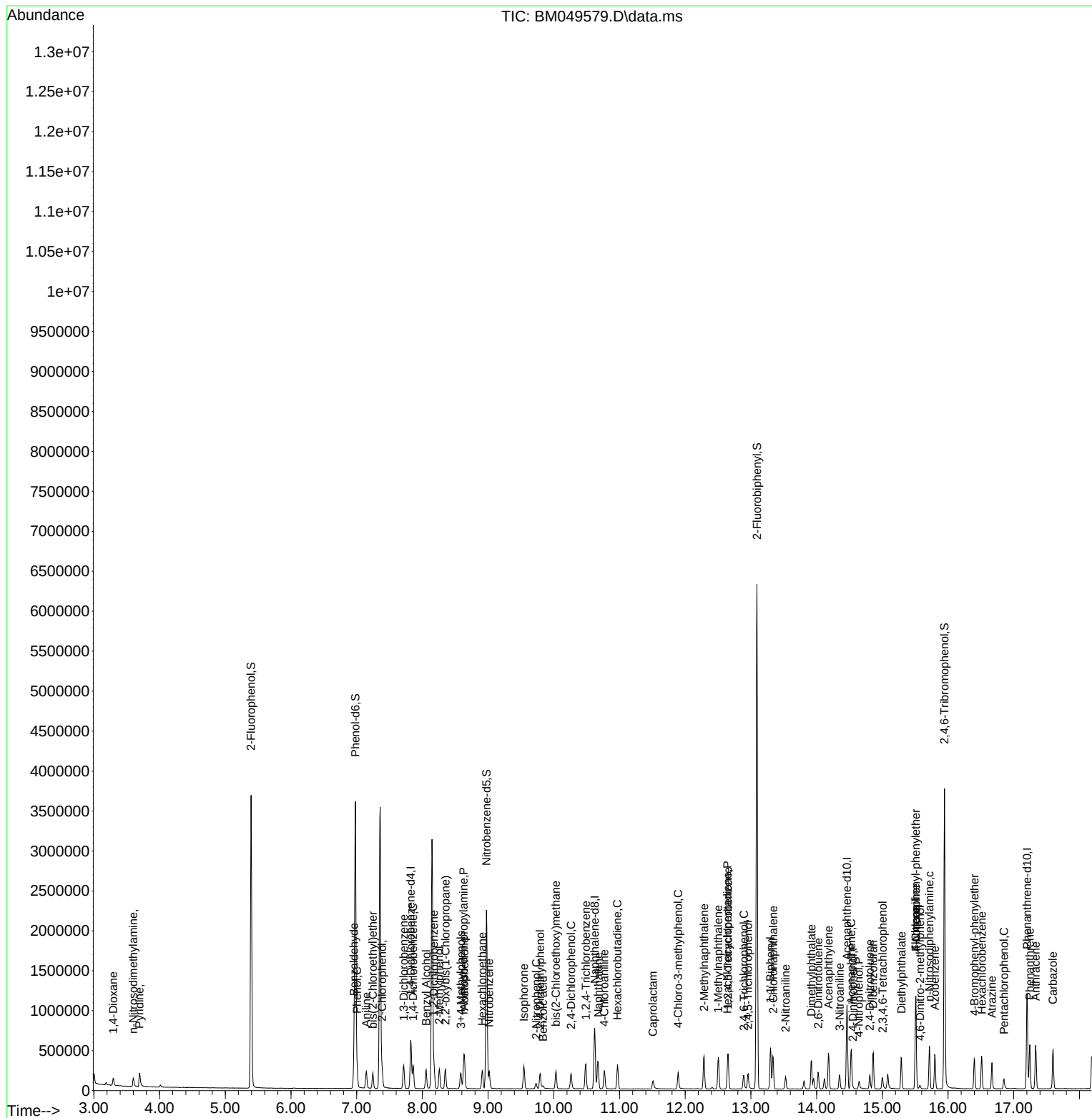
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.957 | 196  | 47965    | 7.102  | ng    | 96       |
| 46) 1,1'-Biphenyl             | 13.298 | 154  | 245365   | 9.390  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.339 | 162  | 189833   | 9.390  | ng    | 96       |
| 48) 2-Nitroaniline            | 13.528 | 65   | 35123    | 7.571  | ng    | 92       |
| 49) Acenaphthylene            | 14.180 | 152  | 287494   | 9.644  | ng    | 100      |
| 50) Dimethylphthalate         | 13.922 | 163  | 209607   | 8.521  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.027 | 165  | 32522    | 7.640  | ng    | 91       |
| 52) Acenaphthene              | 14.527 | 154  | 165041   | 8.341  | ng    | 96       |
| 53) 3-Nitroaniline            | 14.351 | 138  | 35209    | 8.124  | ng    | 98       |
| 54) 2,4-Dinitrophenol         | 14.551 | 184  | 4402     | 8.896  | ng    | # 68     |
| 55) Dibenzofuran              | 14.863 | 168  | 281170   | 8.924  | ng    | 99       |
| 56) 4-Nitrophenol             | 14.645 | 139  | 18743    | 5.130  | ng    | 95       |
| 57) 2,4-Dinitrotoluene        | 14.810 | 165  | 35552    | 9.294  | ng    | # 86     |
| 58) Fluorene                  | 15.510 | 166  | 222149   | 8.242  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.004 | 232  | 29655    | 5.197  | ng    | 96       |
| 60) Diethylphthalate          | 15.292 | 149  | 201678   | 8.158  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.510 | 204  | 116678   | 8.133  | ng    | 95       |
| 62) 4-Nitroaniline            | 15.510 | 138  | 34509    | 7.110  | ng    | 89       |
| 63) Azobenzene                | 15.798 | 77   | 240308   | 9.313  | ng    | 96       |
| 65) 4,6-Dinitro-2-methylph... | 15.574 | 198  | 7259     | 9.237  | ng    | 96       |
| 66) n-Nitrosodiphenylamine    | 15.716 | 169  | 176565   | 8.629  | ng    | 97       |
| 67) 4-Bromophenyl-phenylether | 16.404 | 248  | 63382    | 8.409  | ng    | 97       |
| 68) Hexachlorobenzene         | 16.516 | 284  | 76546    | 8.848  | ng    | 99       |
| 69) Atrazine                  | 16.668 | 200  | 50361    | 8.280  | ng    | 94       |
| 70) Pentachlorophenol         | 16.851 | 266  | 21839    | 11.093 | ng    | 93       |
| 71) Phenanthrene              | 17.245 | 178  | 325145   | 8.797  | ng    | 100      |
| 72) Anthracene                | 17.333 | 178  | 318732   | 8.709  | ng    | 99       |
| 73) Carbazole                 | 17.598 | 167  | 286010   | 8.904  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.186 | 149  | 279893   | 6.867  | ng    | 99       |
| 75) Fluoranthene              | 19.257 | 202  | 336915   | 7.786  | ng    | 99       |
| 77) Benzidine                 | 19.445 | 184  | 47555    | 9.933  | ng    | 98       |
| 78) Pyrene                    | 19.615 | 202  | 345074   | 8.525  | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.533 | 149  | 52112    | 4.137  | ng    | 97       |
| 81) Benzo(a)anthracene        | 21.427 | 228  | 318080   | 8.682  | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.345 | 252  | 61147    | 6.202  | ng    | 99       |
| 83) Chrysene                  | 21.486 | 228  | 301373   | 8.780  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.380 | 149  | 112897   | 5.228  | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.539 | 149  | 135741   | 3.985  | ng    | # 93     |
| 87) Indeno(1,2,3-cd)pyrene    | 27.891 | 276  | 208295   | 8.376  | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 23.580 | 252  | 257196   | 8.210  | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 23.580 | 252  | 257196   | 8.453  | ng    | 97       |
| 90) Benzo(a)pyrene            | 24.327 | 252  | 206920   | 8.335  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 27.968 | 278  | 155987   | 7.936  | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 28.950 | 276  | 175853   | 8.009  | ng    | 96       |

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

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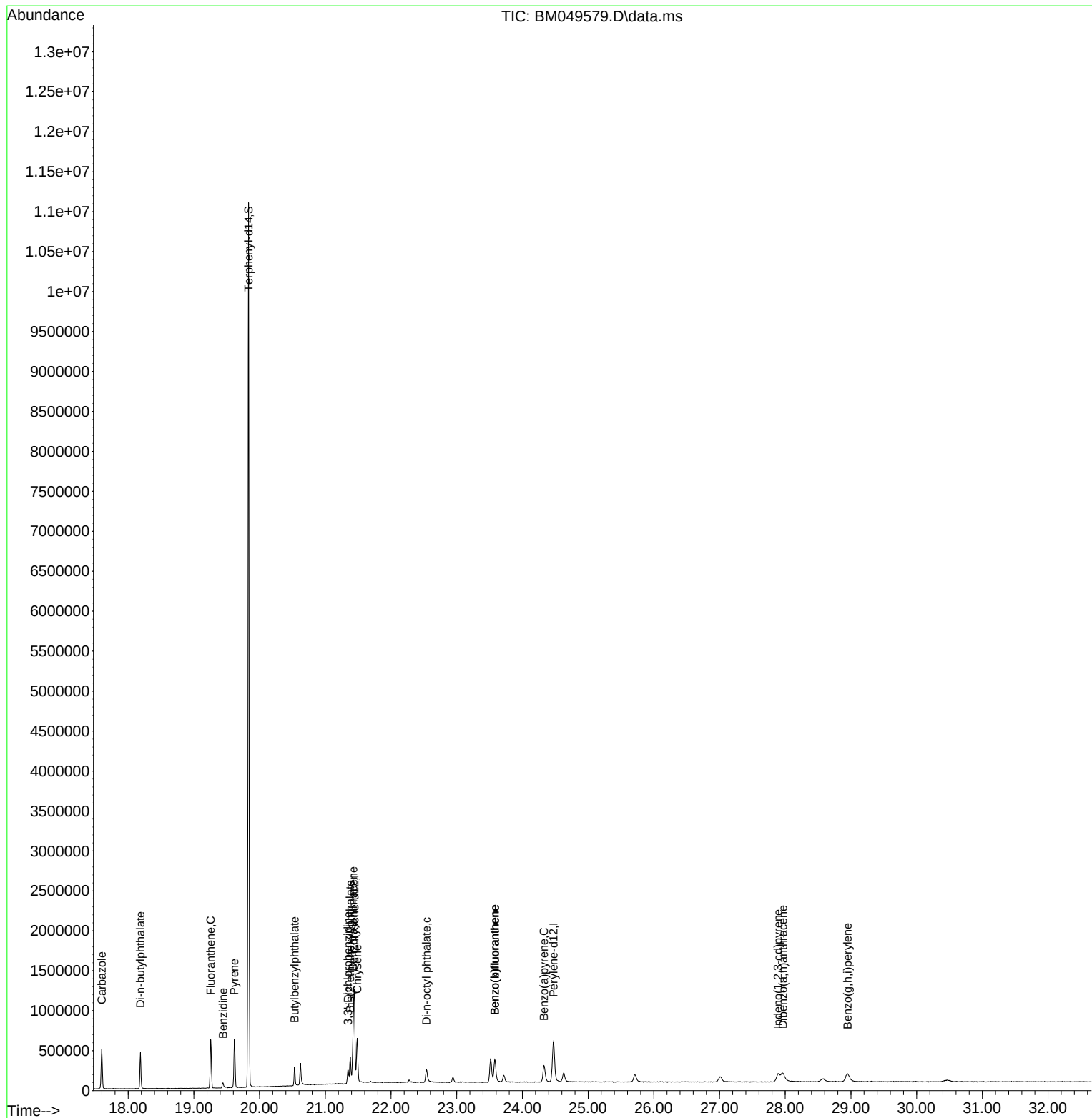
Quant Time: Feb 06 13:51:39 2025  
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QLast Update : Thu Feb 06 11:55:12 2025  
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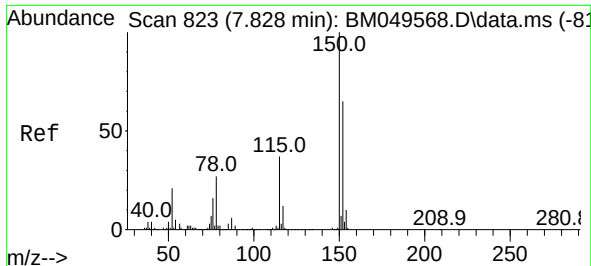


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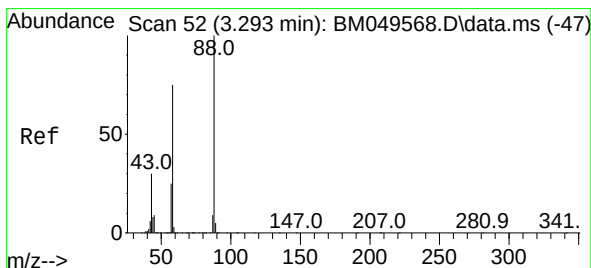
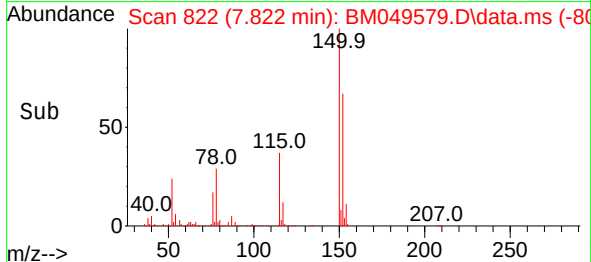
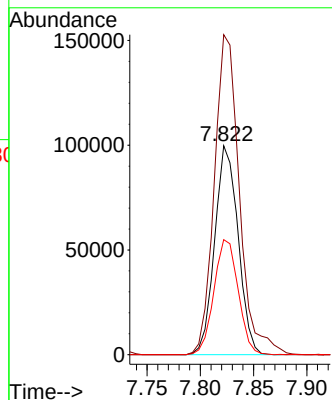
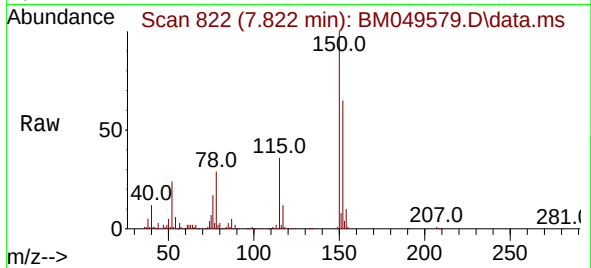




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.822 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
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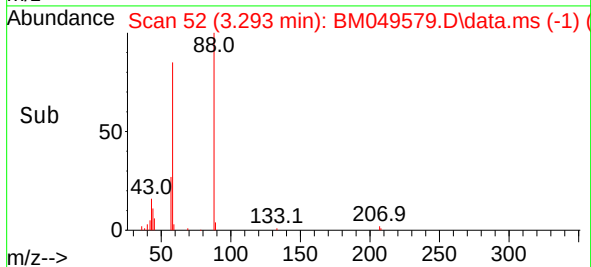
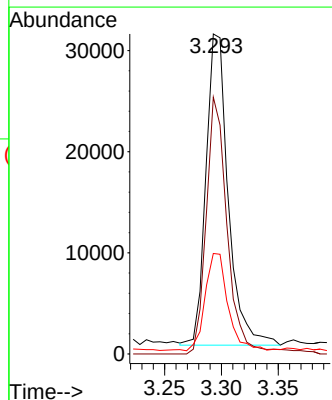
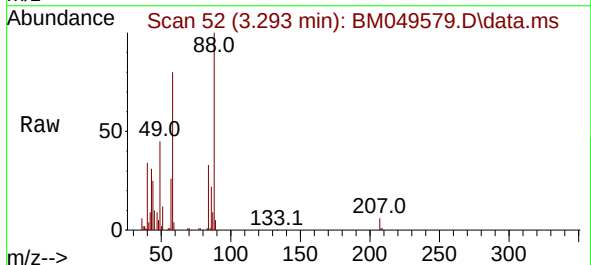
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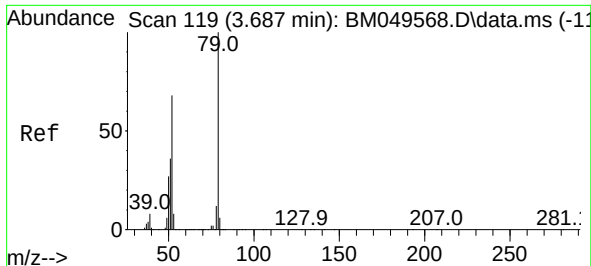
Tgt Ion:152 Resp: 152376  
Ion Ratio Lower Upper  
152 100  
150 153.1 122.6 184.0  
115 55.1 45.4 68.0



#2  
1,4-Dioxane  
Concen: 10.537 ng  
RT: 3.293 min Scan# 52  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion: 88 Resp: 41981  
Ion Ratio Lower Upper  
88 100  
58 78.8 60.0 90.0  
43 31.9 24.4 36.6

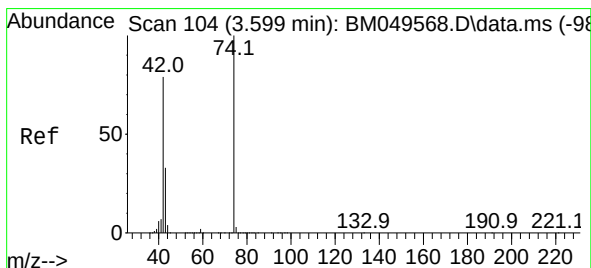
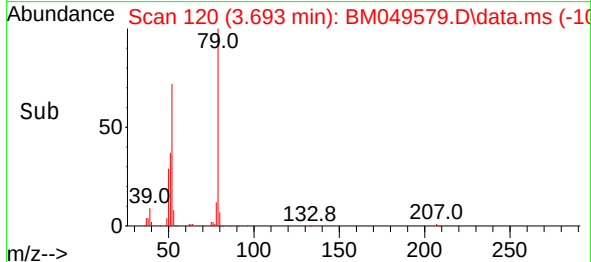
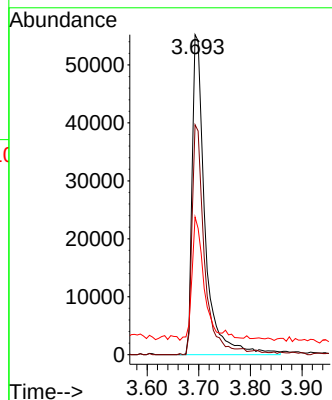
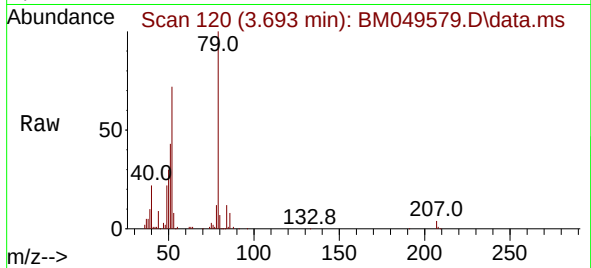




#3  
 Pyridine  
 Concen: 8.699 ng  
 RT: 3.693 min Scan# 119  
 Delta R.T. 0.006 min  
 Lab File: BM049579.D  
 Acq: 06 Feb 2025 13:19

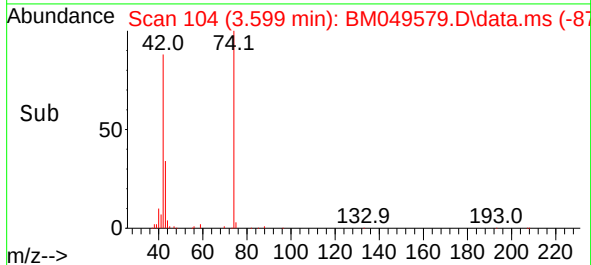
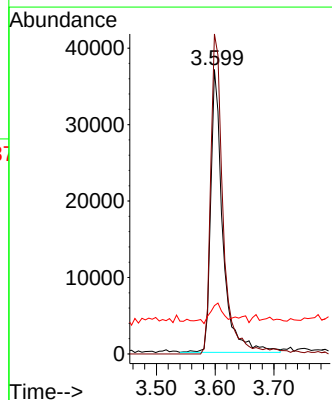
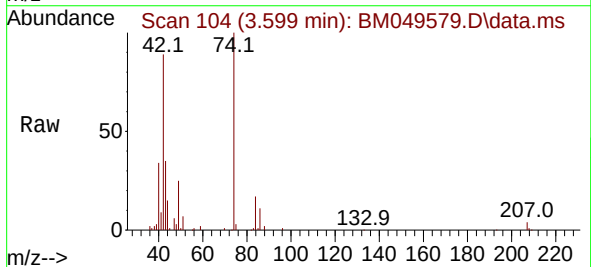
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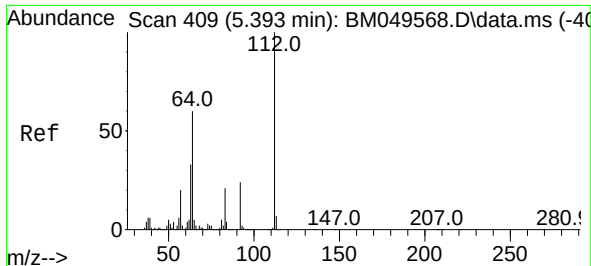
Tgt Ion: 79 Resp: 96310  
 Ion Ratio Lower Upper  
 79 100  
 52 71.9 54.5 81.7  
 51 43.0 29.0 43.6



#4  
 n-Nitrosodimethylamine  
 Concen: 10.185 ng  
 RT: 3.599 min Scan# 104  
 Delta R.T. 0.000 min  
 Lab File: BM049579.D  
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Tgt Ion: 42 Resp: 52755  
 Ion Ratio Lower Upper  
 42 100  
 74 112.5 101.3 151.9  
 44 17.0 6.5 9.7#

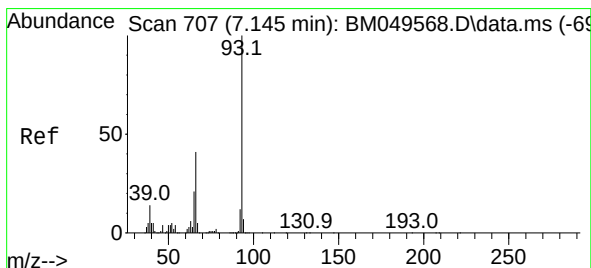
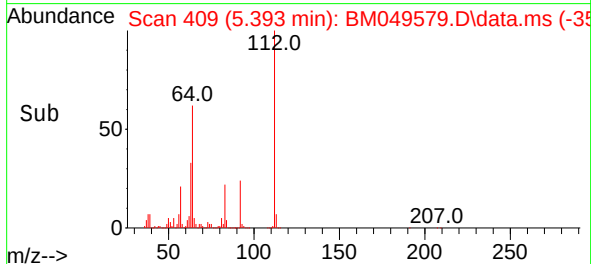
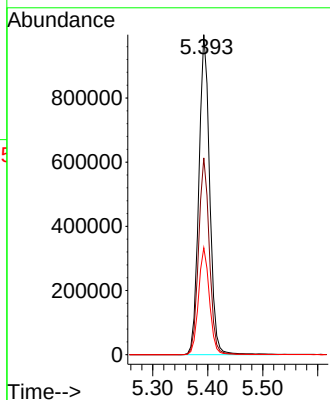
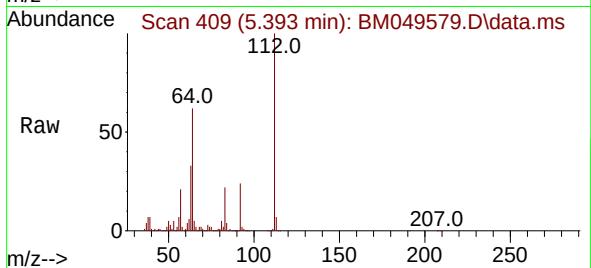




#5  
2-Fluorophenol  
Concen: 144.709 ng  
RT: 5.393 min Scan# 409  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
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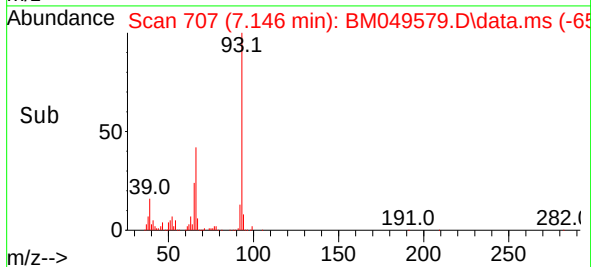
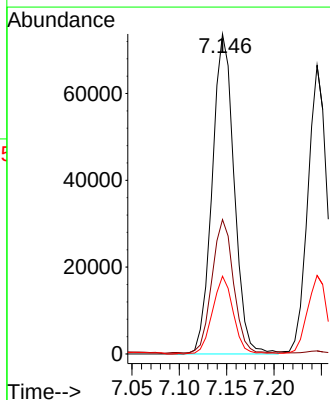
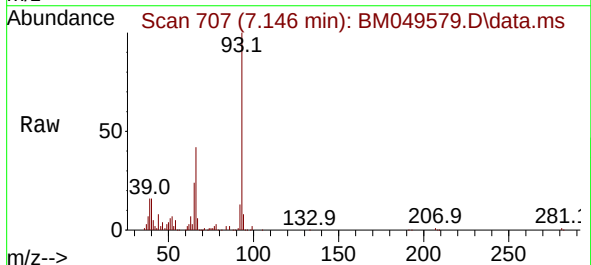
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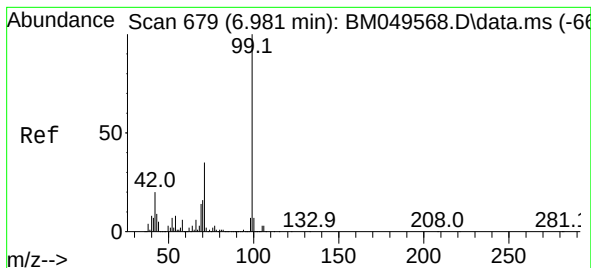
Tgt Ion:112 Resp: 1371205  
Ion Ratio Lower Upper  
112 100  
64 61.5 47.8 71.8  
63 33.4 26.2 39.4



#6  
Aniline  
Concen: 10.100 ng  
RT: 7.146 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion: 93 Resp: 118841  
Ion Ratio Lower Upper  
93 100  
66 42.0 33.3 49.9  
65 24.3 16.8 25.2

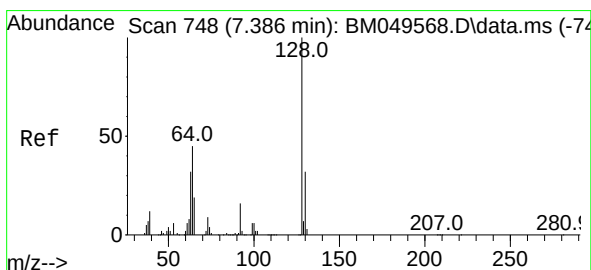
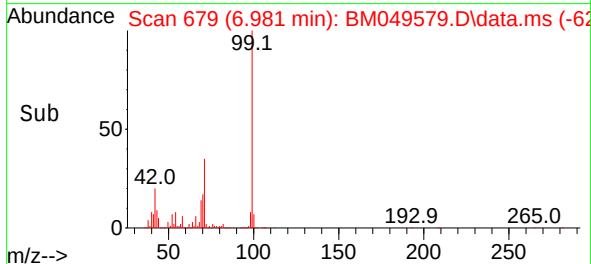
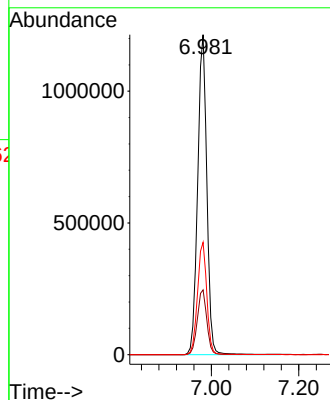
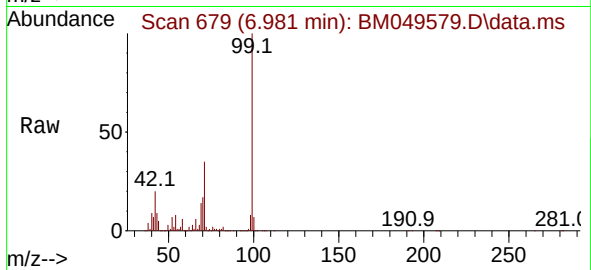




#7  
Phenol-d6  
Concen: 142.971 ng  
RT: 6.981 min Scan# 679  
Delta R.T. 0.000 min  
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Acq: 06 Feb 2025 13:19

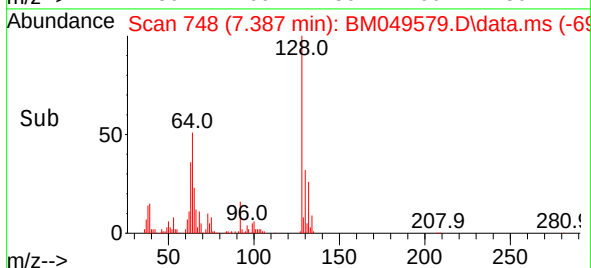
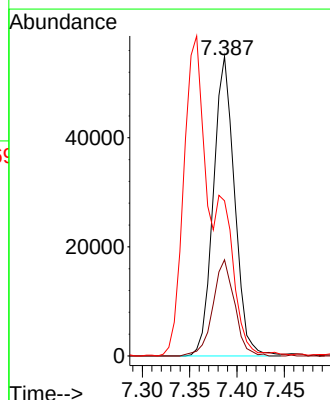
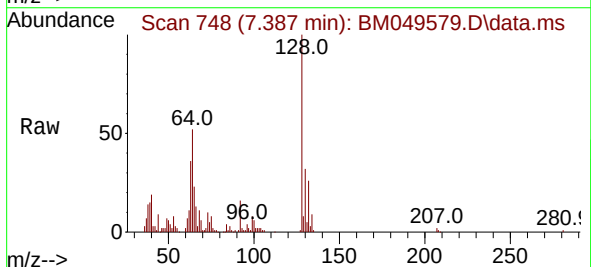
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

Tgt Ion: 99 Resp: 1774865  
Ion Ratio Lower Upper  
99 100  
42 20.2 16.0 24.0  
71 35.1 27.8 41.6

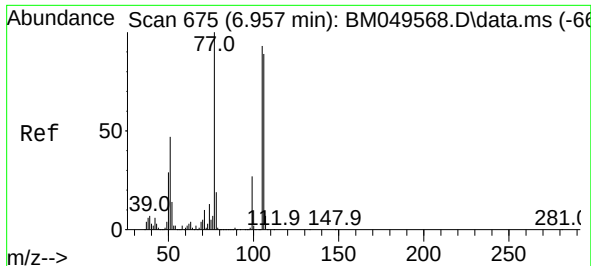


#8  
2-Chlorophenol  
Concen: 9.063 ng  
RT: 7.387 min Scan# 748  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion: 128 Resp: 85754  
Ion Ratio Lower Upper  
128 100  
130 32.1 12.4 52.4  
64 51.8 28.7 68.7



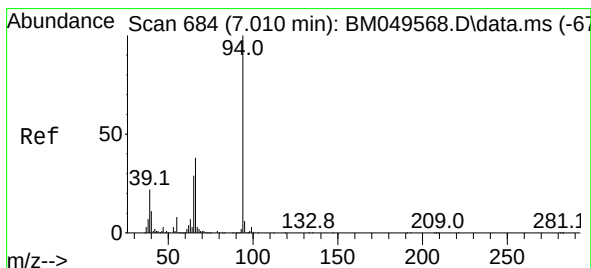
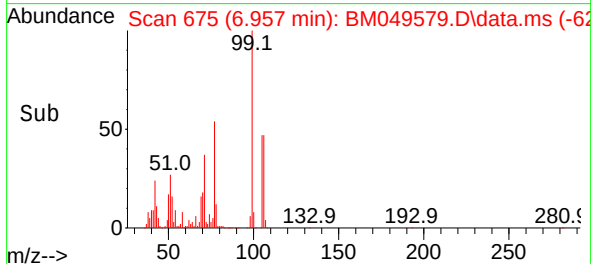
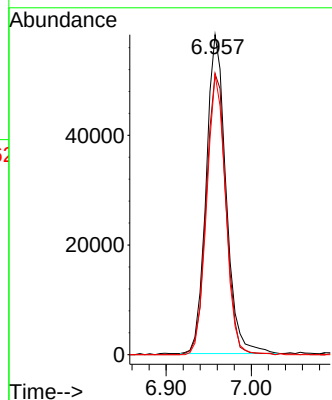
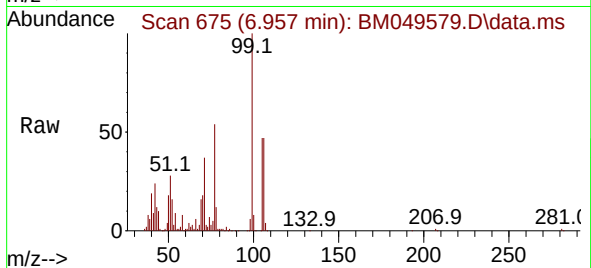




#9  
Benzaldehyde  
Concen: 14.286 ng  
RT: 6.957 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

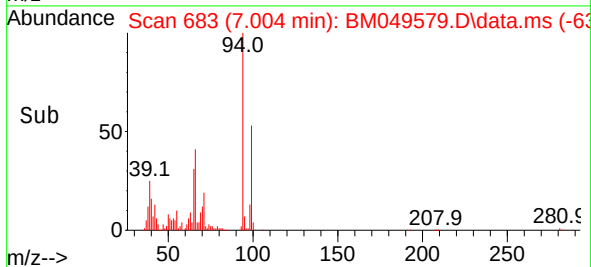
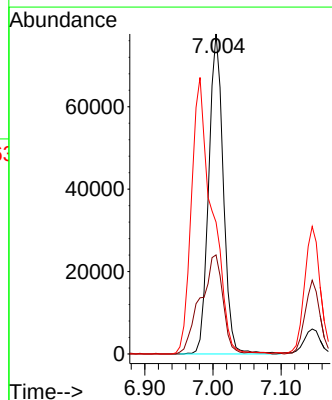
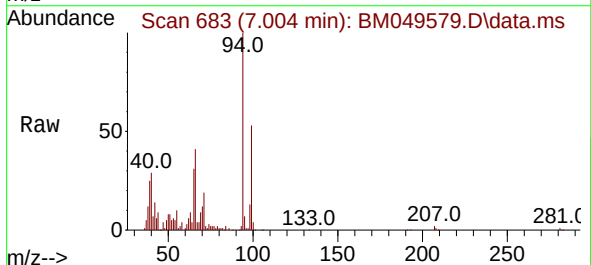
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

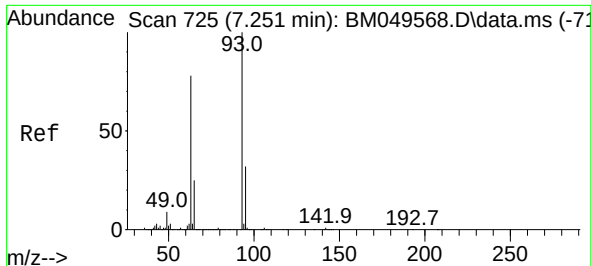
Tgt Ion: 77 Resp: 93903  
Ion Ratio Lower Upper  
77 100  
105 87.8 72.7 112.7  
106 87.6 68.9 108.9



#10  
Phenol  
Concen: 9.485 ng  
RT: 7.004 min Scan# 683  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion: 94 Resp: 115980  
Ion Ratio Lower Upper  
94 100  
65 30.9 9.3 49.3  
66 41.2 17.7 57.7

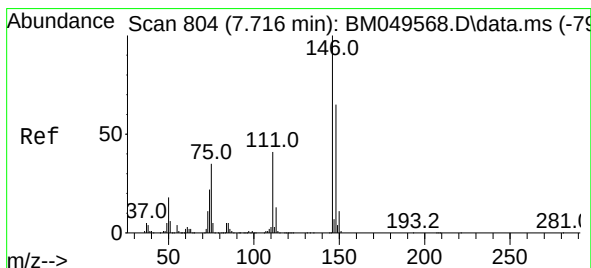
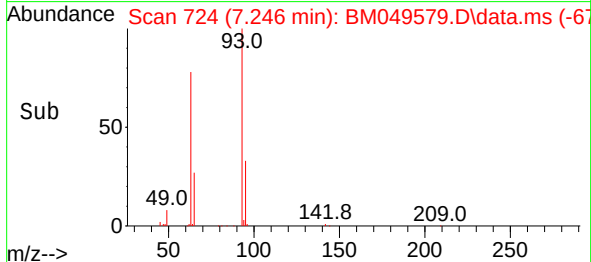
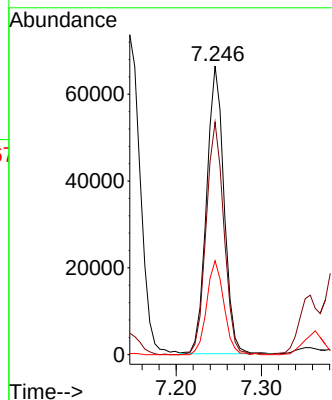
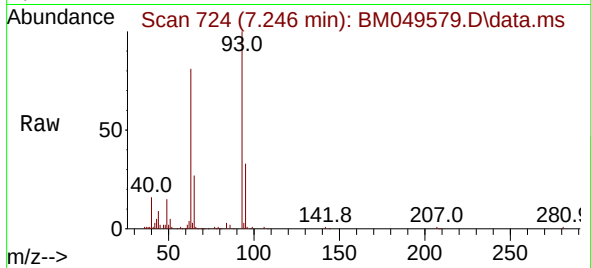




#11  
bis(2-Chloroethyl)ether  
Concen: 9.517 ng  
RT: 7.246 min Scan# 725  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

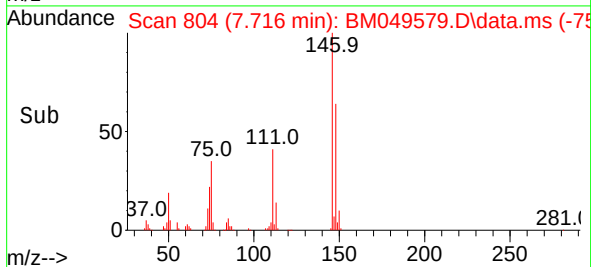
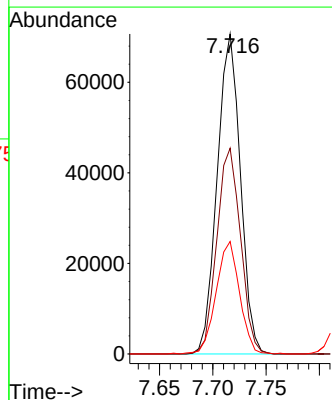
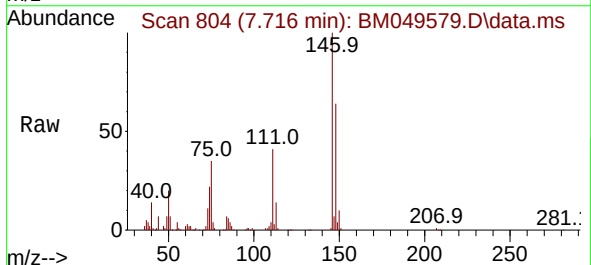
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

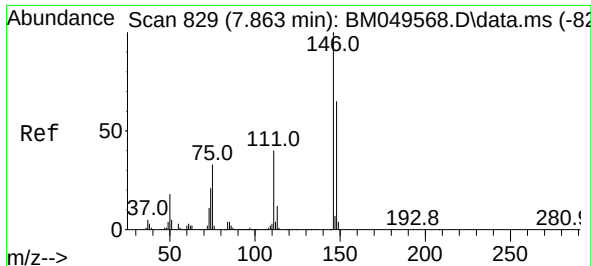
Tgt Ion: 93 Resp: 94143  
Ion Ratio Lower Upper  
93 100  
63 80.5 57.3 97.3  
95 32.5 12.1 52.1



#12  
1,3-Dichlorobenzene  
Concen: 9.750 ng  
RT: 7.716 min Scan# 804  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:146 Resp: 107075  
Ion Ratio Lower Upper  
146 100  
148 64.3 52.2 78.2  
75 35.2 28.3 42.5

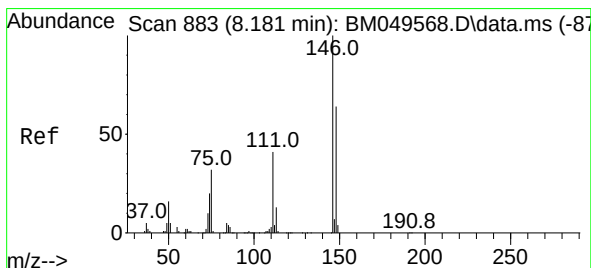
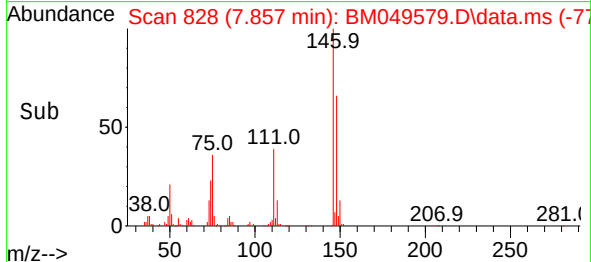
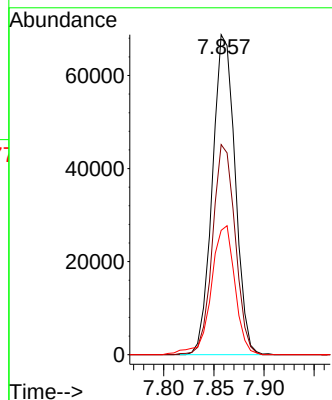
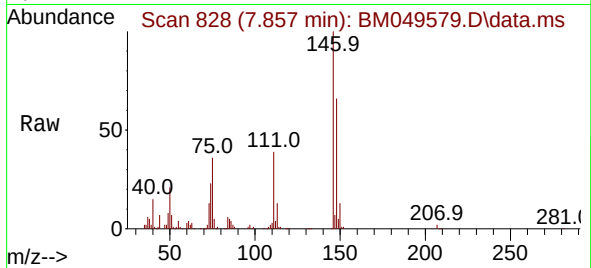




#13  
1,4-Dichlorobenzene  
Concen: 9.768 ng  
RT: 7.857 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

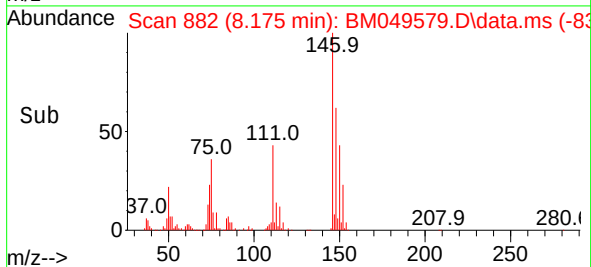
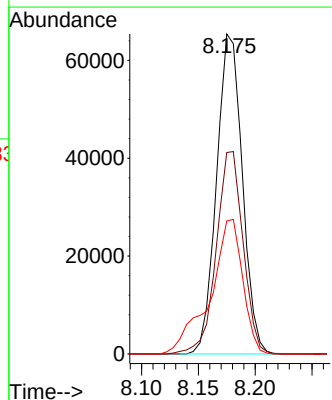
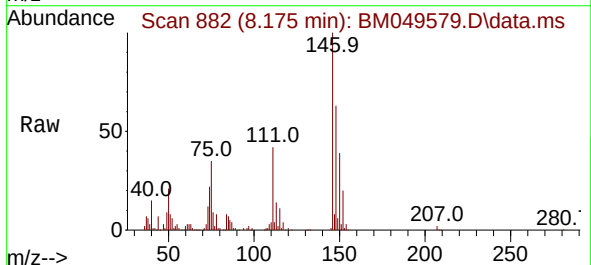
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

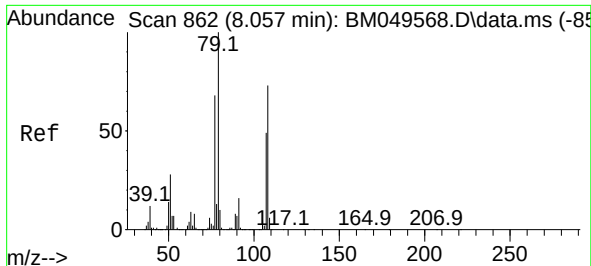
Tgt Ion:146 Resp: 108513  
Ion Ratio Lower Upper  
146 100  
148 65.7 52.1 78.1  
111 38.9 31.7 47.5



#14  
1,2-Dichlorobenzene  
Concen: 9.611 ng  
RT: 8.175 min Scan# 882  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:146 Resp: 103090  
Ion Ratio Lower Upper  
146 100  
148 62.9 51.5 77.3  
111 41.6 33.4 50.0

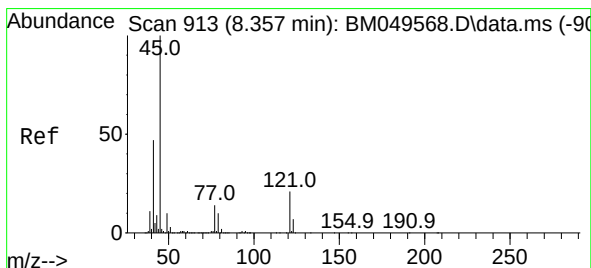
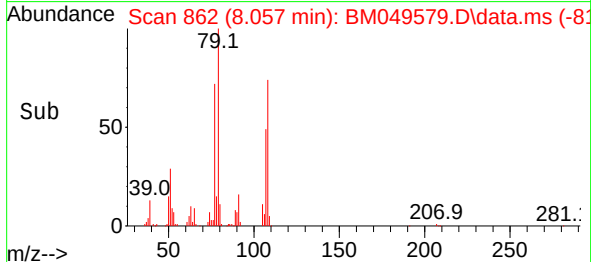
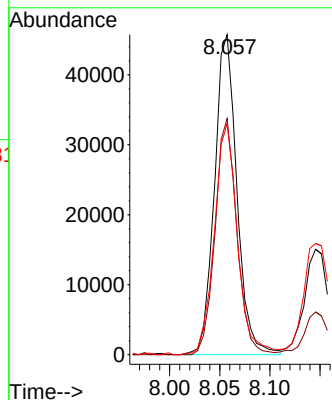
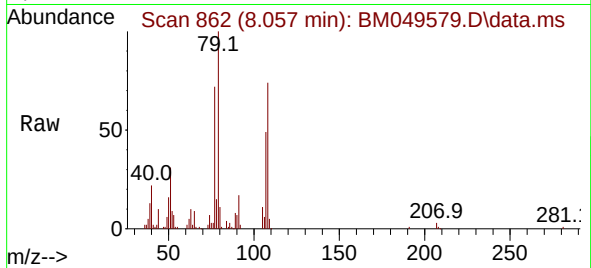




#15  
Benzyl Alcohol  
Concen: 8.228 ng  
RT: 8.057 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

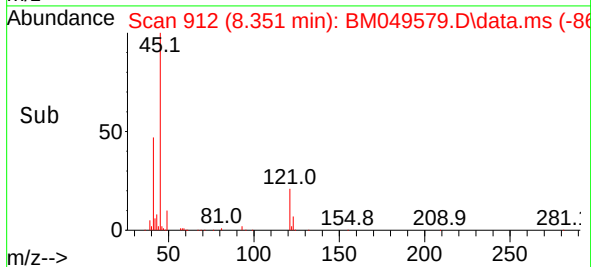
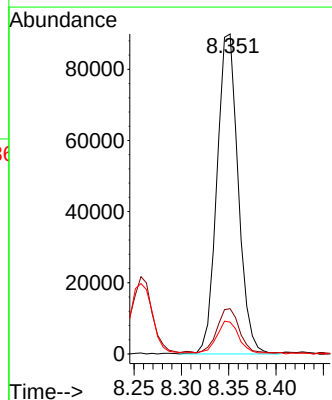
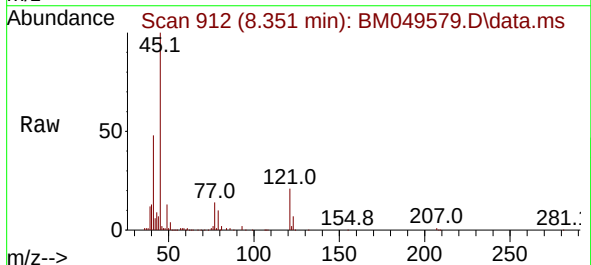
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

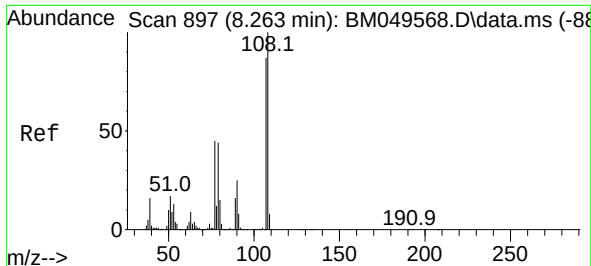
Tgt Ion: 79 Resp: 71060  
Ion Ratio Lower Upper  
79 100  
108 73.7 58.6 88.0  
77 72.2 54.0 81.0



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 10.557 ng  
RT: 8.351 min Scan# 912  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion: 45 Resp: 140584  
Ion Ratio Lower Upper  
45 100  
77 14.1 0.0 34.0  
79 10.0 0.0 30.8

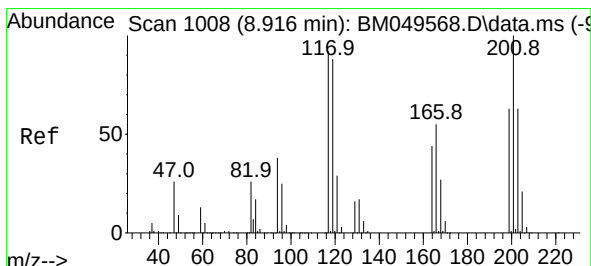
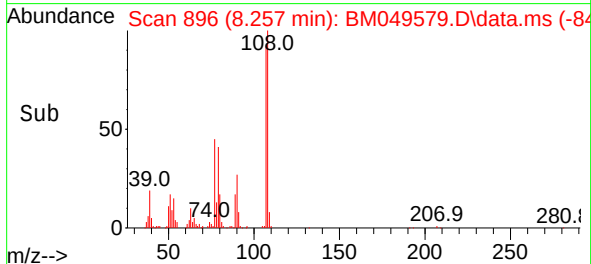
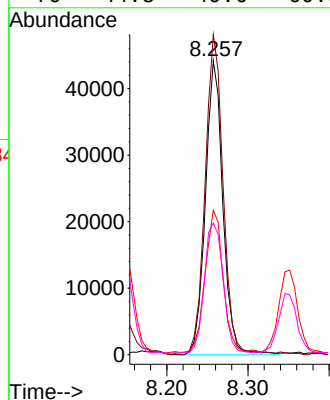
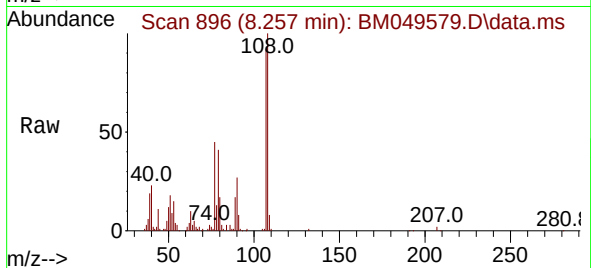




#17  
2-Methylphenol  
Concen: 8.826 ng  
RT: 8.257 min Scan# 896  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

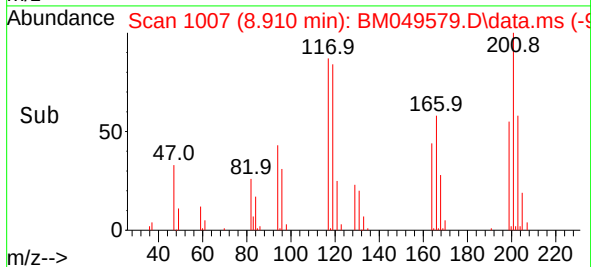
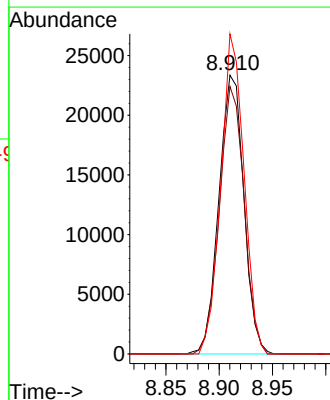
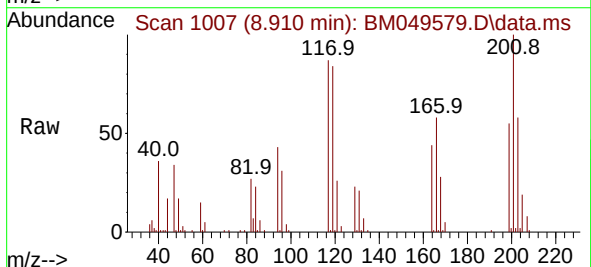
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

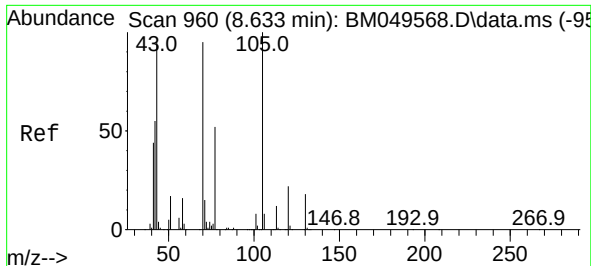
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 65991 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 108.9 | 92.2  | 138.4 |
| 77       | 49.2  | 41.3  | 61.9  |
| 79       | 44.8  | 40.6  | 60.8  |



#18  
Hexachloroethane  
Concen: 9.367 ng  
RT: 8.910 min Scan# 1007  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 38008 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 96.0  | 76.8  | 115.2 |
| 201      | 114.8 | 87.0  | 130.6 |

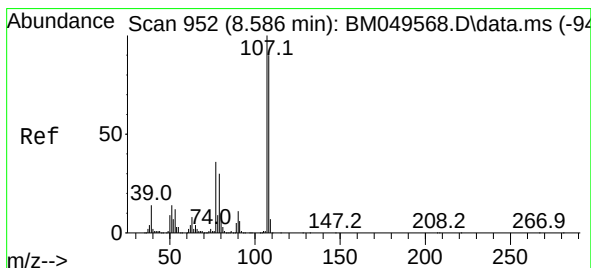
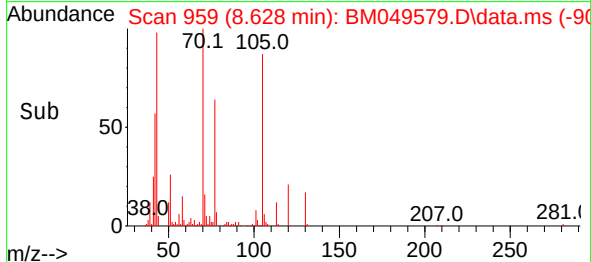
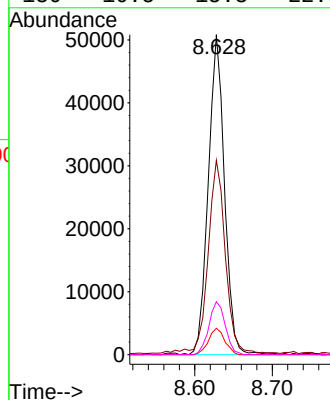
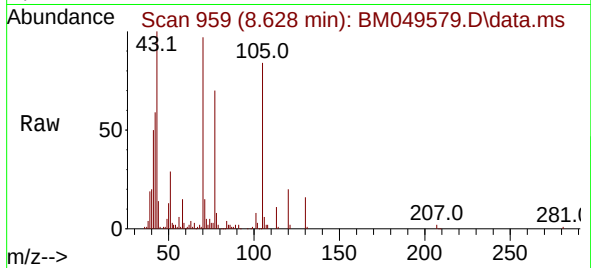




#19  
n-Nitroso-di-n-propylamine  
Concen: 9.084 ng  
RT: 8.628 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

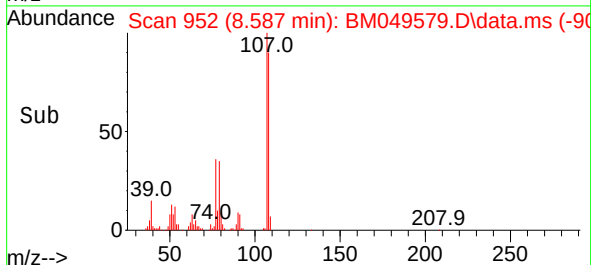
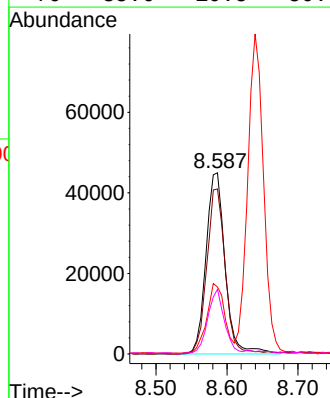
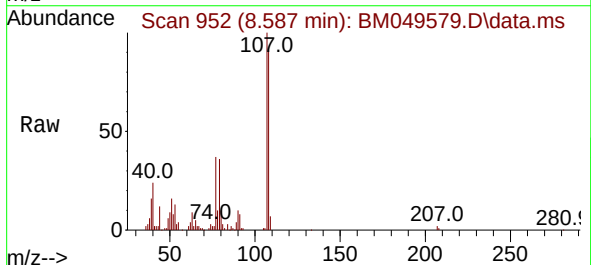
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

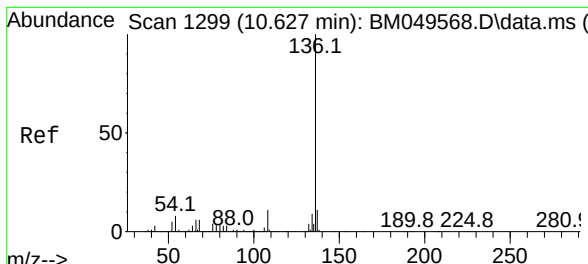
Tgt Ion: 70 Resp: 73846  
Ion Ratio Lower Upper  
70 100  
42 60.7 47.4 71.2  
101 8.3 7.1 10.7  
130 16.5 15.3 22.9



#20  
3+4-Methylphenols  
Concen: 8.530 ng  
RT: 8.587 min Scan# 952  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:107 Resp: 84193  
Ion Ratio Lower Upper  
107 100  
108 91.1 69.6 109.6  
77 37.1 16.0 56.0  
79 35.6 10.5 50.5

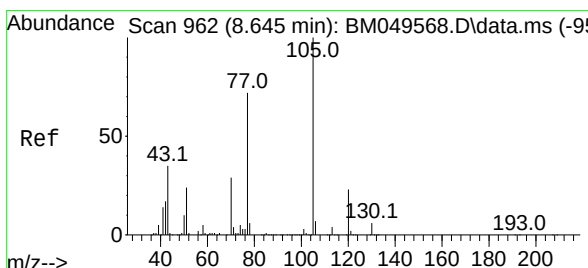
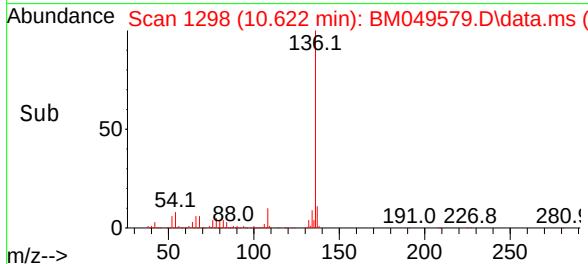
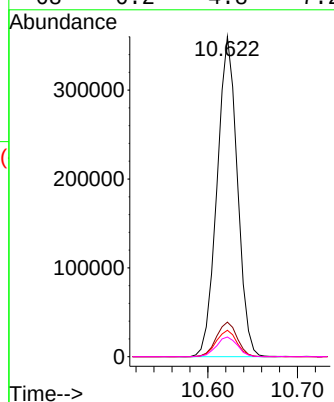
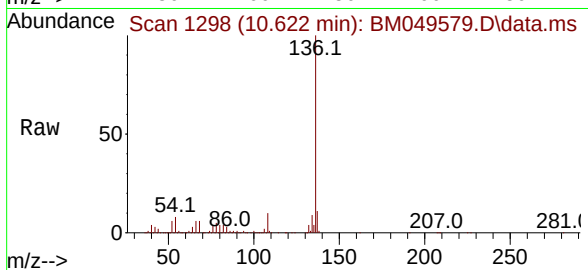




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.622 min Scan# 1299  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

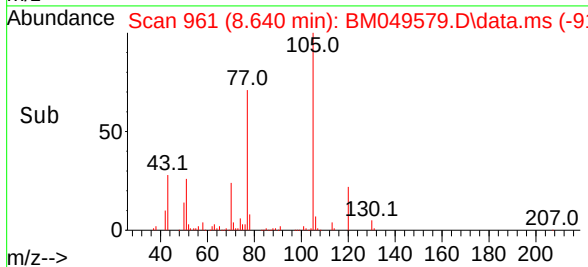
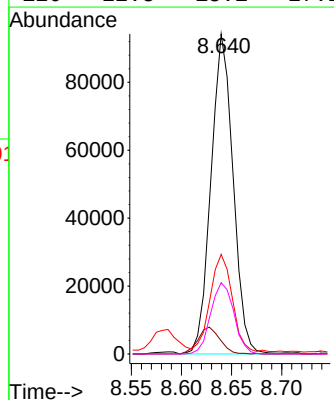
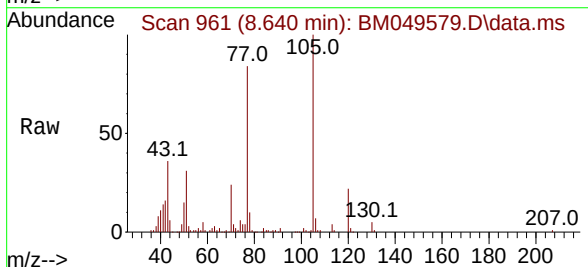
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

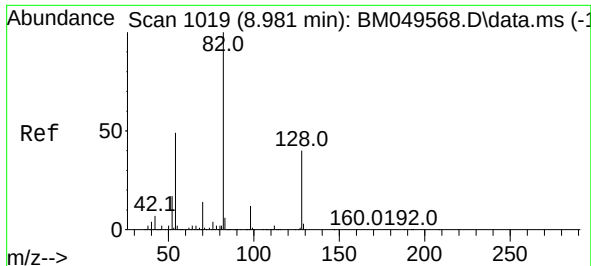
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 565641 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.6   | 13.0   |
| 54        | 8.3   | 6.6   | 10.0   |
| 68        | 6.2   | 4.8   | 7.2    |



#22  
Acetophenone  
Concen: 9.475 ng  
RT: 8.640 min Scan# 961  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 144356 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 71        | 4.1   | 3.5   | 5.3    |
| 51        | 31.1  | 21.7  | 32.5   |
| 120       | 22.3  | 18.1  | 27.1   |

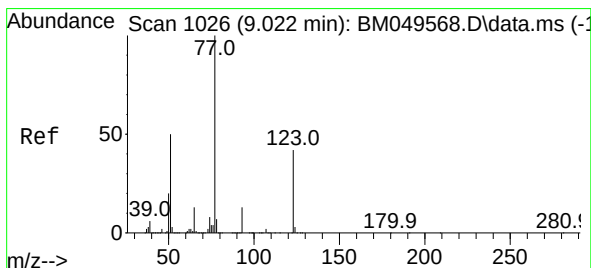
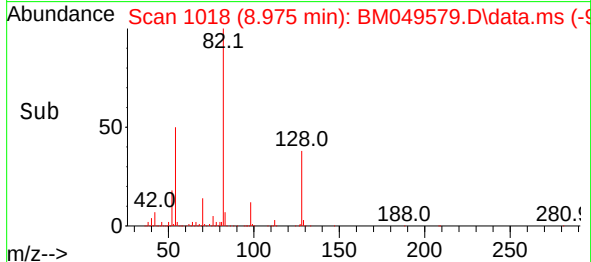
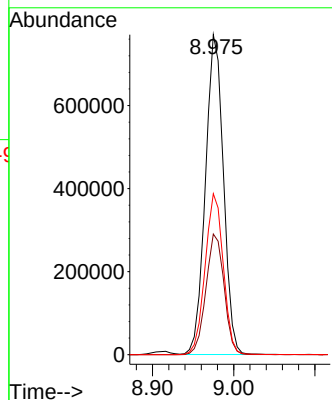
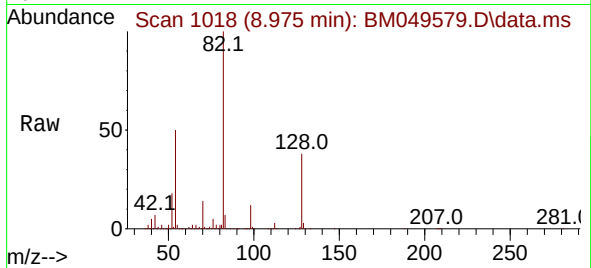




#23  
Nitrobenzene-d5  
Concen: 107.893 ng  
RT: 8.975 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

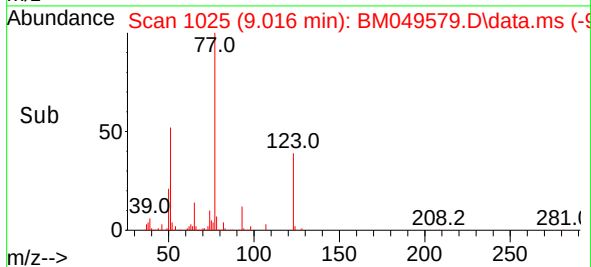
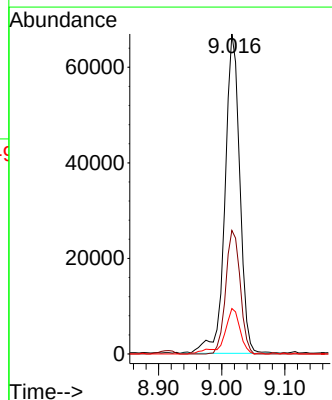
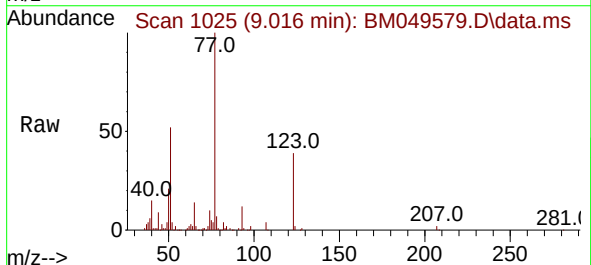
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

Tgt Ion: 82 Resp: 1186468  
Ion Ratio Lower Upper  
82 100  
128 37.7 31.6 47.4  
54 50.3 39.4 59.0

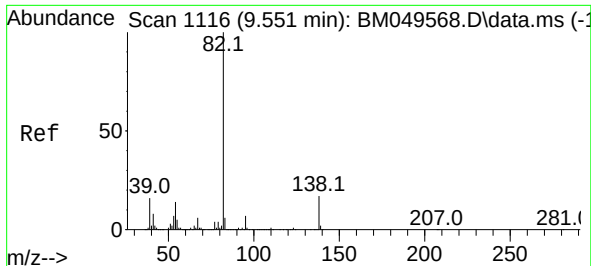


#24  
Nitrobenzene  
Concen: 10.214 ng  
RT: 9.016 min Scan# 1025  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion: 77 Resp: 109128  
Ion Ratio Lower Upper  
77 100  
123 38.6 33.4 50.2  
65 14.2 10.5 15.7



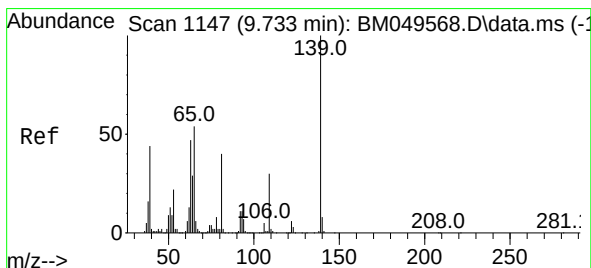
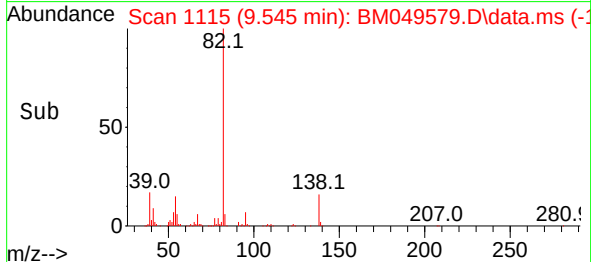
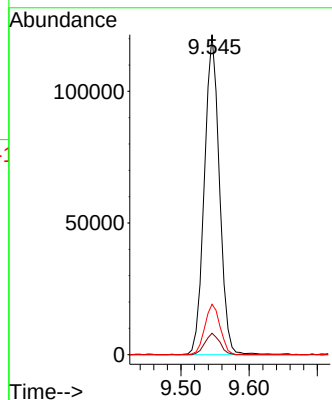
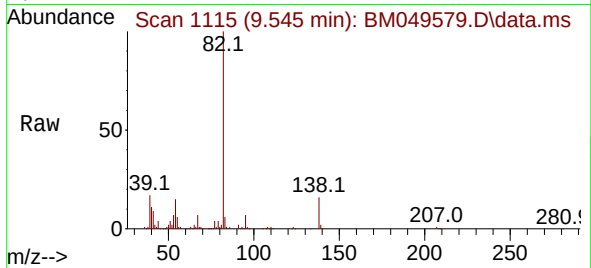




#25  
Isophorone  
Concen: 9.413 ng  
RT: 9.545 min Scan# 1115  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

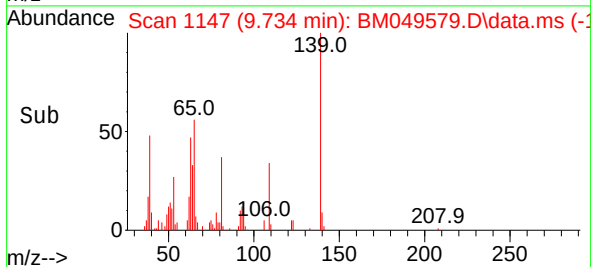
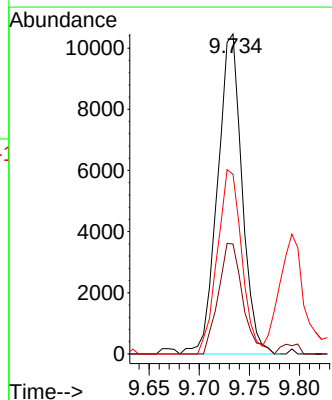
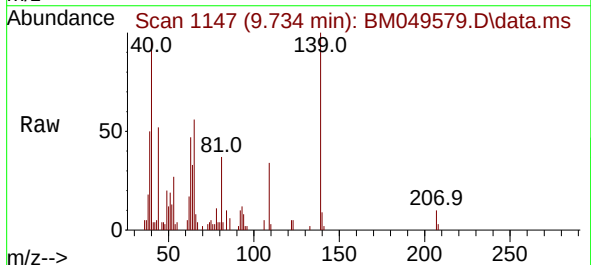
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

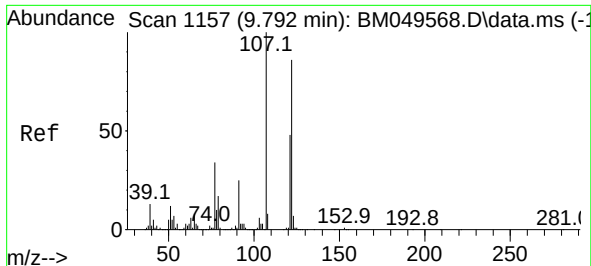
Tgt Ion: 82 Resp: 186689  
Ion Ratio Lower Upper  
82 100  
95 6.7 5.5 8.3  
138 15.8 13.6 20.4



#26  
2-Nitrophenol  
Concen: 7.617 ng  
RT: 9.734 min Scan# 1147  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:139 Resp: 17729  
Ion Ratio Lower Upper  
139 100  
109 34.3 24.2 36.2  
65 56.1 43.4 65.2

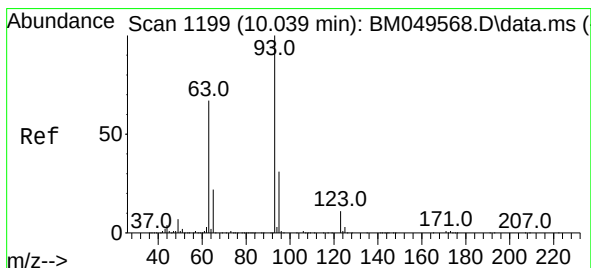
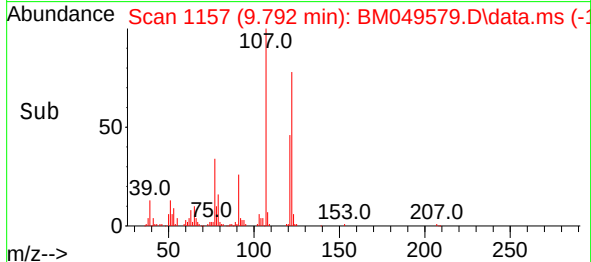
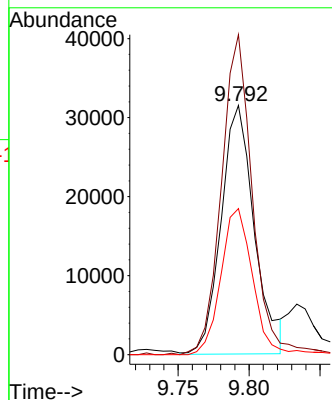
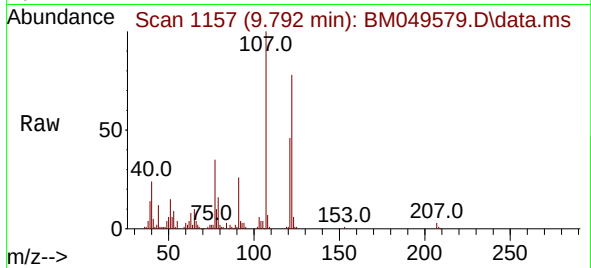




#27  
2,4-Dimethylphenol  
Concen: 8.177 ng  
RT: 9.792 min Scan# 1157  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

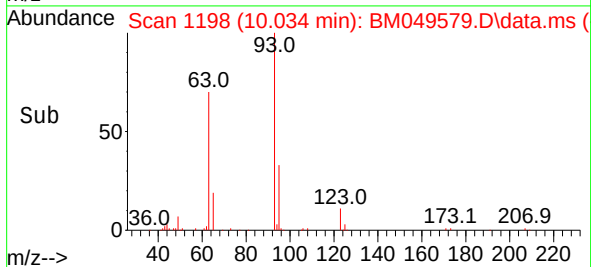
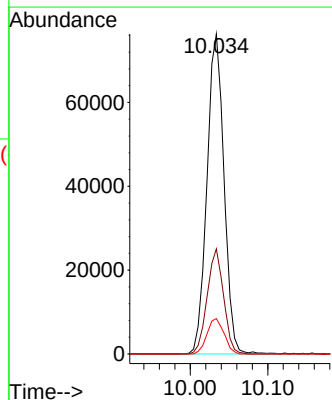
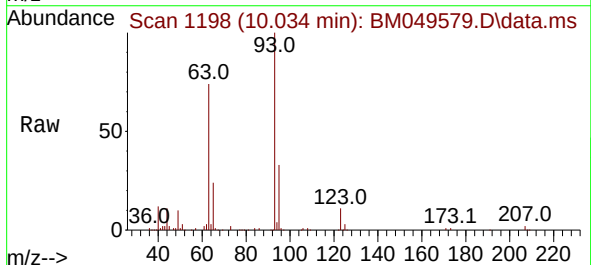
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

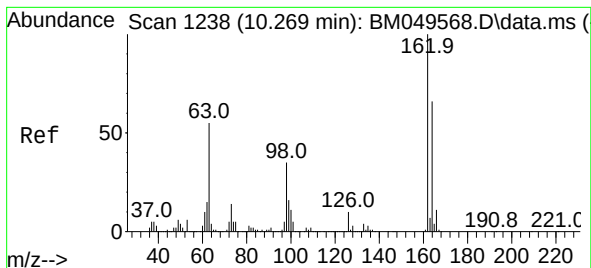
Tgt Ion:122 Resp: 51278  
Ion Ratio Lower Upper  
122 100  
107 128.4 93.2 139.8  
121 58.6 44.4 66.6



#28  
bis(2-Chloroethoxy)methane  
Concen: 9.121 ng  
RT: 10.034 min Scan# 1198  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion: 93 Resp: 116507  
Ion Ratio Lower Upper  
93 100  
95 32.9 25.2 37.8  
123 11.0 8.6 12.8





#29

2,4-Dichlorophenol

Concen: 7.390 ng

RT: 10.263 min Scan# 1237

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

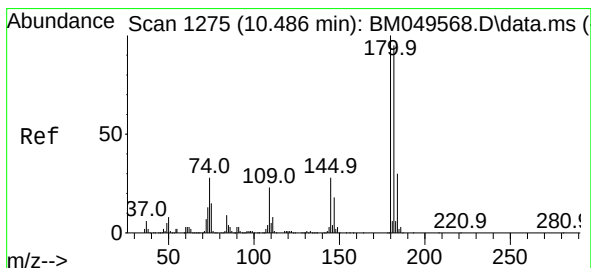
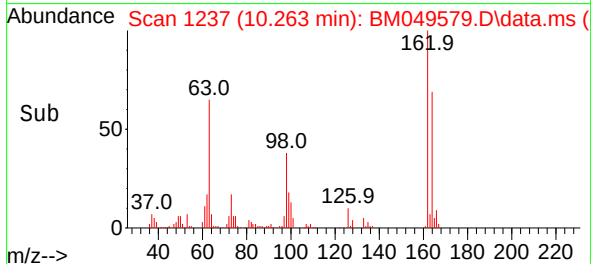
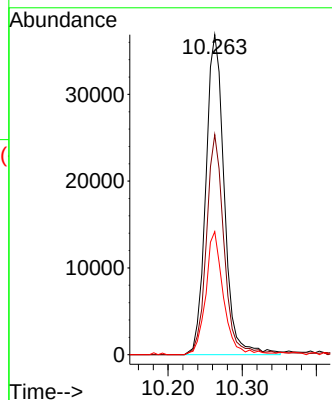
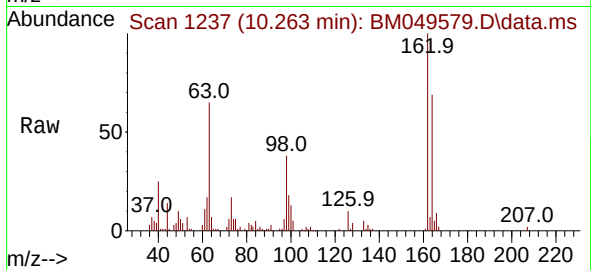
Tgt Ion:162 Resp: 63819

Ion Ratio Lower Upper

162 100

164 68.7 46.0 86.0

98 38.4 14.7 54.7



#30

1,2,4-Trichlorobenzene

Concen: 9.318 ng

RT: 10.487 min Scan# 1275

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

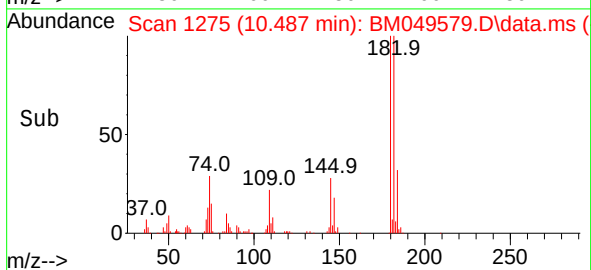
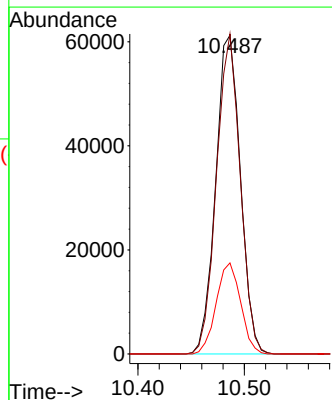
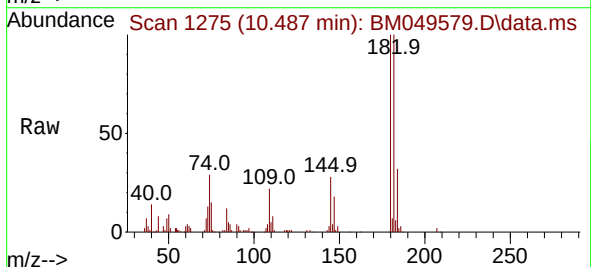
Tgt Ion:180 Resp: 98591

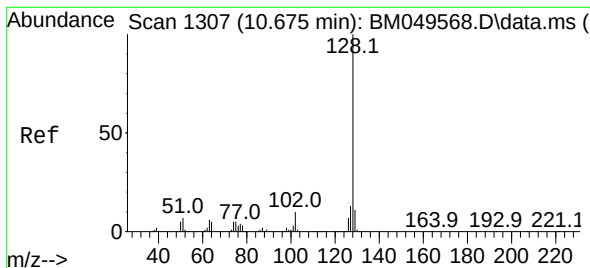
Ion Ratio Lower Upper

180 100

182 100.4 76.4 114.6

145 28.6 22.5 33.7





#31

Naphthalene

Concen: 8.987 ng

RT: 10.675 min Scan# 1164

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

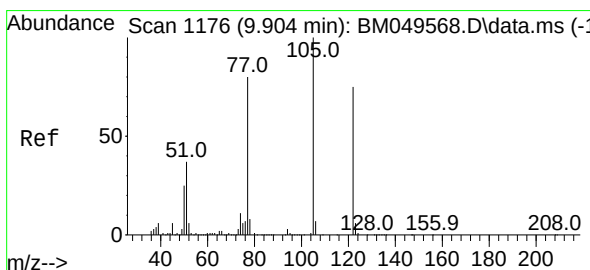
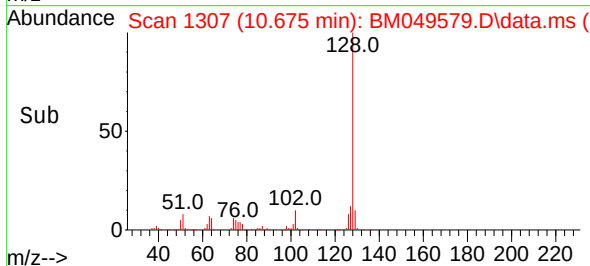
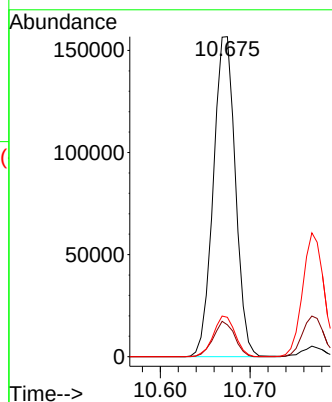
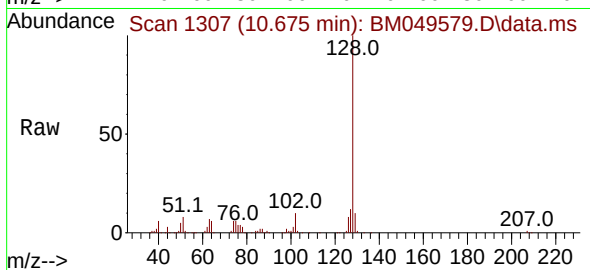
Tgt Ion:128 Resp: 268110

Ion Ratio Lower Upper

128 100

129 9.9 9.0 13.4

127 12.3 10.6 15.8



#32

Benzoic acid

Concen: 8.346 ng

RT: 9.834 min Scan# 1164

Delta R.T. -0.070 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

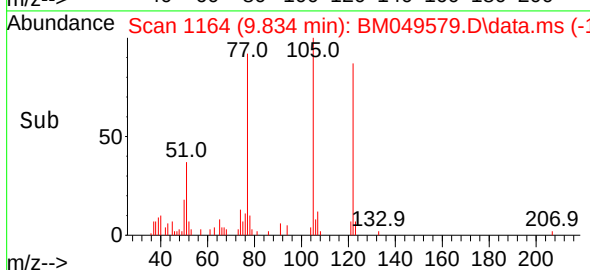
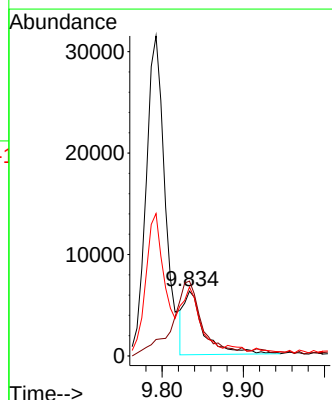
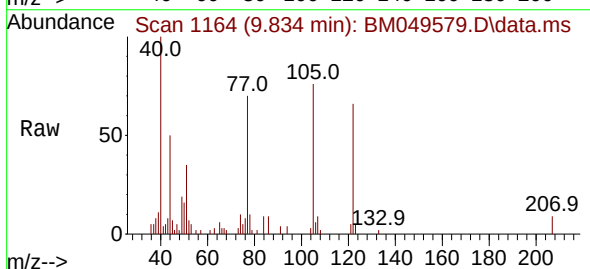
Tgt Ion:122 Resp: 10603

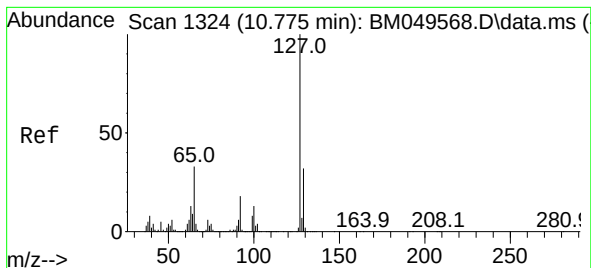
Ion Ratio Lower Upper

122 100

105 115.5 103.6 143.6

77 106.2 82.4 122.4





#33

4-Chloroaniline

Concen: 9.117 ng

RT: 10.769 min Scan# 1323

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

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Tgt Ion:127 Resp: 101800

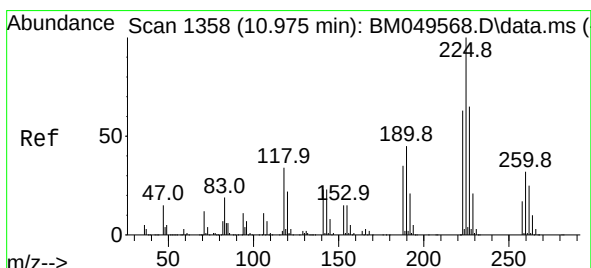
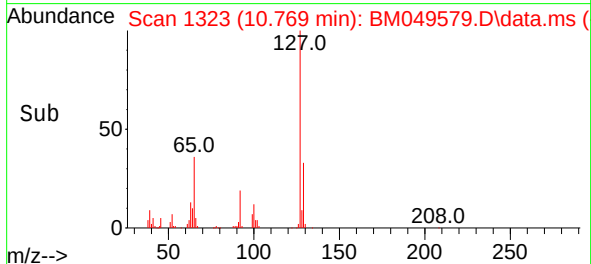
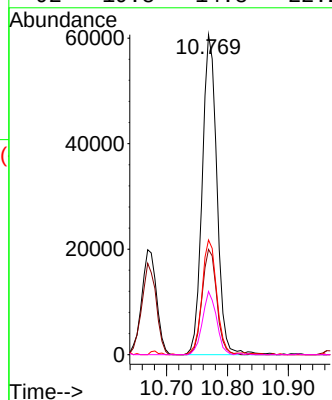
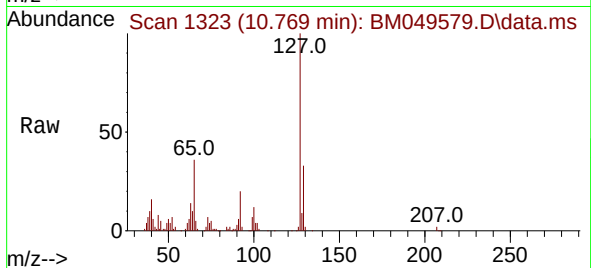
Ion Ratio Lower Upper

127 100

129 32.9 25.8 38.8

65 35.8 26.4 39.6

92 19.8 14.8 22.2



#34

Hexachlorobutadiene

Concen: 9.077 ng

RT: 10.969 min Scan# 1357

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

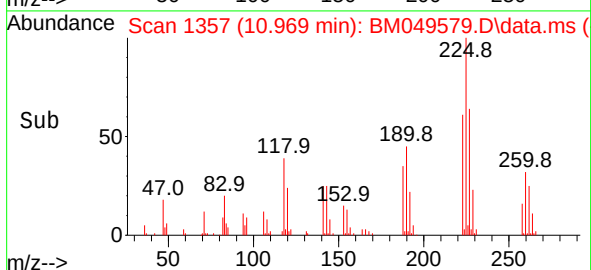
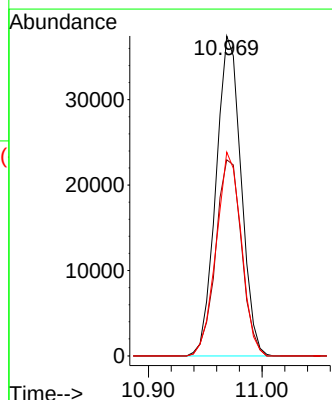
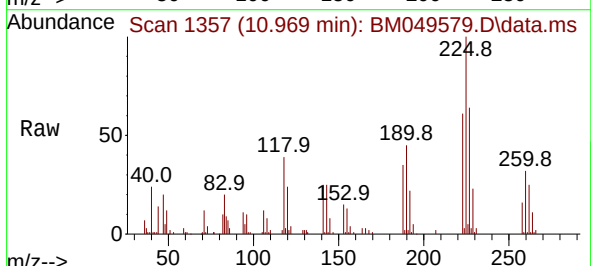
Tgt Ion:225 Resp: 57509

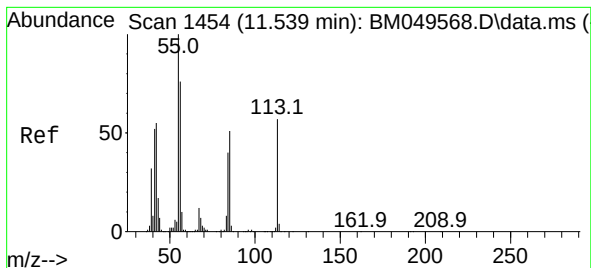
Ion Ratio Lower Upper

225 100

223 61.3 50.6 75.8

227 63.7 51.8 77.6





#35

Caprolactam

Concen: 7.019 ng

RT: 11.510 min Scan# 1449

Delta R.T. -0.029 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

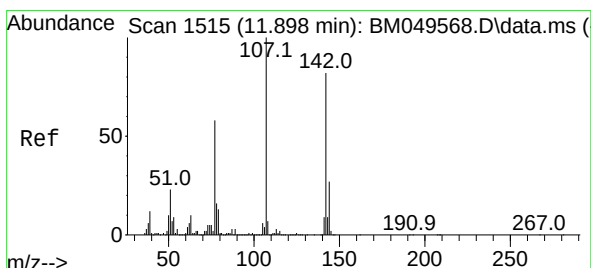
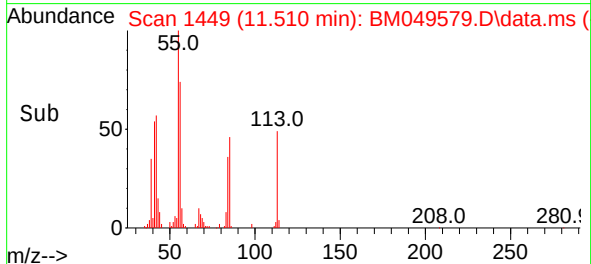
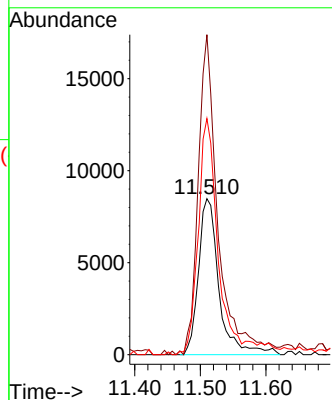
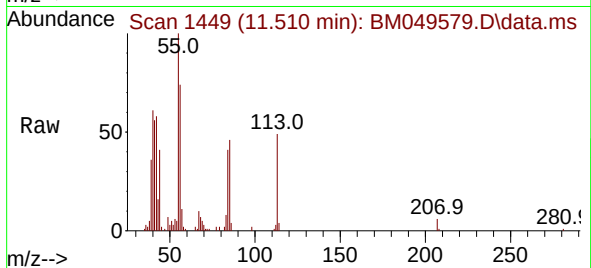
Tgt Ion:113 Resp: 18491

Ion Ratio Lower Upper

113 100

55 205.1 157.5 197.5#

56 151.4 114.6 154.6



#36

4-Chloro-3-methylphenol

Concen: 7.142 ng

RT: 11.892 min Scan# 1514

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

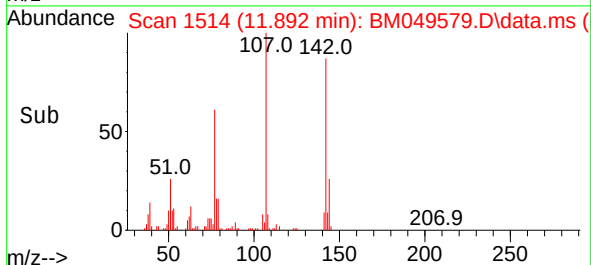
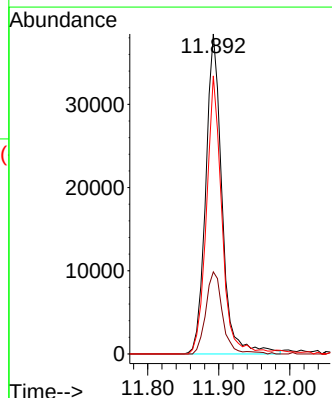
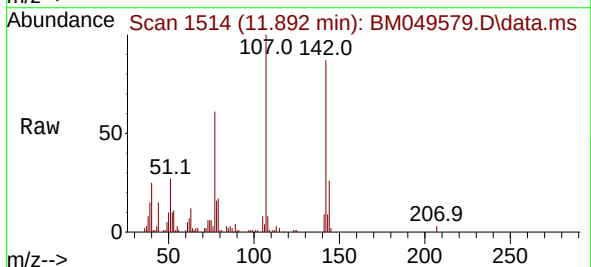
Tgt Ion:107 Resp: 61509

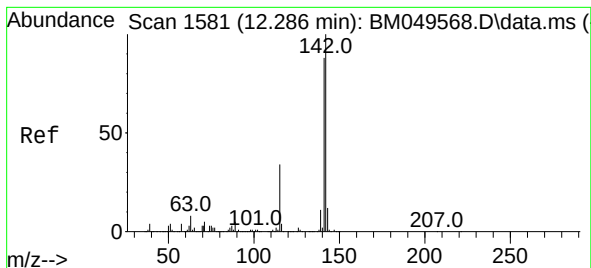
Ion Ratio Lower Upper

107 100

144 25.6 21.2 31.8

142 86.9 65.4 98.2





#37

2-Methylnaphthalene

Concen: 8.667 ng

RT: 12.286 min Scan# 1581

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

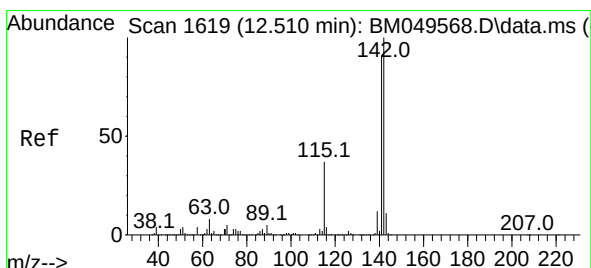
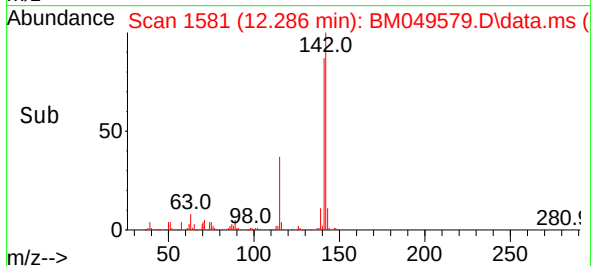
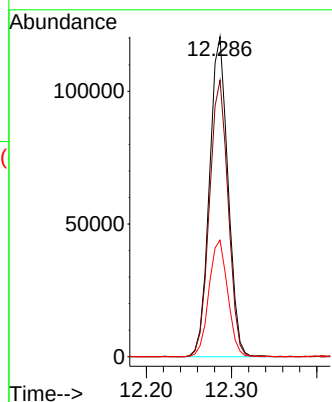
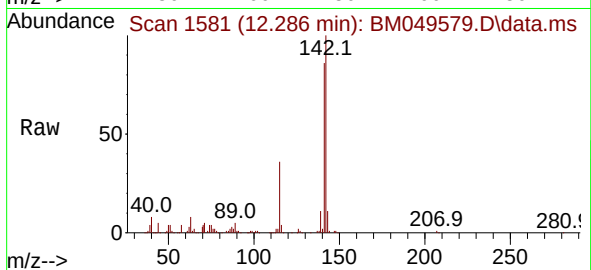
Tgt Ion:142 Resp: 182035

Ion Ratio Lower Upper

142 100

141 86.4 70.2 105.4

115 36.4 27.5 41.3



#38

1-Methylnaphthalene

Concen: 8.203 ng

RT: 12.504 min Scan# 1618

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

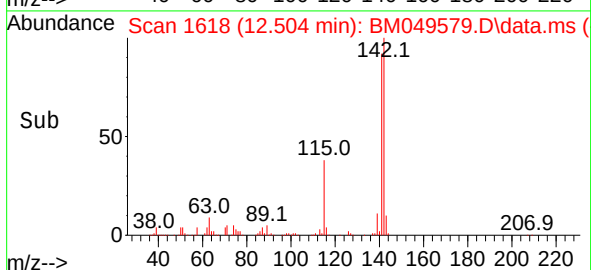
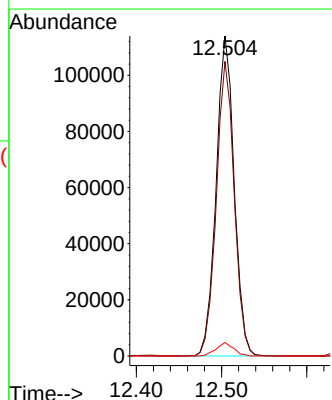
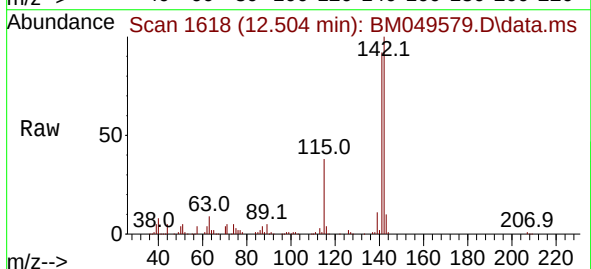
Tgt Ion:142 Resp: 167629

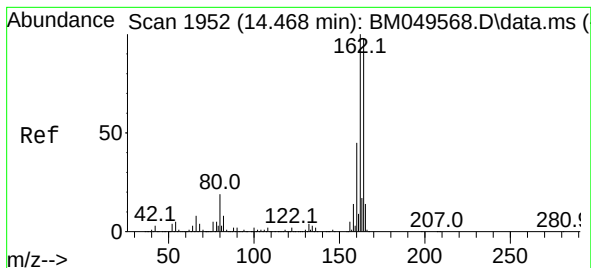
Ion Ratio Lower Upper

142 100

141 92.1 73.1 109.7

116 4.2 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.463 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

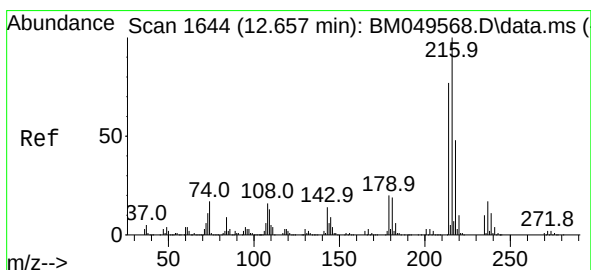
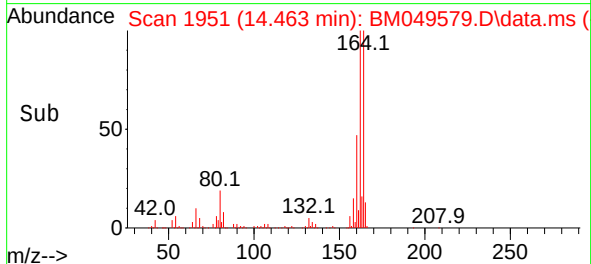
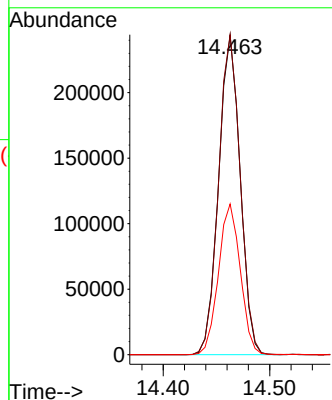
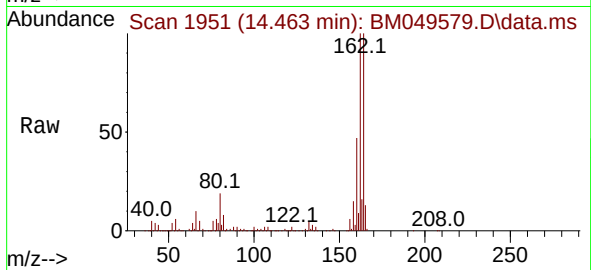
Tgt Ion:164 Resp: 342536

Ion Ratio Lower Upper

164 100

162 100.2 81.4 122.0

160 47.2 36.2 54.4



#40

1,2,4,5-Tetrachlorobenzene

Concen: 9.284 ng

RT: 12.651 min Scan# 1643

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Tgt Ion:216 Resp: 104553

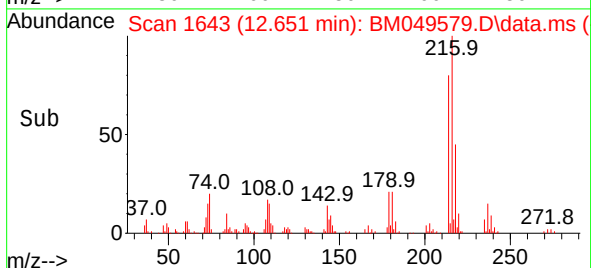
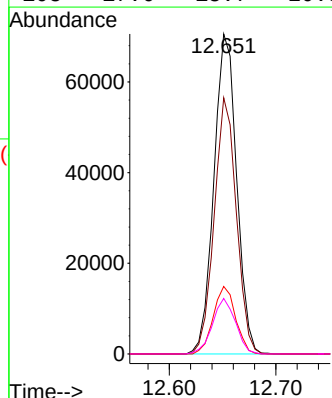
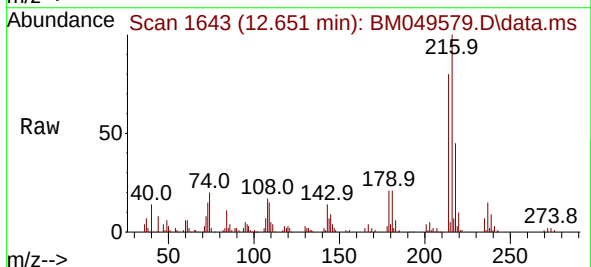
Ion Ratio Lower Upper

216 100

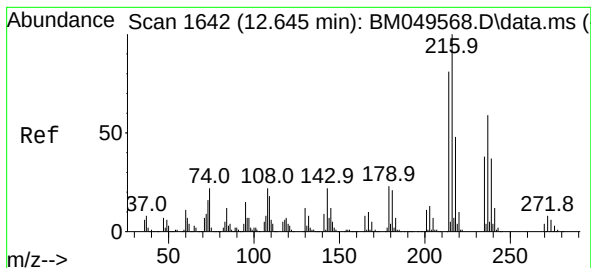
214 77.8 62.4 93.6

179 20.6 16.3 24.5

108 17.6 13.7 20.5



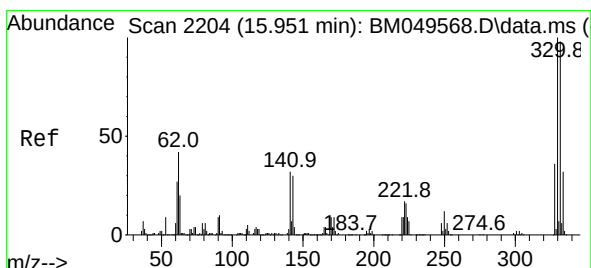
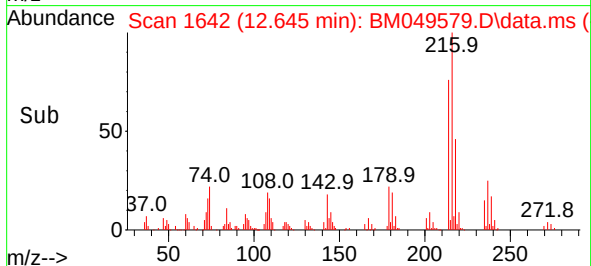
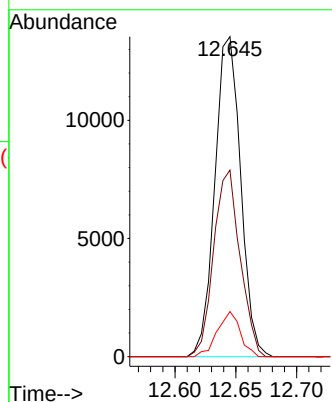
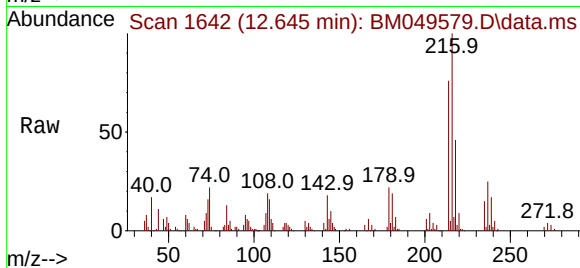




#41  
Hexachlorocyclopentadiene  
Concen: 6.952 ng  
RT: 12.645 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

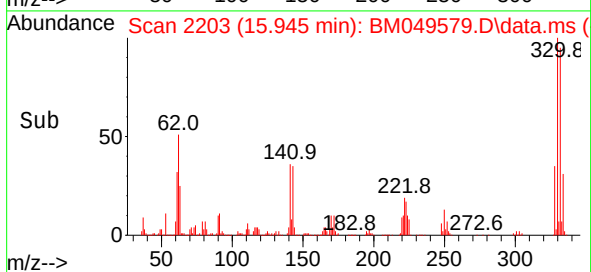
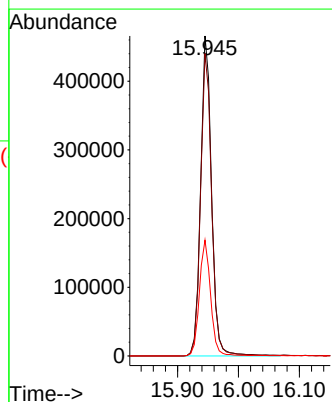
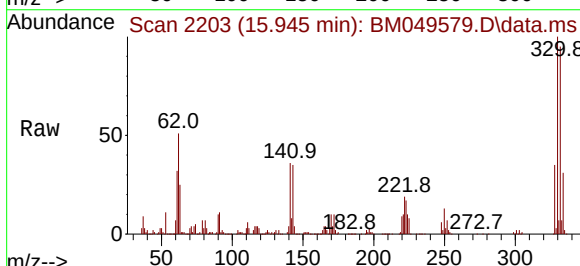
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

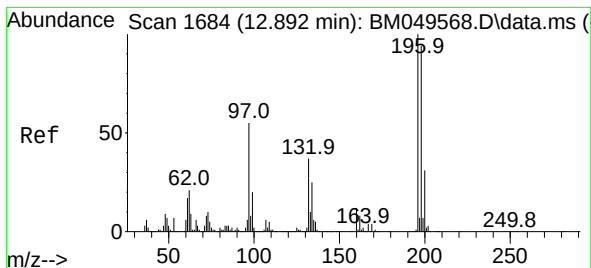
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 237   | Resp: | 19987 |
| Ion      | Ratio | Lower | Upper |
| 237      | 100   |       |       |
| 235      | 58.3  | 43.8  | 83.8  |
| 272      | 14.1  | 0.0   | 33.5  |



#42  
2,4,6-Tribromophenol  
Concen: 142.628 ng  
RT: 15.945 min Scan# 2203  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 330   | Resp: | 578896 |
| Ion      | Ratio | Lower | Upper  |
| 330      | 100   |       |        |
| 332      | 95.6  | 77.3  | 115.9  |
| 141      | 37.2  | 28.2  | 42.2   |





#43

2,4,6-Trichlorophenol

Concen: 6.688 ng

RT: 12.892 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

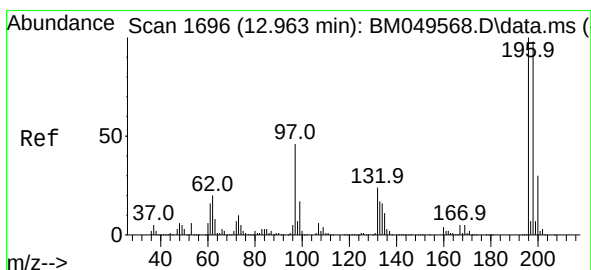
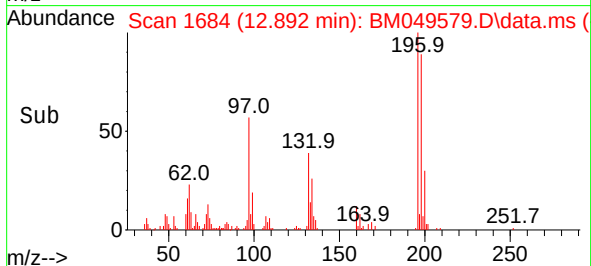
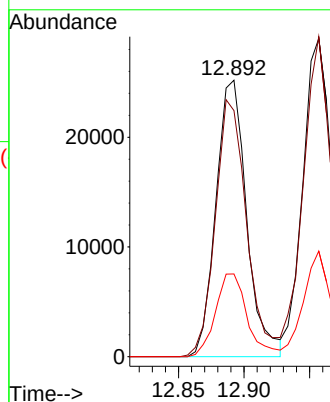
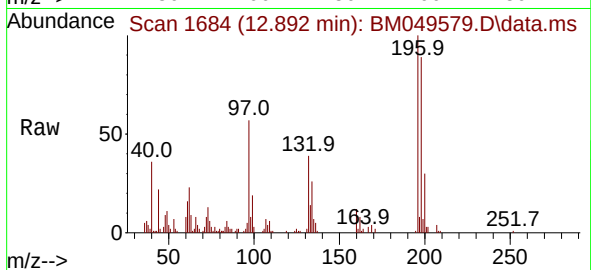
Tgt Ion:196 Resp: 41103

Ion Ratio Lower Upper

196 100

198 89.0 75.4 113.0

200 29.9 25.1 37.7



#44

2,4,5-Trichlorophenol

Concen: 7.102 ng

RT: 12.957 min Scan# 1695

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Tgt Ion:196 Resp: 47965

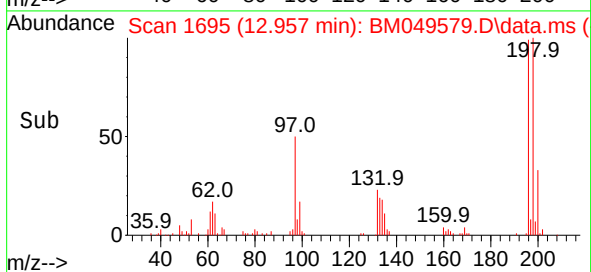
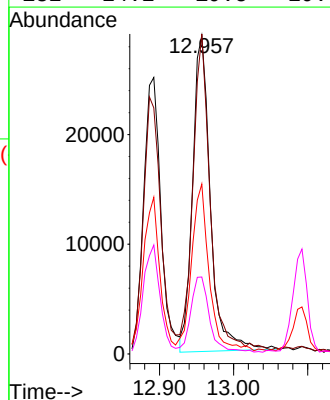
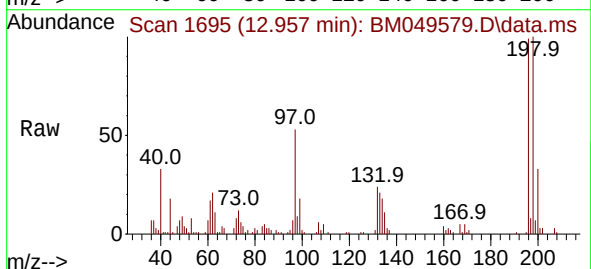
Ion Ratio Lower Upper

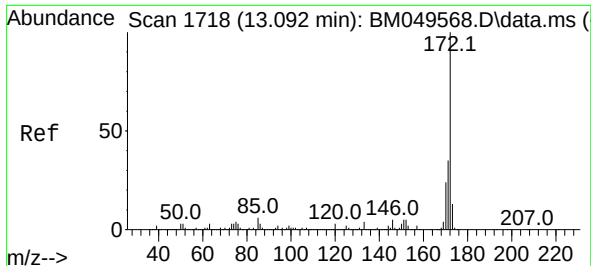
196 100

198 100.6 78.4 117.6

97 53.4 37.4 56.0

132 24.2 19.5 29.3

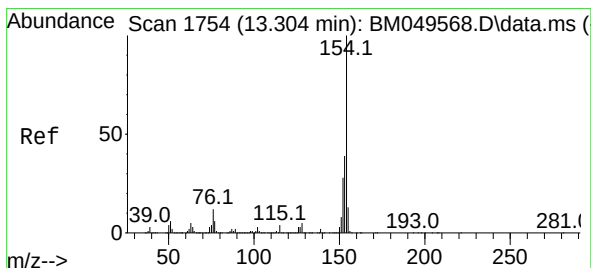
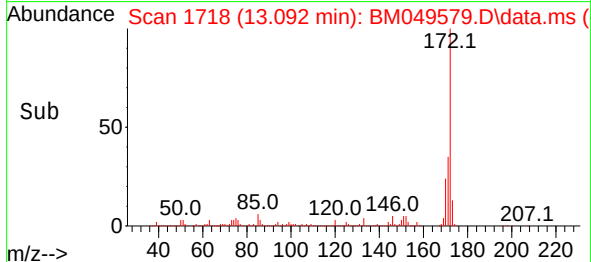
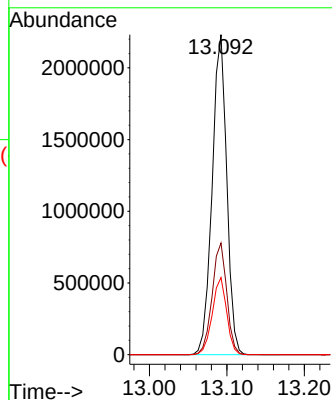
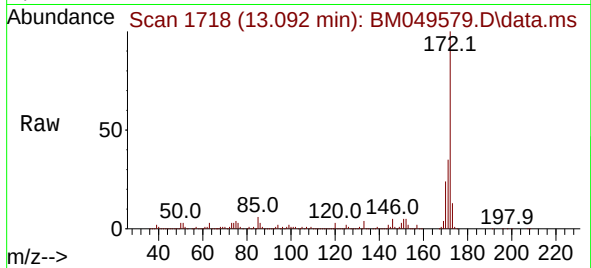




#45  
2-Fluorobiphenyl  
Concen: 110.209 ng  
RT: 13.092 min Scan# 1718  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

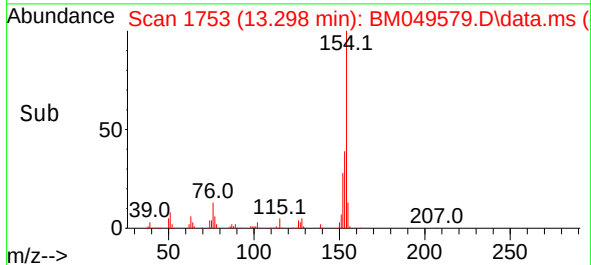
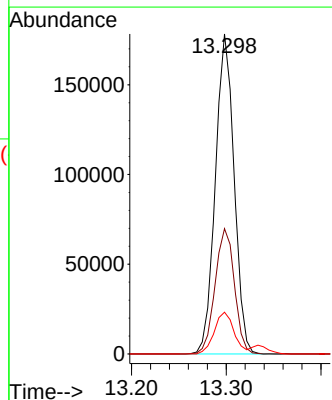
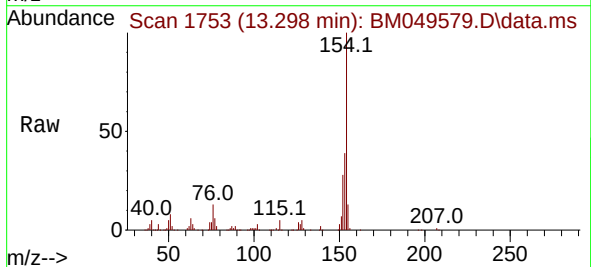
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

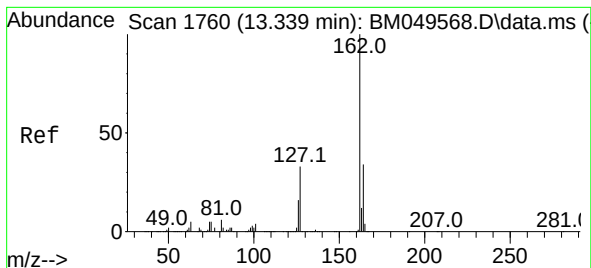
Tgt Ion:172 Resp: 2914074  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.0 42.0  
170 24.1 19.0 28.4



#46  
1,1'-Biphenyl  
Concen: 9.390 ng  
RT: 13.298 min Scan# 1753  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:154 Resp: 245365  
Ion Ratio Lower Upper  
154 100  
153 39.1 19.5 59.5  
76 13.0 0.0 32.1





#47

2-Chloronaphthalene

Concen: 9.390 ng

RT: 13.339 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

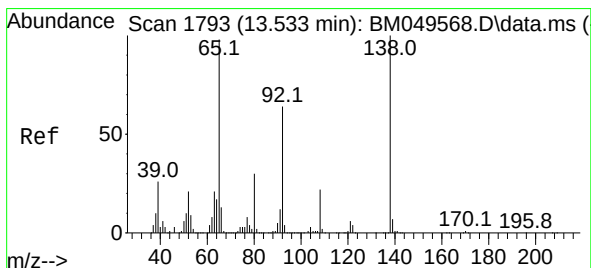
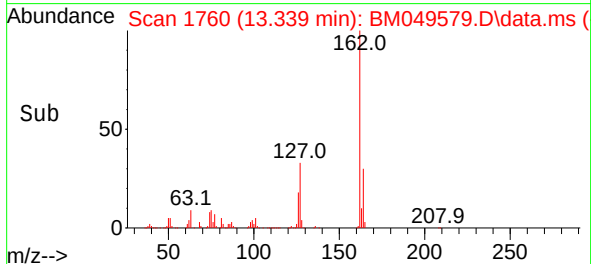
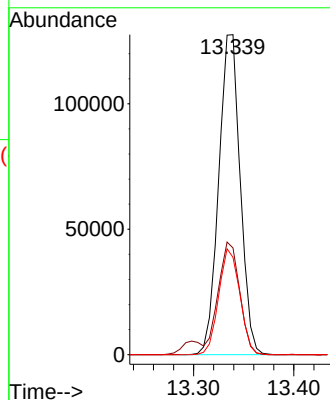
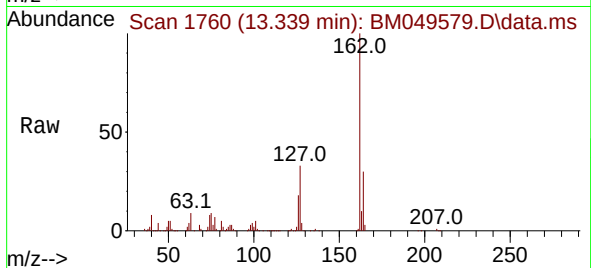
Tgt Ion:162 Resp: 189833

Ion Ratio Lower Upper

162 100

127 33.4 27.9 41.9

164 30.4 26.8 40.2



#48

2-Nitroaniline

Concen: 7.571 ng

RT: 13.528 min Scan# 1792

Delta R.T. -0.005 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

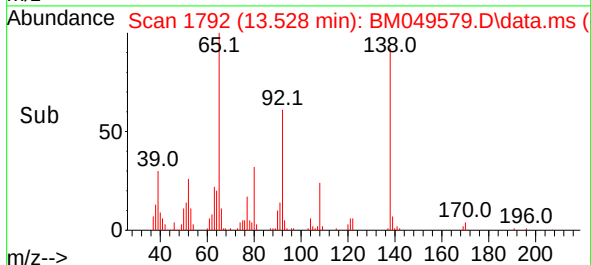
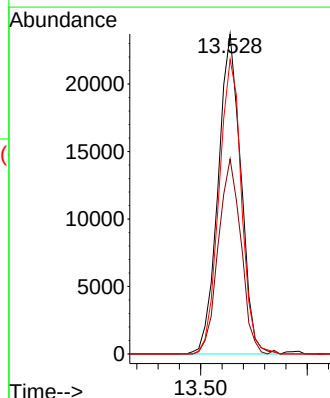
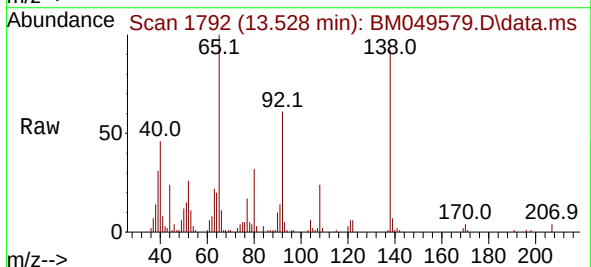
Tgt Ion: 65 Resp: 35123

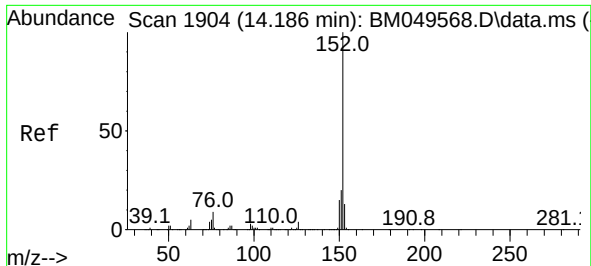
Ion Ratio Lower Upper

65 100

92 60.9 52.0 78.0

138 92.0 81.6 122.4





#49

Acenaphthylene

Concen: 9.644 ng

RT: 14.180 min Scan# 1904

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

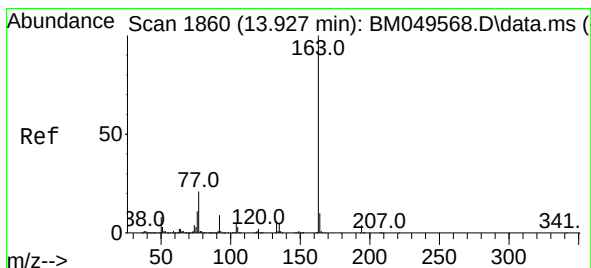
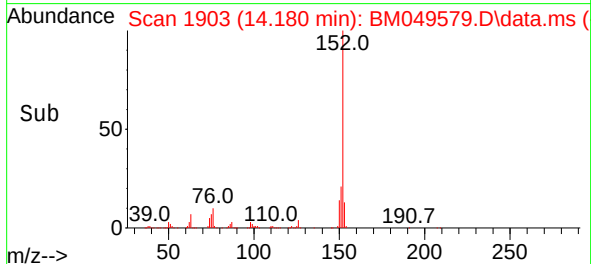
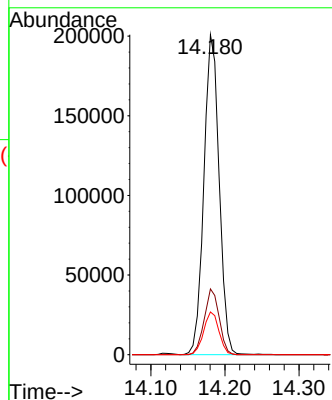
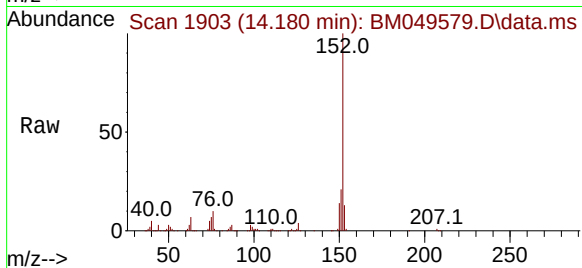
Tgt Ion:152 Resp: 287494

Ion Ratio Lower Upper

152 100

151 20.5 16.2 24.4

153 13.4 10.6 16.0



#50

Dimethylphthalate

Concen: 8.521 ng

RT: 13.922 min Scan# 1859

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

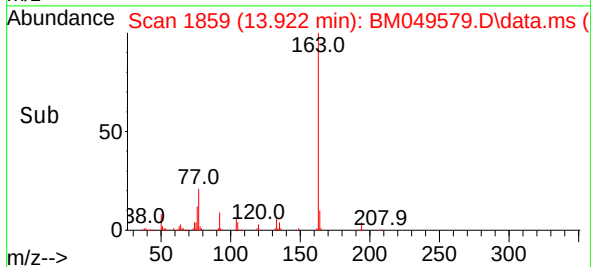
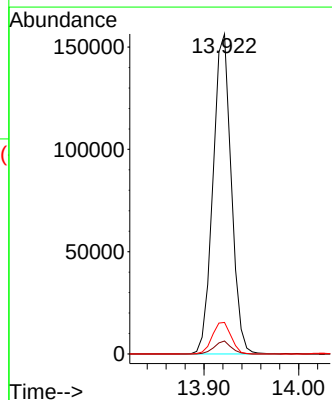
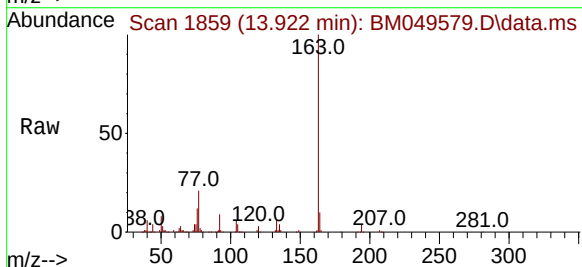
Tgt Ion:163 Resp: 209607

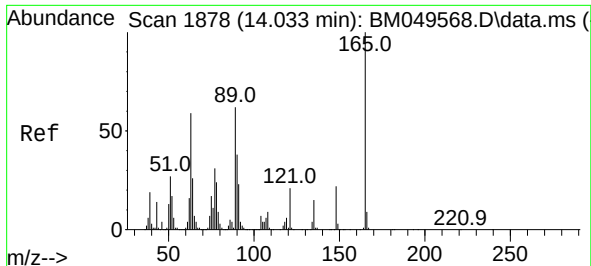
Ion Ratio Lower Upper

163 100

194 4.1 3.3 4.9

164 9.8 8.1 12.1





#51

2,6-Dinitrotoluene

Concen: 7.640 ng

RT: 14.027 min Scan# 1877

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

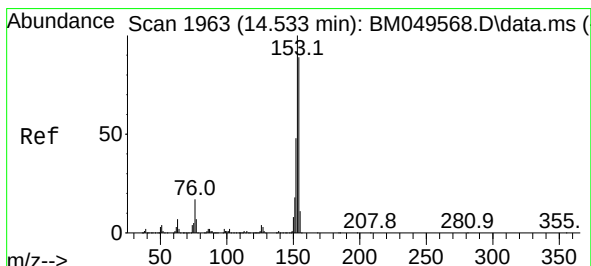
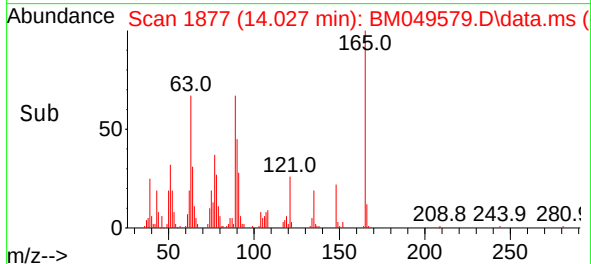
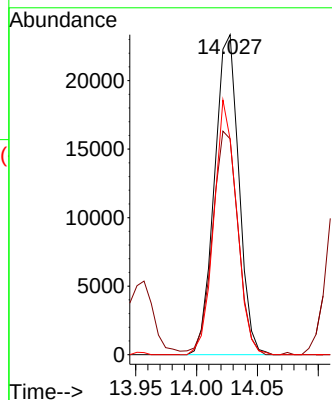
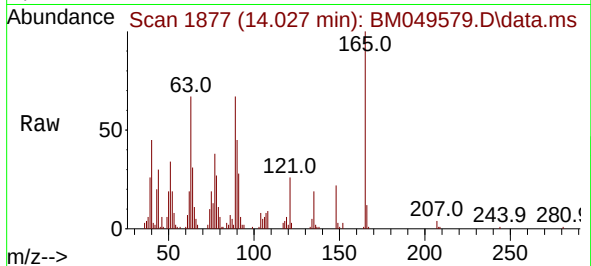
Tgt Ion:165 Resp: 32522

Ion Ratio Lower Upper

165 100

63 67.5 47.8 71.6

89 67.3 49.2 73.8



#52

Acenaphthene

Concen: 8.341 ng

RT: 14.527 min Scan# 1962

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

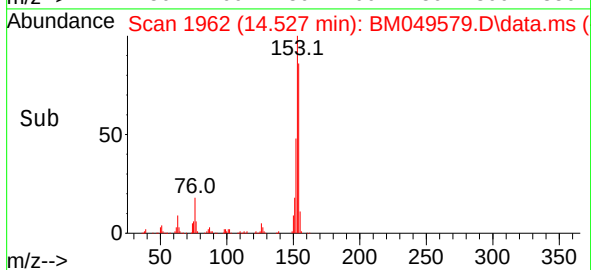
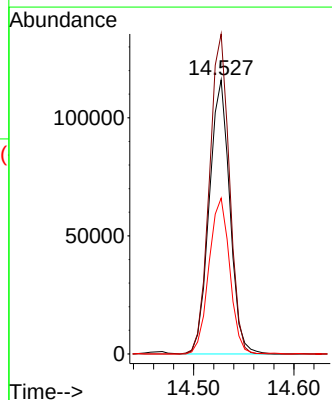
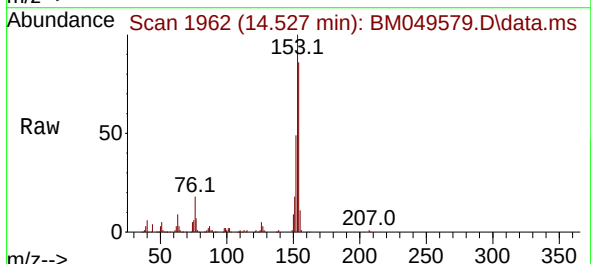
Tgt Ion:154 Resp: 165041

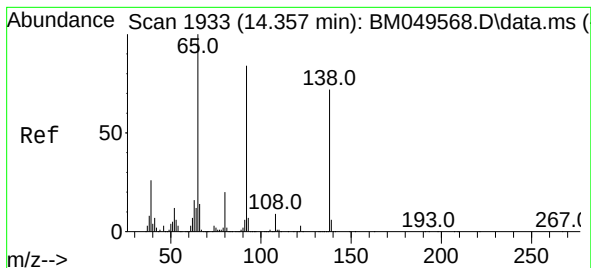
Ion Ratio Lower Upper

154 100

153 116.8 90.0 135.0

152 56.9 43.0 64.4

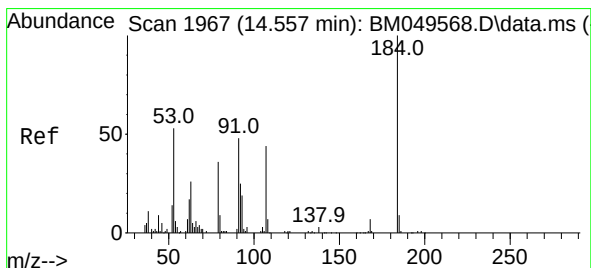
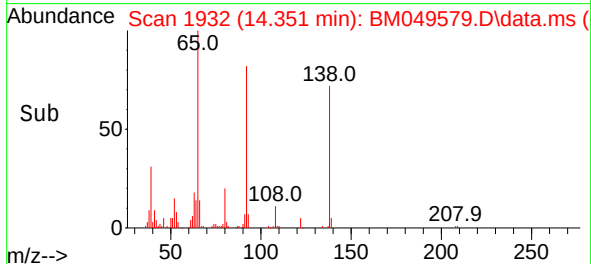
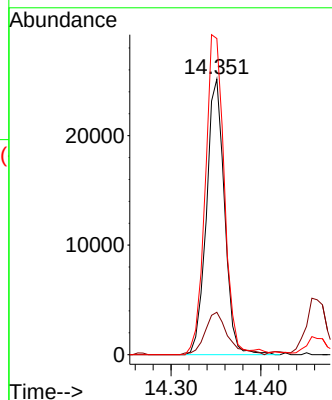
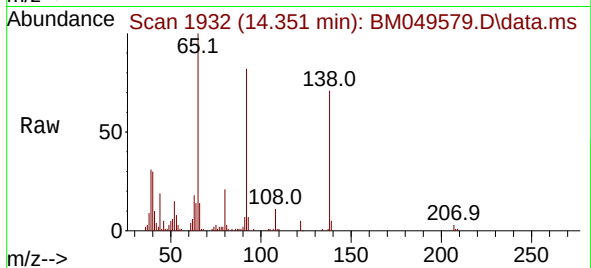




#53  
3-Nitroaniline  
Concen: 8.124 ng  
RT: 14.351 min Scan# 1932  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

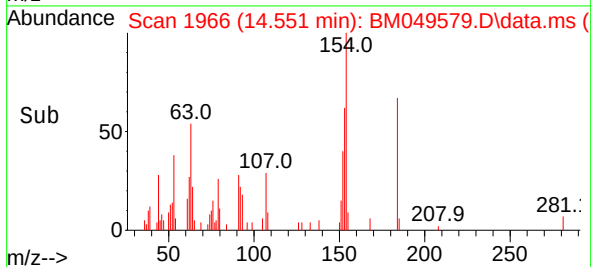
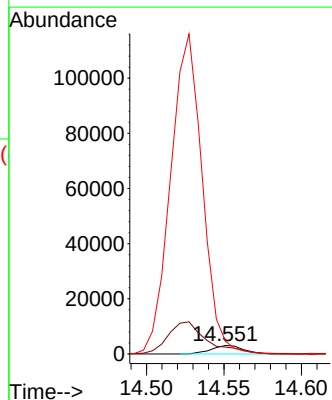
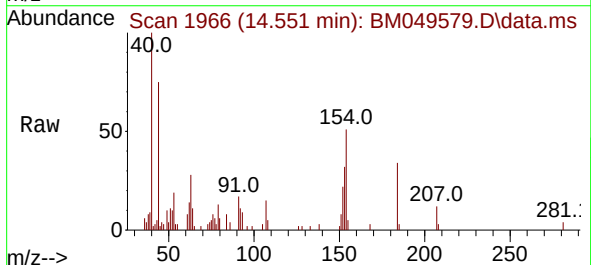
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

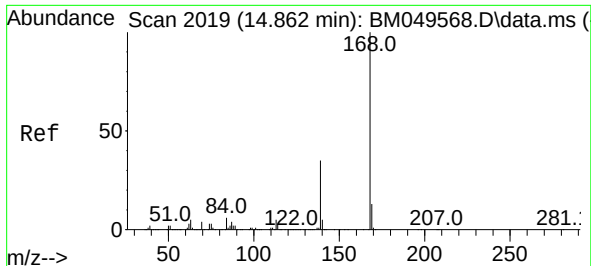
Tgt Ion:138 Resp: 35209  
Ion Ratio Lower Upper  
138 100  
108 15.4 10.3 15.5  
92 114.8 93.6 140.4



#54  
2,4-Dinitrophenol  
Concen: 8.896 ng  
RT: 14.551 min Scan# 1966  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:184 Resp: 4402  
Ion Ratio Lower Upper  
184 100  
63 80.9 60.2 90.4  
154 148.8 78.2 117.4#





#55

Dibenzenofuran

Concen: 8.924 ng

RT: 14.863 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

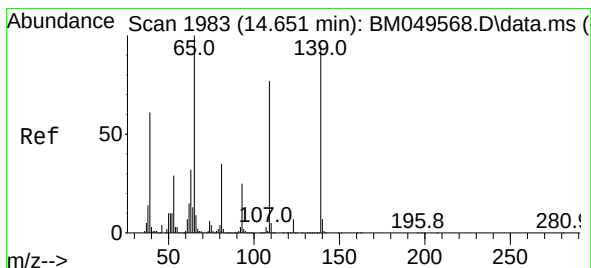
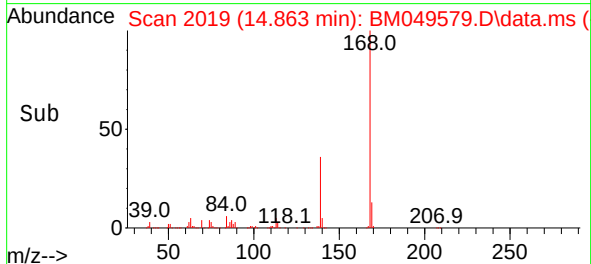
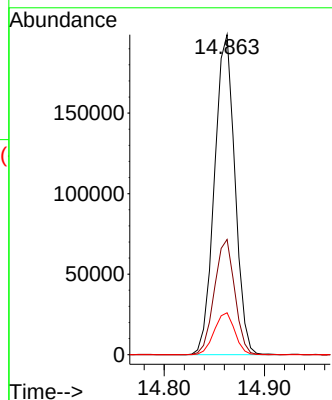
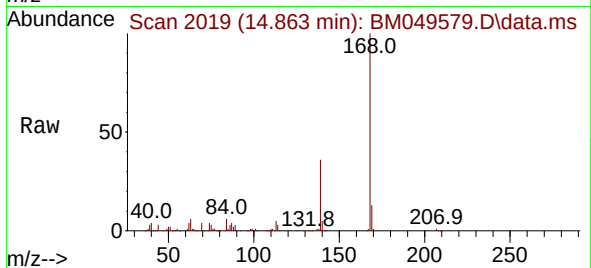
Tgt Ion:168 Resp: 281170

Ion Ratio Lower Upper

168 100

139 36.0 28.4 42.6

169 13.1 10.8 16.2



#56

4-Nitrophenol

Concen: 5.130 ng

RT: 14.645 min Scan# 1982

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

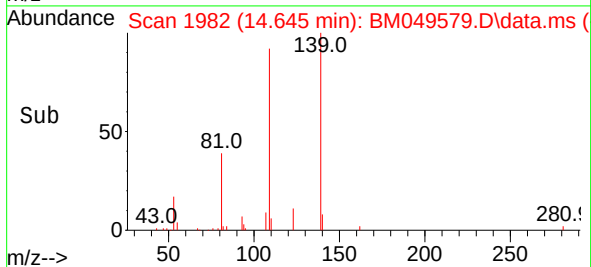
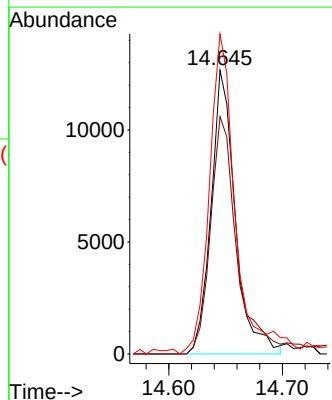
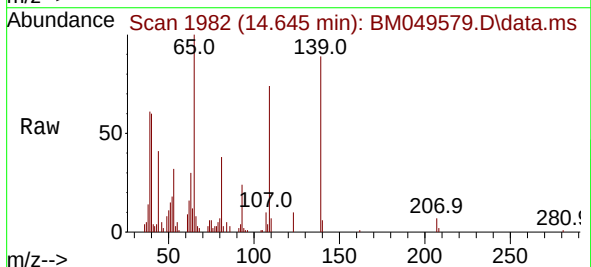
Tgt Ion:139 Resp: 18743

Ion Ratio Lower Upper

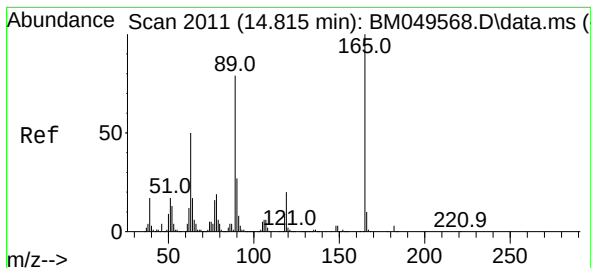
139 100

109 83.7 61.4 101.4

65 112.9 85.6 125.6







#57

2,4-Dinitrotoluene

Concen: 9.294 ng

RT: 14.810 min Scan# 2010

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

Tgt Ion:165 Resp: 35552

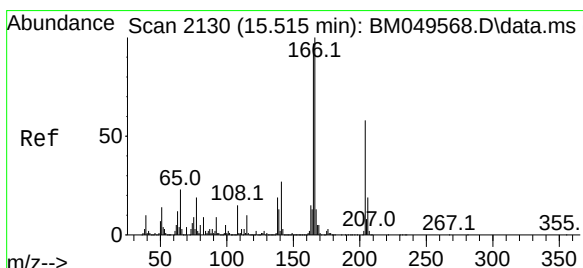
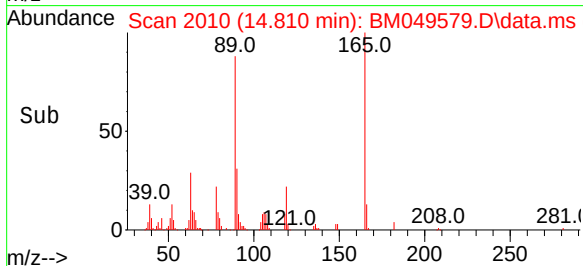
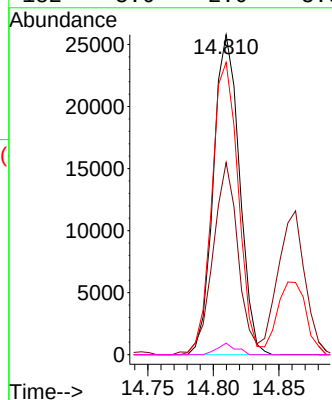
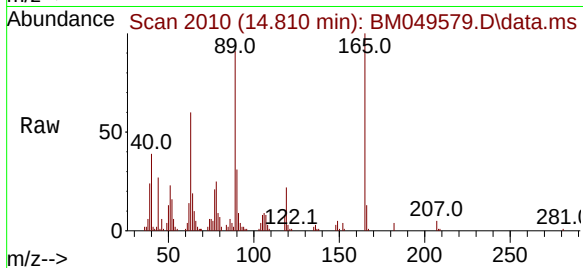
Ion Ratio Lower Upper

165 100

63 60.1 39.8 59.6#

89 91.3 63.5 95.3

182 3.6 2.0 3.0#



#58

Fluorene

Concen: 8.242 ng

RT: 15.510 min Scan# 2129

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

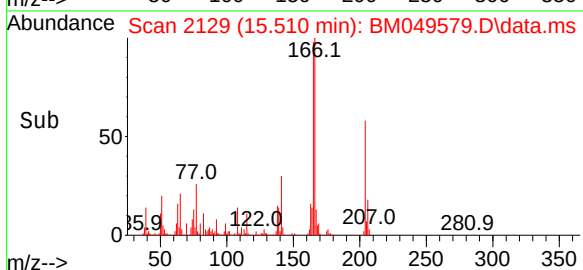
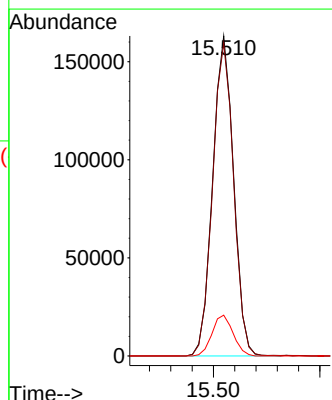
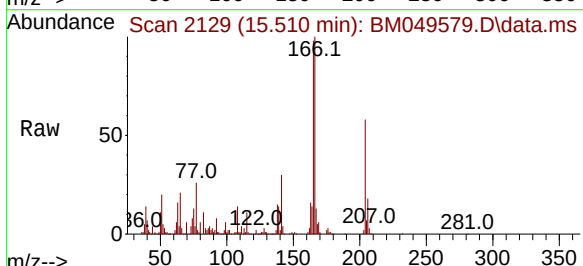
Tgt Ion:166 Resp: 222149

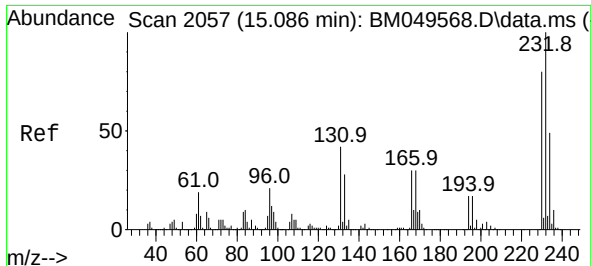
Ion Ratio Lower Upper

166 100

165 97.8 77.7 116.5

167 12.8 10.7 16.1





#59

2,3,4,6-Tetrachlorophenol

Concen: 5.197 ng

RT: 15.004 min Scan# 2043

Delta R.T. -0.082 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

Tgt Ion:232 Resp: 29655

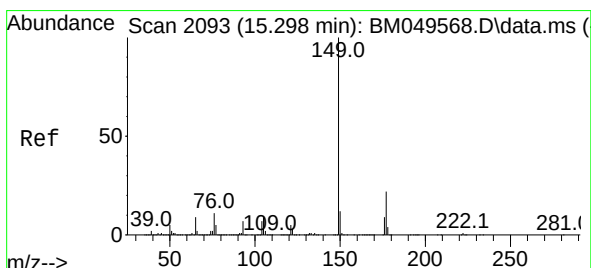
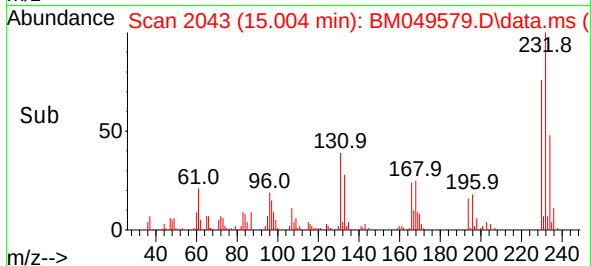
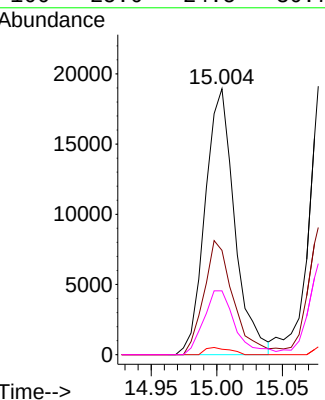
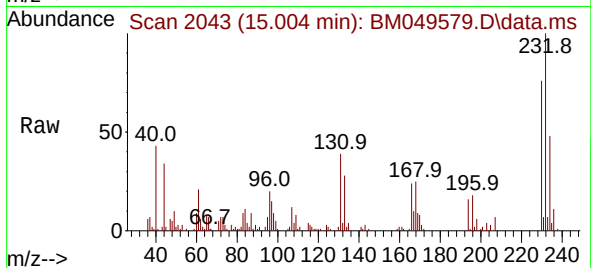
Ion Ratio Lower Upper

232 100

131 43.7 34.5 51.7

130 2.3 1.9 2.9

166 25.6 24.5 36.7



#60

Diethylphthalate

Concen: 8.158 ng

RT: 15.292 min Scan# 2092

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

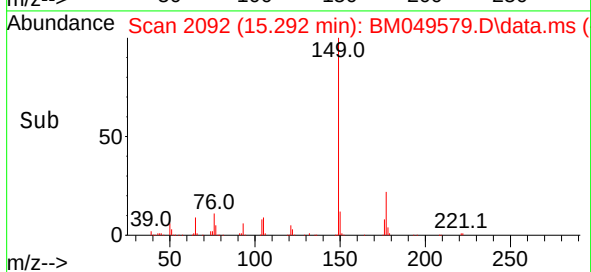
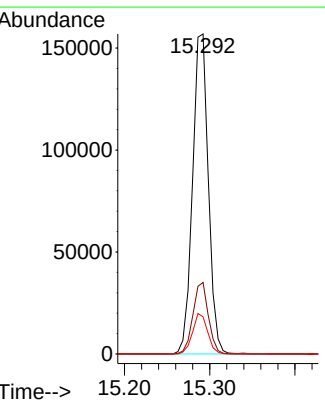
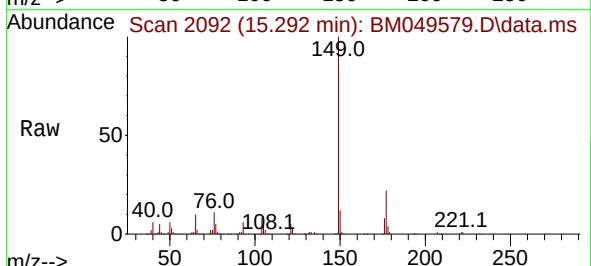
Tgt Ion:149 Resp: 201678

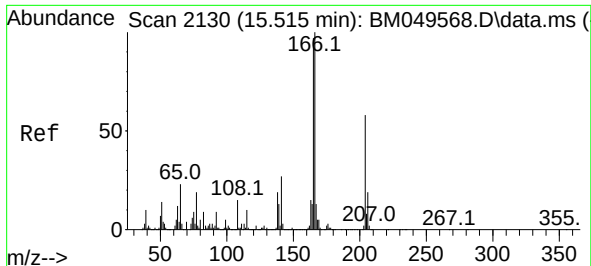
Ion Ratio Lower Upper

149 100

177 22.4 18.0 27.0

150 11.6 9.7 14.5

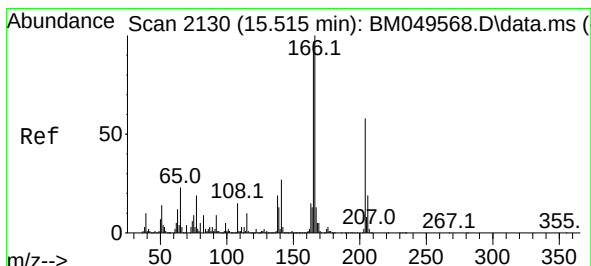
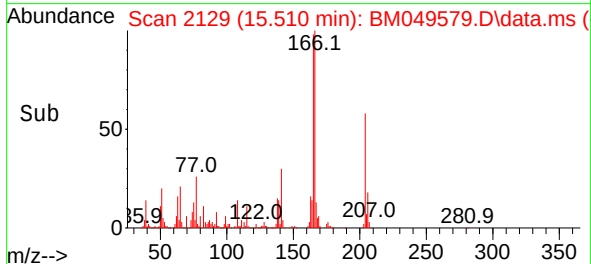
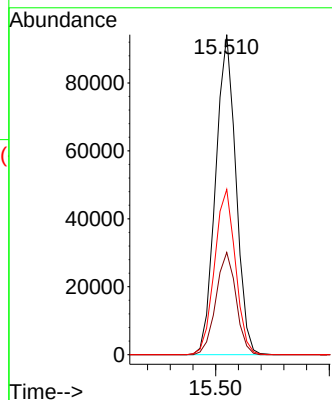
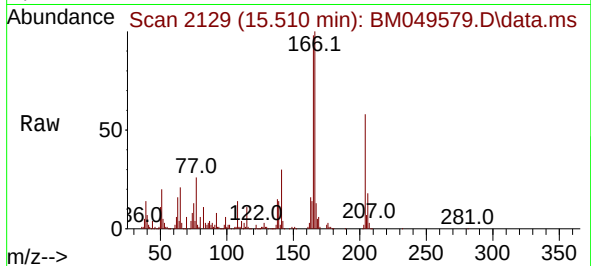




#61  
4-Chlorophenyl-phenylether  
Concen: 8.133 ng  
RT: 15.510 min Scan# 2129  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

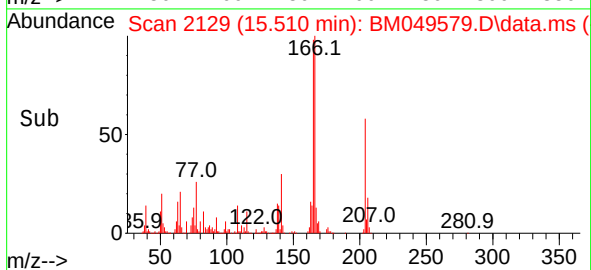
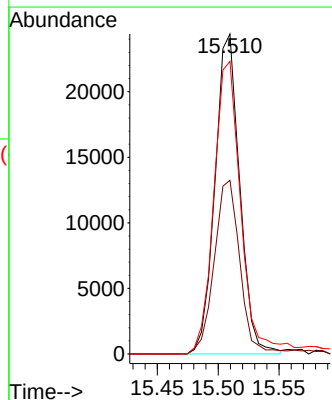
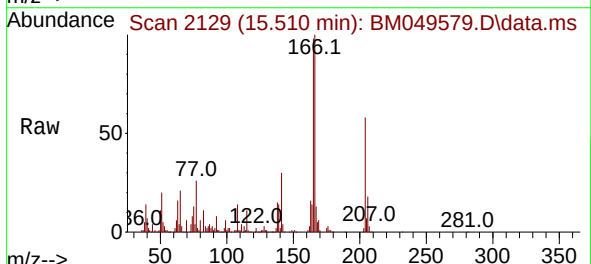
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

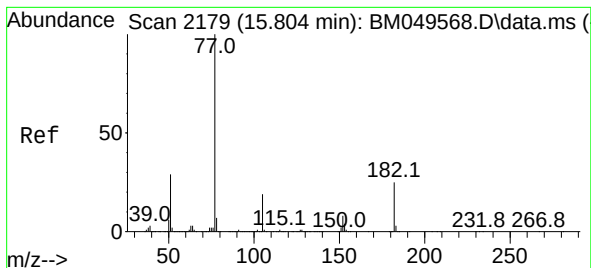
Tgt Ion:204 Resp: 116678  
Ion Ratio Lower Upper  
204 100  
206 32.0 26.0 39.0  
141 51.6 37.1 55.7



#62  
4-Nitroaniline  
Concen: 7.110 ng  
RT: 15.510 min Scan# 2129  
Delta R.T. -0.005 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:138 Resp: 34509  
Ion Ratio Lower Upper  
138 100  
92 54.2 29.3 69.3  
108 91.4 60.1 100.1





#63

Azobenzene

Concen: 9.313 ng

RT: 15.798 min Scan# 2179

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

Tgt Ion: 77 Resp: 240308

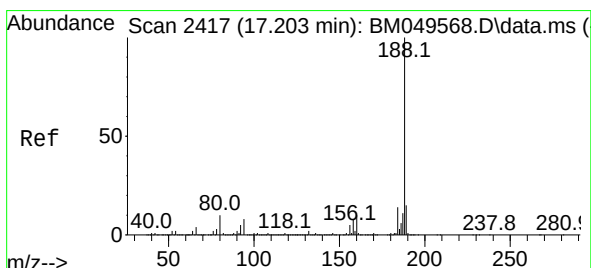
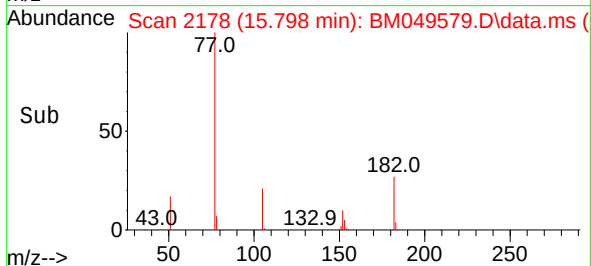
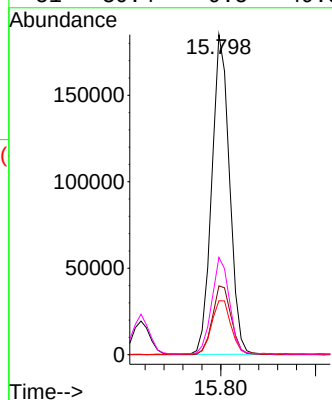
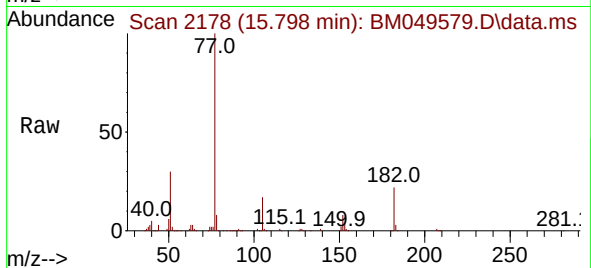
Ion Ratio Lower Upper

77 100

182 21.5 4.7 44.7

105 16.8 0.0 39.3

51 30.4 9.5 49.5



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.204 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

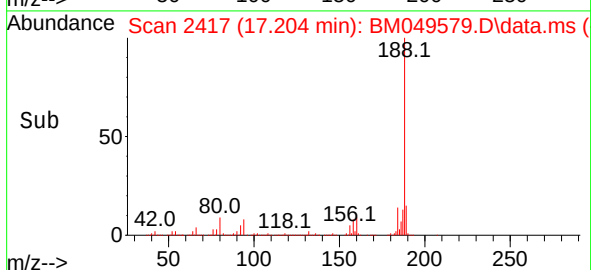
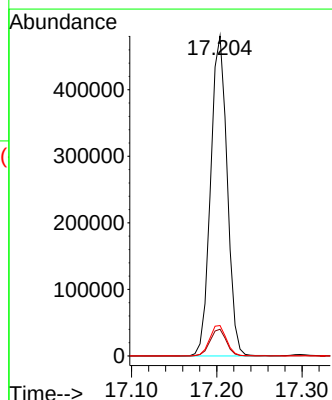
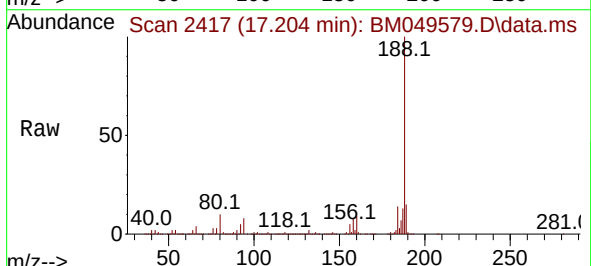
Tgt Ion:188 Resp: 648790

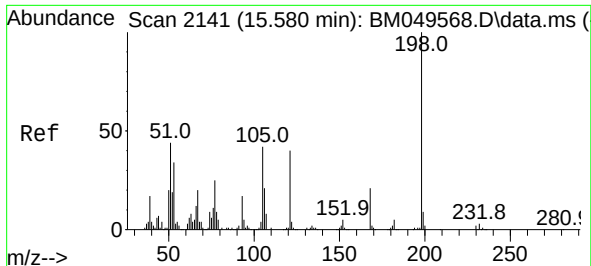
Ion Ratio Lower Upper

188 100

94 8.4 6.7 10.1

80 9.5 7.7 11.5

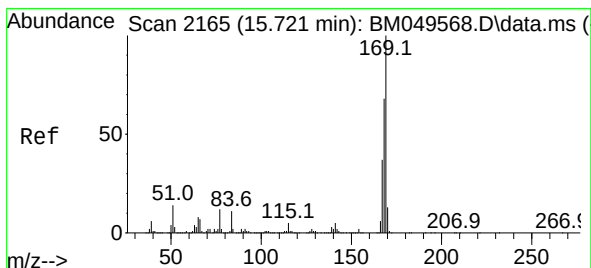
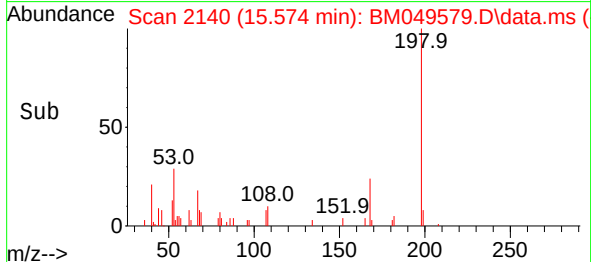
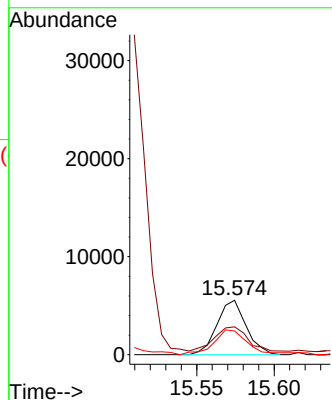
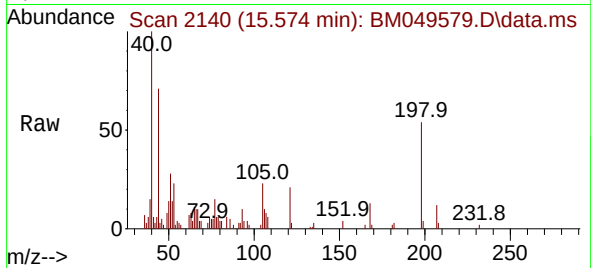




#65  
4,6-Dinitro-2-methylphenol  
Concen: 9.237 ng  
RT: 15.574 min Scan# 2140  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

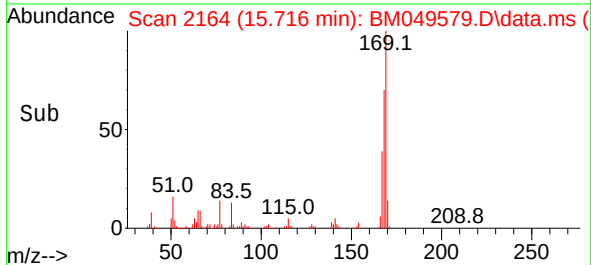
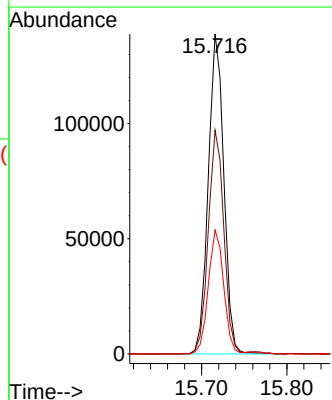
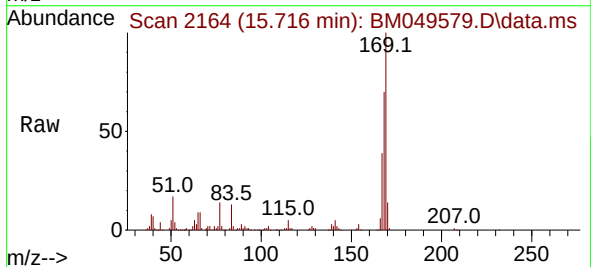
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

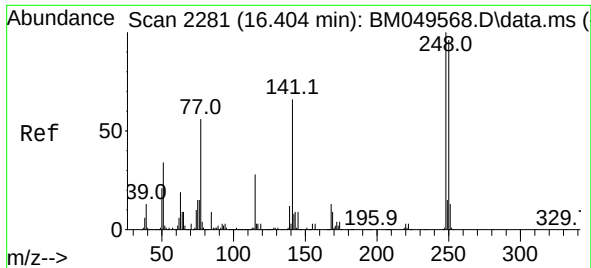
Tgt Ion:198 Resp: 7259  
Ion Ratio Lower Upper  
198 100  
51 51.4 26.9 66.9  
105 43.5 22.8 62.8



#66  
n-Nitrosodiphenylamine  
Concen: 8.629 ng  
RT: 15.716 min Scan# 2164  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:169 Resp: 176565  
Ion Ratio Lower Upper  
169 100  
168 69.9 54.2 81.4  
167 38.7 29.5 44.3

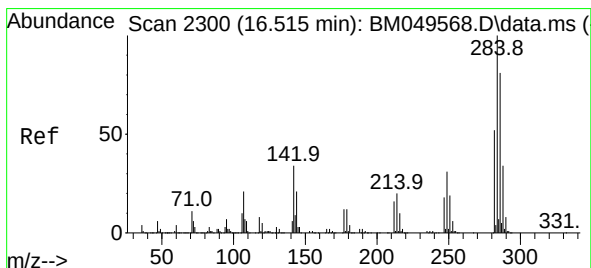
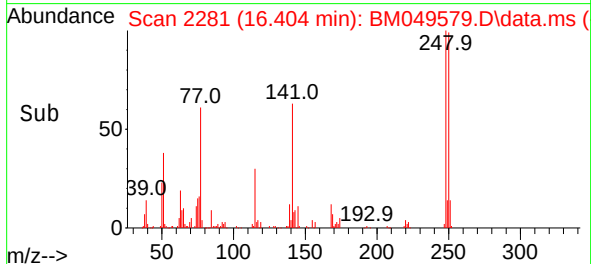
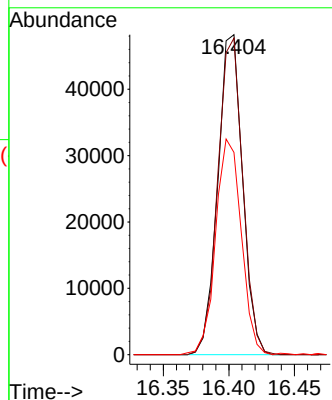
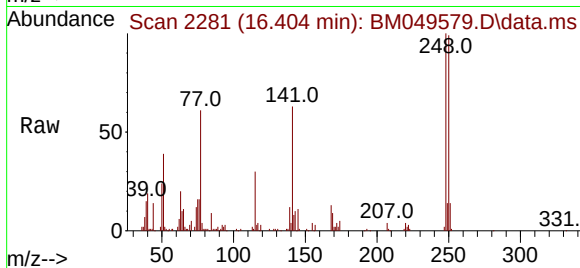




#67  
4-Bromophenyl-phenylether  
Concen: 8.409 ng  
RT: 16.404 min Scan# 2281  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

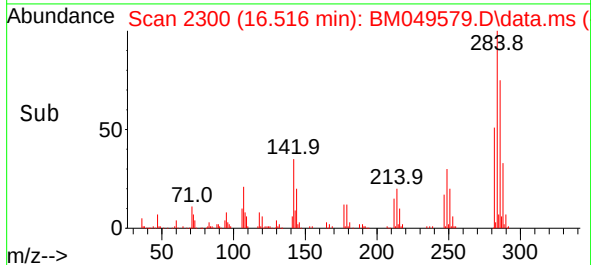
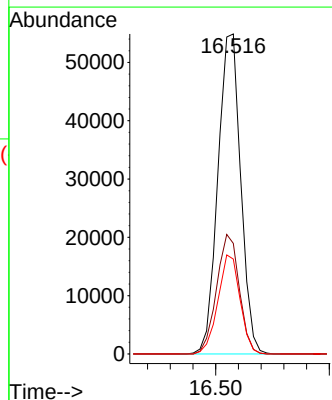
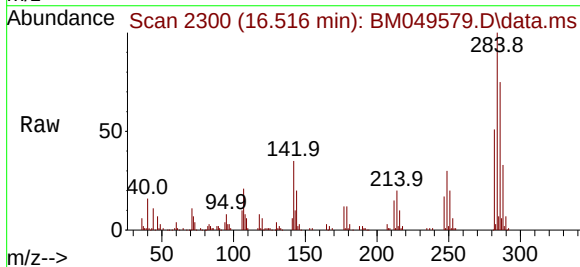
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

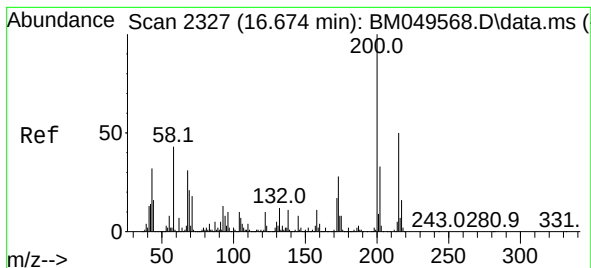
Tgt Ion:248 Resp: 63382  
Ion Ratio Lower Upper  
248 100  
250 98.9 77.0 115.4  
141 63.2 53.0 79.4



#68  
Hexachlorobenzene  
Concen: 8.848 ng  
RT: 16.516 min Scan# 2300  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:284 Resp: 76546  
Ion Ratio Lower Upper  
284 100  
142 34.5 27.1 40.7  
249 29.7 24.6 36.8





#69

Atrazine

Concen: 8.280 ng

RT: 16.668 min Scan# 24

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

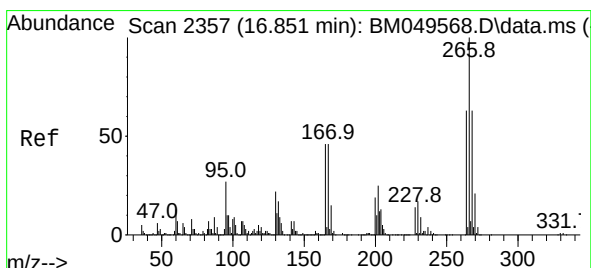
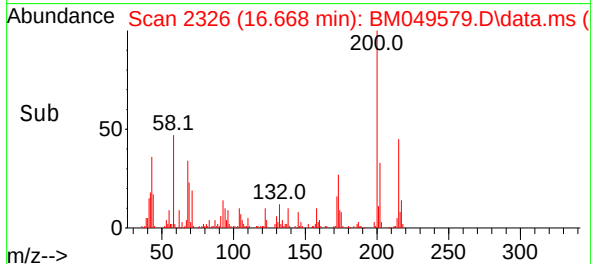
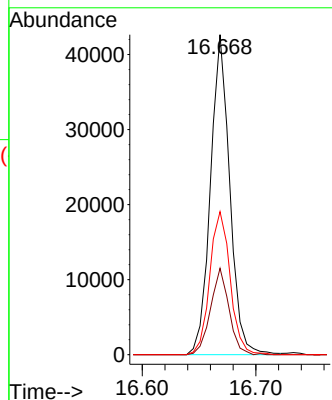
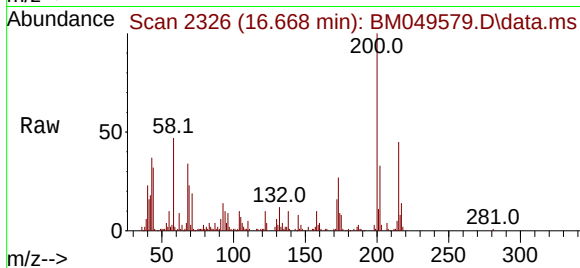
Tgt Ion:200 Resp: 50361

Ion Ratio Lower Upper

200 100

173 27.0 7.6 47.6

215 44.7 30.2 70.2



#70

Pentachlorophenol

Concen: 11.093 ng

RT: 16.851 min Scan# 2357

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

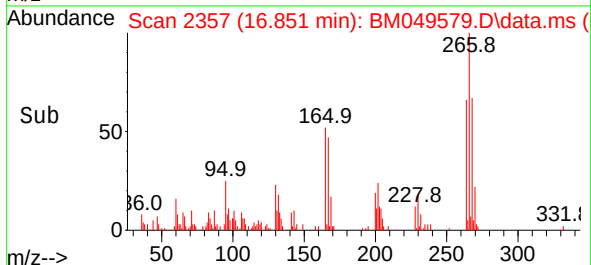
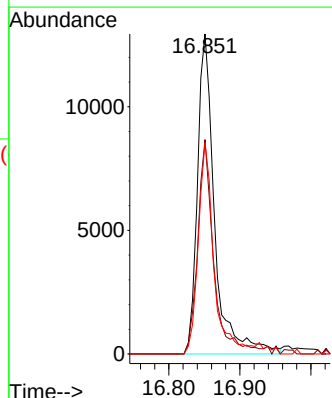
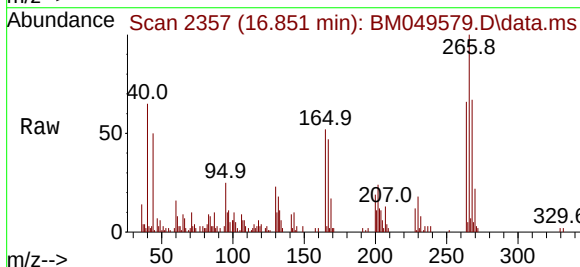
Tgt Ion:266 Resp: 21839

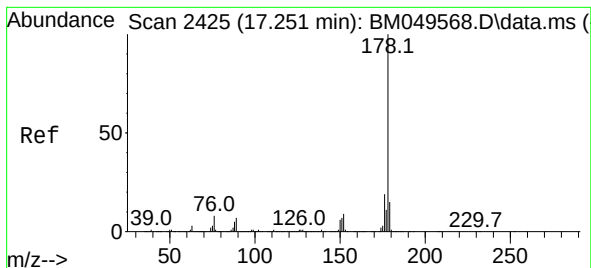
Ion Ratio Lower Upper

266 100

268 71.6 50.8 76.2

264 66.0 50.0 75.0





#71

Phenanthrene

Concen: 8.797 ng

RT: 17.245 min Scan# 2425

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

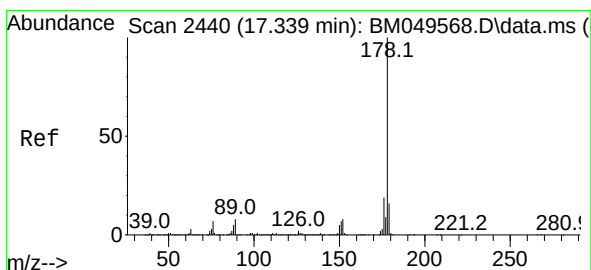
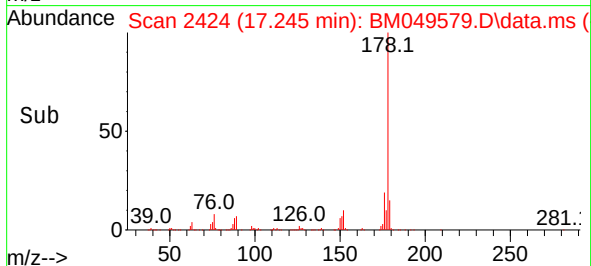
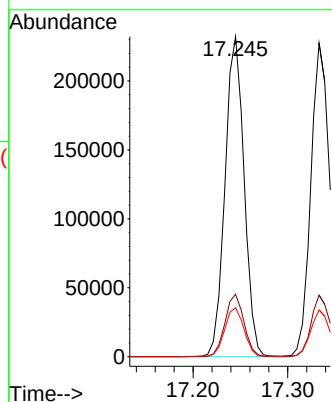
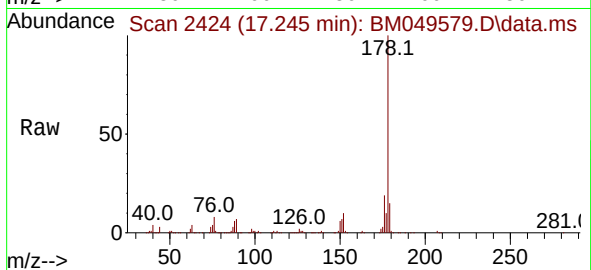
Tgt Ion:178 Resp: 325145

Ion Ratio Lower Upper

178 100

176 19.5 15.5 23.3

179 15.3 12.2 18.2



#72

Anthracene

Concen: 8.709 ng

RT: 17.333 min Scan# 2439

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

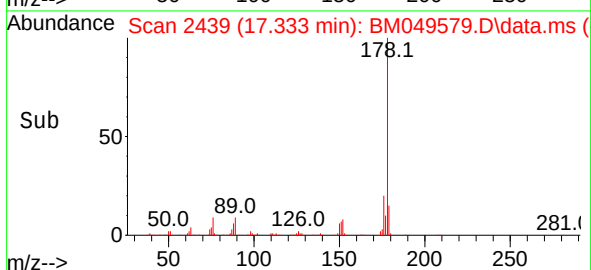
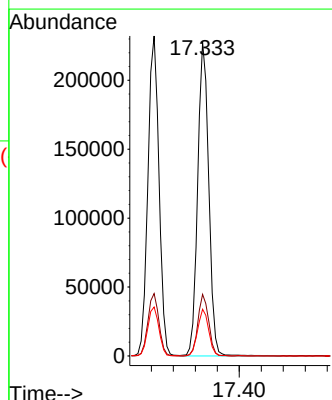
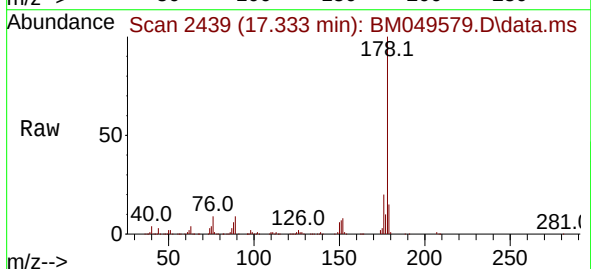
Tgt Ion:178 Resp: 318732

Ion Ratio Lower Upper

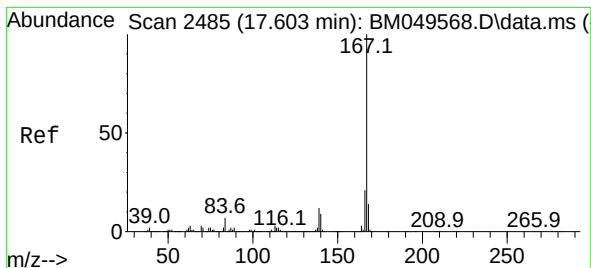
178 100

176 19.6 15.2 22.8

179 14.9 12.4 18.6







#73

Carbazole

Concen: 8.904 ng

RT: 17.598 min Scan# 2484

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

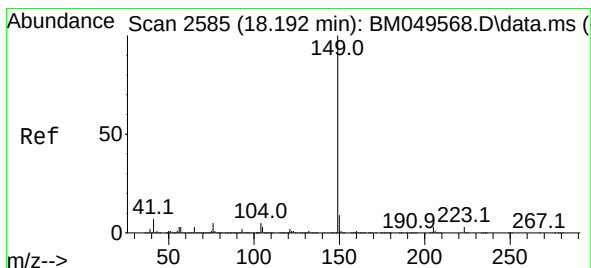
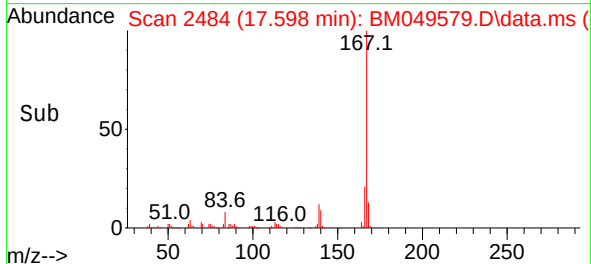
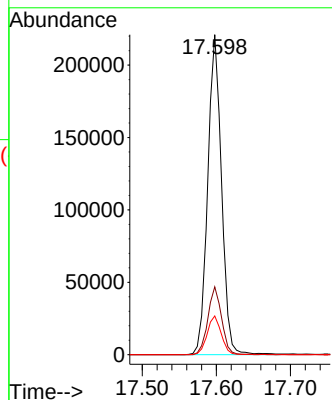
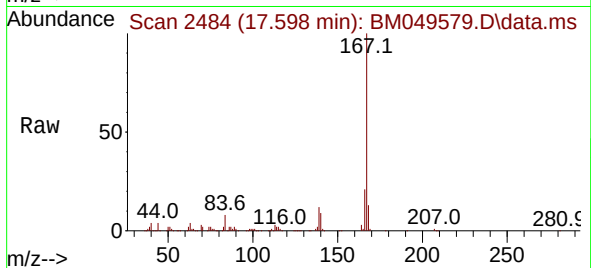
Tgt Ion:167 Resp: 286010

Ion Ratio Lower Upper

167 100

166 21.2 17.2 25.8

139 12.1 9.6 14.4



#74

Di-n-butylphthalate

Concen: 6.867 ng

RT: 18.186 min Scan# 2584

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

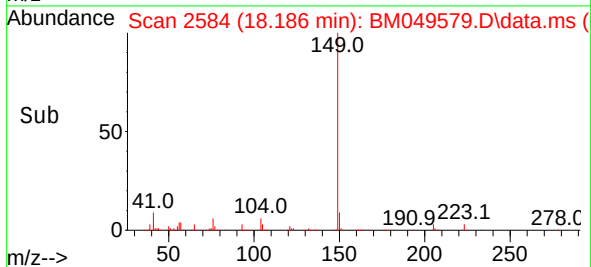
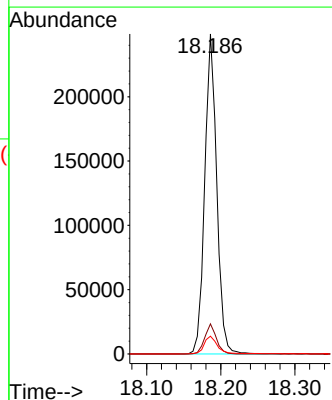
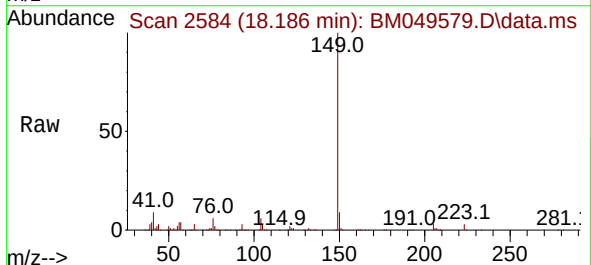
Tgt Ion:149 Resp: 279893

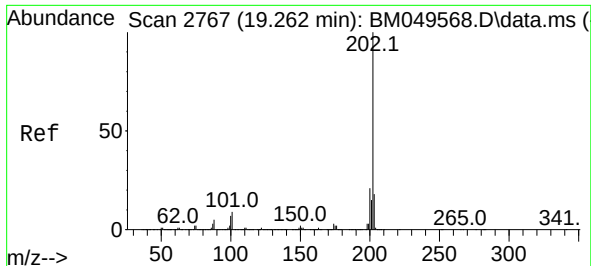
Ion Ratio Lower Upper

149 100

150 9.4 7.4 11.0

104 5.6 4.1 6.1

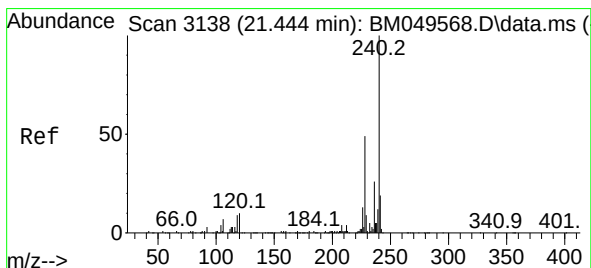
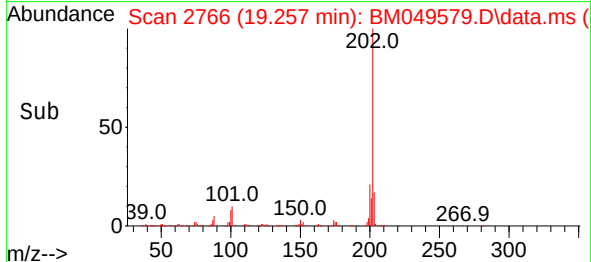
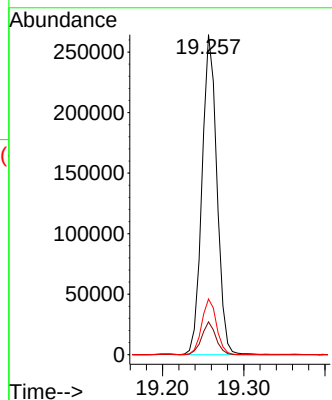
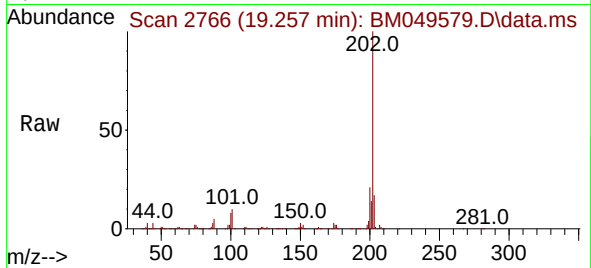




#75  
Fluoranthene  
Concen: 7.786 ng  
RT: 19.257 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

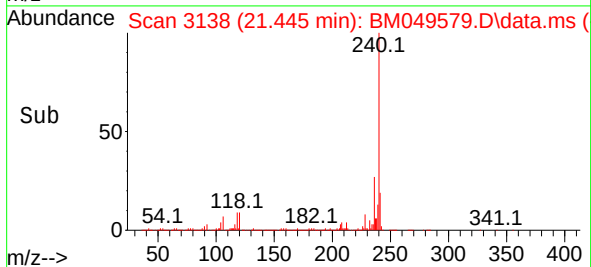
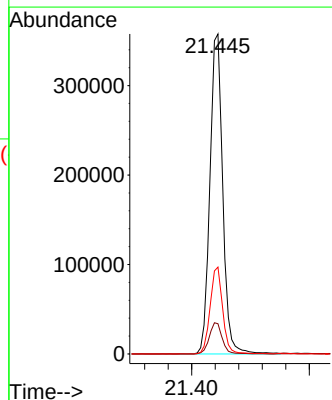
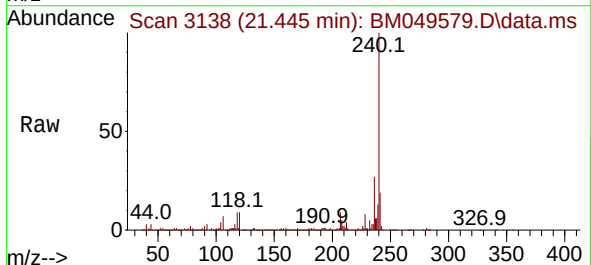
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

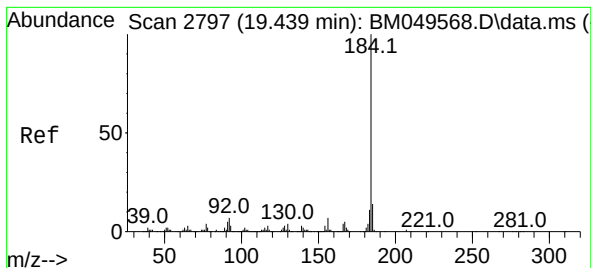
Tgt Ion:202 Resp: 336915  
Ion Ratio Lower Upper  
202 100  
101 10.3 0.0 29.1  
203 17.4 0.0 37.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.445 min Scan# 3138  
Delta R.T. 0.000 min  
Lab File: BM049579.D  
Acq: 06 Feb 2025 13:19

Tgt Ion:240 Resp: 540612  
Ion Ratio Lower Upper  
240 100  
120 9.5 7.8 11.8  
236 27.2 20.6 31.0





#77

Benzidine

Concen: 9.933 ng

RT: 19.445 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

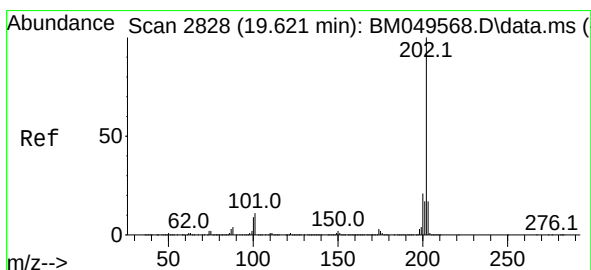
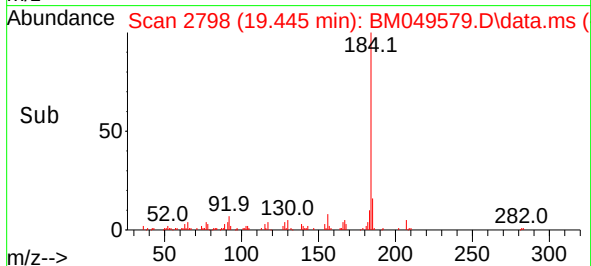
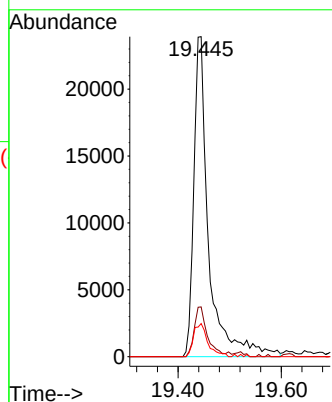
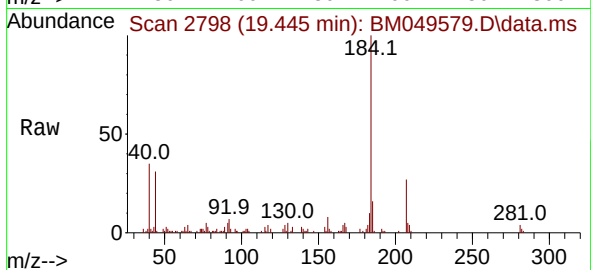
Tgt Ion:184 Resp: 47555

Ion Ratio Lower Upper

184 100

185 15.6 11.6 17.4

183 10.4 8.9 13.3



#78

Pyrene

Concen: 8.525 ng

RT: 19.615 min Scan# 2827

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

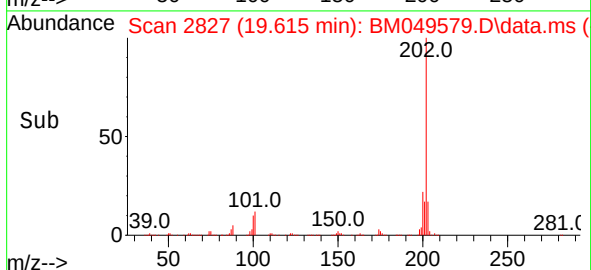
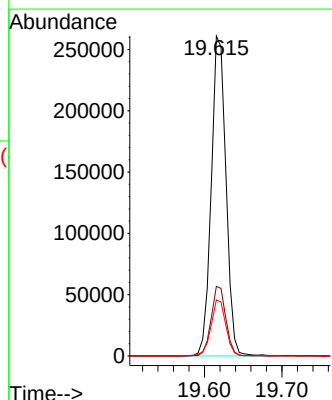
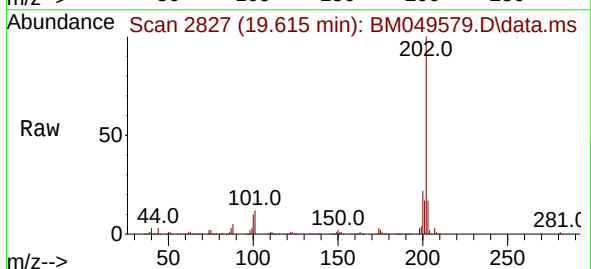
Tgt Ion:202 Resp: 345074

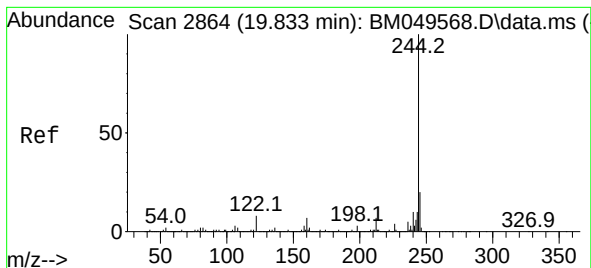
Ion Ratio Lower Upper

202 100

200 21.7 16.8 25.2

203 17.5 13.8 20.8





#79

Terphenyl-d14

Concen: 129.963 ng

RT: 19.833 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

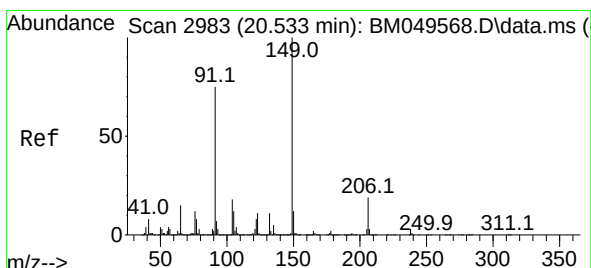
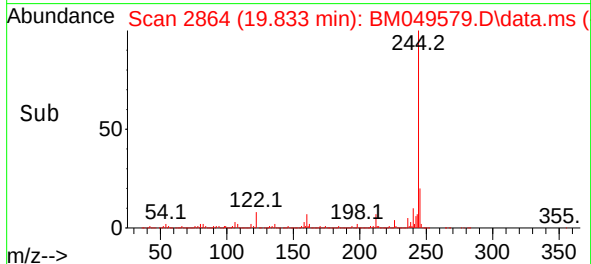
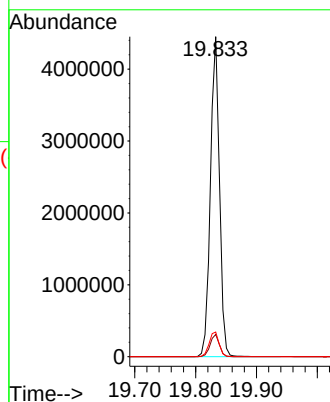
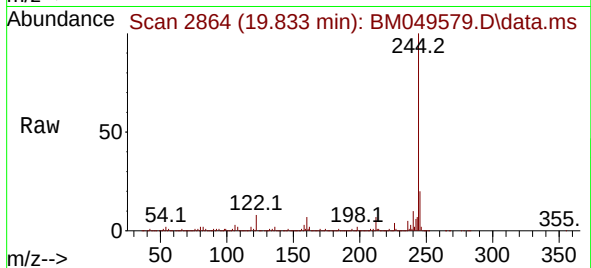
Tgt Ion:244 Resp: 4601043

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.6

122 7.7 6.2 9.2



#80

Butylbenzylphthalate

Concen: 4.137 ng

RT: 20.533 min Scan# 2983

Delta R.T. -0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

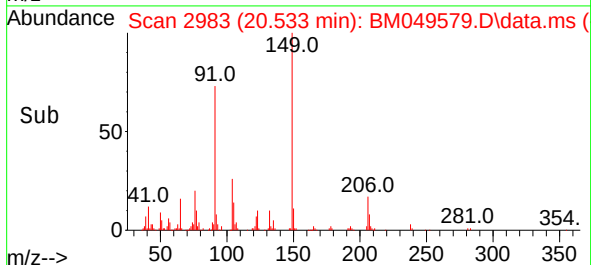
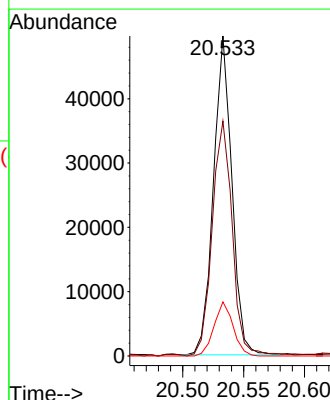
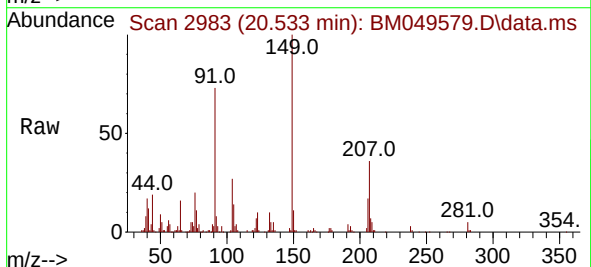
Tgt Ion:149 Resp: 52112

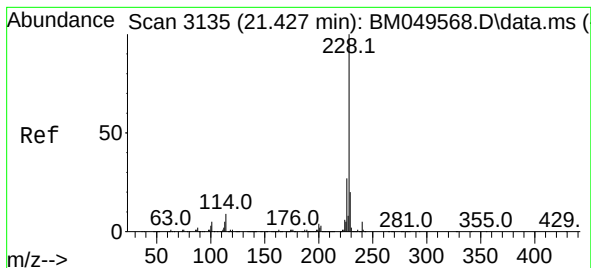
Ion Ratio Lower Upper

149 100

91 73.4 60.2 90.2

206 16.9 15.4 23.0





#81

Benzo(a)anthracene

Concen: 8.682 ng

RT: 21.427 min Scan# 3135

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

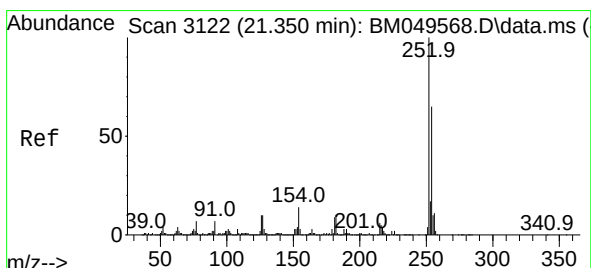
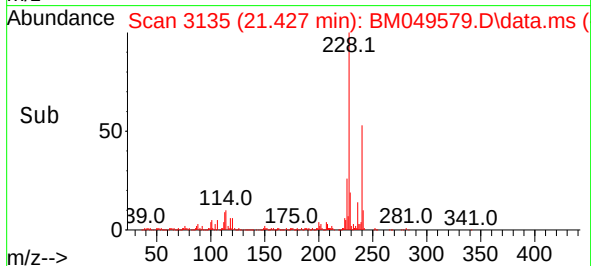
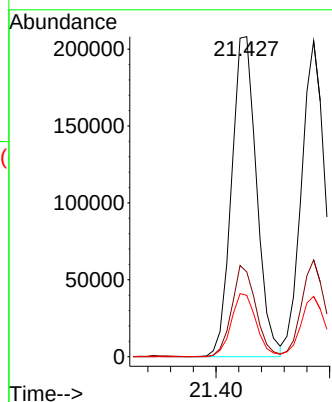
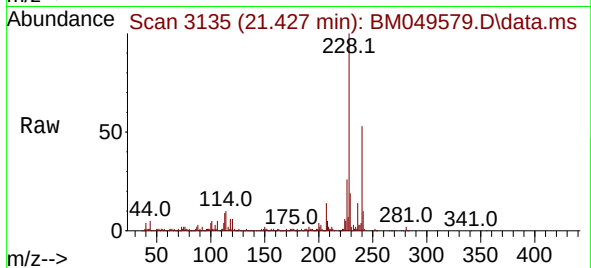
Tgt Ion:228 Resp: 318080

Ion Ratio Lower Upper

228 100

226 26.5 22.0 33.0

229 19.1 15.7 23.5



#82

3,3'-Dichlorobenzidine

Concen: 6.202 ng

RT: 21.345 min Scan# 3121

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

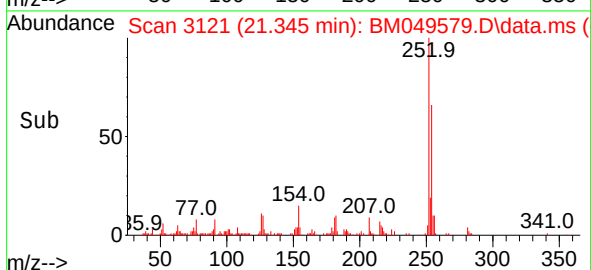
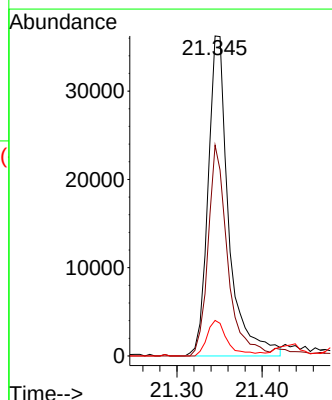
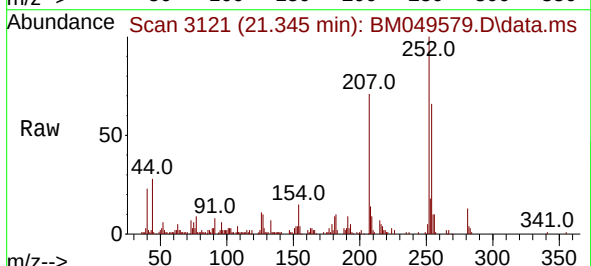
Tgt Ion:252 Resp: 61147

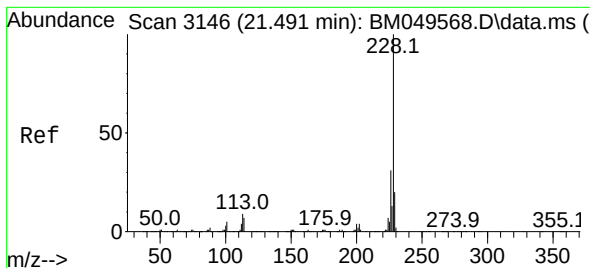
Ion Ratio Lower Upper

252 100

254 65.9 52.1 78.1

126 11.1 7.8 11.6





#83

Chrysene

Concen: 8.780 ng

RT: 21.486 min Scan# 3146

Delta R.T. -0.006 min

Lab File: BM049579.D

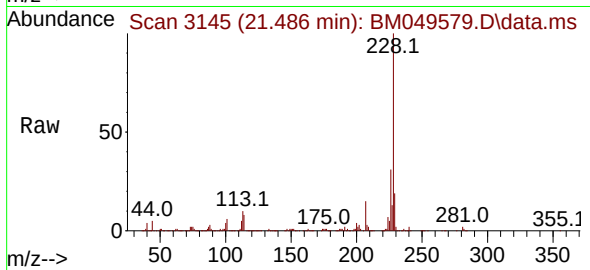
Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025



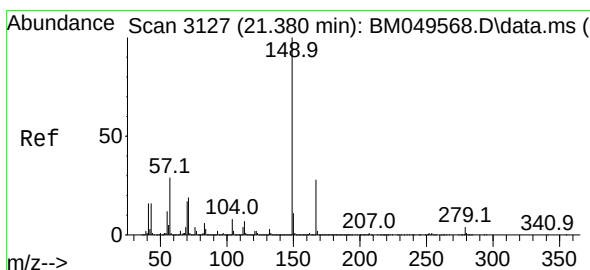
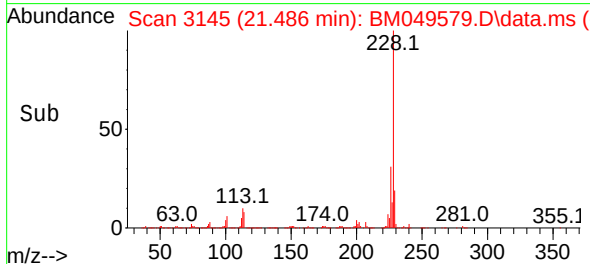
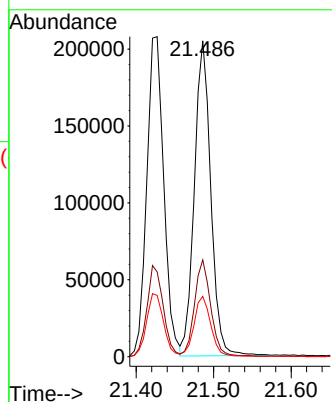
Tgt Ion:228 Resp: 301373

Ion Ratio Lower Upper

228 100

226 30.7 24.5 36.7

229 19.1 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 5.228 ng

RT: 21.380 min Scan# 3127

Delta R.T. -0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

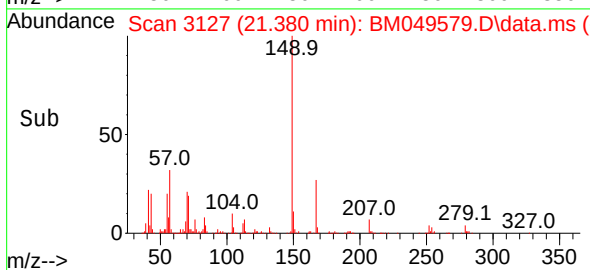
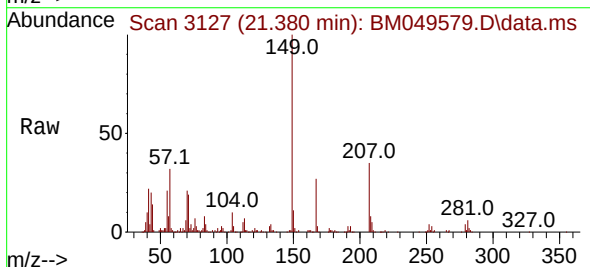
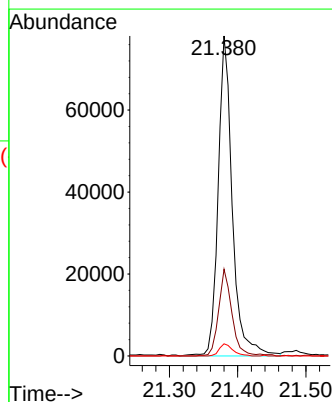
Tgt Ion:149 Resp: 112897

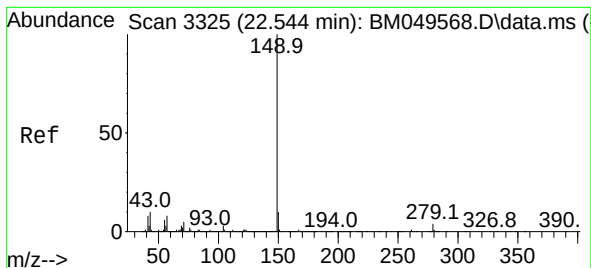
Ion Ratio Lower Upper

149 100

167 27.1 22.1 33.1

279 3.8 3.0 4.4





#85

Di-n-octyl phthalate

Concen: 3.985 ng

RT: 22.539 min Scan# 3324

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

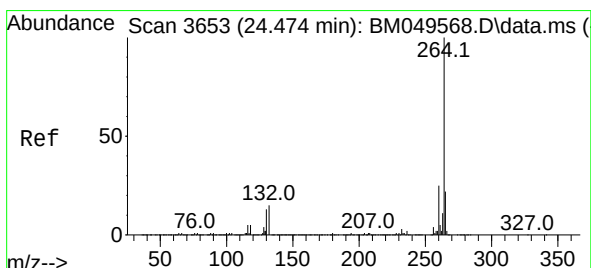
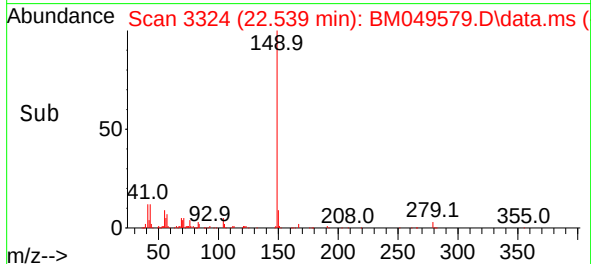
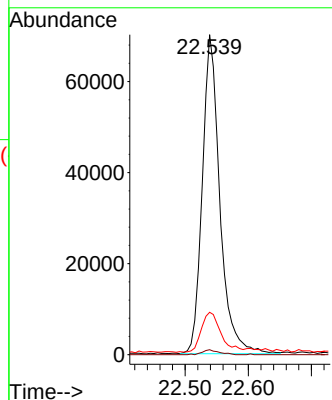
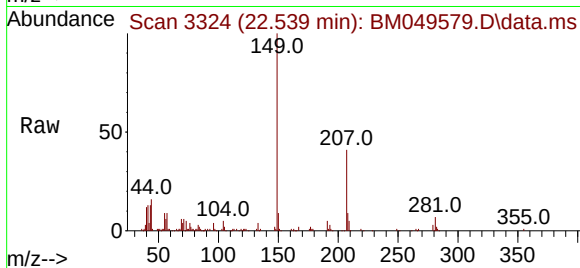
Tgt Ion:149 Resp: 135741

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

43 13.7 8.5 12.7#



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.474 min Scan# 3653

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

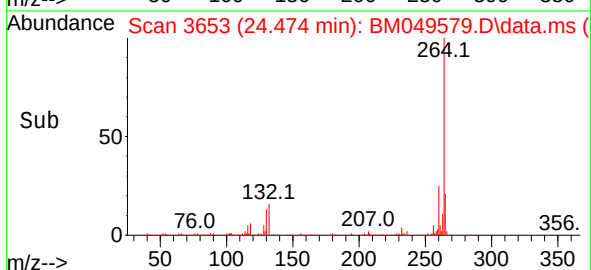
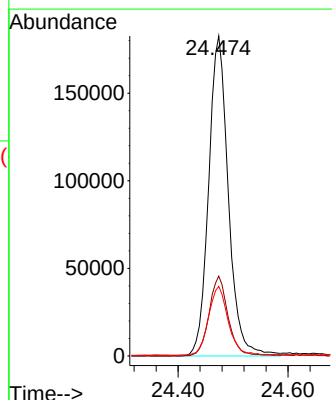
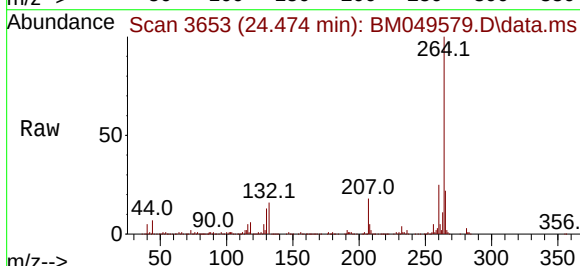
Tgt Ion:264 Resp: 455366

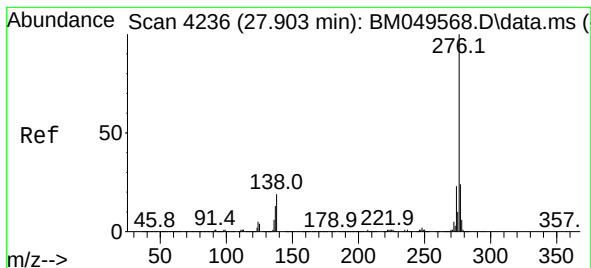
Ion Ratio Lower Upper

264 100

260 24.9 19.8 29.6

265 21.8 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.376 ng

RT: 27.891 min Scan# 41

Delta R.T. -0.012 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

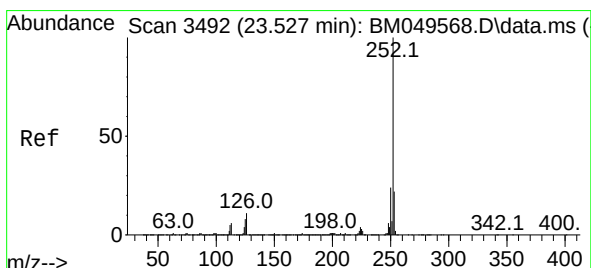
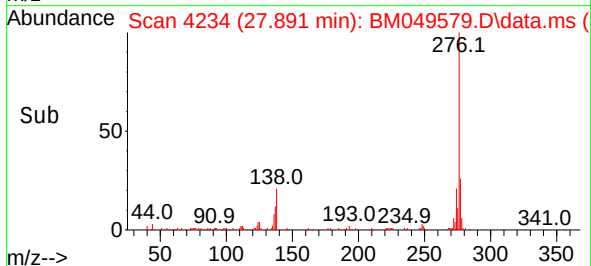
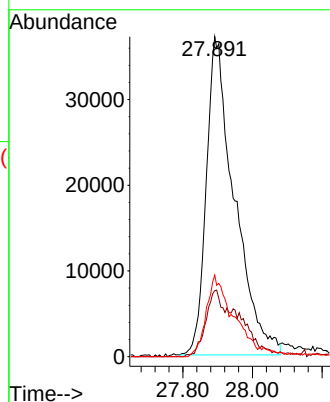
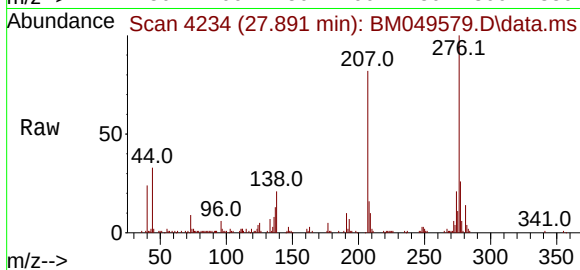
Tgt Ion:276 Resp: 208295

Ion Ratio Lower Upper

276 100

138 15.4 13.1 19.7

277 24.2 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 8.210 ng

RT: 23.580 min Scan# 3501

Delta R.T. 0.053 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

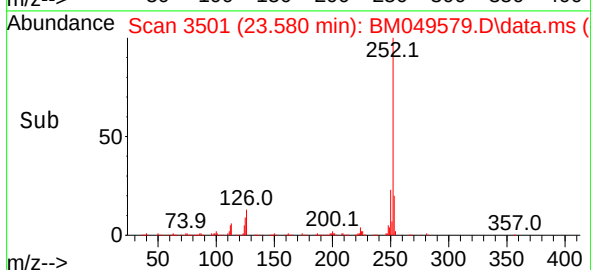
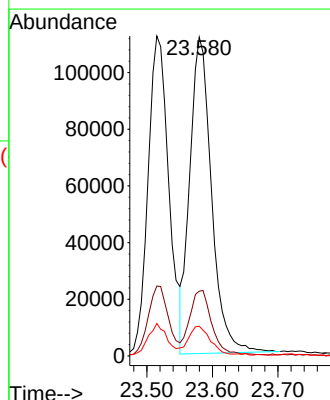
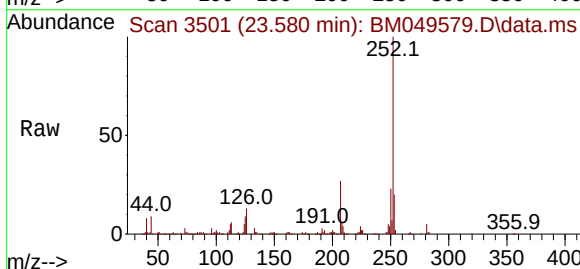
Tgt Ion:252 Resp: 257196

Ion Ratio Lower Upper

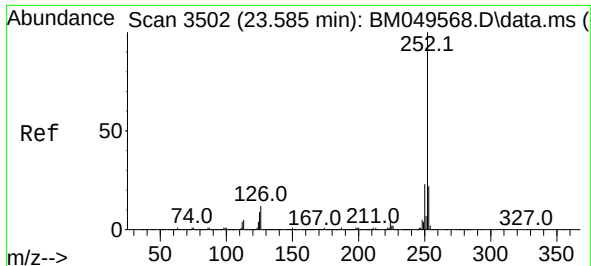
252 100

253 20.3 17.4 26.2

125 9.3 6.6 10.0







#89

Benzo(k)fluoranthene

Concen: 8.453 ng

RT: 23.580 min Scan# 3502

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

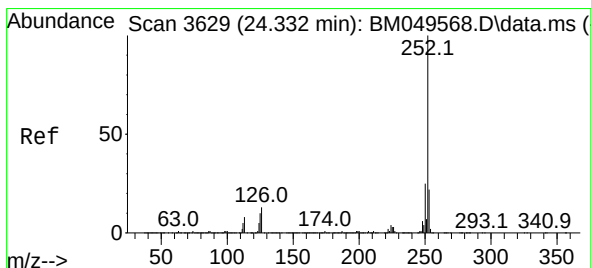
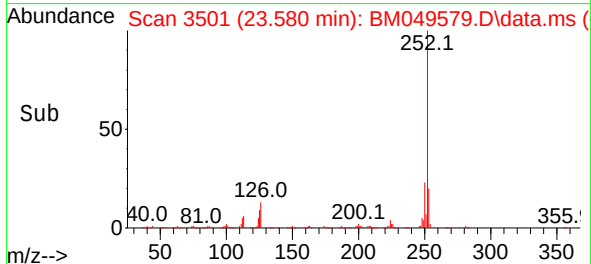
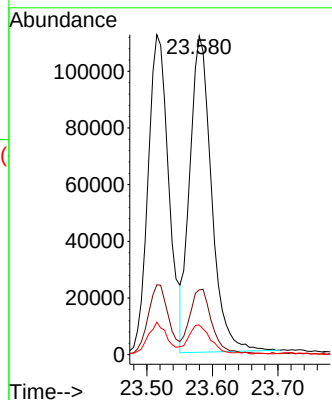
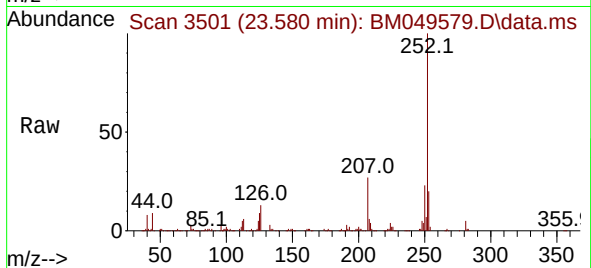
Tgt Ion:252 Resp: 257196

Ion Ratio Lower Upper

252 100

253 20.3 17.5 26.3

125 9.3 7.0 10.6



#90

Benzo(a)pyrene

Concen: 8.335 ng

RT: 24.327 min Scan# 3628

Delta R.T. -0.006 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

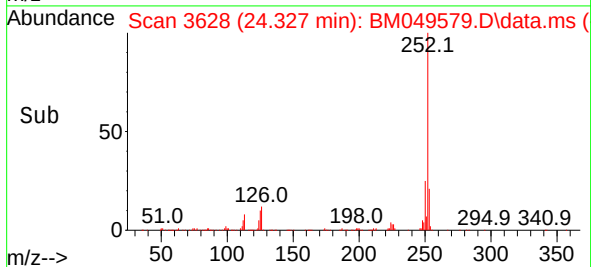
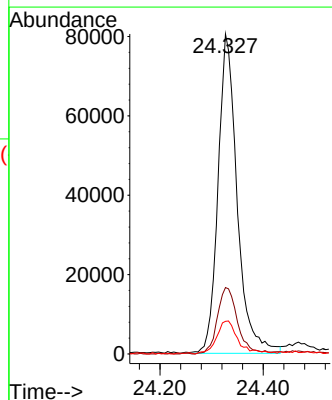
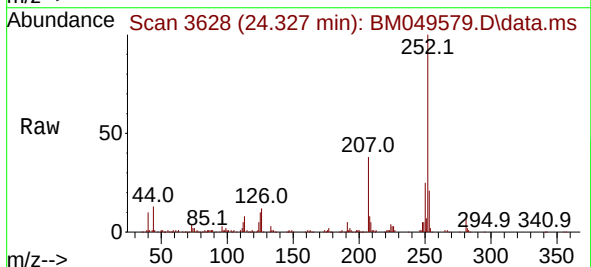
Tgt Ion:252 Resp: 206920

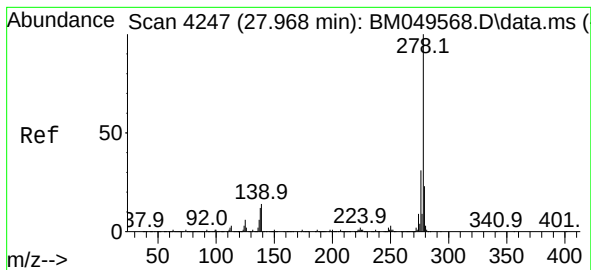
Ion Ratio Lower Upper

252 100

253 20.7 17.4 26.0

125 10.2 8.2 12.2





#91

Dibenzo(a,h)anthracene

Concen: 7.936 ng

RT: 27.968 min Scan# 41

Delta R.T. 0.000 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

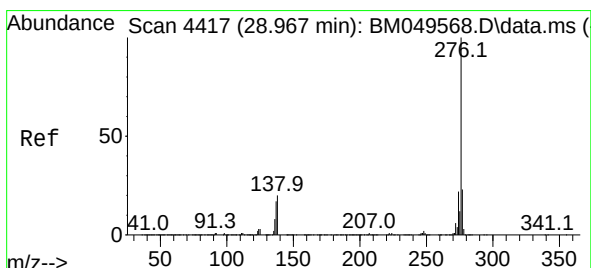
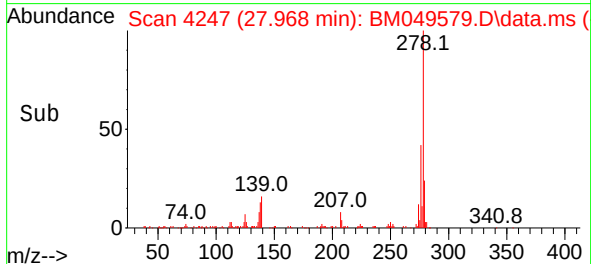
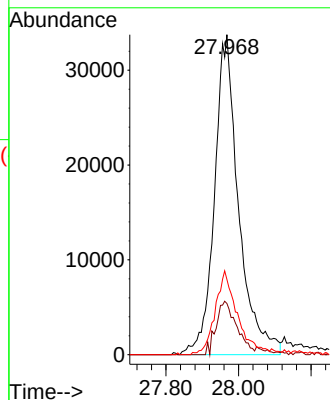
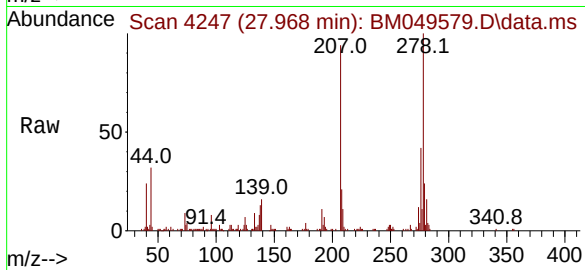
Tgt Ion:278 Resp: 155987

Ion Ratio Lower Upper

278 100

139 16.0 11.5 17.3

279 23.5 18.2 27.2



#92

Benzo(g,h,i)perylene

Concen: 8.009 ng

RT: 28.950 min Scan# 4414

Delta R.T. -0.017 min

Lab File: BM049579.D

Acq: 06 Feb 2025 13:19

Tgt Ion:276 Resp: 175853

Ion Ratio Lower Upper

276 100

277 24.2 18.7 28.1

138 23.5 16.0 24.0

