

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071922\  
 Data File : BM035865.D  
 Acq On : 19 Jul 2022 14:18  
 Operator : CG/JU  
 Sample : N3214-02  
 Misc : LOQ-SOIL 5ppm  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2022

Quant Time: Jul 19 14:51:05 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM071822.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 18 17:08:15 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.898  | 152  | 279906   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.704 | 136  | 1146317  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.533 | 164  | 661468   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.268 | 188  | 1249804  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.445 | 240  | 1052457  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.821 | 264  | 1000414  | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.451  | 112  | 1965289  | 108.850 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.057  | 99   | 2464827  | 108.564 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.063  | 82   | 1650920  | 77.027  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.015 | 330  | 821629   | 111.048 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.163 | 172  | 3630483  | 77.581  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.898 | 244  | 4511442  | 83.402  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.316  | 88   | 37386    | 5.010   | ng    | 95       |
| 3) Pyridine                   | 3.728  | 79   | 95220    | 4.801   | ng    | 89       |
| 4) n-Nitrosodimethylamine     | 3.640  | 42   | 42213    | 5.093   | ng    | # 66     |
| 6) Aniline                    | 7.222  | 93   | 144226   | 5.785   | ng    | 95       |
| 8) 2-Chlorophenol             | 7.457  | 128  | 95921    | 5.141   | ng    | 97       |
| 9) Benzaldehyde               | 7.034  | 77   | 86133    | 6.753   | ng    | 96       |
| 10) Phenol                    | 7.087  | 94   | 118840   | 5.197   | ng    | 89       |
| 11) bis(2-Chloroethyl)ether   | 7.322  | 93   | 95550    | 5.179   | ng    | 98       |
| 12) 1,3-Dichlorobenzene       | 7.781  | 146  | 106243   | 5.105   | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 7.934  | 146  | 110596   | 5.220   | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 8.245  | 146  | 106376   | 5.191   | ng    | 97       |
| 15) Benzyl Alcohol            | 8.140  | 79   | 72166    | 4.824   | ng    | 94       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.428  | 45   | 127322   | 5.301   | ng    | 95       |
| 17) 2-Methylphenol            | 8.339  | 107  | 72280    | 4.869   | ng    | 96       |
| 18) Hexachloroethane          | 8.981  | 117  | 38846    | 5.096   | ng    | 93       |
| 19) n-Nitroso-di-n-propyla... | 8.704  | 70   | 67705    | 5.144   | ng    | 92       |
| 20) 3+4-Methylphenols         | 8.669  | 107  | 95982    | 4.784   | ng    | 96       |
| 22) Acetophenone              | 8.722  | 105  | 143296   | 5.058   | ng    | # 93     |
| 24) Nitrobenzene              | 9.104  | 77   | 113156   | 5.621   | ng    | 96       |
| 25) Isophorone                | 9.628  | 82   | 181929   | 5.426   | ng    | 98       |
| 26) 2-Nitrophenol             | 9.816  | 139  | 36307    | 4.004   | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 9.875  | 122  | 80326    | 5.615   | ng    | 97       |
| 28) bis(2-Chloroethoxy)met... | 10.116 | 93   | 118452   | 5.076   | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 10.345 | 162  | 71888    | 4.533   | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.563 | 180  | 91374    | 4.992   | ng    | 96       |
| 31) Naphthalene               | 10.751 | 128  | 308702   | 5.300   | ng    | 100      |
| 32) Benzoic acid              | 9.934  | 122  | 25437    | 2.351   | ng    | 91       |
| 33) 4-Chloroaniline           | 10.863 | 127  | 119882   | 5.145   | ng    | 96       |
| 34) Hexachlorobutadiene       | 11.039 | 225  | 51501    | 4.903   | ng    | 98       |
| 35) Caprolactam               | 11.622 | 113  | 19576    | 4.036   | ng    | 97       |
| 36) 4-Chloro-3-methylphenol   | 11.986 | 107  | 75893    | 4.667   | ng    | 99       |
| 37) 2-Methylnaphthalene       | 12.363 | 142  | 196679   | 5.191   | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.580 | 142  | 190831   | 5.174   | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 12.727 | 216  | 92994    | 4.921   | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.704 | 237  | 54643    | 5.365   | ng    | 97       |
| 43) 2,4,6-Trichlorophenol     | 12.969 | 196  | 52785    | 4.226   | ng    | 98       |

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 ALS Vial : 6 Sample Multiplier: 1

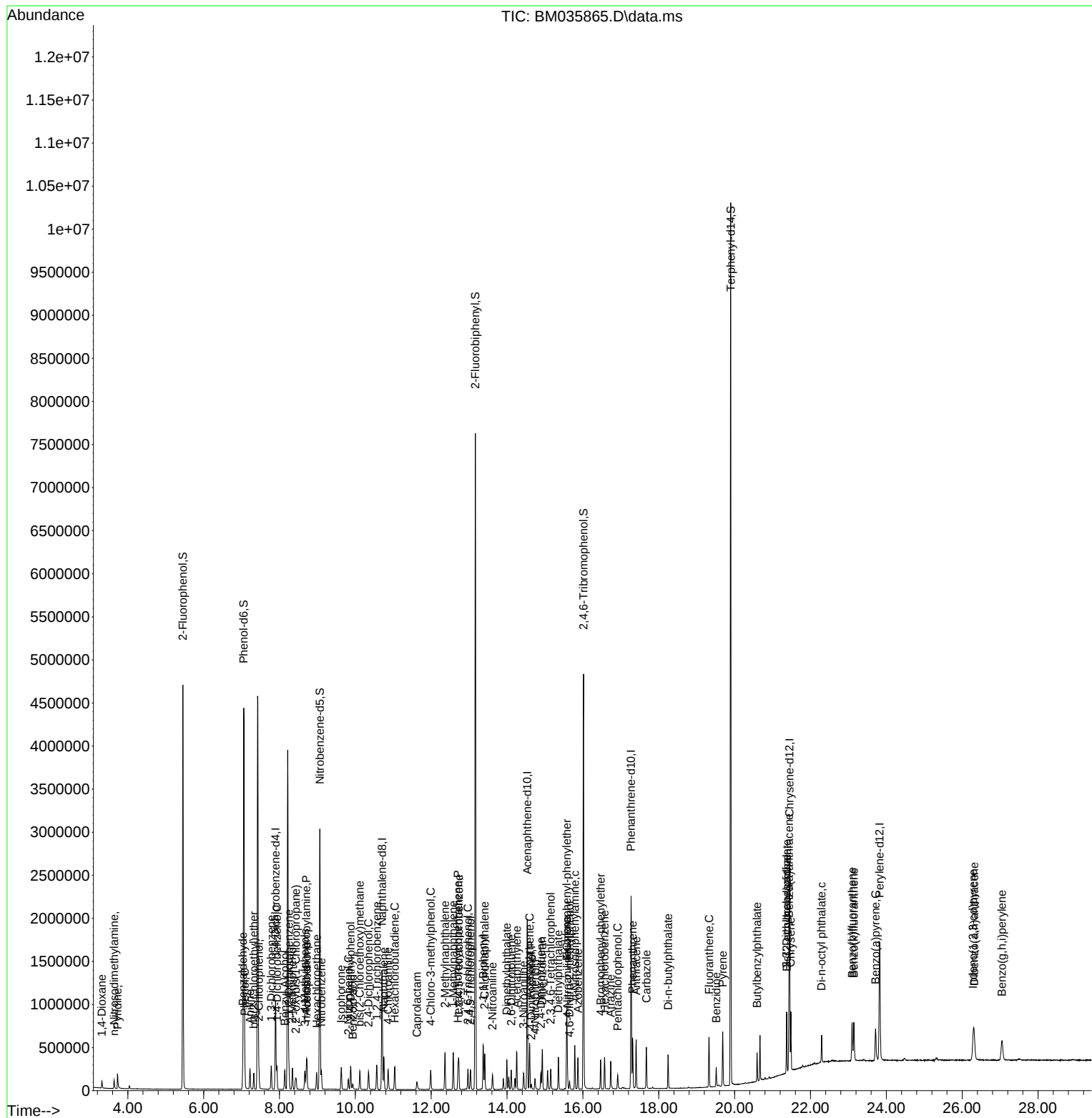
Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2022

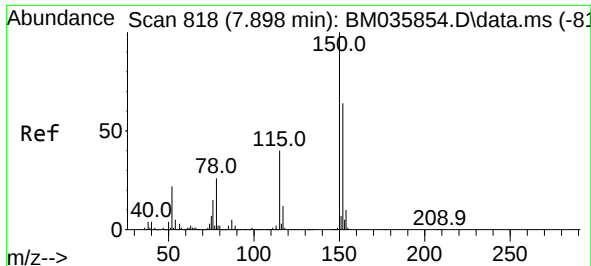
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 18 17:08:15 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.033 | 196  | 58036    | 4.406 | ng    | 96       |
| 46) 1,1'-Biphenyl             | 13.369 | 154  | 264057   | 5.248 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.410 | 162  | 195770   | 5.062 | ng    | 99       |
| 48) 2-Nitroaniline            | 13.616 | 65   | 43786    | 4.109 | ng    | 99       |
| 49) Acenaphthylene            | 14.257 | 152  | 309543   | 5.198 | ng    | 98       |
| 50) Dimethylphthalate         | 13.992 | 163  | 212333   | 4.877 | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.110 | 165  | 40462    | 4.444 | ng    | 95       |
| 52) Acenaphthene              | 14.592 | 154  | 181457   | 5.087 | ng    | 98       |
| 53) 3-Nitroaniline            | 14.433 | 138  | 46740    | 4.264 | ng    | 97       |
| 54) 2,4-Dinitrophenol         | 14.639 | 184  | 11982    | 2.671 | ng    | 92       |
| 55) Dibenzofuran              | 14.927 | 168  | 293332   | 5.132 | ng    | 96       |
| 56) 4-Nitrophenol             | 14.739 | 139  | 32757    | 3.809 | ng    | 89       |
| 57) 2,4-Dinitrotoluene        | 14.892 | 165  | 47722    | 4.005 | ng    | 97       |
| 58) Fluorene                  | 15.574 | 166  | 220192   | 4.907 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.151 | 232  | 44264    | 4.181 | ng    | 97       |
| 60) Diethylphthalate          | 15.351 | 149  | 206489   | 4.786 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.574 | 204  | 109129   | 4.998 | ng    | 96       |
| 62) 4-Nitroaniline            | 15.592 | 138  | 42643    | 3.799 | ng    | 93       |
| 63) Azobenzene                | 15.868 | 77   | 204426   | 4.615 | ng    | 94       |
| 65) 4,6-Dinitro-2-methylph... | 15.645 | 198  | 17588    | 2.802 | ng    | 86       |
| 66) n-Nitrosodiphenylamine    | 15.786 | 169  | 180381   | 4.915 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether | 16.468 | 248  | 60947    | 4.851 | ng    | 94       |
| 68) Hexachlorobenzene         | 16.568 | 284  | 73773    | 5.058 | ng    | 96       |
| 69) Atrazine                  | 16.733 | 200  | 51374    | 5.327 | ng    | 98       |
| 70) Pentachlorophenol         | 16.915 | 266  | 29678    | 3.667 | ng    | 96       |
| 71) Phenanthrene              | 17.309 | 178  | 340662   | 5.181 | ng    | 99       |
| 72) Anthracene                | 17.404 | 178  | 321862   | 5.036 | ng    | 99       |
| 73) Carbazole                 | 17.674 | 167  | 296957   | 4.581 | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.245 | 149  | 275640   | 4.176 | ng    | 100      |
| 75) Fluoranthene              | 19.327 | 202  | 336247   | 4.705 | ng    | 98       |
| 77) Benzidine                 | 19.515 | 184  | 125144   | 6.773 | ng    | 99       |
| 78) Pyrene                    | 19.686 | 202  | 351040   | 5.101 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.592 | 149  | 89866    | 3.658 | ng    | 96       |
| 81) Benzo(a)anthracene        | 21.433 | 228  | 328364   | 4.929 | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.368 | 252  | 96977    | 6.214 | ng    | 98       |
| 83) Chrysene                  | 21.480 | 228  | 317611   | 4.996 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.374 | 149  | 129384   | 3.737 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.292 | 149  | 191806   | 3.492 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 26.285 | 276  | 324607   | 4.441 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 23.097 | 252  | 308551   | 5.181 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.144 | 252  | 307691   | 4.993 | ng    | 99       |
| 90) Benzo(a)pyrene            | 23.715 | 252  | 284573   | 5.614 | ng    | 96       |
| 91) Dibenzo(a,h)anthracene    | 26.315 | 278  | 290053   | 4.775 | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 27.050 | 276  | 288671   | 4.819 | ng    | 99       |

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

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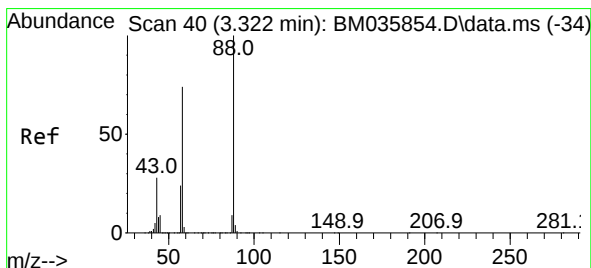
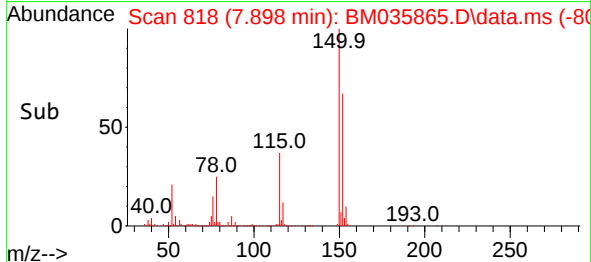
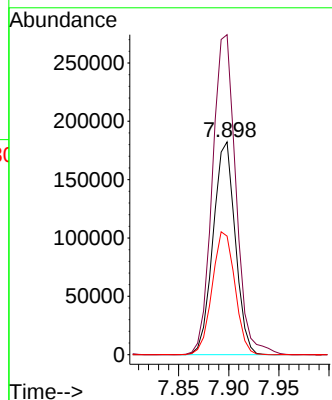
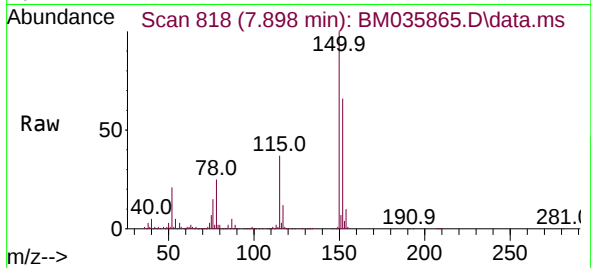




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.898 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

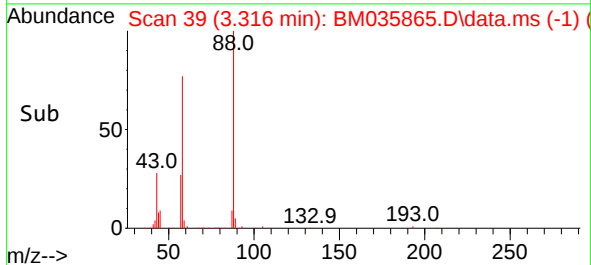
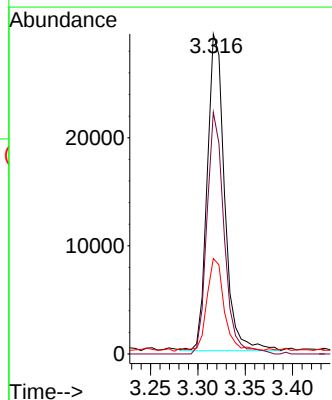
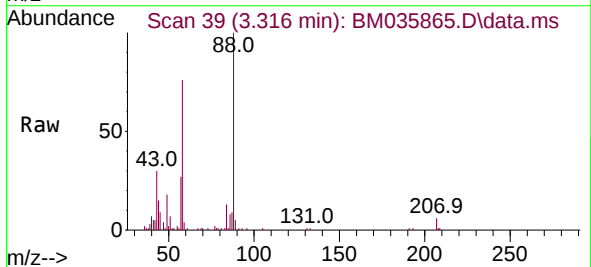
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

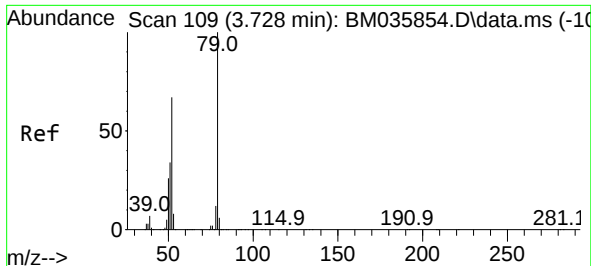
Tgt Ion:152 Resp: 279906  
Ion Ratio Lower Upper  
152 100  
150 150.4 124.9 187.3  
115 55.7 47.9 71.9



#2  
1,4-Dioxane  
Concen: 5.010 ng  
RT: 3.316 min Scan# 39  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion: 88 Resp: 37386  
Ion Ratio Lower Upper  
88 100  
58 75.4 62.3 93.5  
43 29.7 28.7 43.1

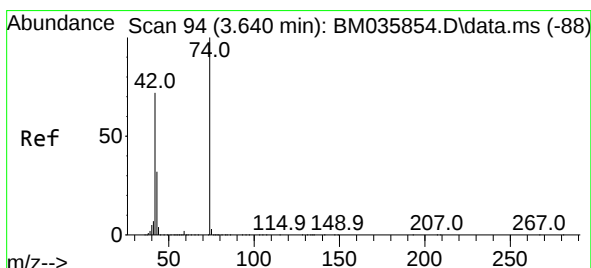
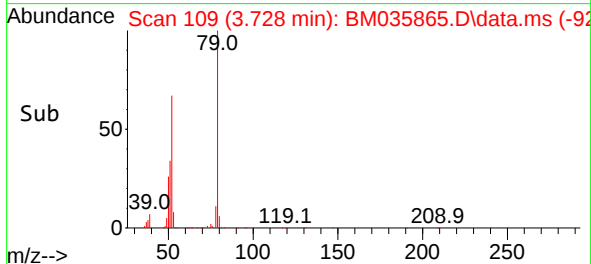
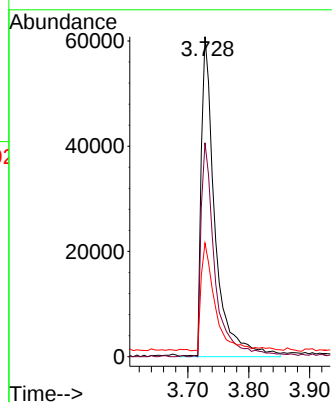
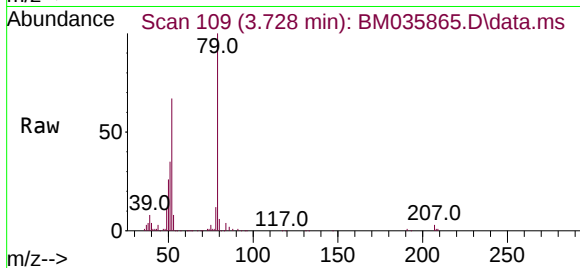




#3  
Pyridine  
Concen: 4.801 ng  
RT: 3.728 min Scan# 109  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

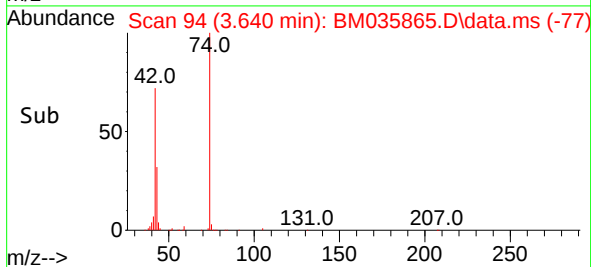
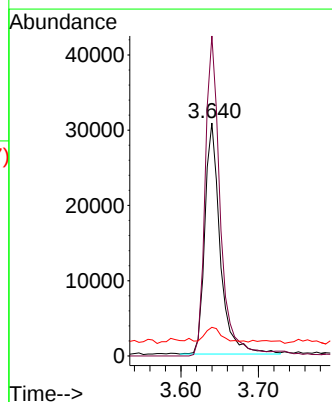
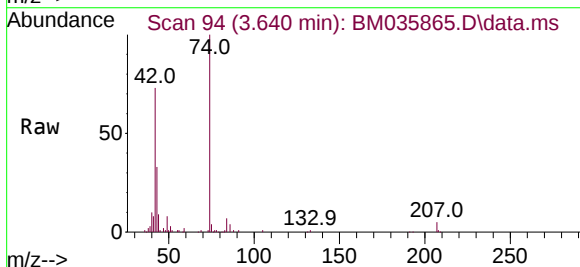
Instrument :  
BNA\_M  
ClientSampleId :  
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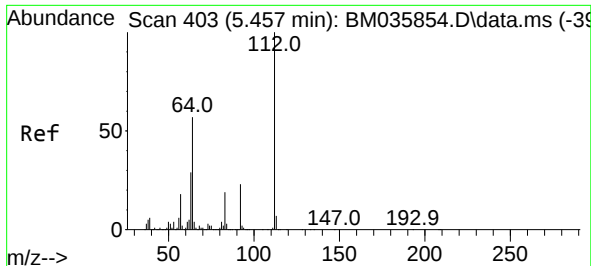
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 79    | Resp: | 95220 |
| Ion      | Ratio | Lower | Upper |
| 79       | 100   |       |       |
| 52       | 66.8  | 61.9  | 92.9  |
| 51       | 35.5  | 33.5  | 50.3  |



#4  
n-Nitrosodimethylamine  
Concen: 5.093 ng  
RT: 3.640 min Scan# 94  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 42    | Resp: | 42213  |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 74       | 137.4 | 81.6  | 122.4# |
| 44       | 12.3  | 5.2   | 7.8#   |

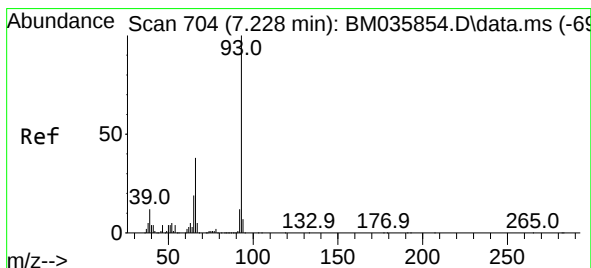
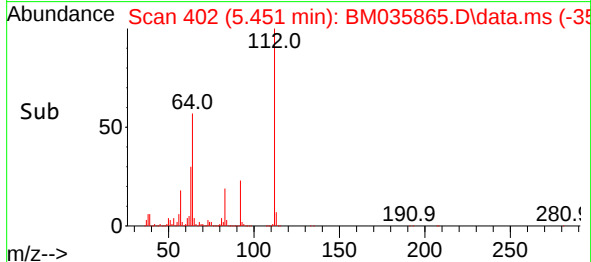
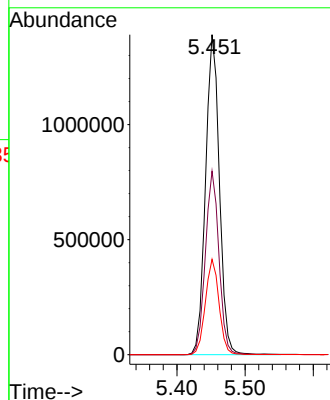
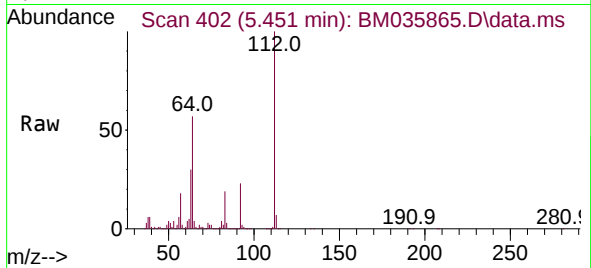




#5  
2-Fluorophenol  
Concen: 108.850 ng  
RT: 5.451 min Scan# 403  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

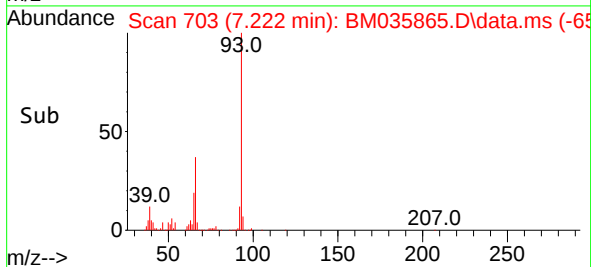
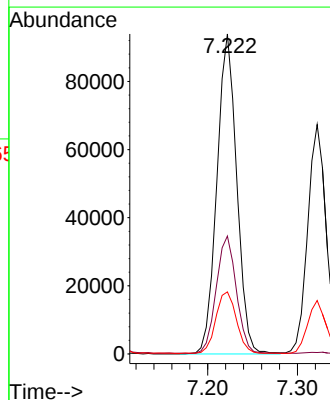
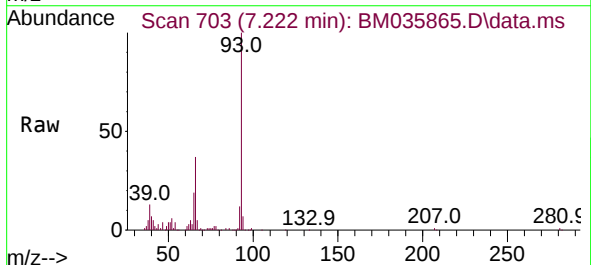
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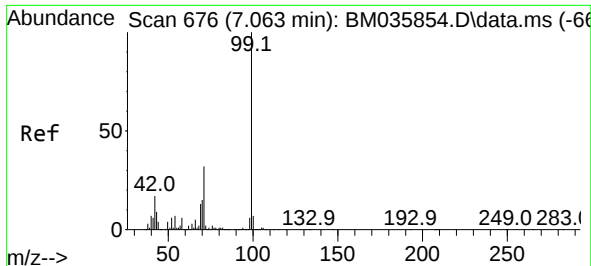
Tgt Ion:112 Resp: 1965289  
Ion Ratio Lower Upper  
112 100  
64 57.3 47.8 71.6  
63 29.8 26.6 40.0



#6  
Aniline  
Concen: 5.785 ng  
RT: 7.222 min Scan# 703  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion: 93 Resp: 144226  
Ion Ratio Lower Upper  
93 100  
66 36.8 32.6 49.0  
65 19.4 16.8 25.2

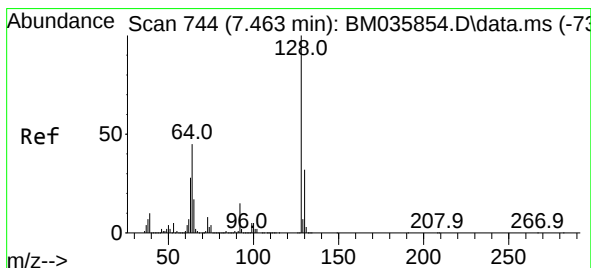
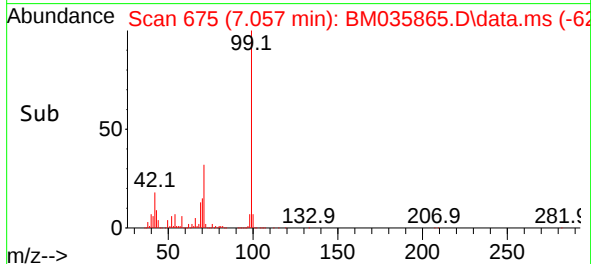
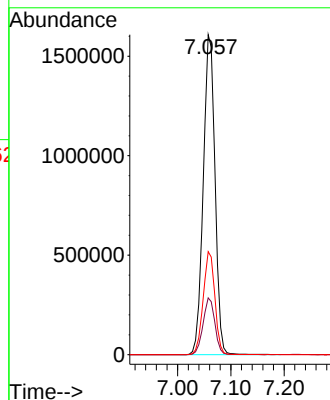
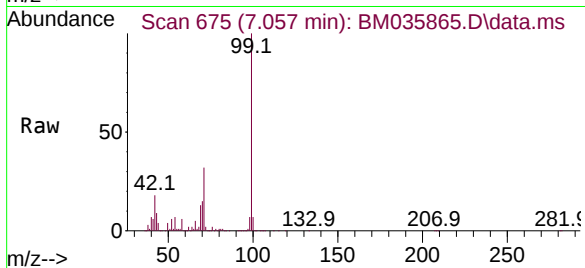




#7  
Phenol-d6  
Concen: 108.564 ng  
RT: 7.057 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

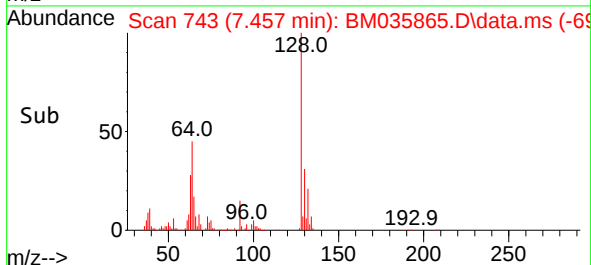
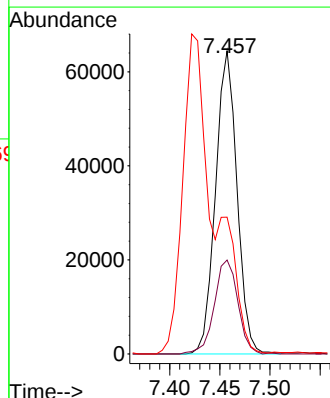
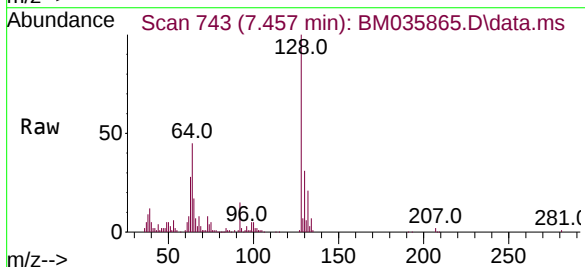
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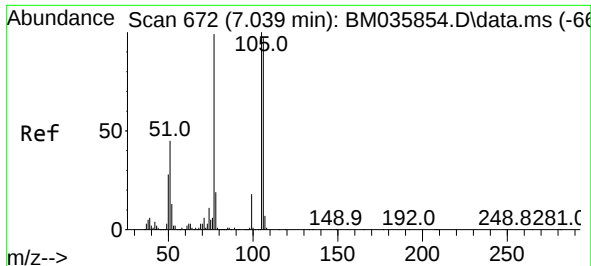
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Ion Ratio Lower Upper  
99 100  
42 17.7 18.8 28.2#  
71 32.2 30.2 45.2



#8  
2-Chlorophenol  
Concen: 5.141 ng  
RT: 7.457 min Scan# 743  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion: 128 Resp: 95921  
Ion Ratio Lower Upper  
128 100  
130 31.0 10.9 50.9  
64 45.2 28.2 68.2

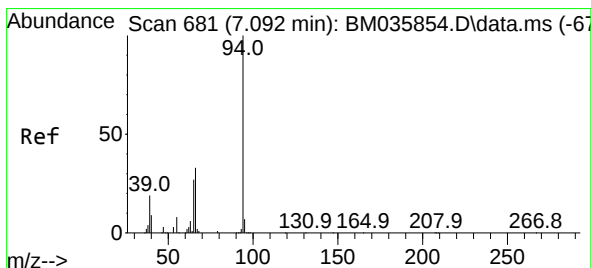
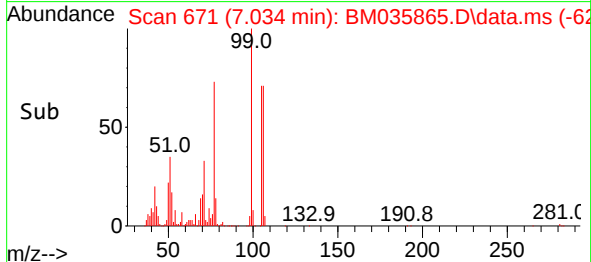
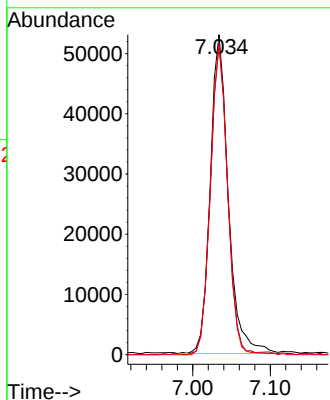
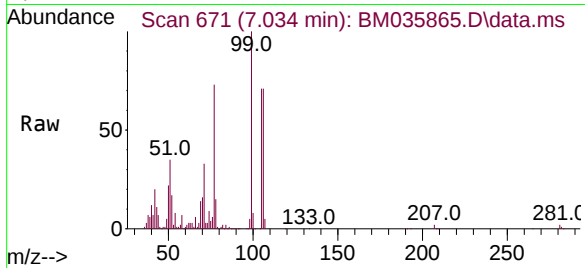




#9  
Benzaldehyde  
Concen: 6.753 ng  
RT: 7.034 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

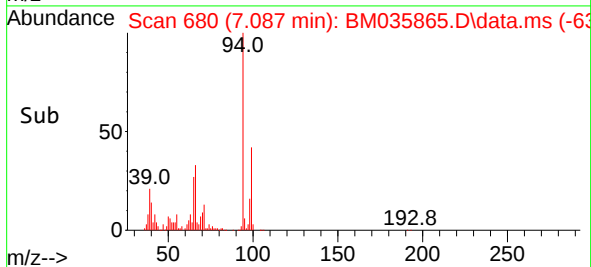
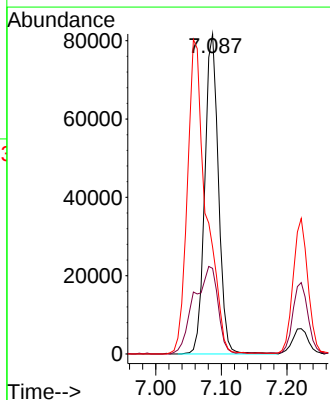
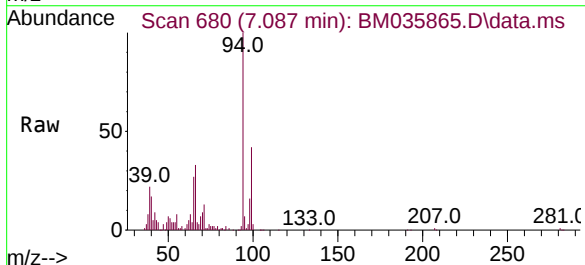
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

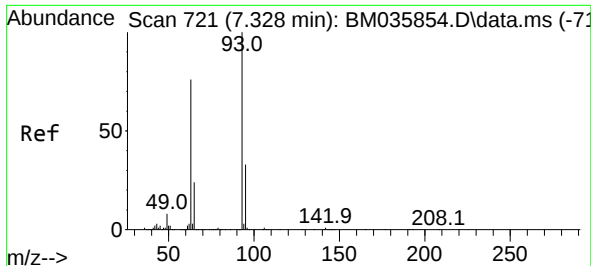
Tgt Ion: 77 Resp: 86133  
Ion Ratio Lower Upper  
77 100  
105 97.3 76.3 116.3  
106 96.6 69.0 109.0



#10  
Phenol  
Concen: 5.197 ng  
RT: 7.087 min Scan# 680  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion: 94 Resp: 118840  
Ion Ratio Lower Upper  
94 100  
65 26.8 11.4 51.4  
66 33.4 21.4 61.4

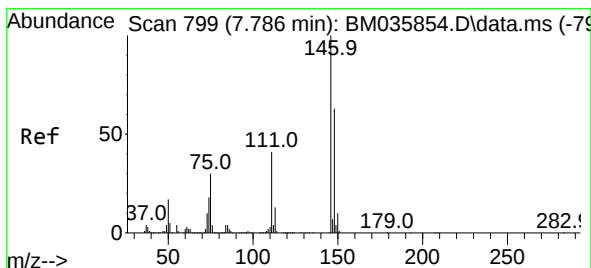
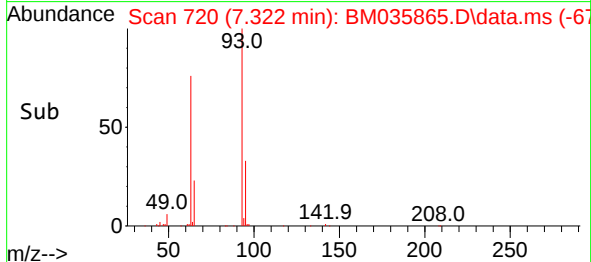
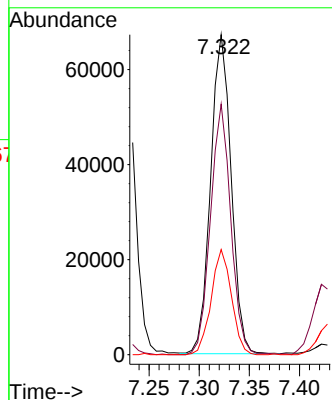
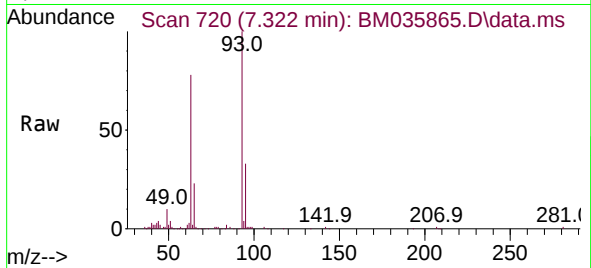




#11  
bis(2-Chloroethyl)ether  
Concen: 5.179 ng  
RT: 7.322 min Scan# 719  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

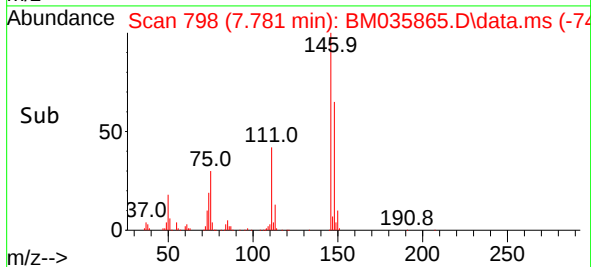
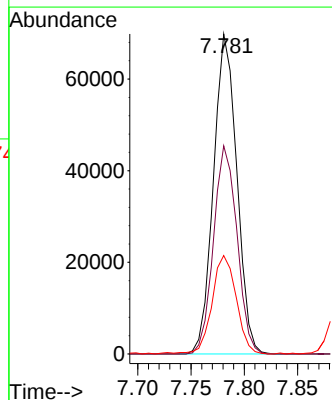
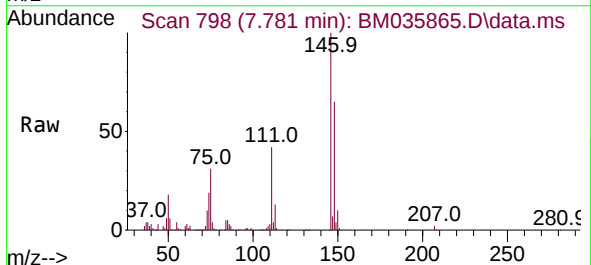
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

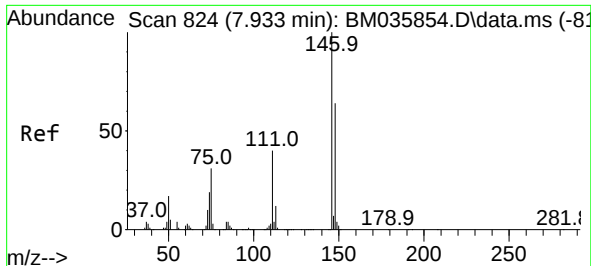
Tgt Ion: 93 Resp: 95550  
Ion Ratio Lower Upper  
93 100  
63 78.3 60.6 100.6  
95 32.8 13.2 53.2



#12  
1,3-Dichlorobenzene  
Concen: 5.105 ng  
RT: 7.781 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion: 146 Resp: 106243  
Ion Ratio Lower Upper  
146 100  
148 65.0 50.7 76.1  
75 30.8 26.1 39.1

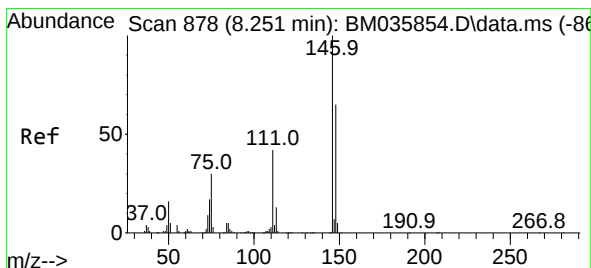
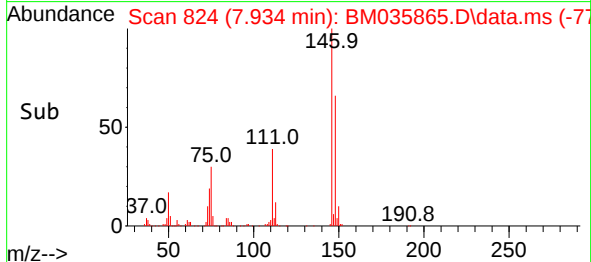
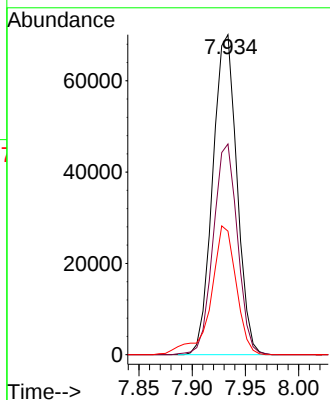
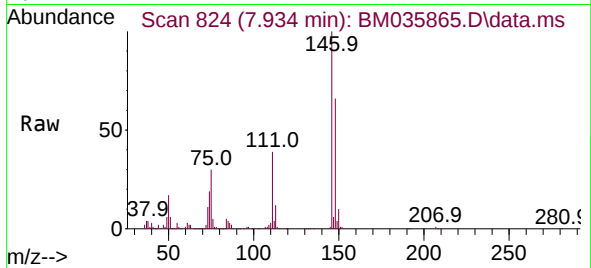




#13  
1,4-Dichlorobenzene  
Concen: 5.220 ng  
RT: 7.934 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

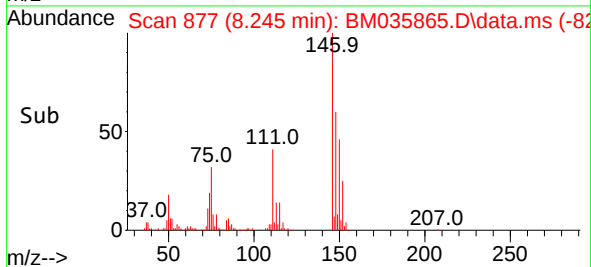
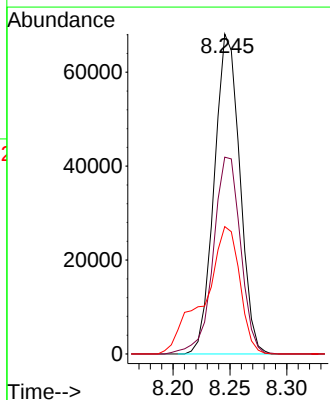
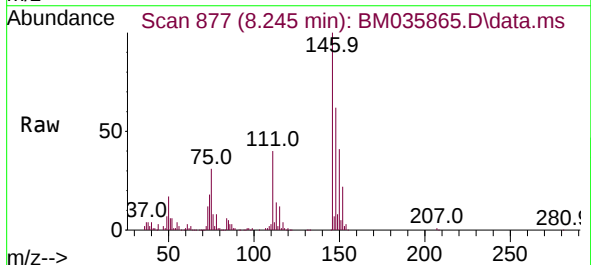
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

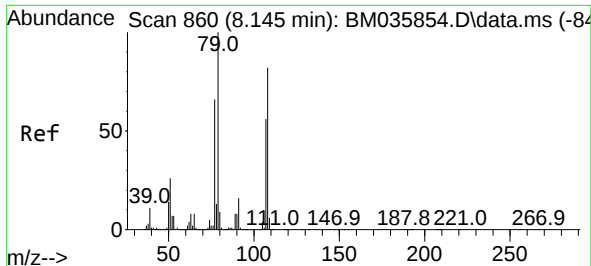
Tgt Ion:146 Resp: 110596  
Ion Ratio Lower Upper  
146 100  
148 65.8 51.5 77.3  
111 38.6 32.5 48.7



#14  
1,2-Dichlorobenzene  
Concen: 5.191 ng  
RT: 8.245 min Scan# 877  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:146 Resp: 106376  
Ion Ratio Lower Upper  
146 100  
148 61.5 50.7 76.1  
111 39.8 33.9 50.9

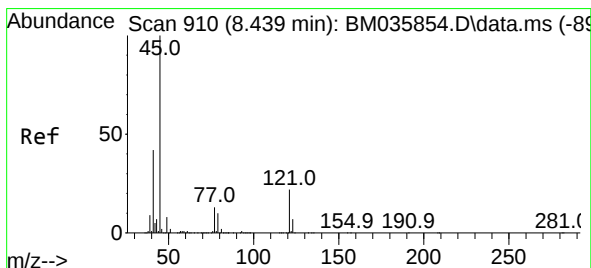
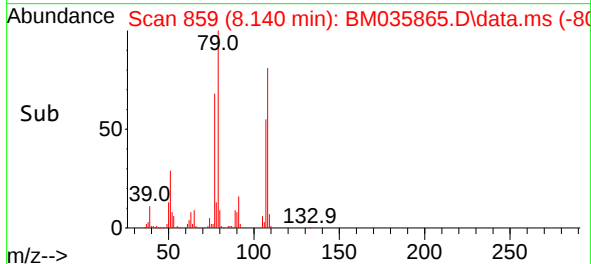
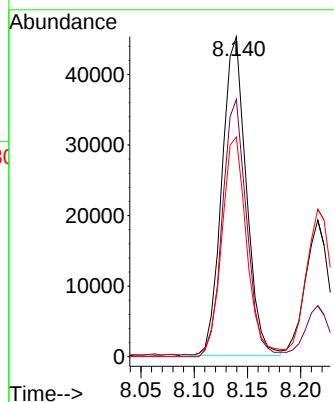
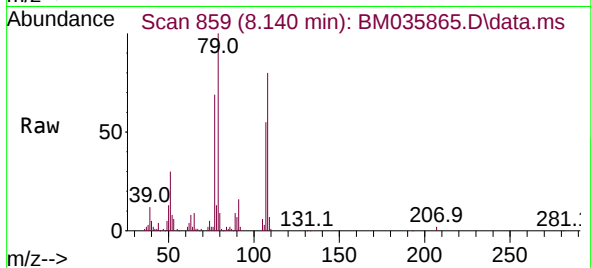




#15  
Benzyl Alcohol  
Concen: 4.824 ng  
RT: 8.140 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

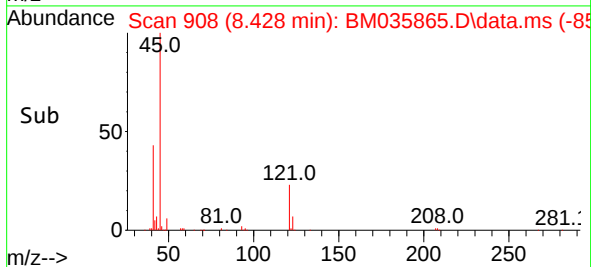
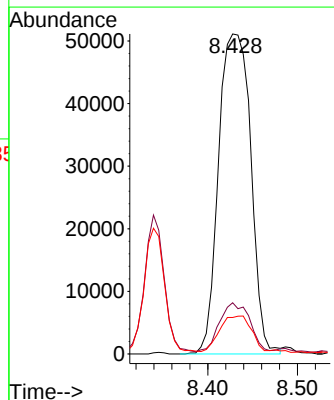
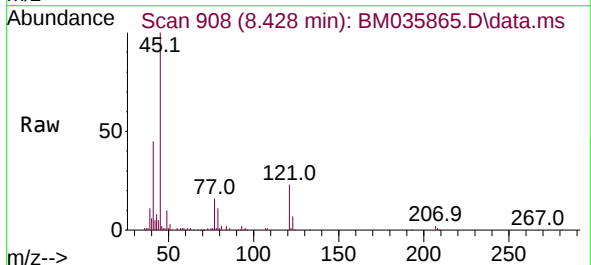
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

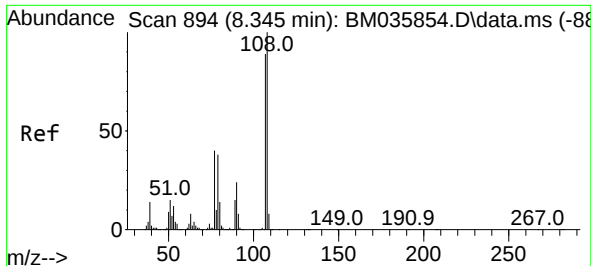
Tgt Ion: 79 Resp: 72166  
Ion Ratio Lower Upper  
79 100  
108 80.4 59.0 88.4  
77 68.7 52.2 78.4



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 5.301 ng  
RT: 8.428 min Scan# 908  
Delta R.T. -0.012 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion: 45 Resp: 127322  
Ion Ratio Lower Upper  
45 100  
77 16.0 0.0 33.1  
79 11.4 0.0 30.5

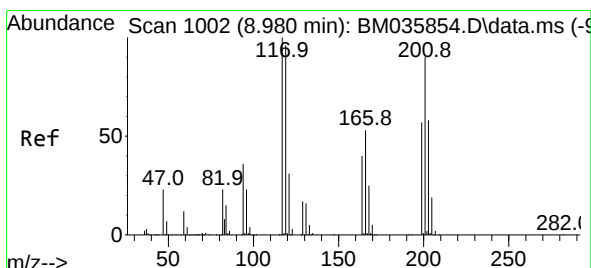
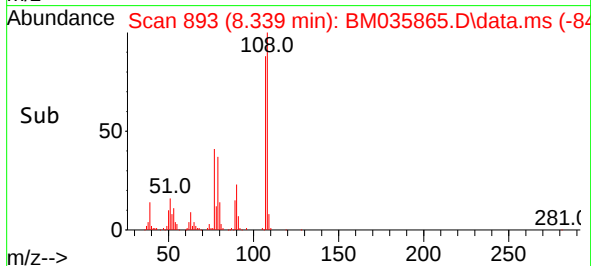
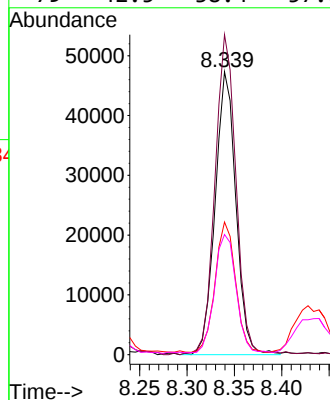
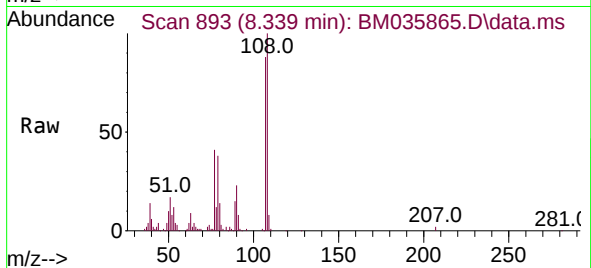




#17  
2-Methylphenol  
Concen: 4.869 ng  
RT: 8.339 min Scan# 894  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

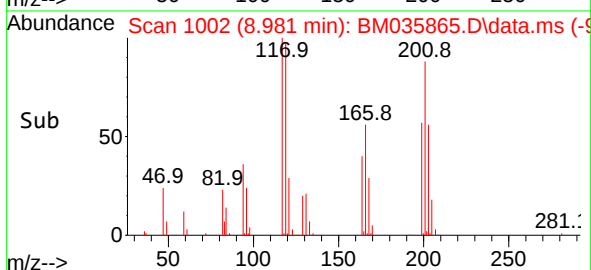
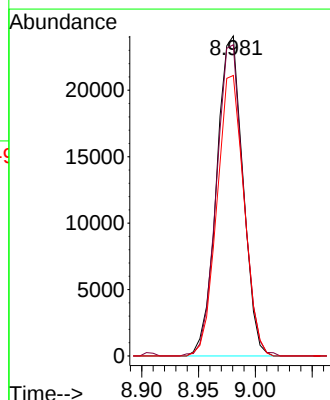
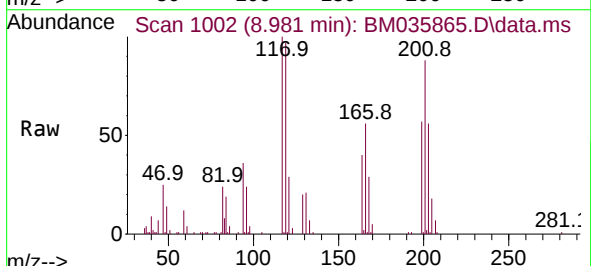
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

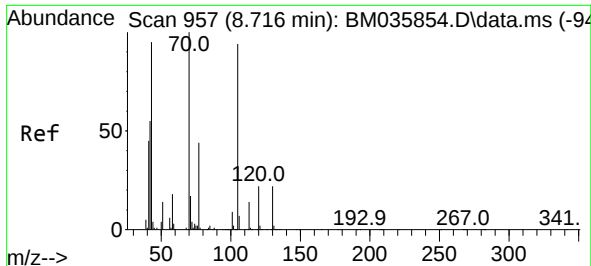
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 107   | Resp: | 72280 |
| Ion Ratio | Lower | Upper |       |
| 107       | 100   |       |       |
| 108       | 113.1 | 88.7  | 133.1 |
| 77        | 46.9  | 40.6  | 60.8  |
| 79        | 42.5  | 38.4  | 57.6  |



#18  
Hexachloroethane  
Concen: 5.096 ng  
RT: 8.981 min Scan# 1002  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 38846 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 97.2  | 75.8  | 113.6 |
| 201       | 89.7  | 81.0  | 121.4 |





#19

n-Nitroso-di-n-propylamine

Concen: 5.144 ng

RT: 8.704 min Scan# 91

Delta R.T. -0.012 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

Tgt Ion: 70 Resp: 67705

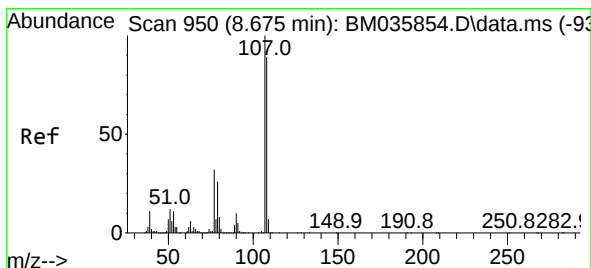
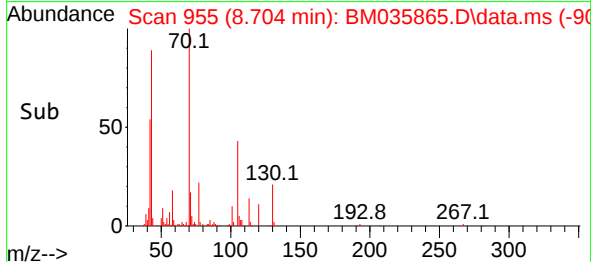
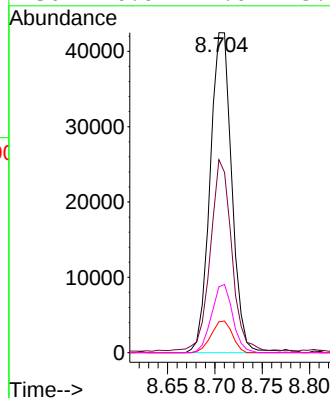
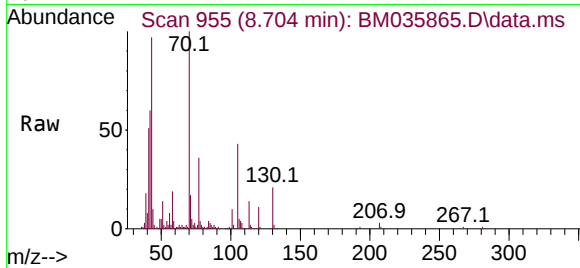
Ion Ratio Lower Upper

70 100

42 60.3 55.4 83.2

101 9.7 7.8 11.6

130 20.6 17.0 25.6



#20

3+4-Methylphenols

Concen: 4.784 ng

RT: 8.669 min Scan# 949

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Tgt Ion: 107 Resp: 95982

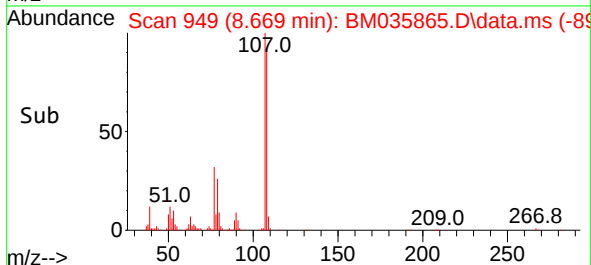
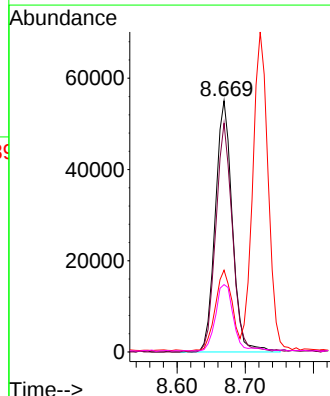
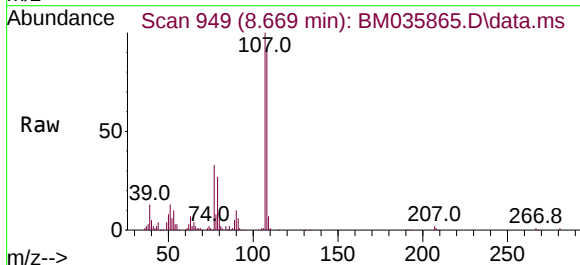
Ion Ratio Lower Upper

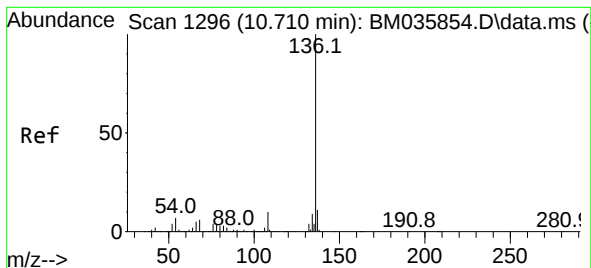
107 100

108 91.1 69.3 109.3

77 32.6 15.8 55.8

79 26.8 12.3 52.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.704 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

Tgt Ion:136 Resp: 1146317

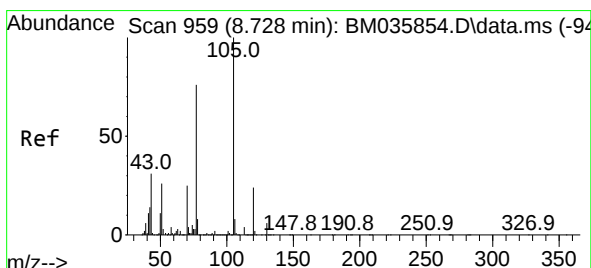
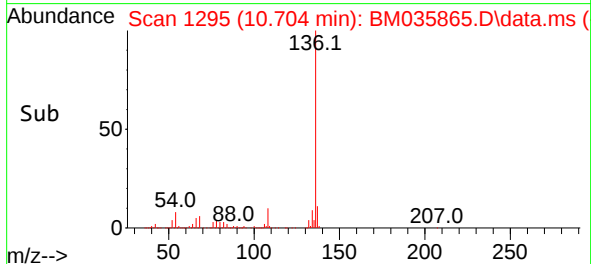
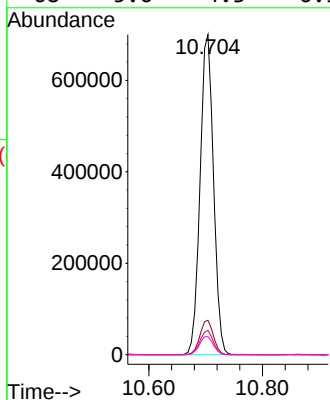
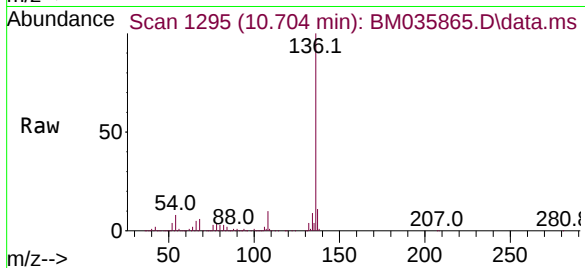
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.5 7.0 10.4

68 5.6 4.3 6.5



#22

Acetophenone

Concen: 5.058 ng

RT: 8.722 min Scan# 958

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Tgt Ion:105 Resp: 143296

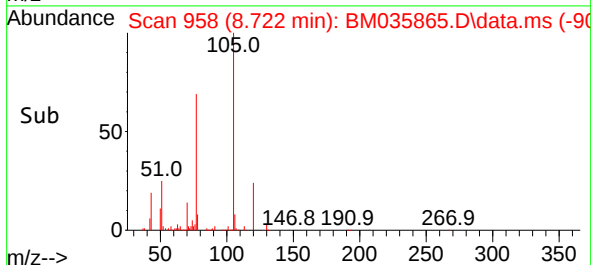
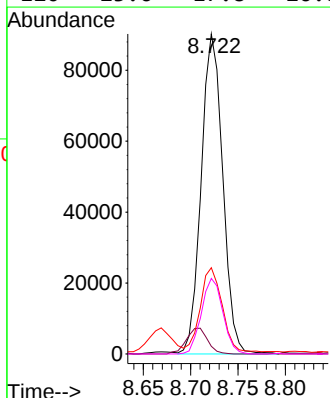
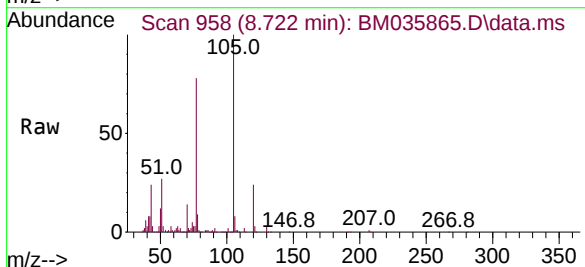
Ion Ratio Lower Upper

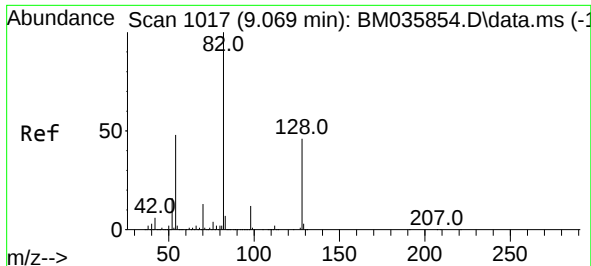
105 100

71 2.4 5.0 7.4#

51 26.9 25.6 38.4

120 23.6 17.8 26.8

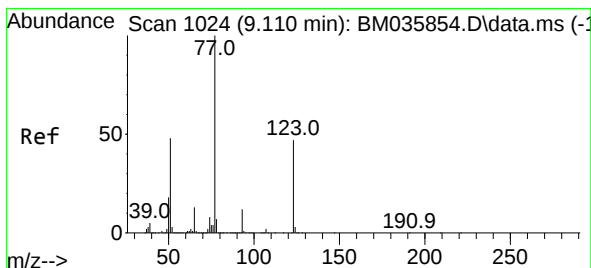
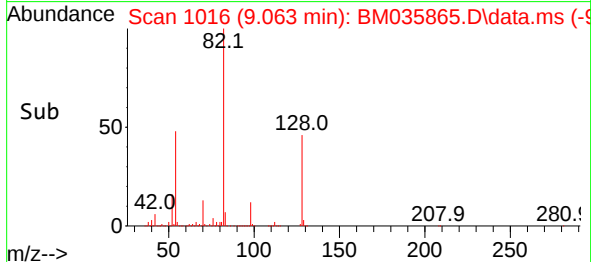
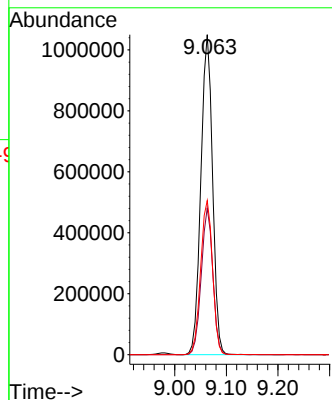
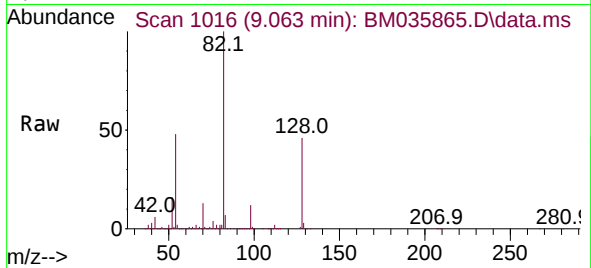




#23  
Nitrobenzene-d5  
Concen: 77.027 ng  
RT: 9.063 min Scan# 1016  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

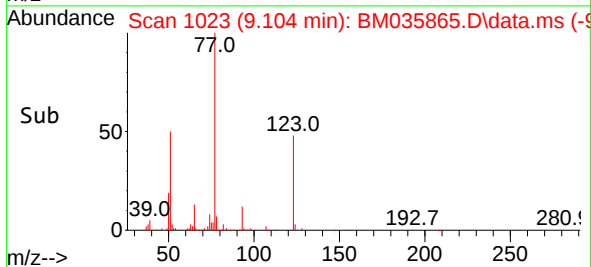
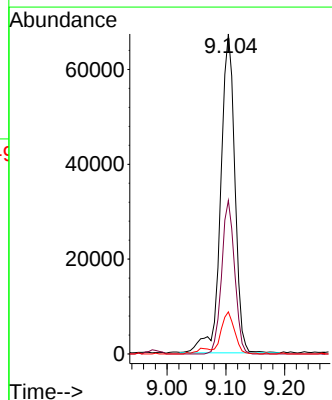
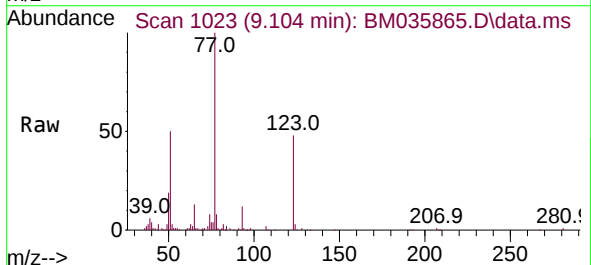
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

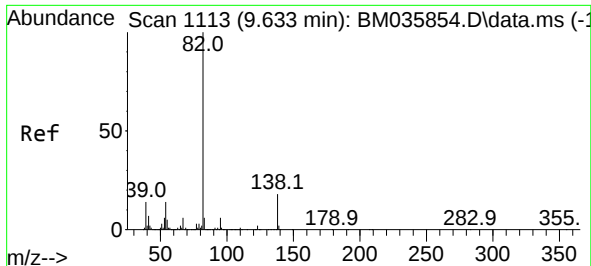
Tgt Ion: 82 Resp: 1650920  
Ion Ratio Lower Upper  
82 100  
128 45.9 33.7 50.5  
54 48.1 43.2 64.8



#24  
Nitrobenzene  
Concen: 5.621 ng  
RT: 9.104 min Scan# 1023  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion: 77 Resp: 113156  
Ion Ratio Lower Upper  
77 100  
123 48.0 36.2 54.4  
65 13.2 11.4 17.0





#25

Isophorone

Concen: 5.426 ng

RT: 9.628 min Scan# 1112

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

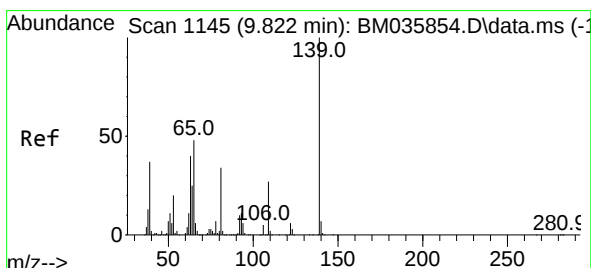
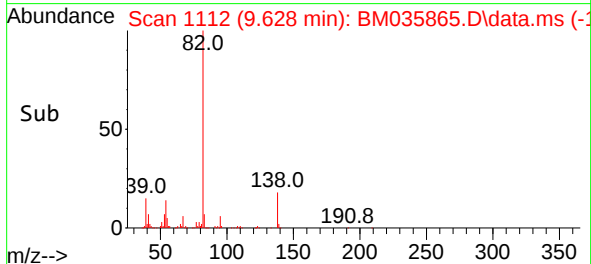
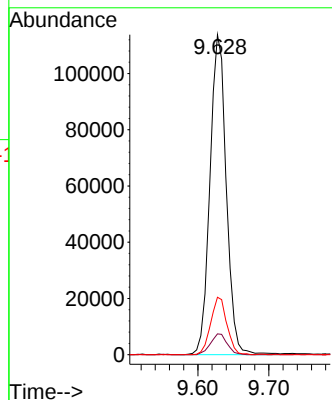
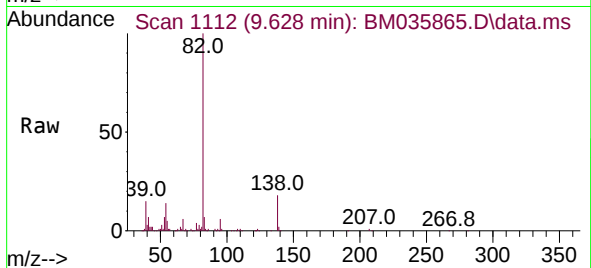
Tgt Ion: 82 Resp: 181929

Ion Ratio Lower Upper

82 100

95 6.5 6.4 9.6

138 18.0 14.2 21.4



#26

2-Nitrophenol

Concen: 4.004 ng

RT: 9.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

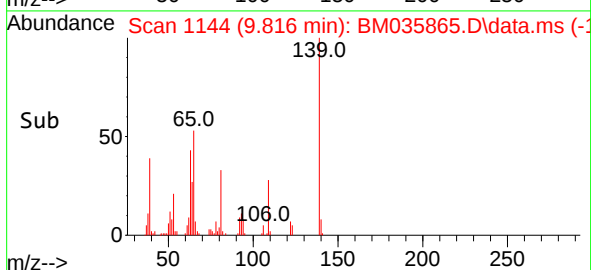
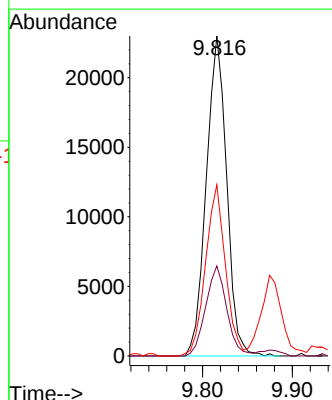
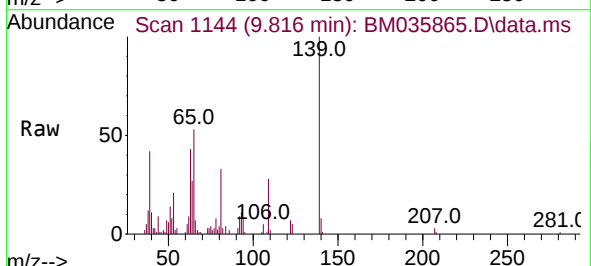
Tgt Ion:139 Resp: 36307

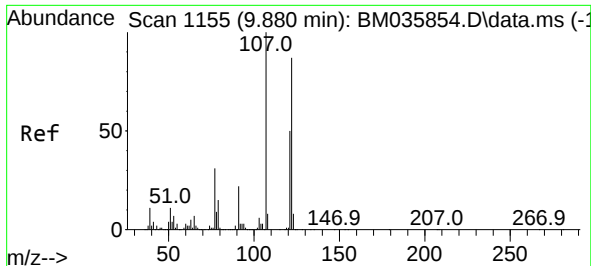
Ion Ratio Lower Upper

139 100

109 28.1 25.6 38.4

65 53.5 43.2 64.8





#27

2,4-Dimethylphenol

Concen: 5.615 ng

RT: 9.875 min Scan# 1154

Delta R.T. -0.006 min

Lab File: BM035865.D

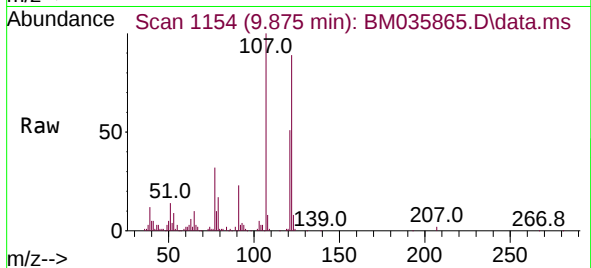
Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022



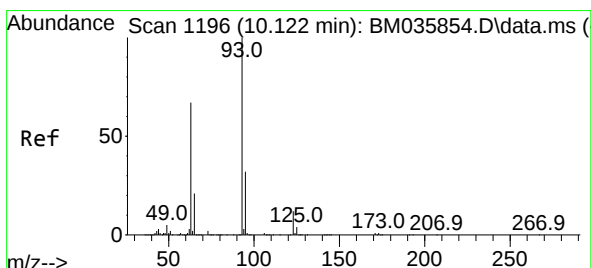
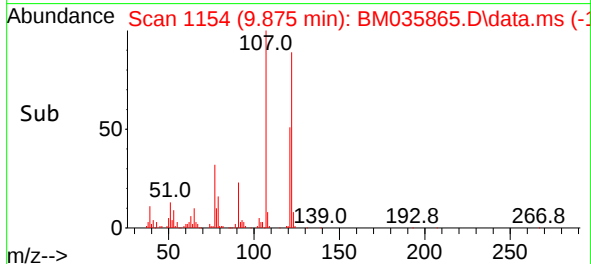
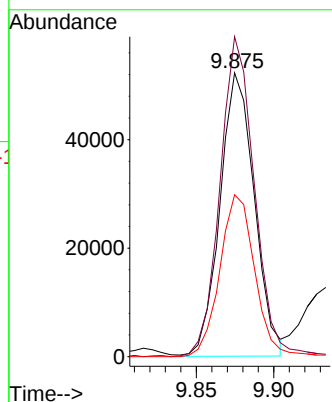
Tgt Ion:122 Resp: 80326

Ion Ratio Lower Upper

122 100

107 112.7 92.4 138.6

121 57.0 47.4 71.0



#28

bis(2-Chloroethoxy)methane

Concen: 5.076 ng

RT: 10.116 min Scan# 1195

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

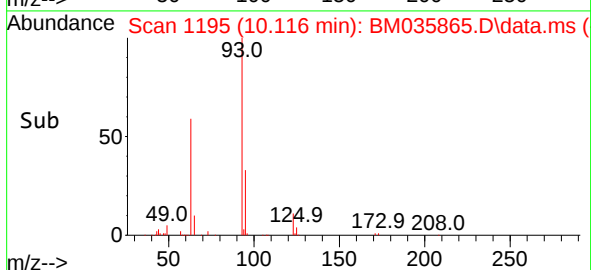
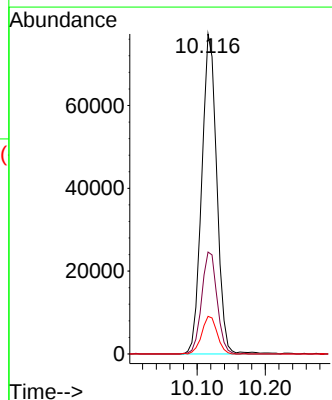
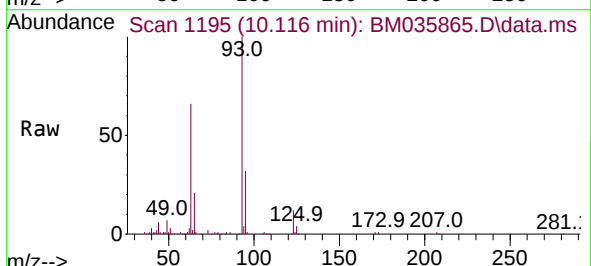
Tgt Ion: 93 Resp: 118452

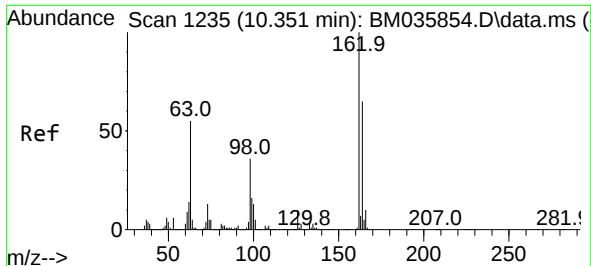
Ion Ratio Lower Upper

93 100

95 31.8 26.1 39.1

123 11.8 9.0 13.4





#29

2,4-Dichlorophenol

Concen: 4.533 ng

RT: 10.345 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM035865.D

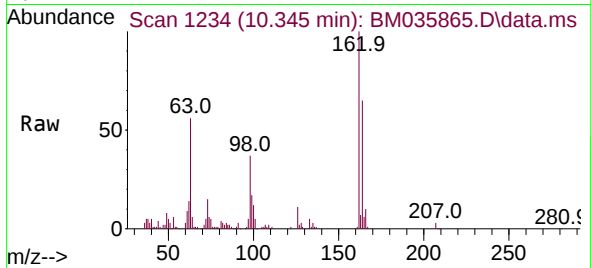
Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022



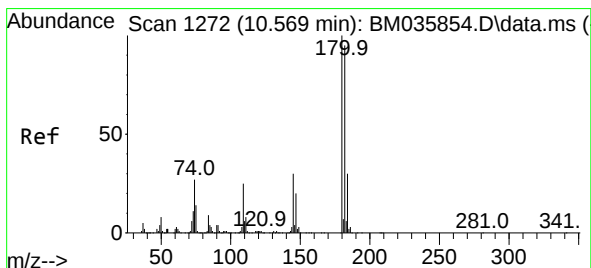
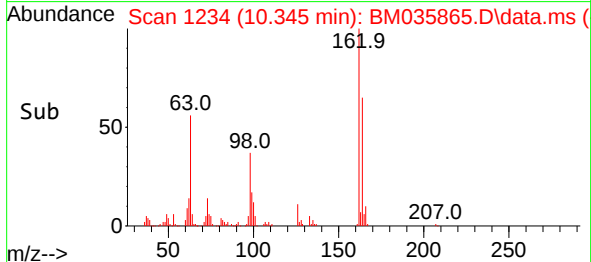
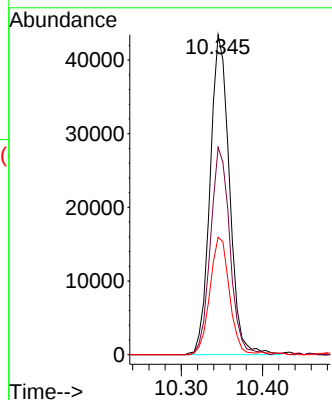
Tgt Ion:162 Resp: 71888

Ion Ratio Lower Upper

162 100

164 64.8 44.2 84.2

98 36.7 15.0 55.0



#30

1,2,4-Trichlorobenzene

Concen: 4.992 ng

RT: 10.563 min Scan# 1271

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

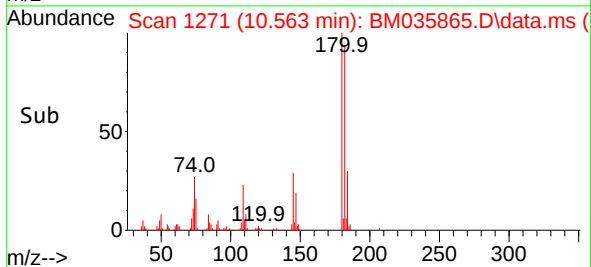
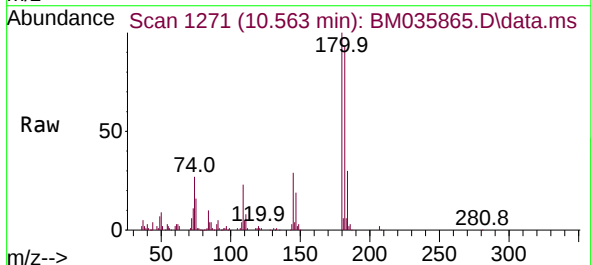
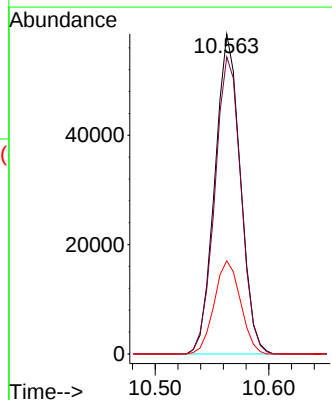
Tgt Ion:180 Resp: 91374

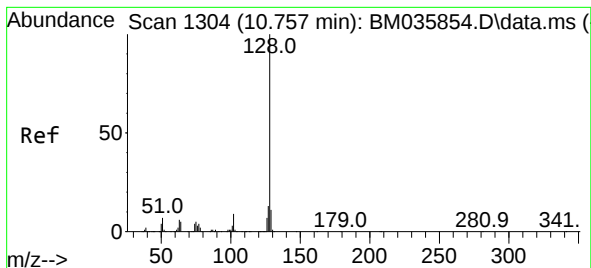
Ion Ratio Lower Upper

180 100

182 92.9 77.9 116.9

145 29.1 25.0 37.6





#31

Naphthalene

Concen: 5.300 ng

RT: 10.751 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

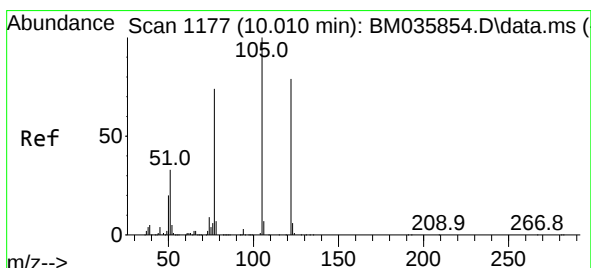
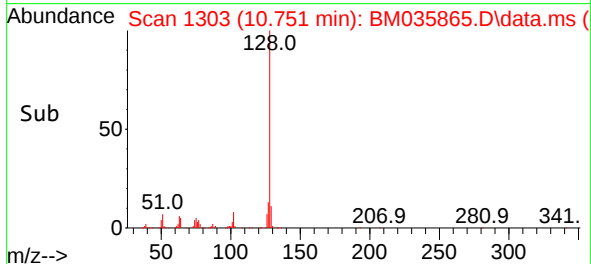
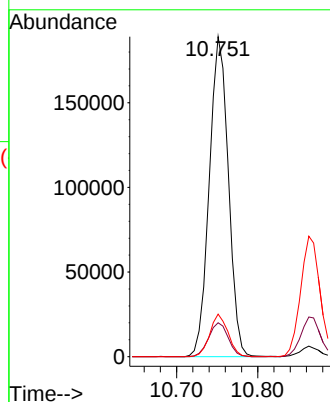
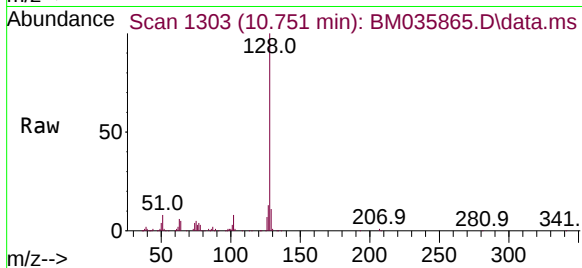
Tgt Ion:128 Resp: 308702

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

127 13.3 10.6 16.0



#32

Benzoic acid

Concen: 2.351 ng

RT: 9.934 min Scan# 1164

Delta R.T. -0.076 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

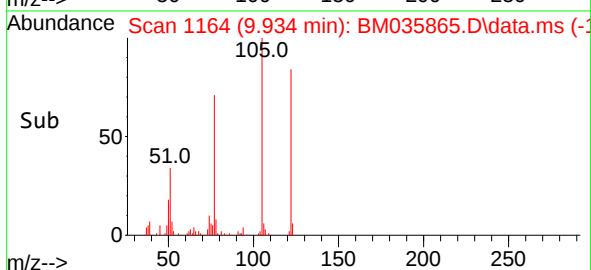
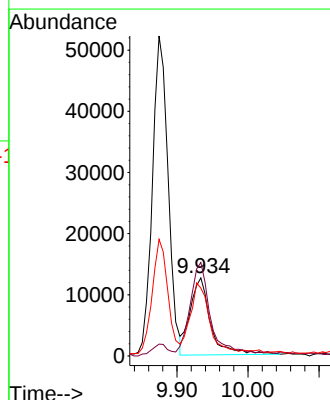
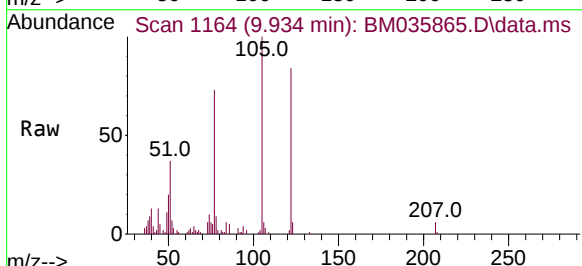
Tgt Ion:122 Resp: 25437

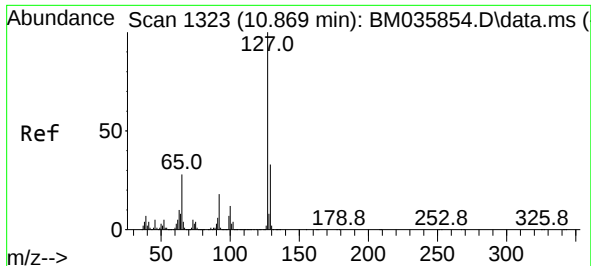
Ion Ratio Lower Upper

122 100

105 119.7 105.7 145.7

77 87.0 80.0 120.0

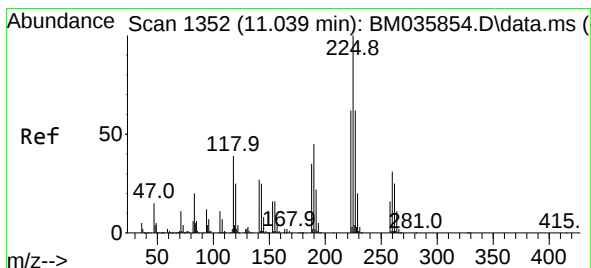
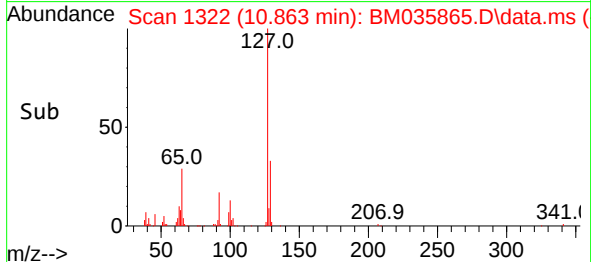
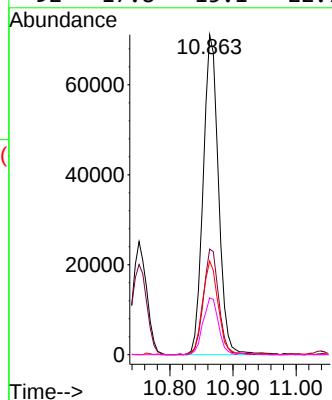
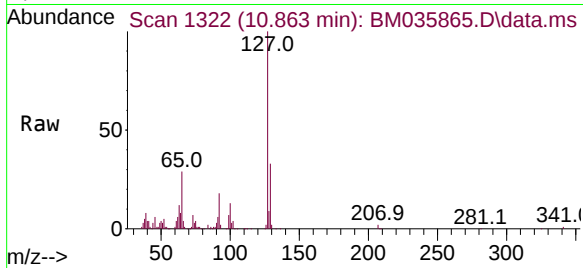




#33  
4-Chloroaniline  
Concen: 5.145 ng  
RT: 10.863 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

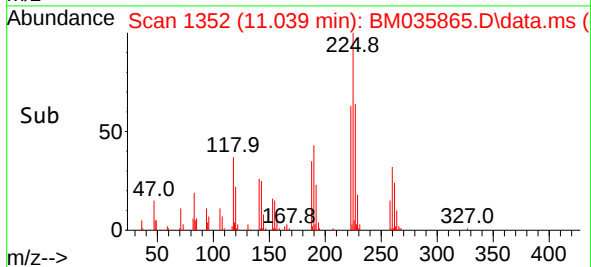
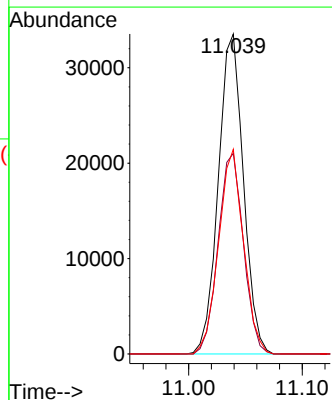
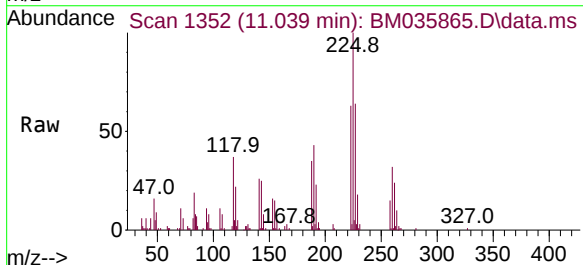
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

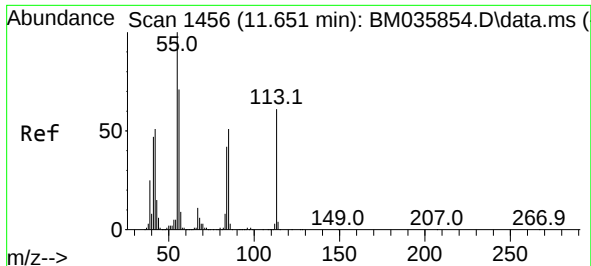
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 119882 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 33.0  | 25.7  | 38.5   |
| 65       | 29.2  | 26.6  | 40.0   |
| 92       | 17.8  | 15.1  | 22.7   |



#34  
Hexachlorobutadiene  
Concen: 4.903 ng  
RT: 11.039 min Scan# 1352  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 51501 |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 62.7  | 50.8  | 76.2  |
| 227      | 64.0  | 52.7  | 79.1  |

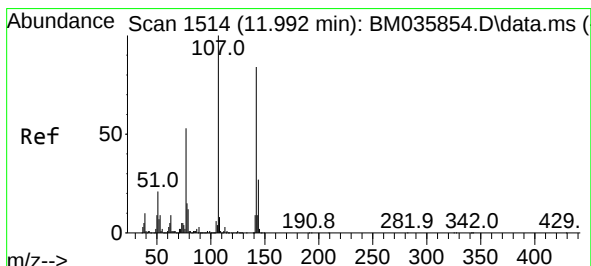
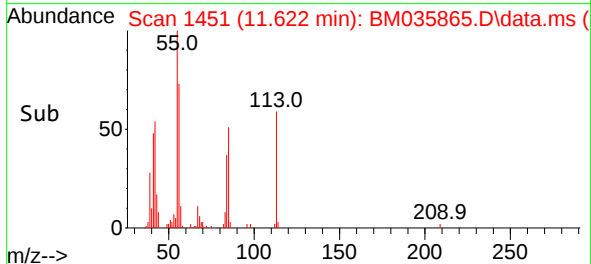
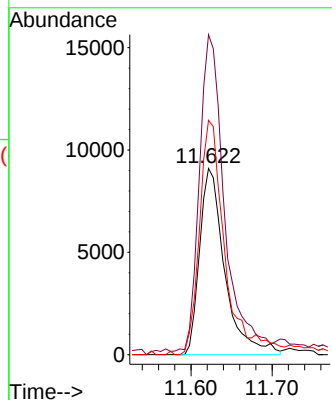
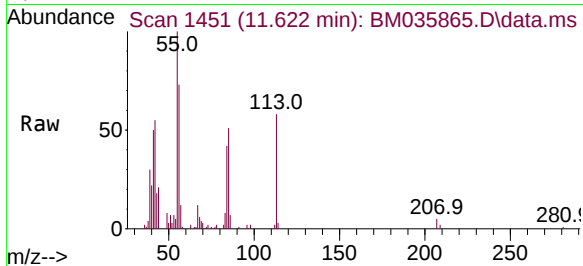




#35  
 Caprolactam  
 Concen: 4.036 ng  
 RT: 11.622 min Scan# 1451  
 Delta R.T. -0.029 min  
 Lab File: BM035865.D  
 Acq: 19 Jul 2022 14:18

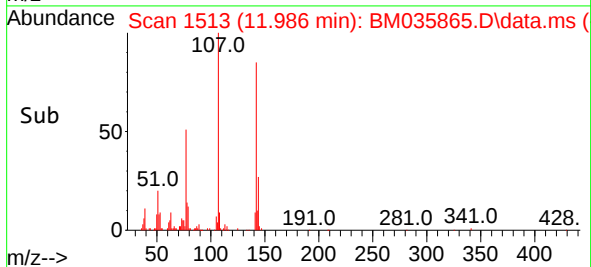
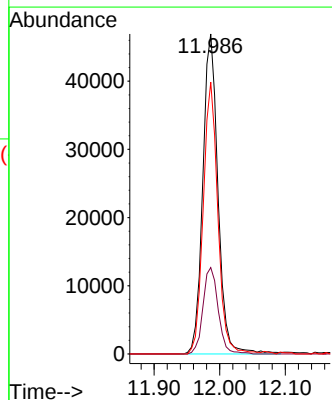
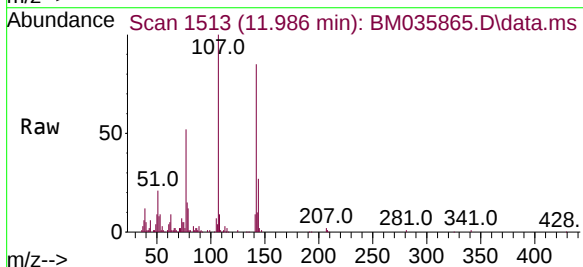
Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2022

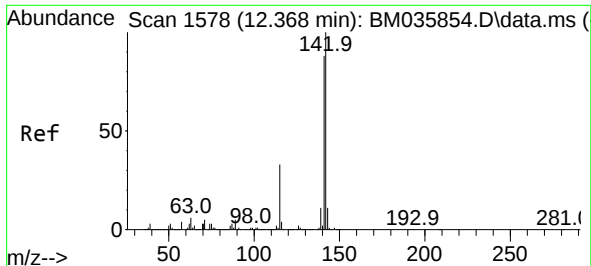
Tgt Ion:113 Resp: 19576  
 Ion Ratio Lower Upper  
 113 100  
 55 171.8 150.1 190.1  
 56 125.8 111.7 151.7



#36  
 4-Chloro-3-methylphenol  
 Concen: 4.667 ng  
 RT: 11.986 min Scan# 1513  
 Delta R.T. -0.006 min  
 Lab File: BM035865.D  
 Acq: 19 Jul 2022 14:18

Tgt Ion:107 Resp: 75893  
 Ion Ratio Lower Upper  
 107 100  
 144 27.0 21.4 32.0  
 142 84.9 66.7 100.1





#37

2-Methylnaphthalene

Concen: 5.191 ng

RT: 12.363 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

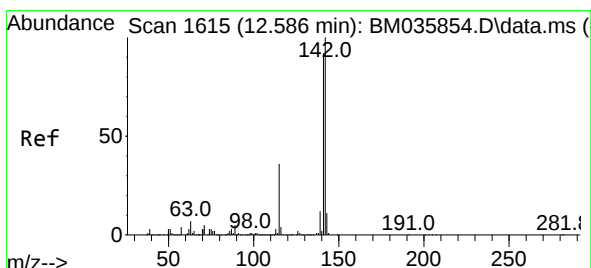
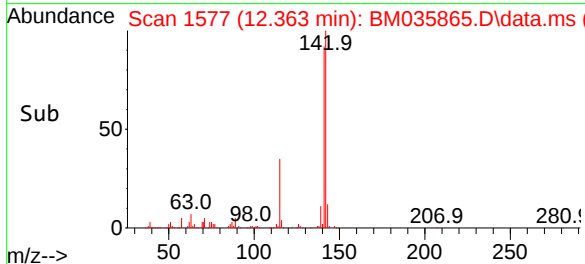
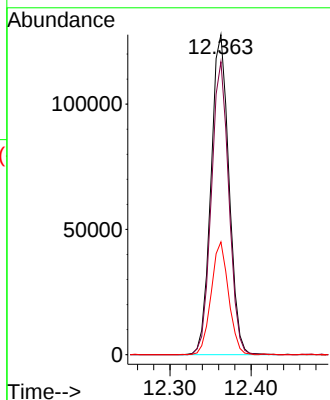
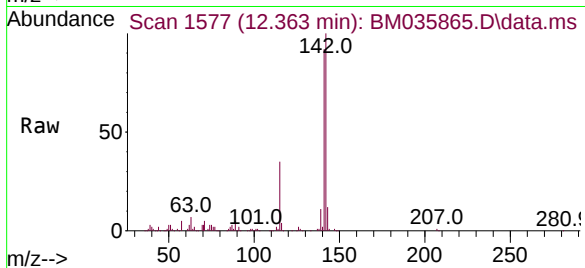
Tgt Ion:142 Resp: 196679

Ion Ratio Lower Upper

142 100

141 91.6 72.4 108.6

115 35.2 29.6 44.4



#38

1-Methylnaphthalene

Concen: 5.174 ng

RT: 12.580 min Scan# 1614

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

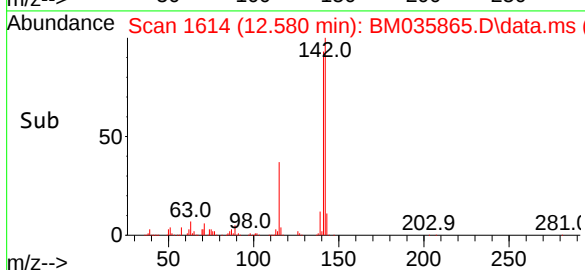
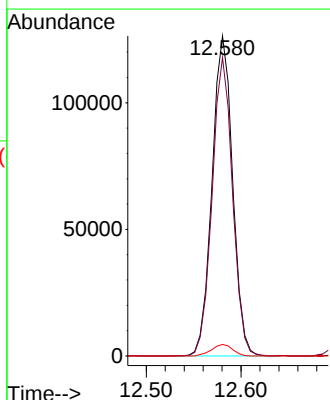
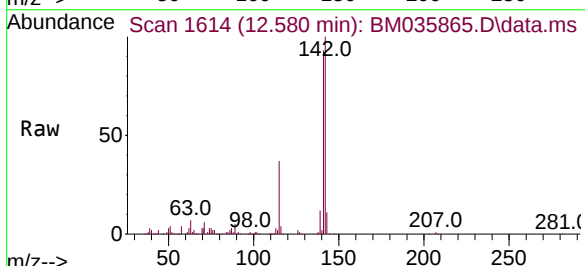
Tgt Ion:142 Resp: 190831

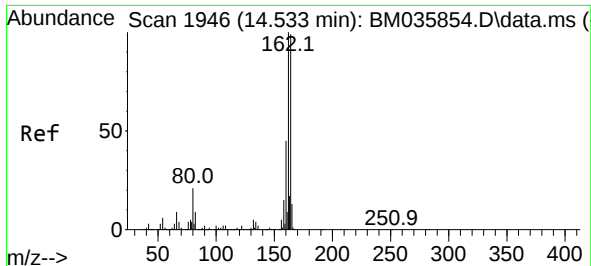
Ion Ratio Lower Upper

142 100

141 93.3 75.0 112.4

116 3.6 3.4 5.2

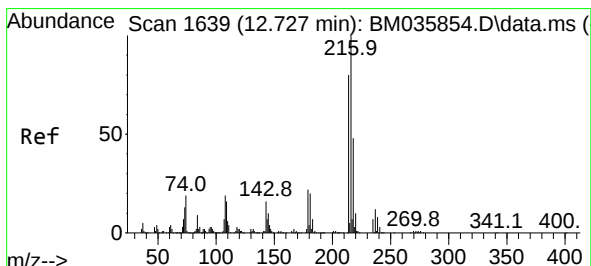
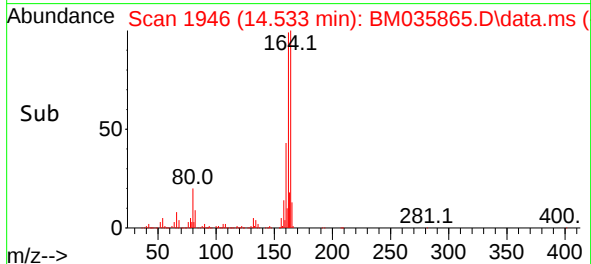
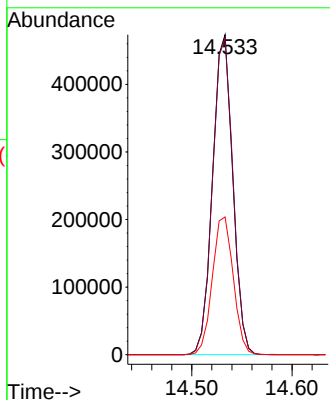
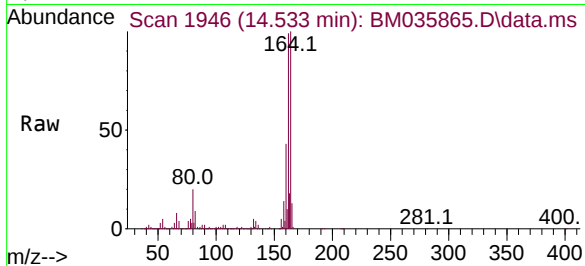




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.533 min Scan# 1946  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

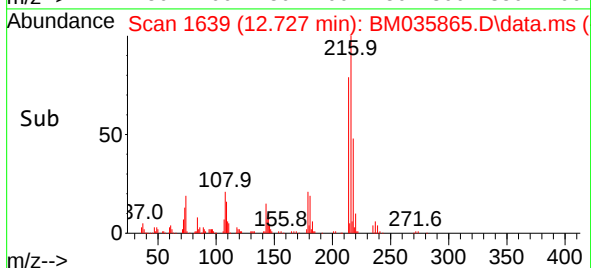
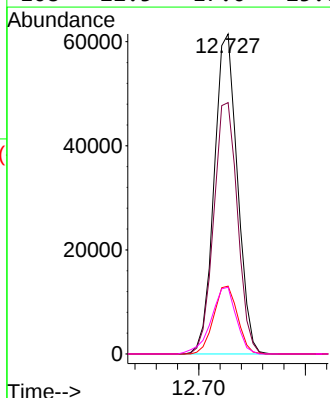
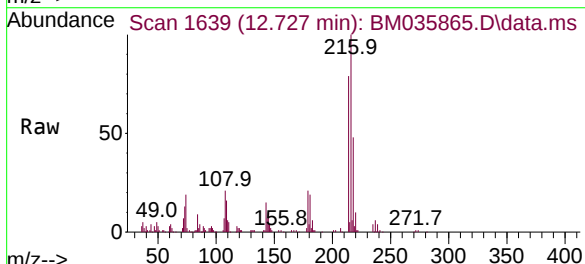
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

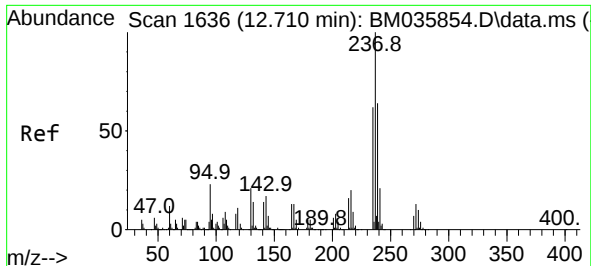
Tgt Ion:164 Resp: 661468  
Ion Ratio Lower Upper  
164 100  
162 98.8 83.0 124.6  
160 43.1 37.0 55.4



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 4.921 ng  
RT: 12.727 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:216 Resp: 92994  
Ion Ratio Lower Upper  
216 100  
214 80.2 62.6 94.0  
179 21.7 18.2 27.2  
108 22.5 17.0 25.6

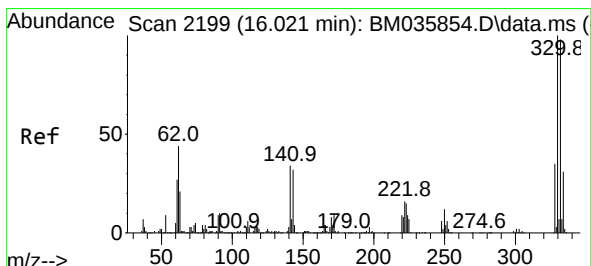
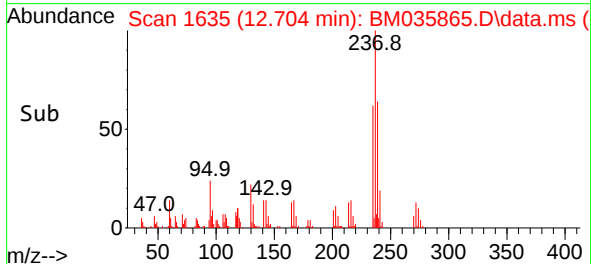
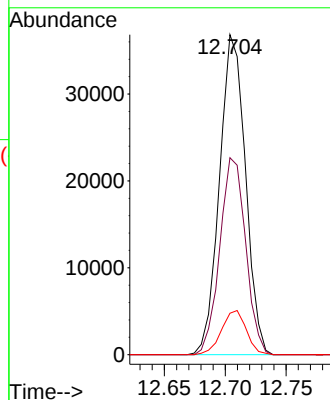
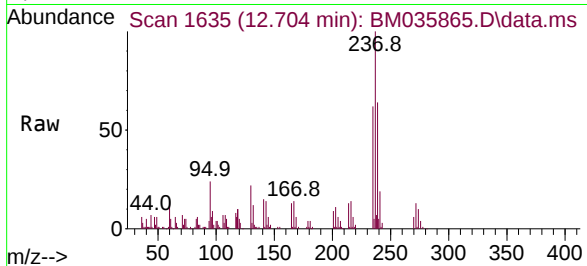




#41  
Hexachlorocyclopentadiene  
Concen: 5.365 ng  
RT: 12.704 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

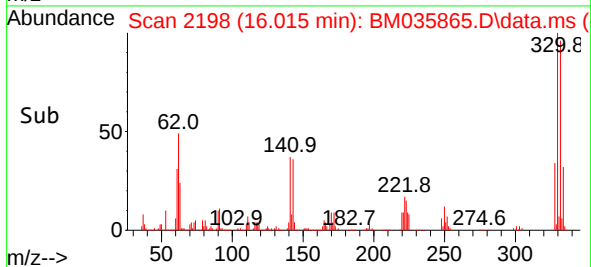
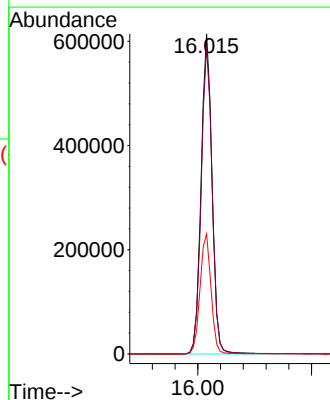
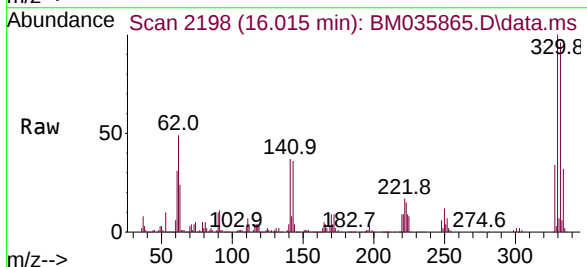
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

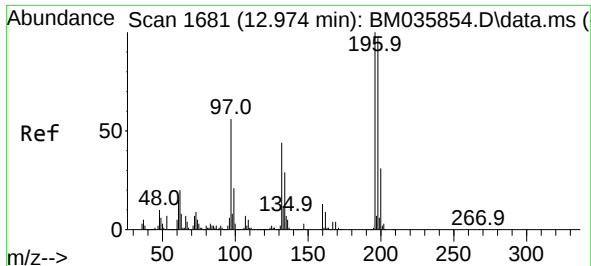
Tgt Ion:237 Resp: 54643  
Ion Ratio Lower Upper  
237 100  
235 61.6 43.8 83.8  
272 13.0 0.0 32.5



#42  
2,4,6-Tribromophenol  
Concen: 111.048 ng  
RT: 16.015 min Scan# 2198  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:330 Resp: 821629  
Ion Ratio Lower Upper  
330 100  
332 96.3 77.0 115.4  
141 37.8 35.3 52.9

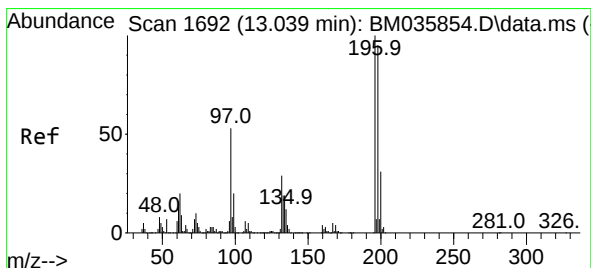
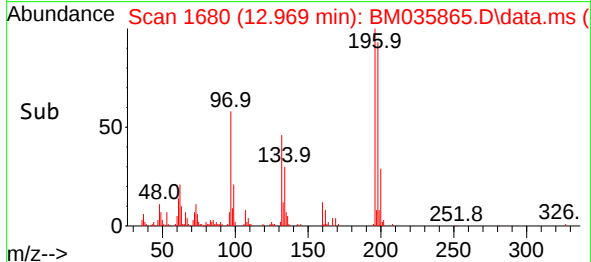
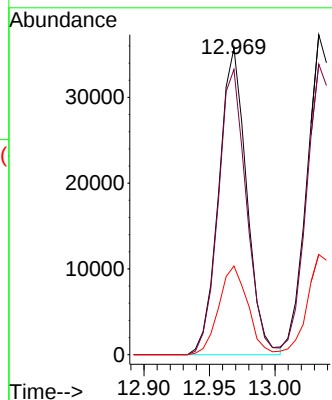
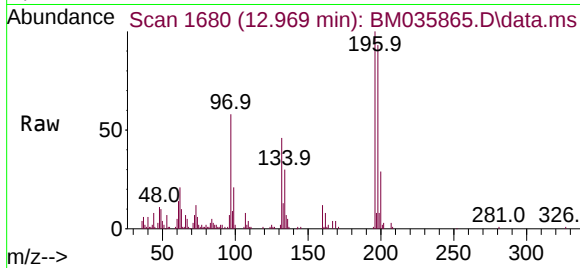




#43  
2,4,6-Trichlorophenol  
Concen: 4.226 ng  
RT: 12.969 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

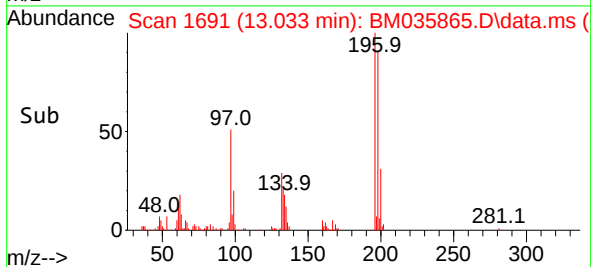
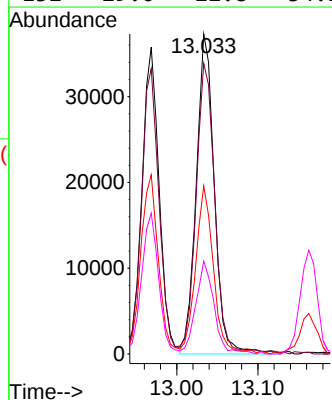
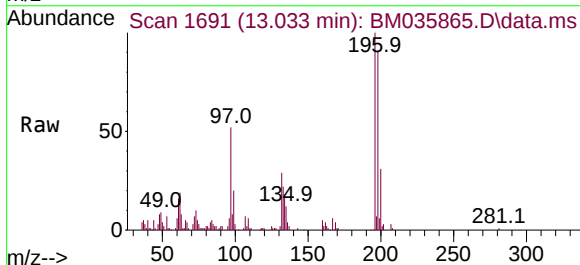
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

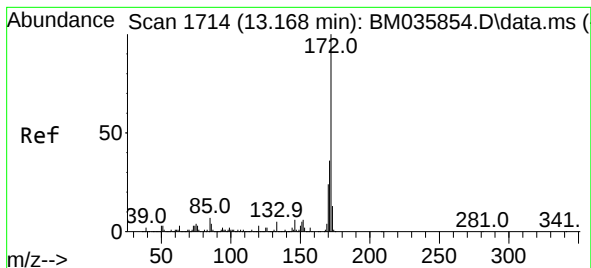
Tgt Ion:196 Resp: 52785  
Ion Ratio Lower Upper  
196 100  
198 93.0 75.8 113.6  
200 28.9 24.9 37.3



#44  
2,4,5-Trichlorophenol  
Concen: 4.406 ng  
RT: 13.033 min Scan# 1691  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:196 Resp: 58036  
Ion Ratio Lower Upper  
196 100  
198 90.8 77.8 116.6  
97 52.5 43.4 65.2  
132 29.0 22.8 34.2





#45

2-Fluorobiphenyl

Concen: 77.581 ng

RT: 13.163 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

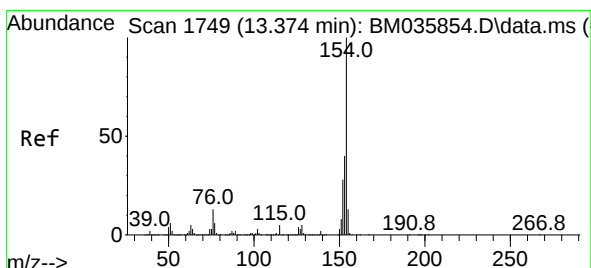
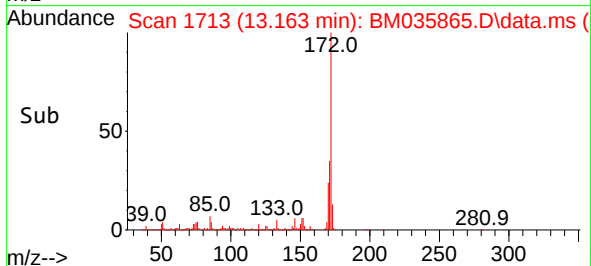
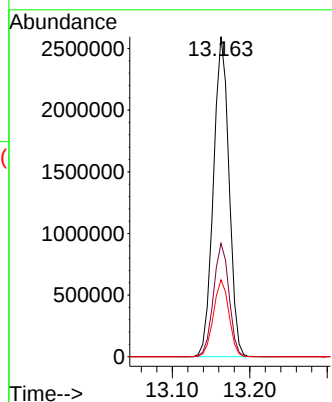
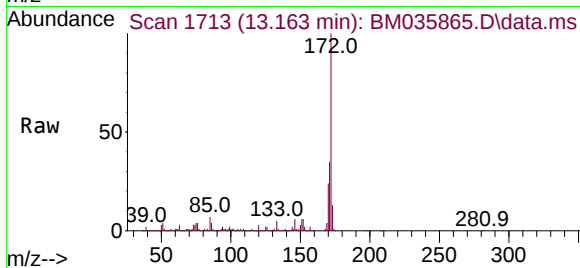
Tgt Ion:172 Resp: 3630483

Ion Ratio Lower Upper

172 100

171 35.4 28.5 42.7

170 24.0 18.7 28.1



#46

1,1'-Biphenyl

Concen: 5.248 ng

RT: 13.369 min Scan# 1748

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

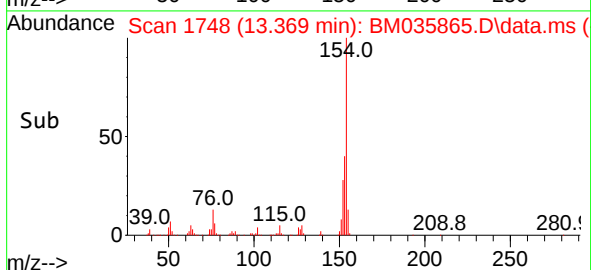
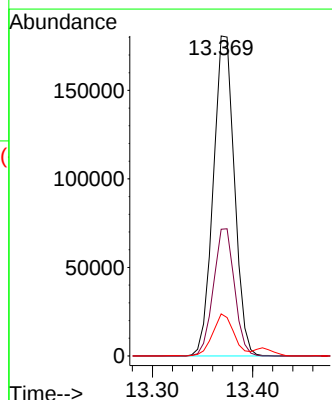
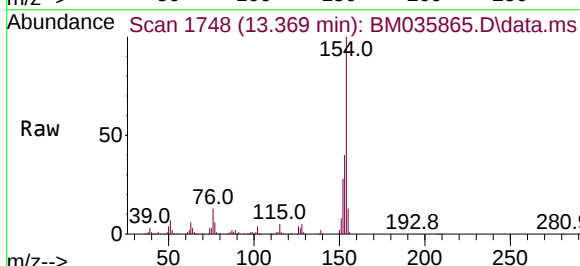
Tgt Ion:154 Resp: 264057

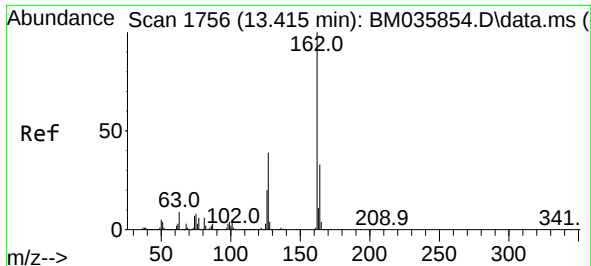
Ion Ratio Lower Upper

154 100

153 39.6 20.5 60.5

76 13.2 0.0 31.8

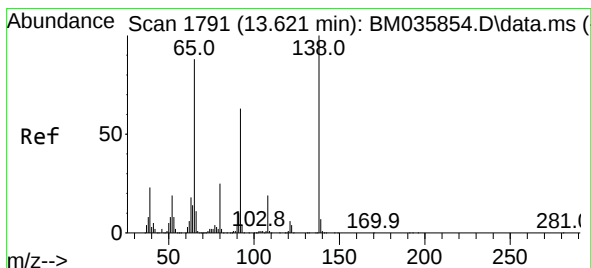
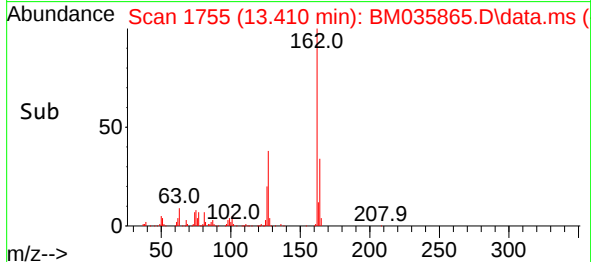
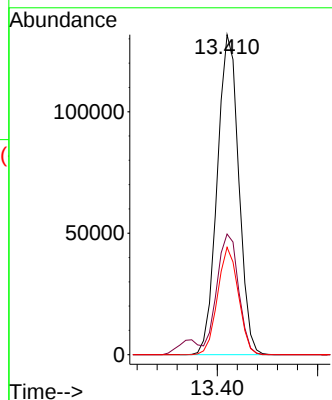
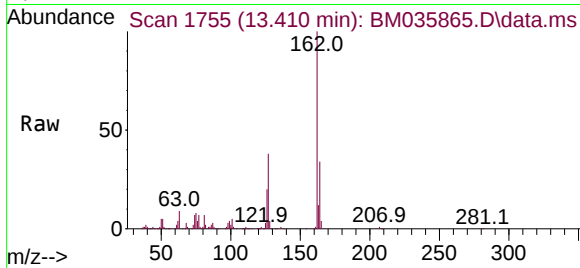




#47  
2-Chloronaphthalene  
Concen: 5.062 ng  
RT: 13.410 min Scan# 1755  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

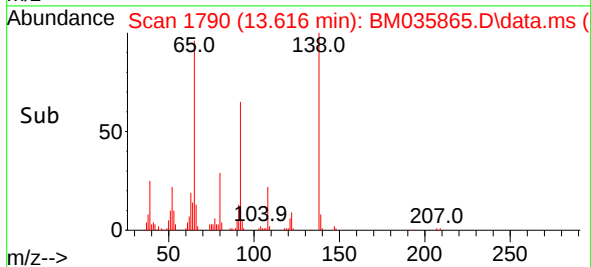
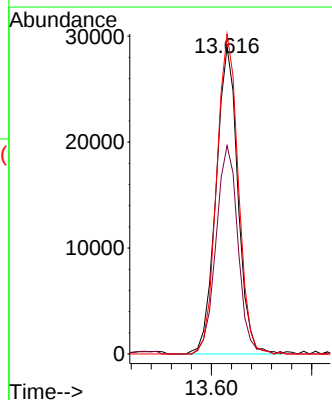
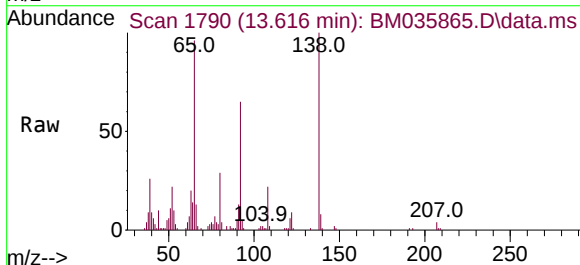
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

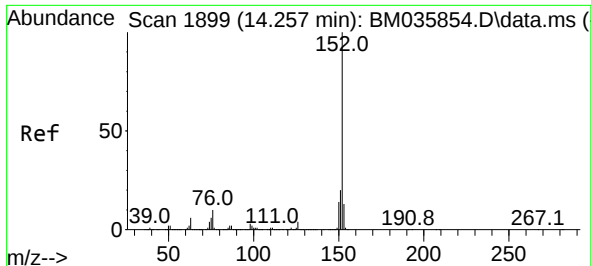
Tgt Ion:162 Resp: 195770  
Ion Ratio Lower Upper  
162 100  
127 37.7 30.6 45.8  
164 33.6 26.6 39.8



#48  
2-Nitroaniline  
Concen: 4.109 ng  
RT: 13.616 min Scan# 1790  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion: 65 Resp: 43786  
Ion Ratio Lower Upper  
65 100  
92 67.9 53.7 80.5  
138 104.3 83.9 125.9

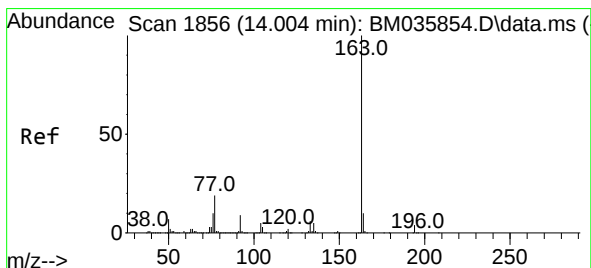
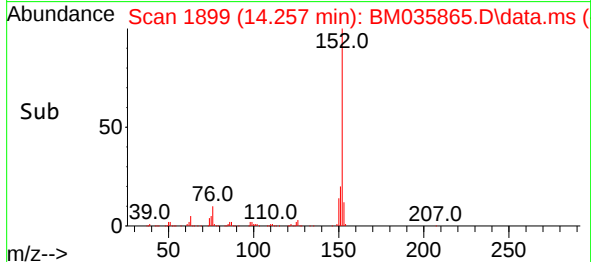
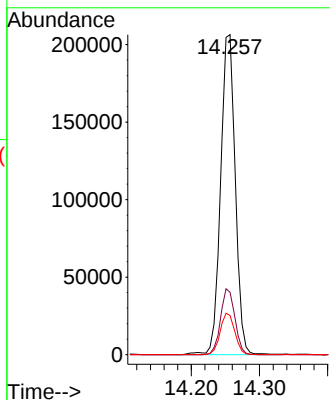
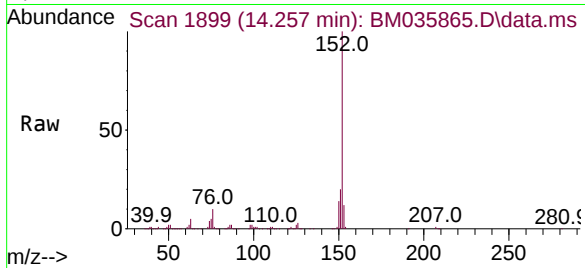




#49  
Acenaphthylene  
Concen: 5.198 ng  
RT: 14.257 min Scan# 1899  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

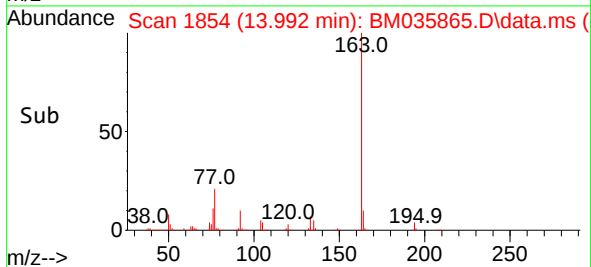
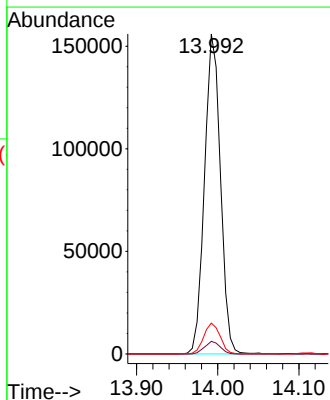
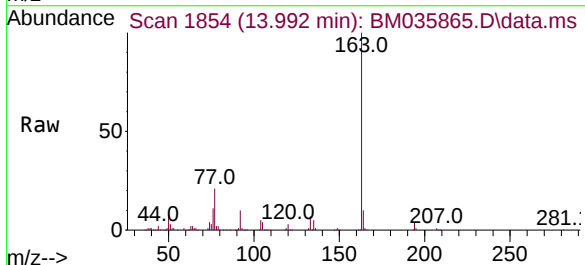
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

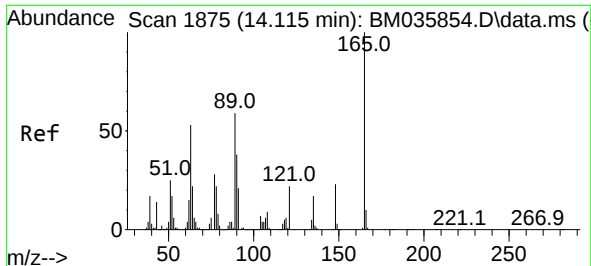
Tgt Ion:152 Resp: 309543  
Ion Ratio Lower Upper  
152 100  
151 19.5 16.2 24.2  
153 12.3 10.5 15.7



#50  
Dimethylphthalate  
Concen: 4.877 ng  
RT: 13.992 min Scan# 1854  
Delta R.T. -0.012 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:163 Resp: 212333  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.0 4.4  
164 9.6 8.4 12.6

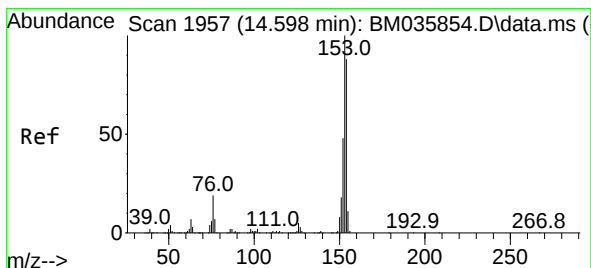
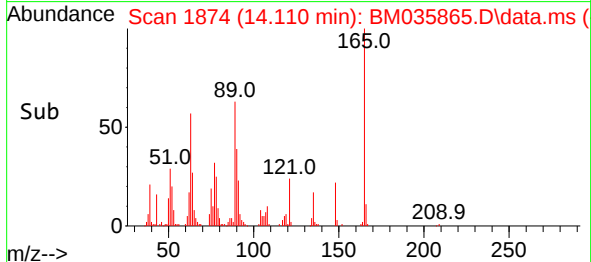
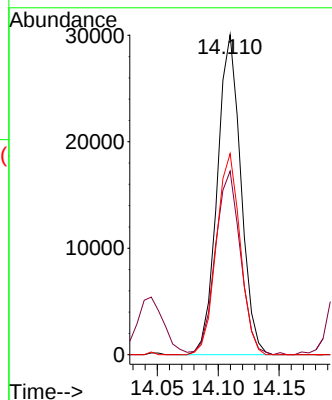
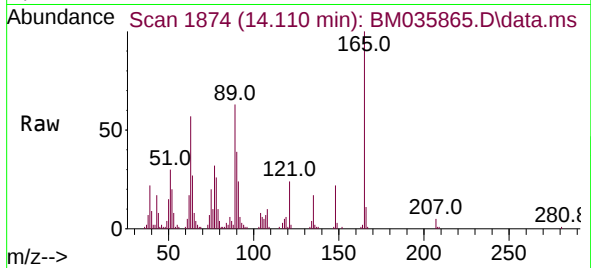




#51  
2,6-Dinitrotoluene  
Concen: 4.444 ng  
RT: 14.110 min Scan# 1874  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

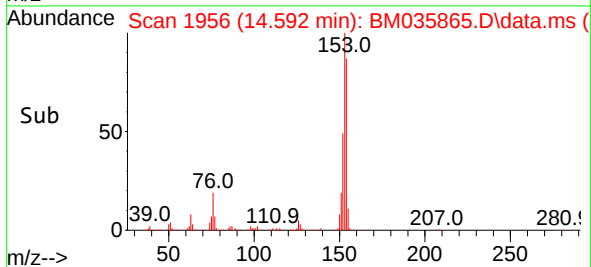
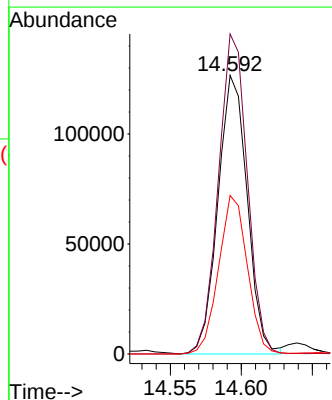
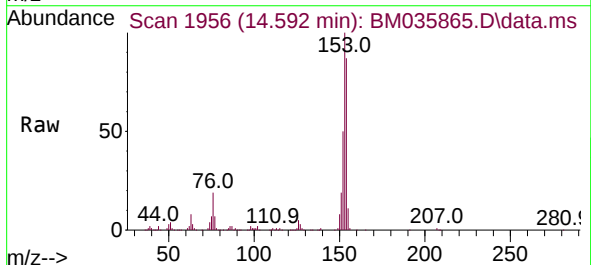
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

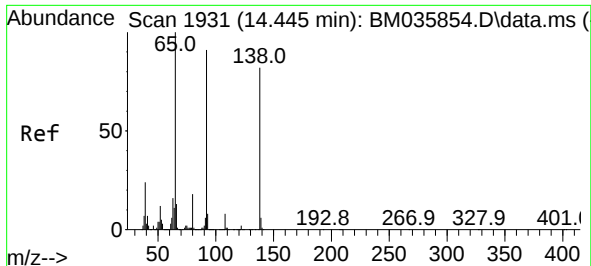
Tgt Ion:165 Resp: 40462  
Ion Ratio Lower Upper  
165 100  
63 57.3 50.2 75.2  
89 62.8 48.4 72.6



#52  
Acenaphthene  
Concen: 5.087 ng  
RT: 14.592 min Scan# 1956  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:154 Resp: 181457  
Ion Ratio Lower Upper  
154 100  
153 114.9 91.0 136.6  
152 56.9 43.4 65.2

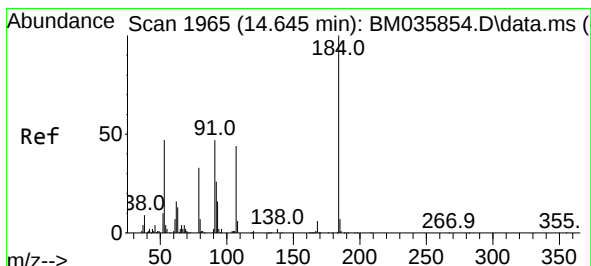
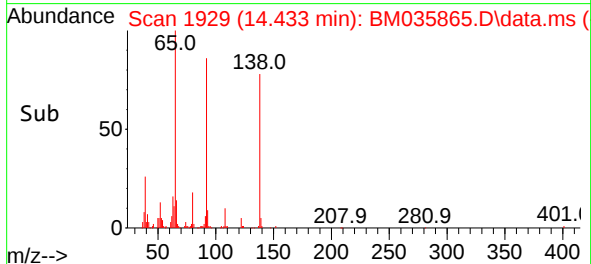
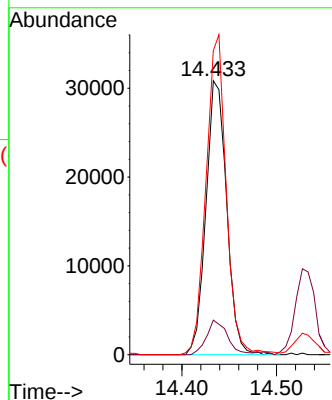
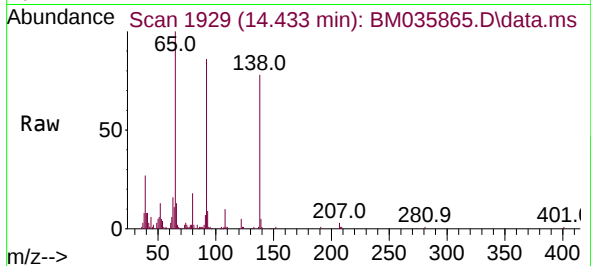




#53  
3-Nitroaniline  
Concen: 4.264 ng  
RT: 14.433 min Scan# 1931  
Delta R.T. -0.012 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

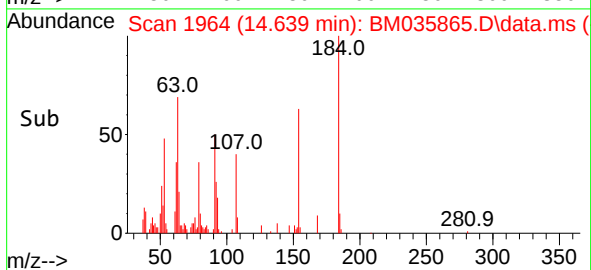
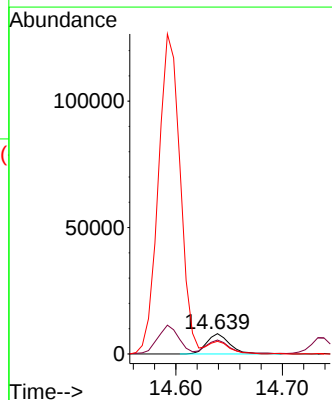
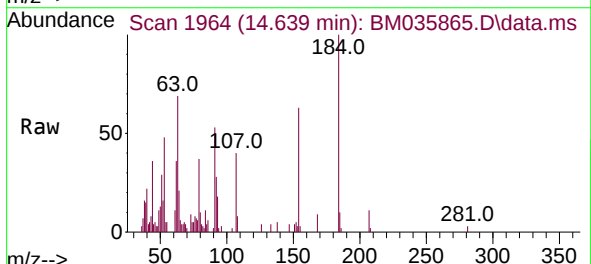
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

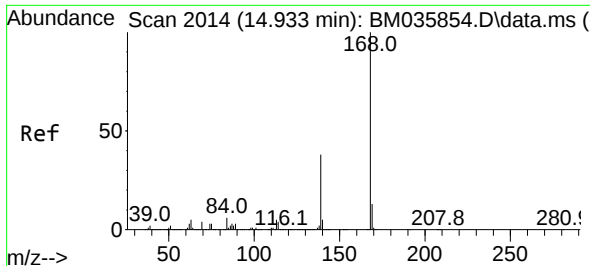
Tgt Ion:138 Resp: 46740  
Ion Ratio Lower Upper  
138 100  
108 12.6 8.7 13.1  
92 110.9 91.5 137.3



#54  
2,4-Dinitrophenol  
Concen: 2.671 ng  
RT: 14.639 min Scan# 1964  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:184 Resp: 11982  
Ion Ratio Lower Upper  
184 100  
63 68.5 59.5 89.3  
154 62.5 55.6 83.4

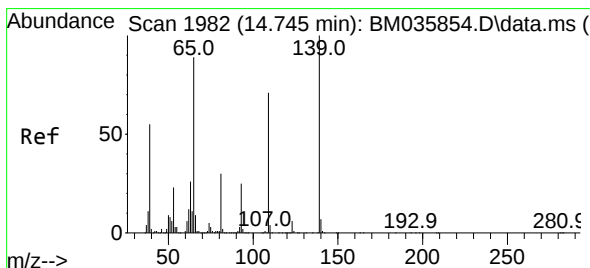
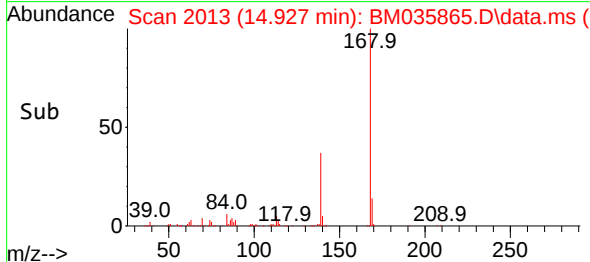
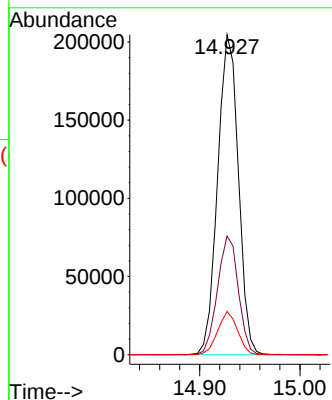
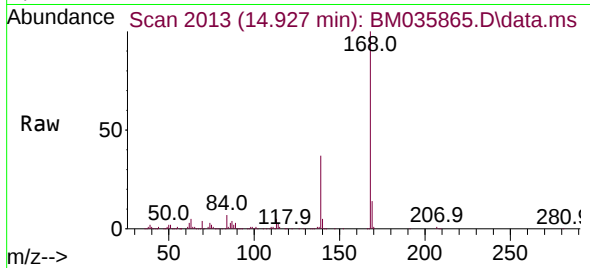




#55  
Dibenzofuran  
Concen: 5.132 ng  
RT: 14.927 min Scan# 2014  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

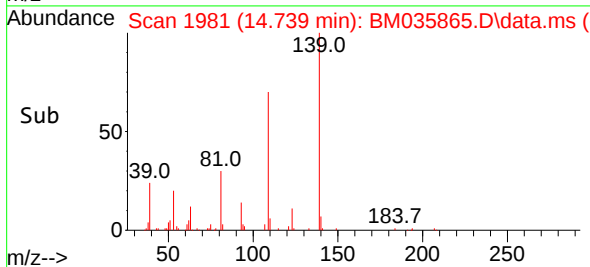
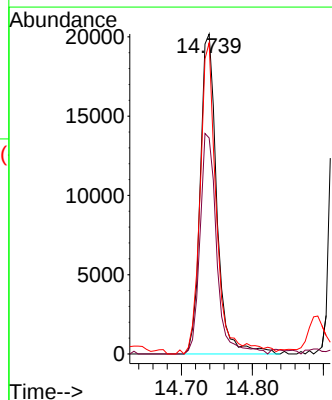
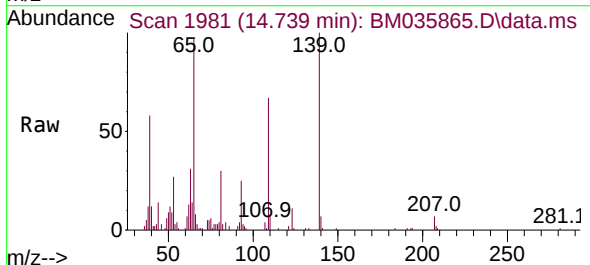
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

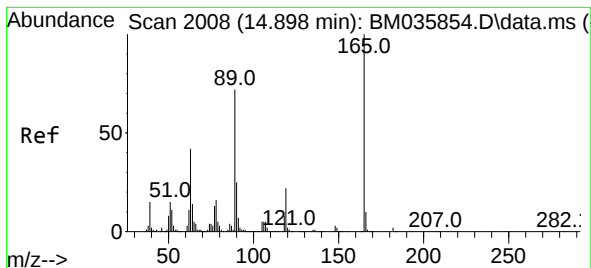
Tgt Ion:168 Resp: 293332  
Ion Ratio Lower Upper  
168 100  
139 37.1 32.2 48.2  
169 13.5 10.6 16.0



#56  
4-Nitrophenol  
Concen: 3.809 ng  
RT: 14.739 min Scan# 1981  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:139 Resp: 32757  
Ion Ratio Lower Upper  
139 100  
109 67.5 62.5 102.5  
65 97.3 83.5 123.5





#57

2,4-Dinitrotoluene

Concen: 4.005 ng

RT: 14.892 min Scan# 20

Delta R.T. -0.006 min

Lab File: BM035865.D

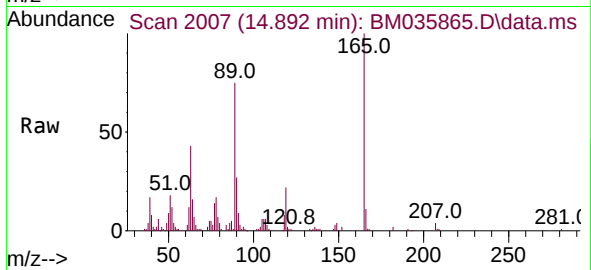
Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022



Tgt Ion:165 Resp: 47722

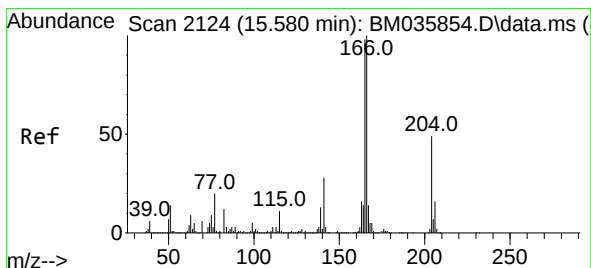
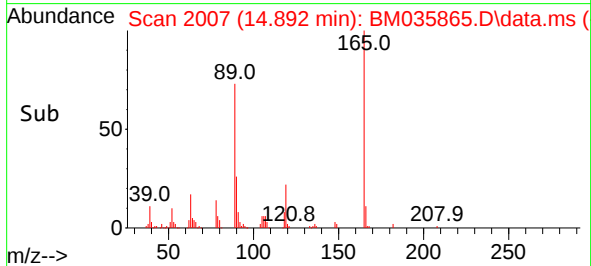
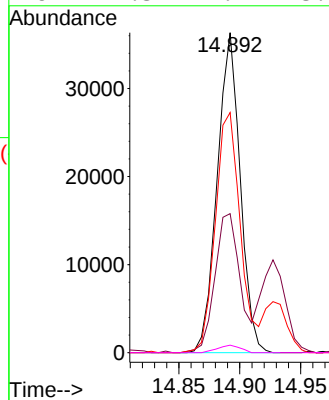
Ion Ratio Lower Upper

165 100

63 43.4 35.6 53.4

89 75.1 57.3 85.9

182 2.3 2.1 3.1



#58

Fluorene

Concen: 4.907 ng

RT: 15.574 min Scan# 2123

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

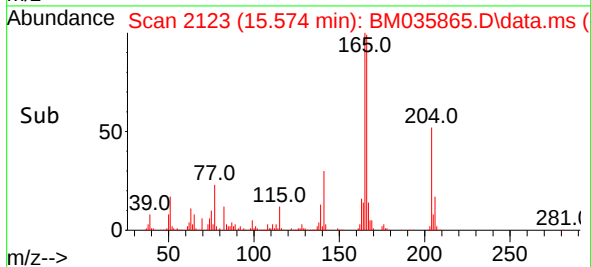
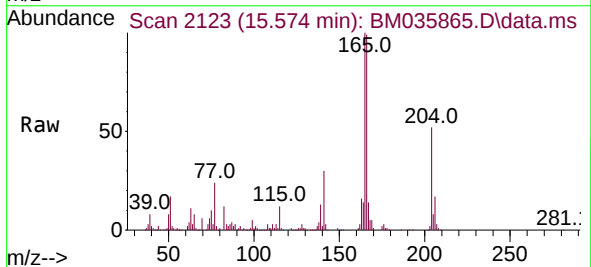
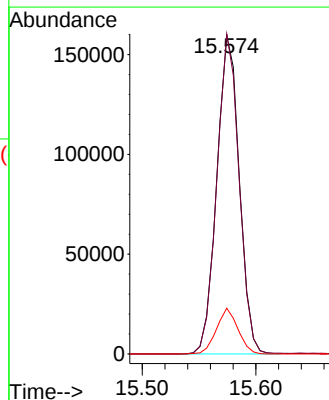
Tgt Ion:166 Resp: 220192

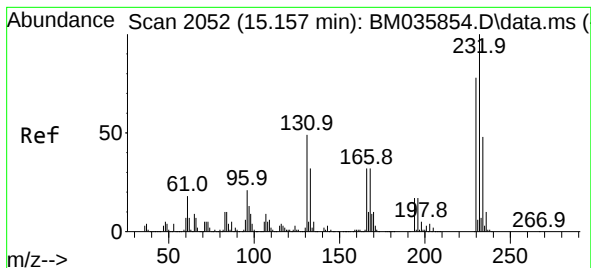
Ion Ratio Lower Upper

166 100

165 100.5 79.4 119.2

167 14.4 10.6 16.0

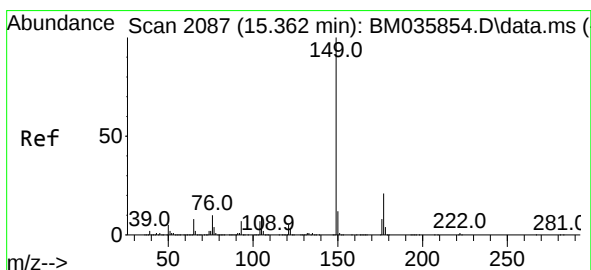
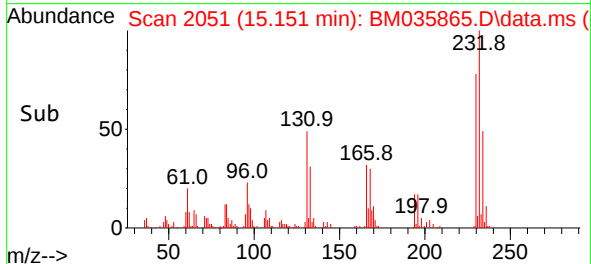
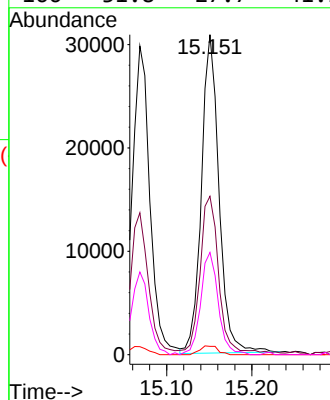
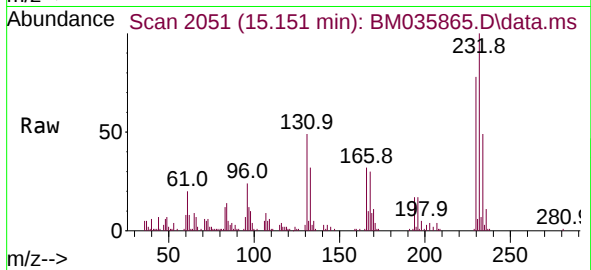




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 4.181 ng  
RT: 15.151 min Scan# 2051  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

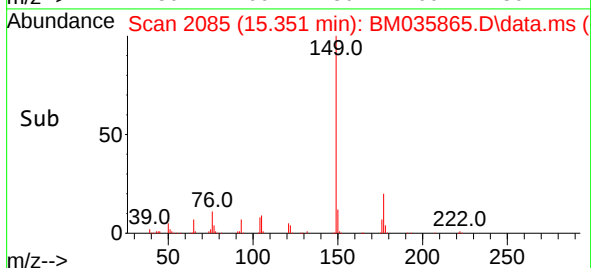
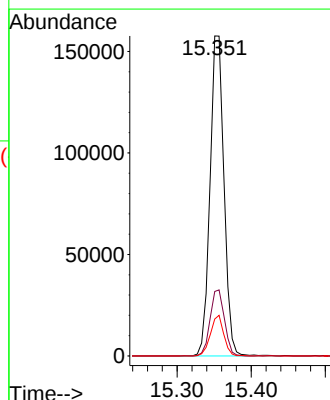
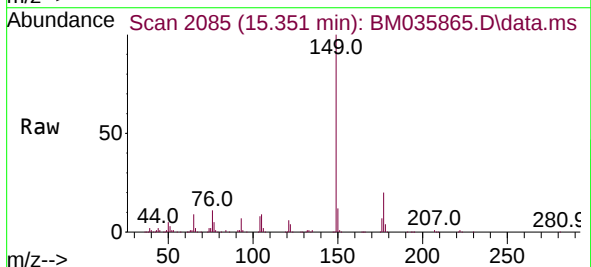
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

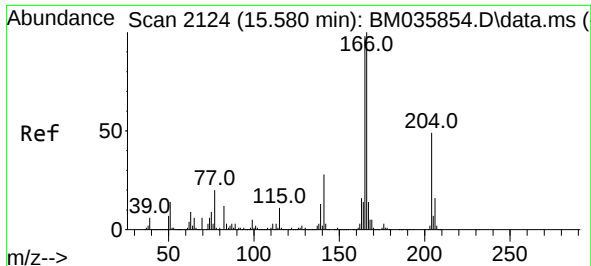
Tgt Ion:232 Resp: 44264  
Ion Ratio Lower Upper  
232 100  
131 52.4 41.0 61.6  
130 2.8 2.3 3.5  
166 31.8 27.7 41.5



#60  
Diethylphthalate  
Concen: 4.786 ng  
RT: 15.351 min Scan# 2085  
Delta R.T. -0.012 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:149 Resp: 206489  
Ion Ratio Lower Upper  
149 100  
177 20.1 16.9 25.3  
150 11.5 10.1 15.1

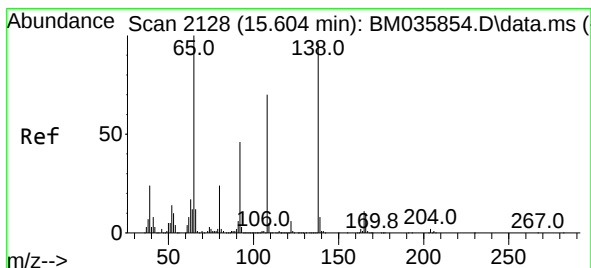
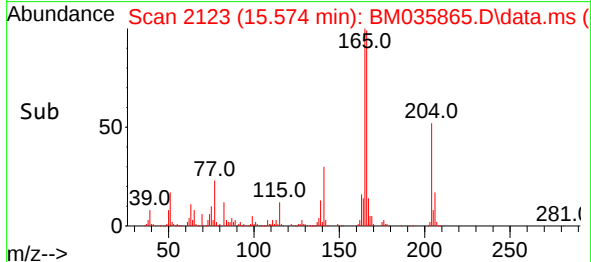
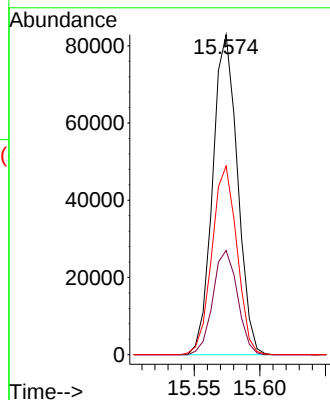
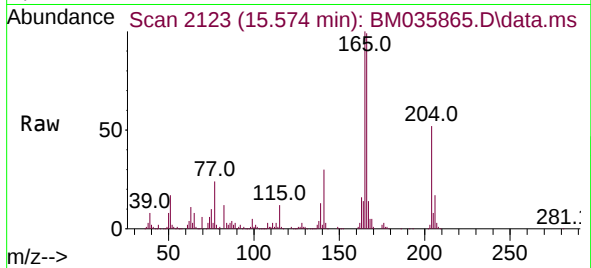




#61  
4-Chlorophenyl-phenylether  
Concen: 4.998 ng  
RT: 15.574 min Scan# 2123  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

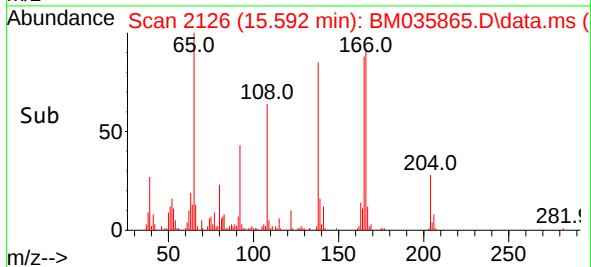
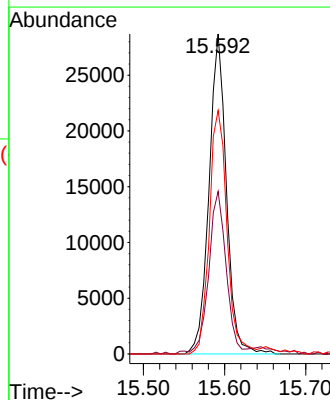
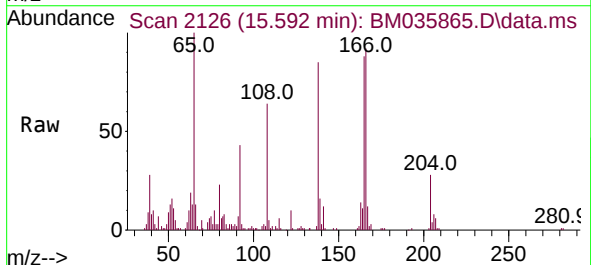
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

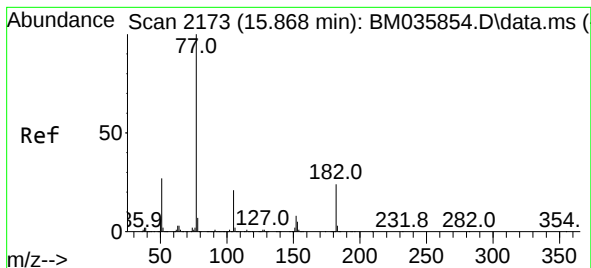
Tgt Ion:204 Resp: 109129  
Ion Ratio Lower Upper  
204 100  
206 32.6 26.3 39.5  
141 59.0 51.2 76.8



#62  
4-Nitroaniline  
Concen: 3.799 ng  
RT: 15.592 min Scan# 2126  
Delta R.T. -0.012 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:138 Resp: 42643  
Ion Ratio Lower Upper  
138 100  
92 50.8 30.8 70.8  
108 76.1 65.7 105.7





#63

Azobenzene

Concen: 4.615 ng

RT: 15.868 min Scan# 2173

Delta R.T. 0.000 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

Tgt Ion: 77 Resp: 204426

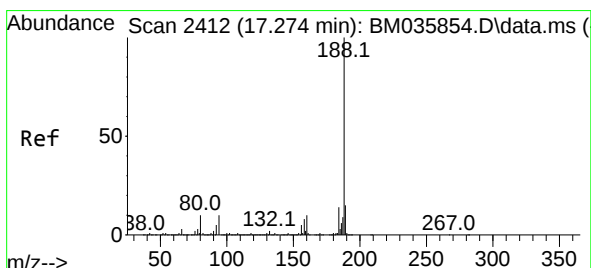
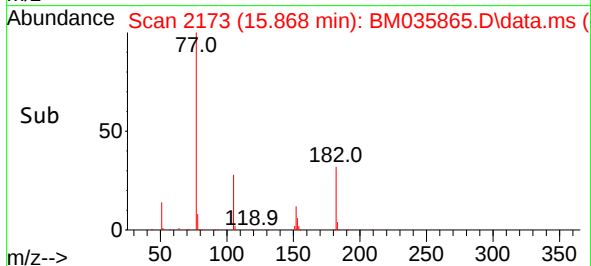
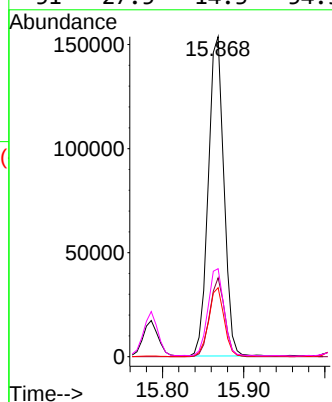
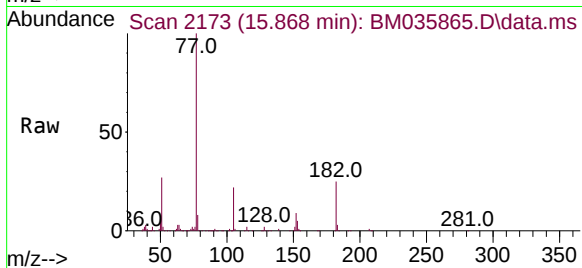
Ion Ratio Lower Upper

77 100

182 24.6 4.9 44.9

105 21.5 0.0 39.6

51 27.5 14.3 54.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.268 min Scan# 2411

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

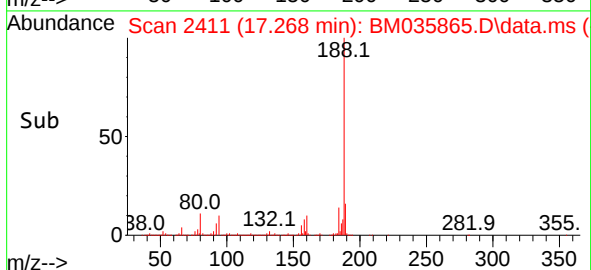
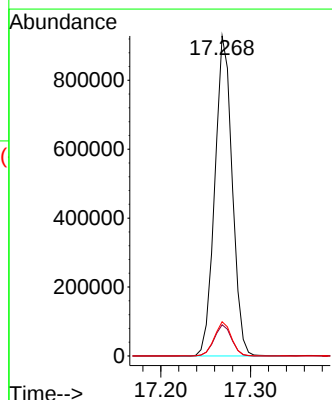
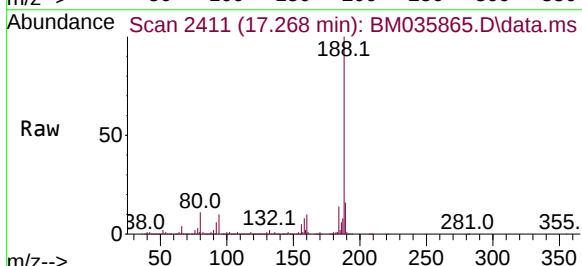
Tgt Ion: 188 Resp: 1249804

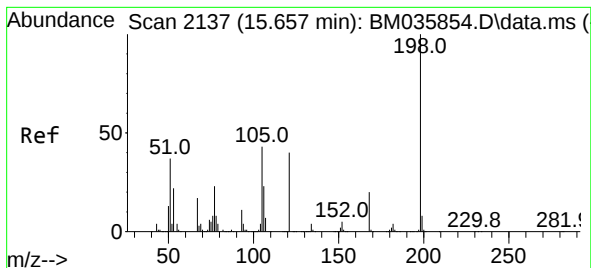
Ion Ratio Lower Upper

188 100

94 9.8 7.0 10.4

80 10.7 7.6 11.4

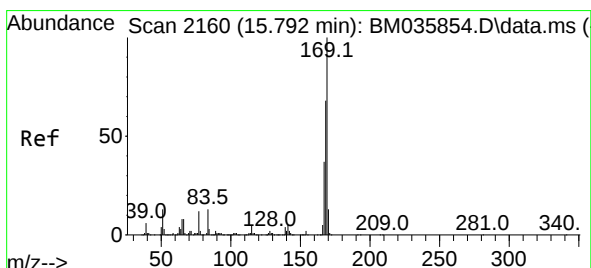
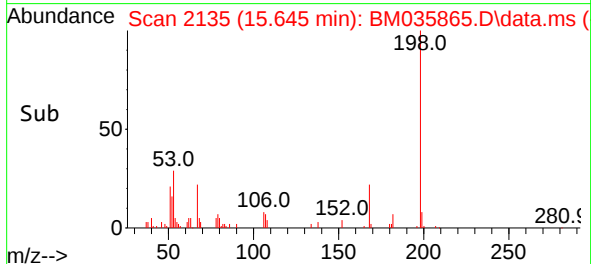
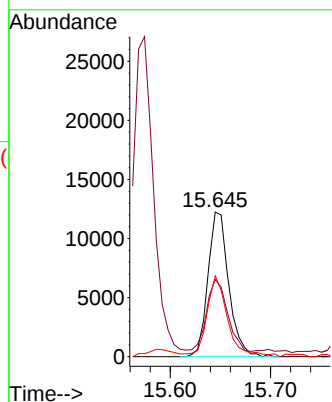
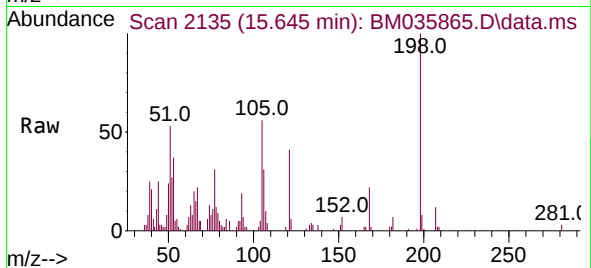




#65  
4,6-Dinitro-2-methylphenol  
Concen: 2.802 ng  
RT: 15.645 min Scan# 2135  
Delta R.T. -0.012 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

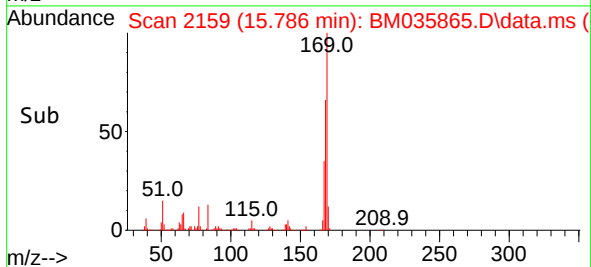
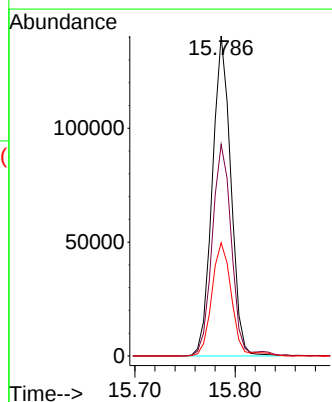
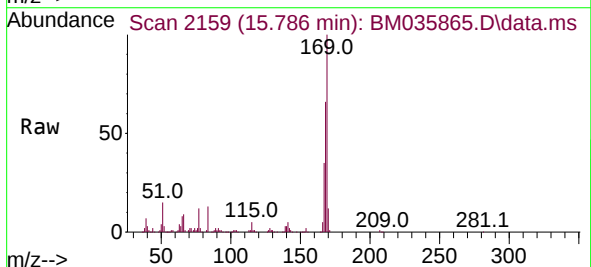
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

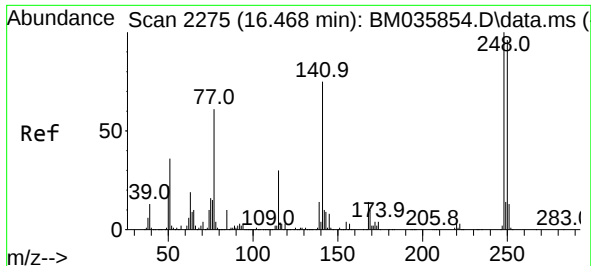
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:198 | Resp: | 17588     |
| Ion Ratio   | Lower | Upper     |
| 198         | 100   |           |
| 51          | 53.4  | 29.0 69.0 |
| 105         | 55.9  | 22.1 62.1 |



#66  
n-Nitrosodiphenylamine  
Concen: 4.915 ng  
RT: 15.786 min Scan# 2159  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:169 | Resp: | 180381    |
| Ion Ratio   | Lower | Upper     |
| 169         | 100   |           |
| 168         | 66.1  | 54.3 81.5 |
| 167         | 35.3  | 29.4 44.0 |

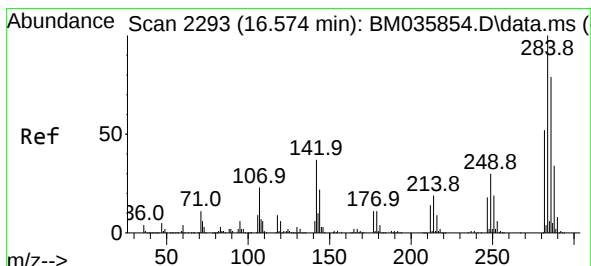
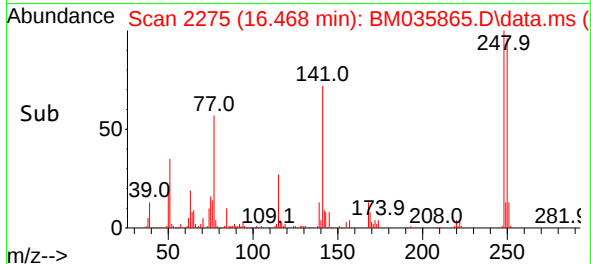
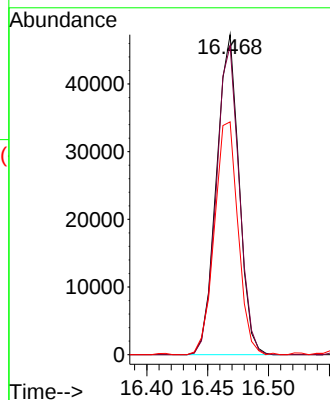
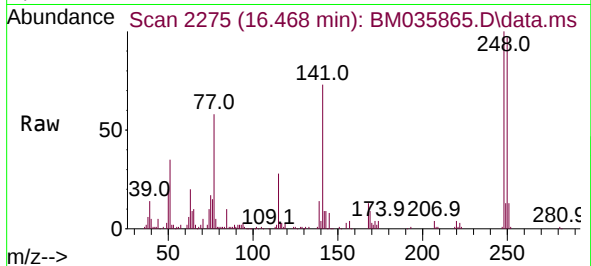




#67  
4-Bromophenyl-phenylether  
Concen: 4.851 ng  
RT: 16.468 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

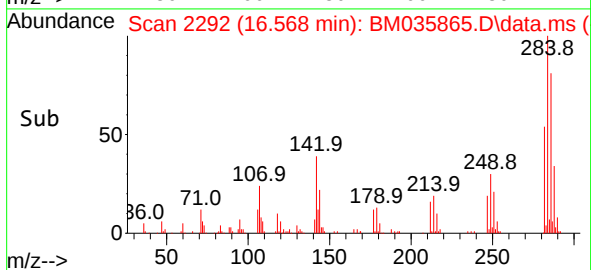
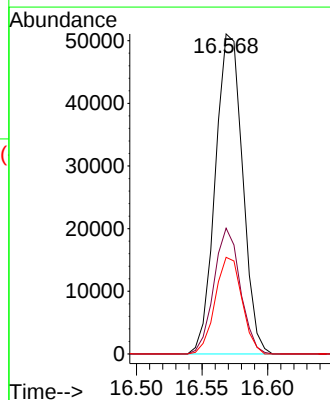
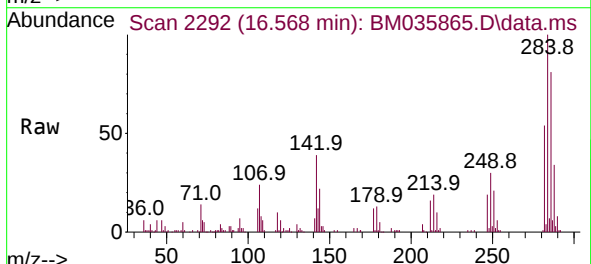
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

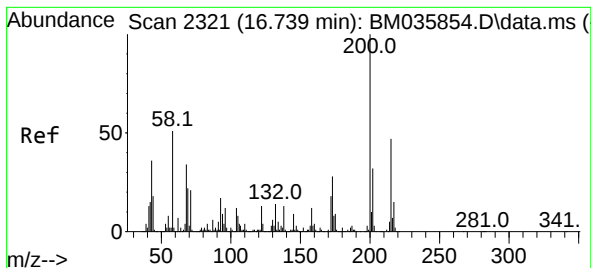
Tgt Ion:248 Resp: 60947  
Ion Ratio Lower Upper  
248 100  
250 96.5 78.0 117.0  
141 72.7 66.0 99.0



#68  
Hexachlorobenzene  
Concen: 5.058 ng  
RT: 16.568 min Scan# 2292  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:284 Resp: 73773  
Ion Ratio Lower Upper  
284 100  
142 39.3 33.6 50.4  
249 30.2 26.2 39.2





#69

Atrazine

Concen: 5.327 ng

RT: 16.733 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

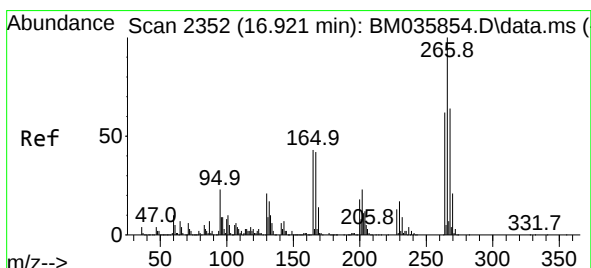
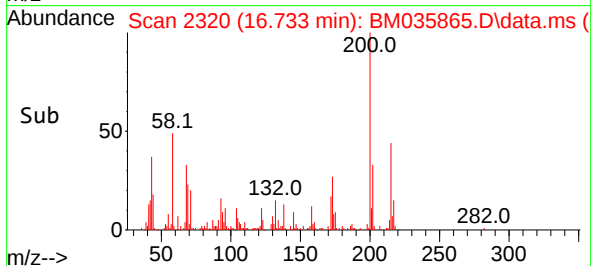
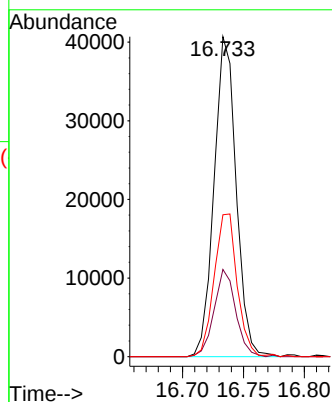
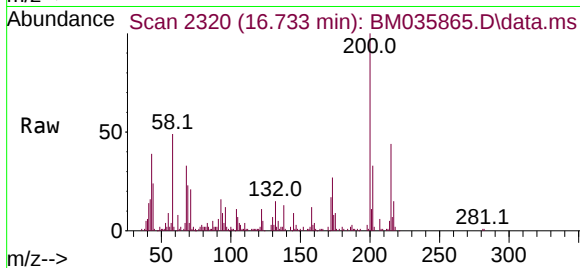
Tgt Ion:200 Resp: 51374

Ion Ratio Lower Upper

200 100

173 27.2 6.6 46.6

215 44.3 26.2 66.2



#70

Pentachlorophenol

Concen: 3.667 ng

RT: 16.915 min Scan# 2351

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

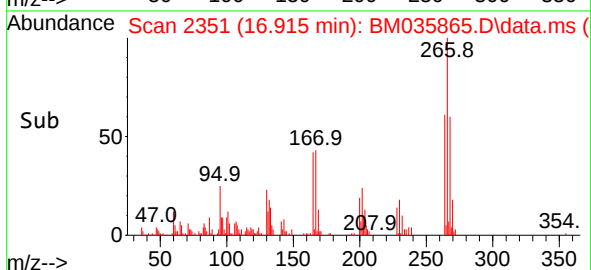
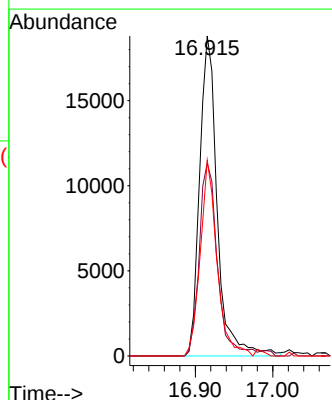
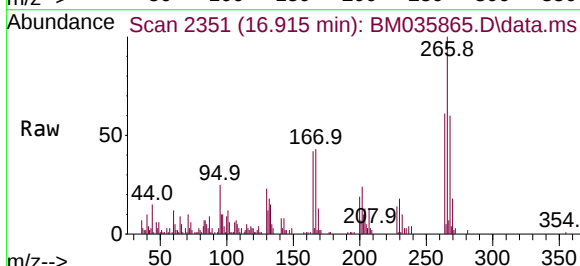
Tgt Ion:266 Resp: 29678

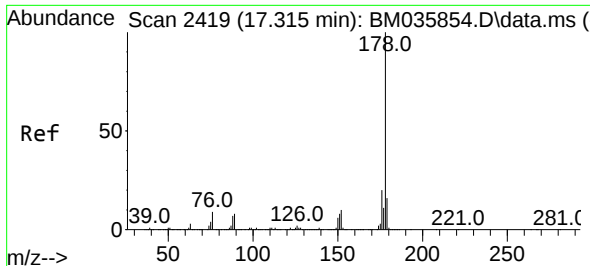
Ion Ratio Lower Upper

266 100

268 60.3 51.9 77.9

264 61.2 50.6 76.0

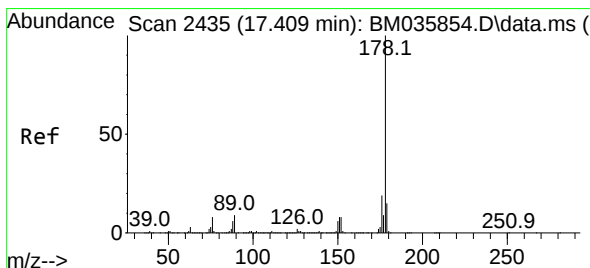
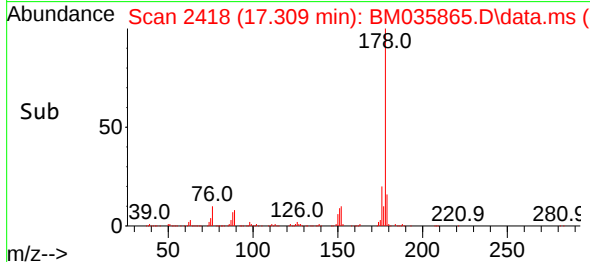
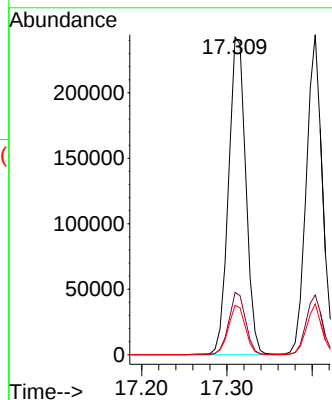
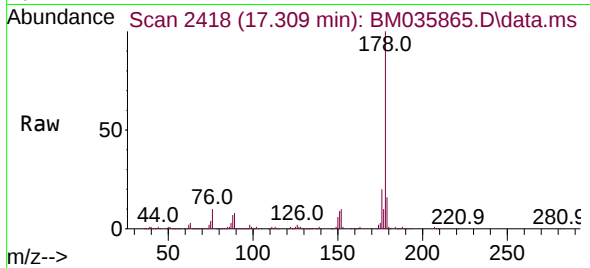




#71  
Phenanthrene  
Concen: 5.181 ng  
RT: 17.309 min Scan# 2419  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

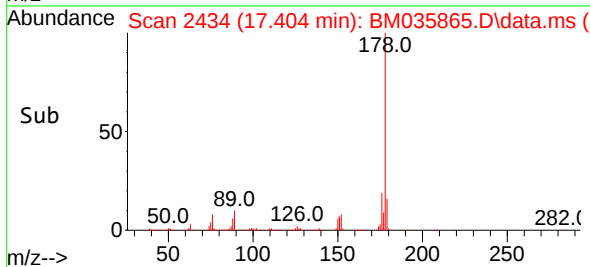
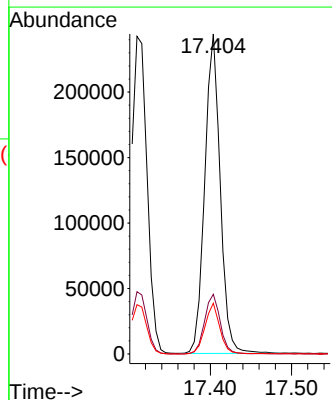
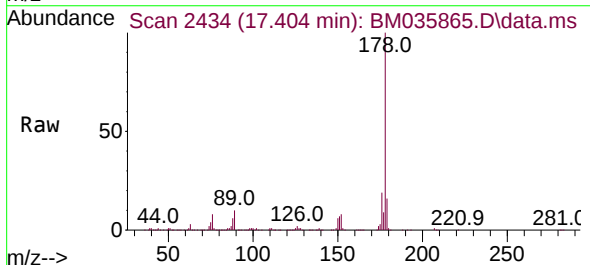
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

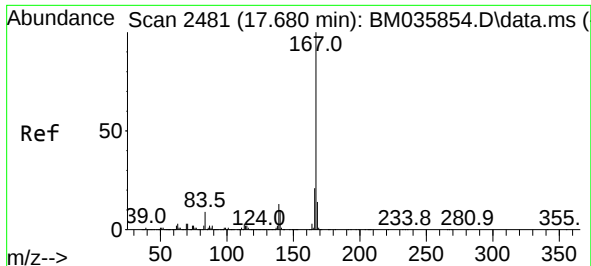
Tgt Ion:178 Resp: 340662  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.4 23.0  
179 15.5 12.4 18.6



#72  
Anthracene  
Concen: 5.036 ng  
RT: 17.404 min Scan# 2434  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:178 Resp: 321862  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.4  
179 15.9 12.2 18.2

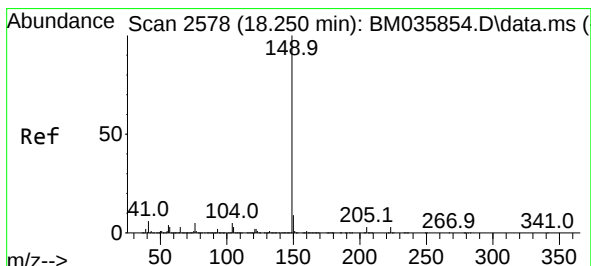
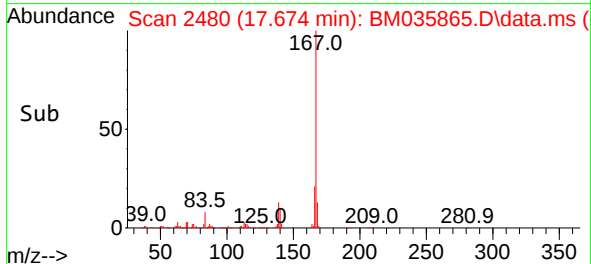
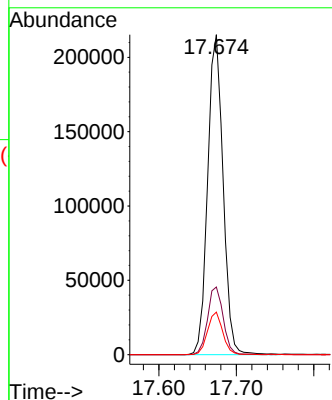
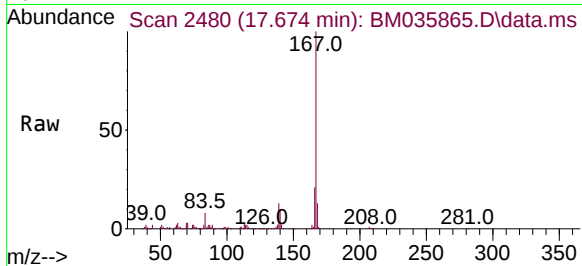




#73  
 Carbazole  
 Concen: 4.581 ng  
 RT: 17.674 min Scan# 24  
 Delta R.T. -0.006 min  
 Lab File: BM035865.D  
 Acq: 19 Jul 2022 14:18

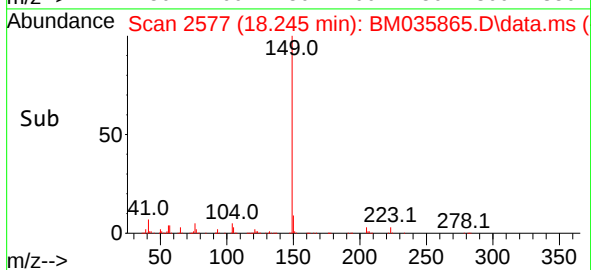
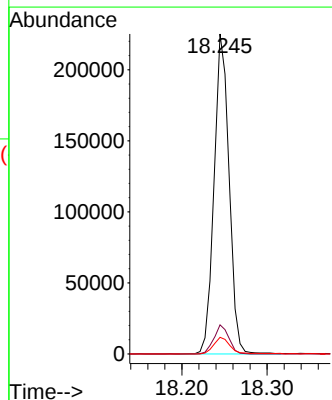
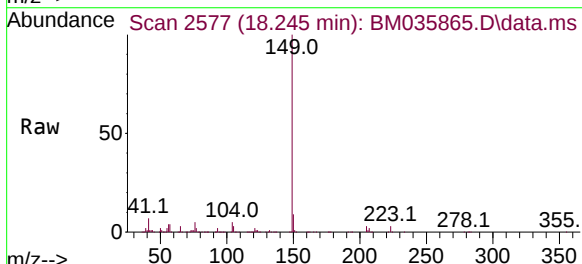
Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2022

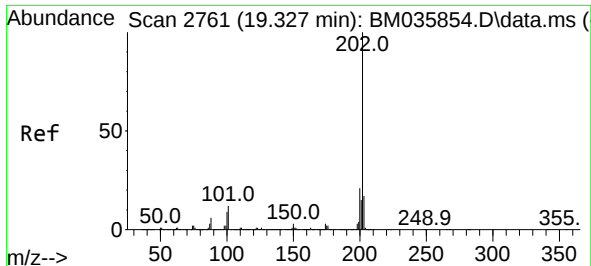
Tgt Ion:167 Resp: 296957  
 Ion Ratio Lower Upper  
 167 100  
 166 21.2 17.8 26.8  
 139 13.3 10.9 16.3



#74  
 Di-n-butylphthalate  
 Concen: 4.176 ng  
 RT: 18.245 min Scan# 2577  
 Delta R.T. -0.006 min  
 Lab File: BM035865.D  
 Acq: 19 Jul 2022 14:18

Tgt Ion:149 Resp: 275640  
 Ion Ratio Lower Upper  
 149 100  
 150 9.1 7.3 10.9  
 104 5.2 4.3 6.5

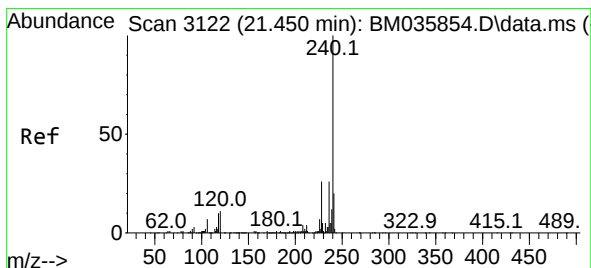
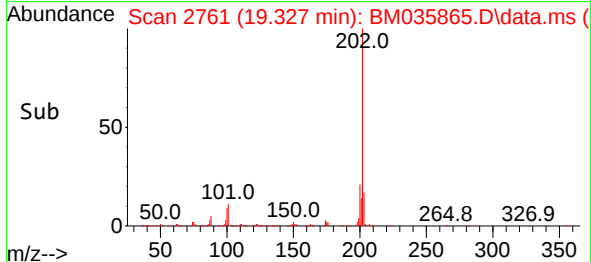
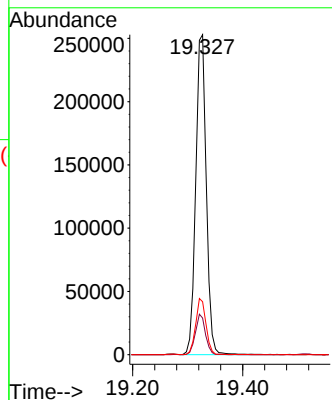
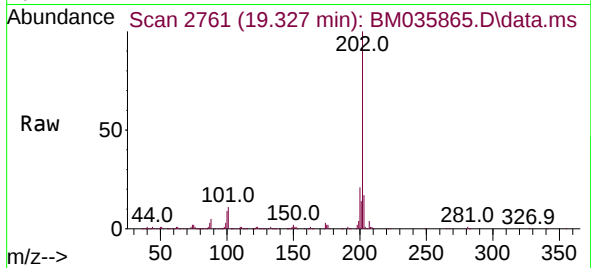




#75  
Fluoranthene  
Concen: 4.705 ng  
RT: 19.327 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

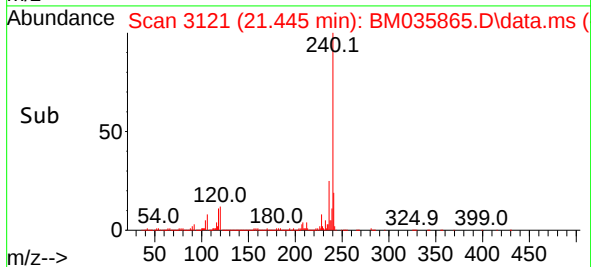
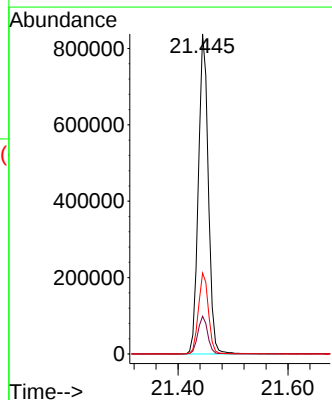
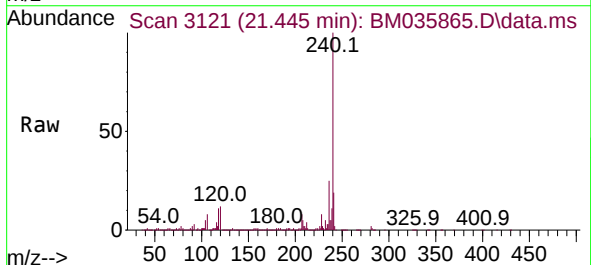
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

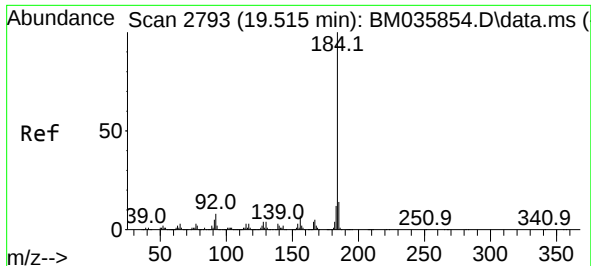
Tgt Ion:202 Resp: 336247  
Ion Ratio Lower Upper  
202 100  
101 11.5 0.0 30.6  
203 16.6 0.0 37.4



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.445 min Scan# 3121  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:240 Resp: 1052457  
Ion Ratio Lower Upper  
240 100  
120 11.8 9.4 14.0  
236 25.3 20.6 30.8

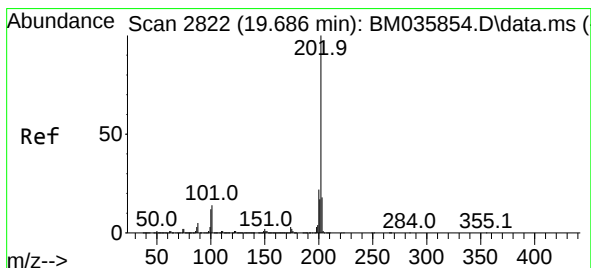
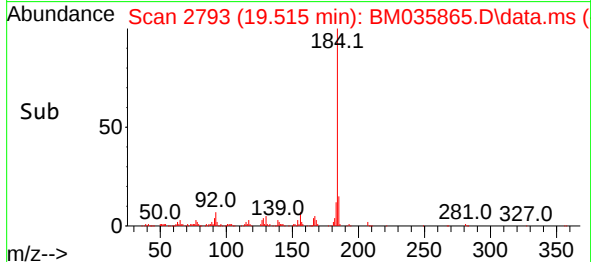
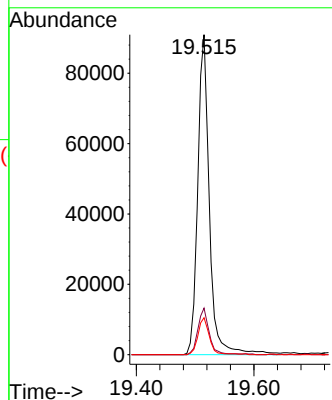
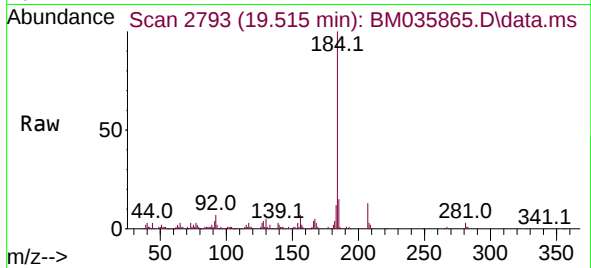




#77  
Benzidine  
Concen: 6.773 ng  
RT: 19.515 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

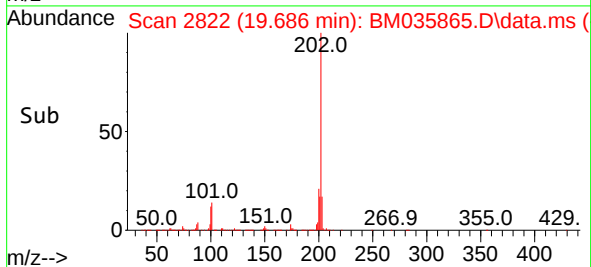
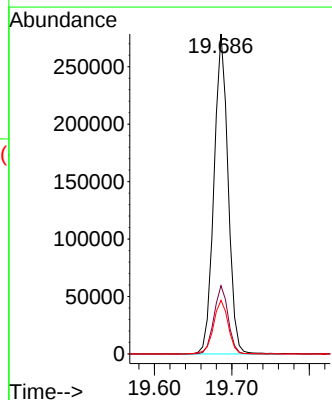
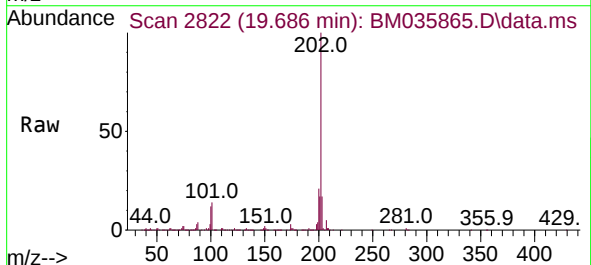
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

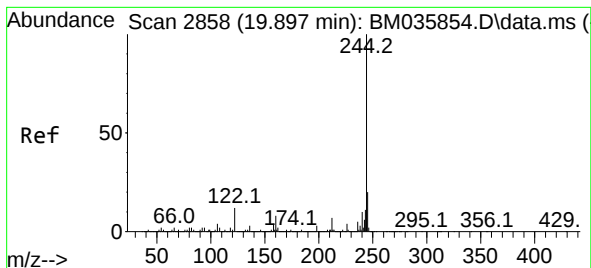
Tgt Ion:184 Resp: 125144  
Ion Ratio Lower Upper  
184 100  
185 14.5 11.3 16.9  
183 11.6 9.5 14.3



#78  
Pyrene  
Concen: 5.101 ng  
RT: 19.686 min Scan# 2822  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:202 Resp: 351040  
Ion Ratio Lower Upper  
202 100  
200 21.4 16.7 25.1  
203 16.7 13.9 20.9





#79

Terphenyl-d14

Concen: 83.402 ng

RT: 19.898 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

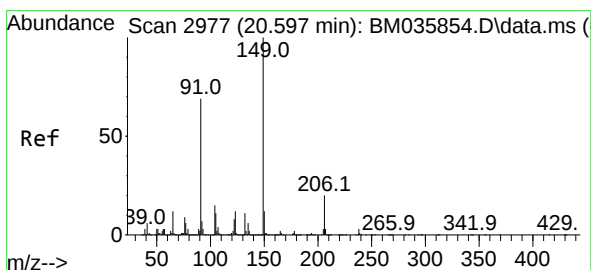
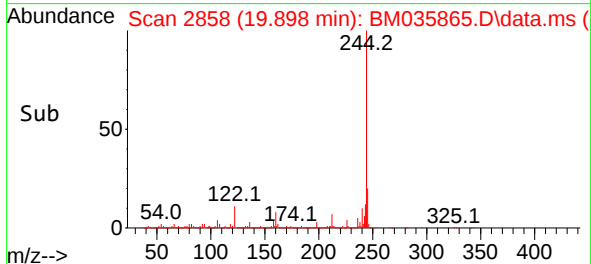
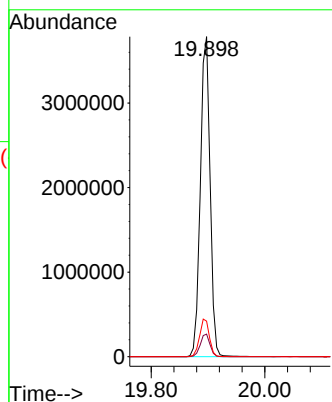
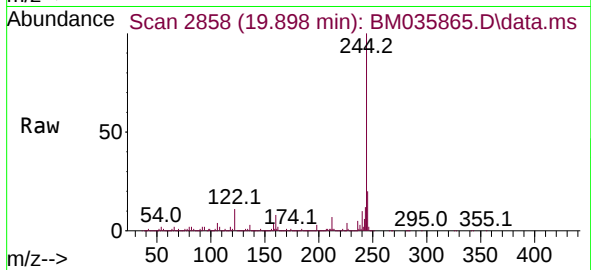
Tgt Ion:244 Resp: 4511442

Ion Ratio Lower Upper

244 100

212 7.0 6.2 9.4

122 11.1 8.3 12.5



#80

Butylbenzylphthalate

Concen: 3.658 ng

RT: 20.592 min Scan# 2976

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

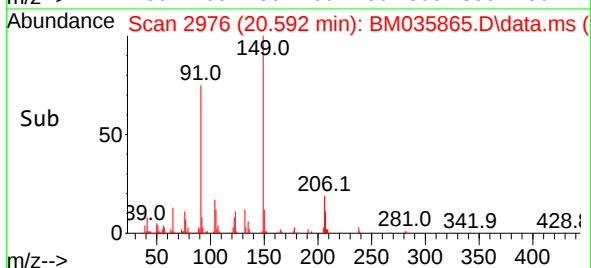
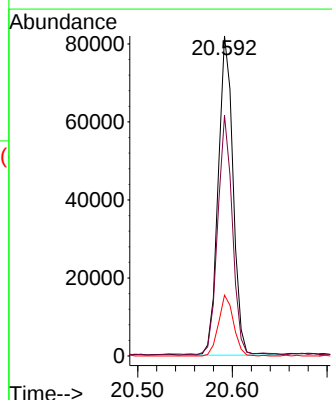
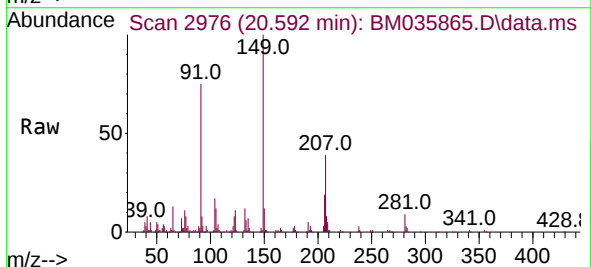
Tgt Ion:149 Resp: 89866

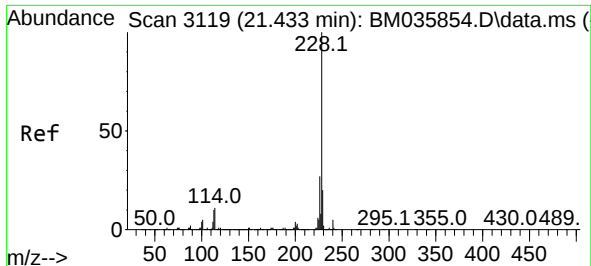
Ion Ratio Lower Upper

149 100

91 75.2 56.6 85.0

206 19.0 15.4 23.0

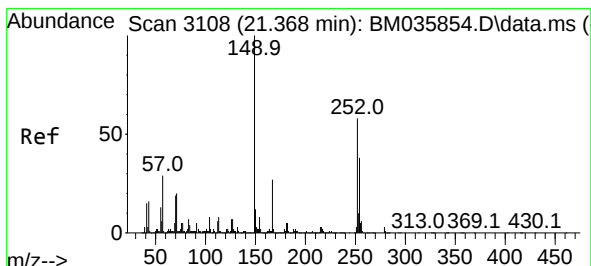
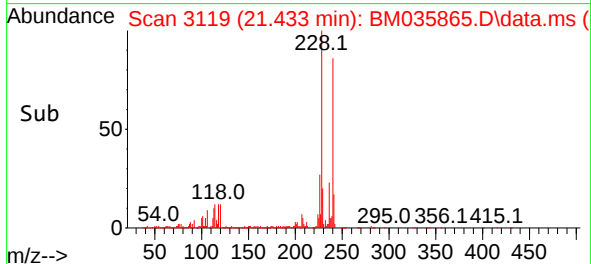
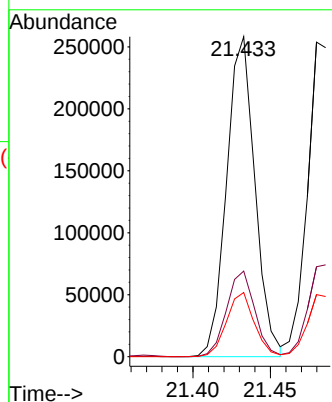
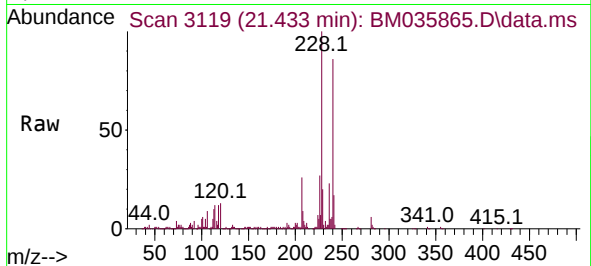




#81  
Benzo(a)anthracene  
Concen: 4.929 ng  
RT: 21.433 min Scan# 3119  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

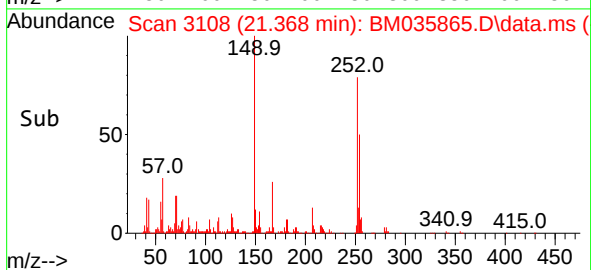
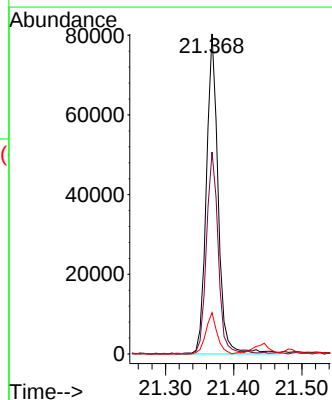
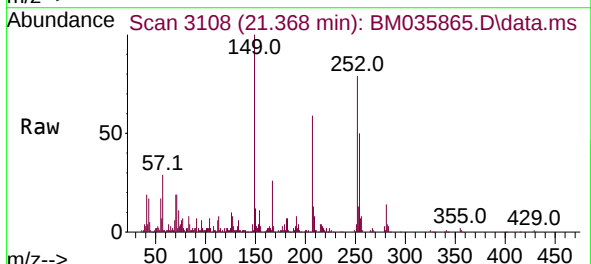
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

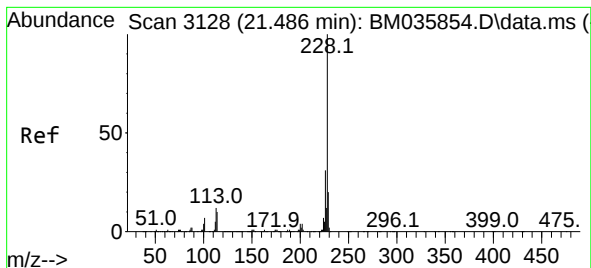
Tgt Ion:228 Resp: 328364  
Ion Ratio Lower Upper  
228 100  
226 26.7 22.3 33.5  
229 20.0 15.8 23.6



#82  
3,3'-Dichlorobenzidine  
Concen: 6.214 ng  
RT: 21.368 min Scan# 3108  
Delta R.T. 0.000 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:252 Resp: 96977  
Ion Ratio Lower Upper  
252 100  
254 63.1 51.7 77.5  
126 12.9 9.4 14.0





#83

Chrysene

Concen: 4.996 ng

RT: 21.480 min Scan# 3128

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

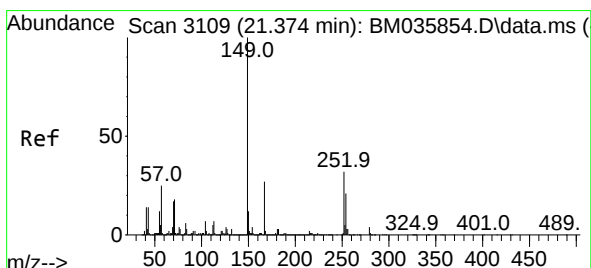
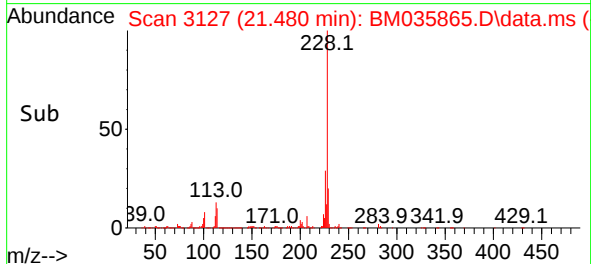
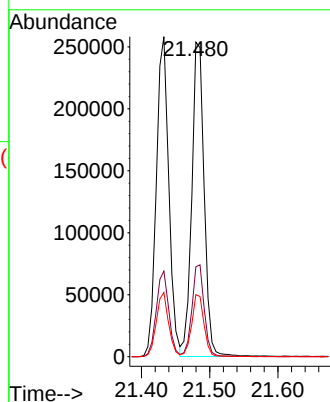
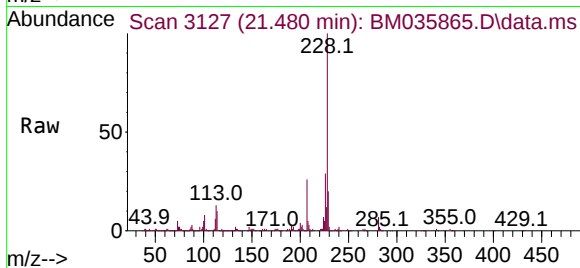
Tgt Ion:228 Resp: 317611

Ion Ratio Lower Upper

228 100

226 28.6 24.4 36.6

229 19.7 15.8 23.8



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.737 ng

RT: 21.374 min Scan# 3109

Delta R.T. 0.000 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

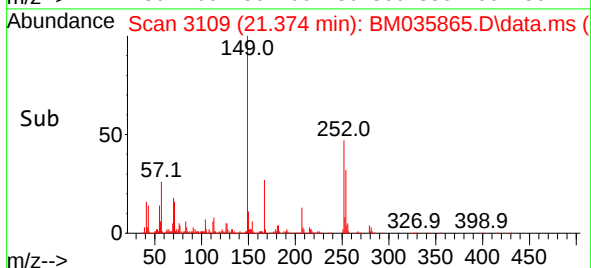
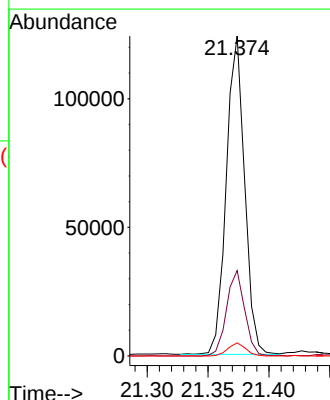
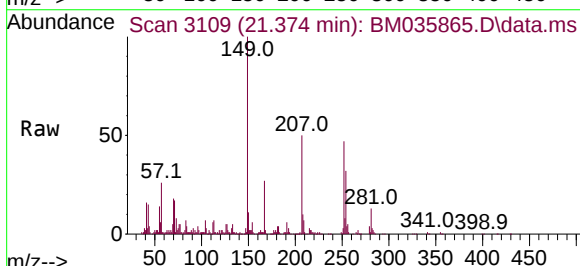
Tgt Ion:149 Resp: 129384

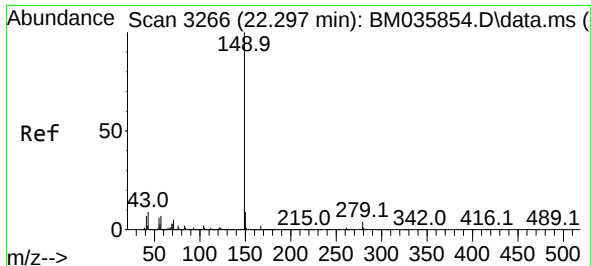
Ion Ratio Lower Upper

149 100

167 26.7 21.1 31.7

279 4.1 2.8 4.2

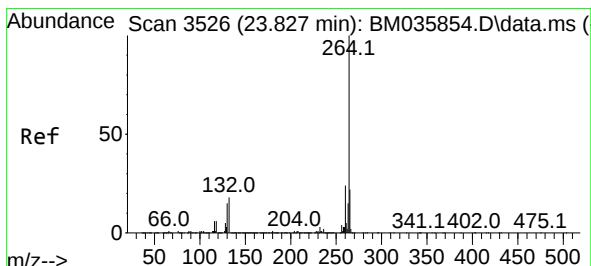
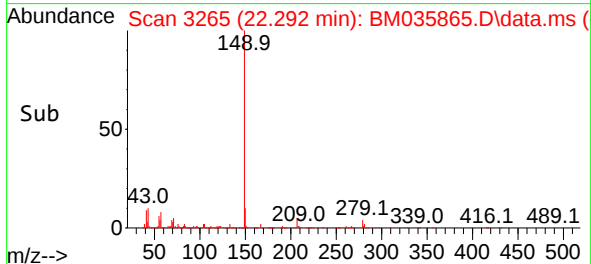
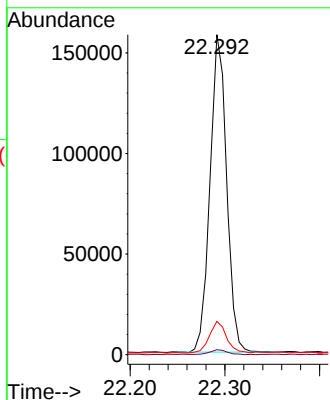
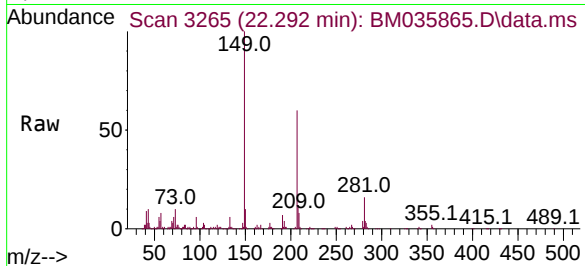




#85  
Di-n-octyl phthalate  
Concen: 3.492 ng  
RT: 22.292 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

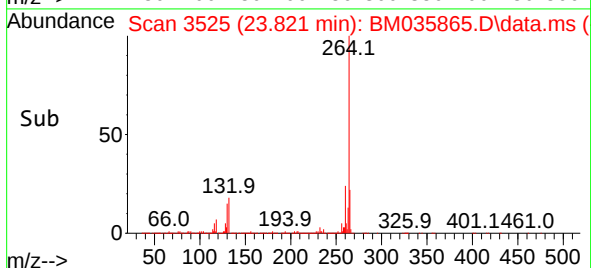
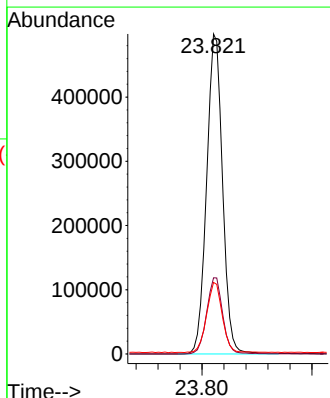
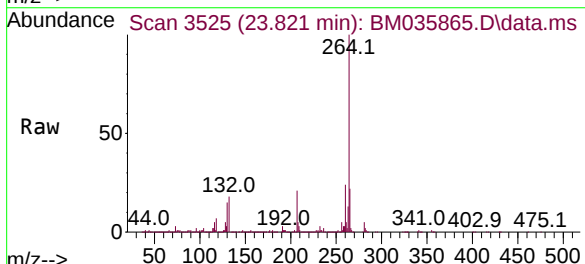
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2022

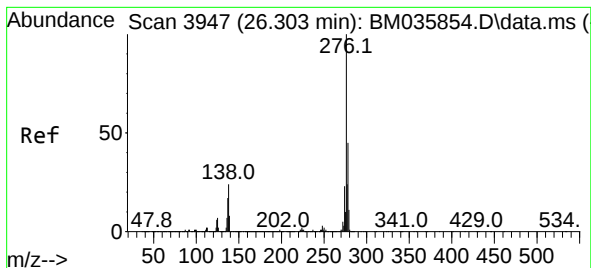
Tgt Ion:149 Resp: 191806  
Ion Ratio Lower Upper  
149 100  
167 1.7 1.3 1.9  
43 10.1 8.6 12.8



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.821 min Scan# 3525  
Delta R.T. -0.006 min  
Lab File: BM035865.D  
Acq: 19 Jul 2022 14:18

Tgt Ion:264 Resp: 1000414  
Ion Ratio Lower Upper  
264 100  
260 23.8 18.9 28.3  
265 22.4 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.441 ng

RT: 26.285 min Scan# 3400

Delta R.T. -0.018 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

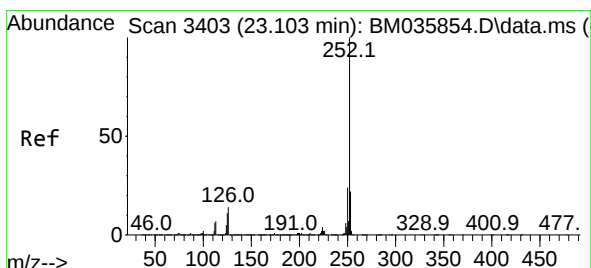
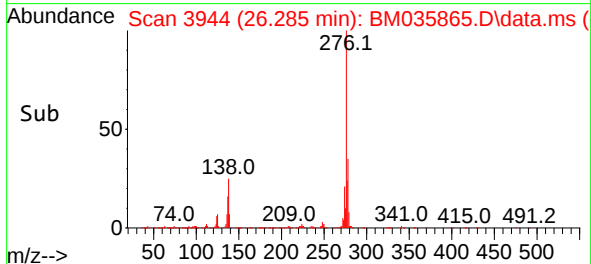
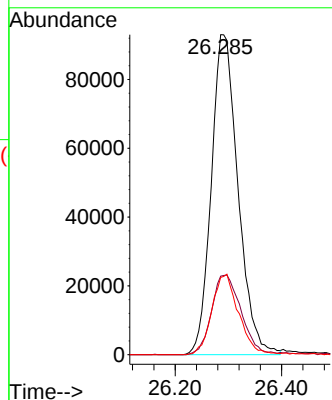
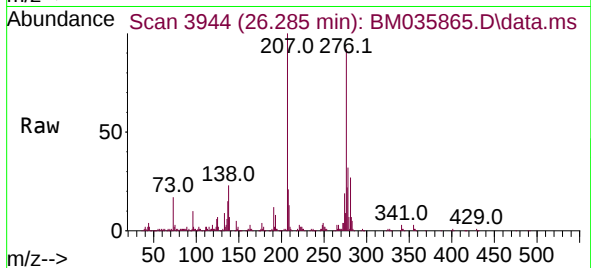
Tgt Ion:276 Resp: 324607

Ion Ratio Lower Upper

276 100

138 27.4 20.2 30.4

277 25.1 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 5.181 ng

RT: 23.097 min Scan# 3402

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

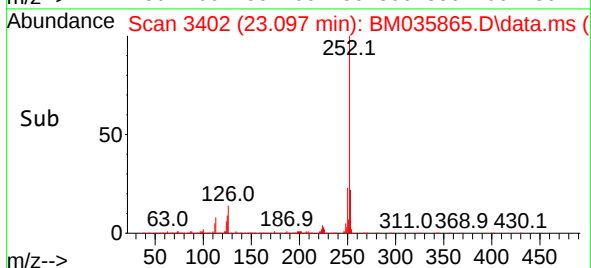
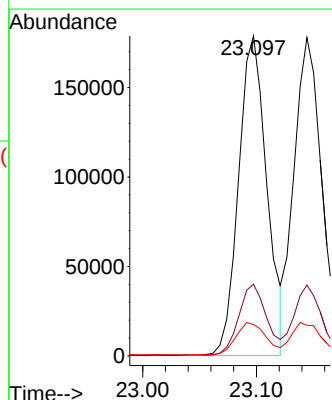
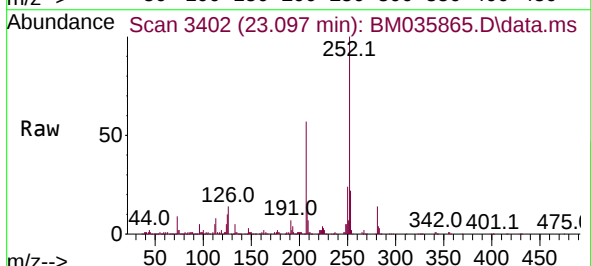
Tgt Ion:252 Resp: 308551

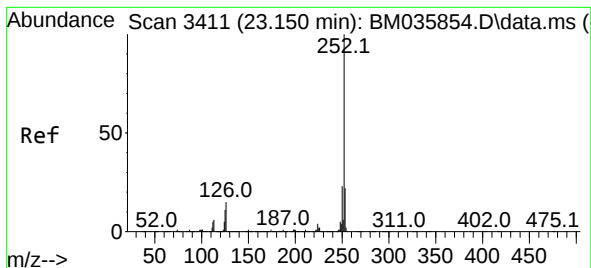
Ion Ratio Lower Upper

252 100

253 22.5 17.6 26.4

125 9.9 7.6 11.4





#89

Benzo(k)fluoranthene

Concen: 4.993 ng

RT: 23.144 min Scan# 3411

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

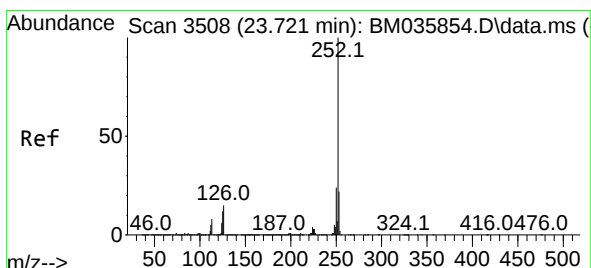
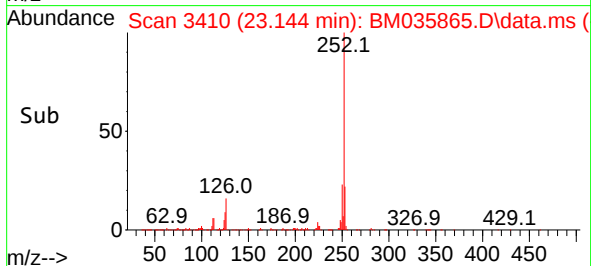
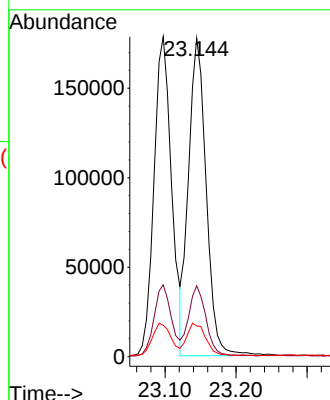
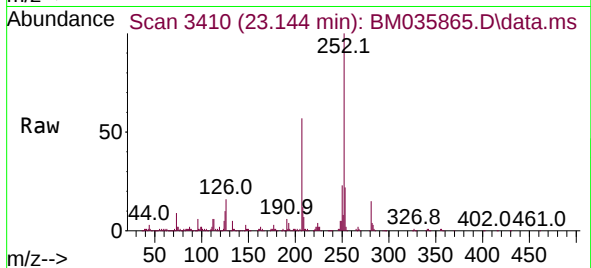
Tgt Ion:252 Resp: 307691

Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

125 9.6 7.6 11.4



#90

Benzo(a)pyrene

Concen: 5.614 ng

RT: 23.715 min Scan# 3507

Delta R.T. -0.006 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

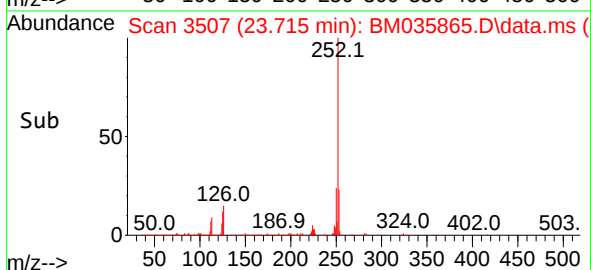
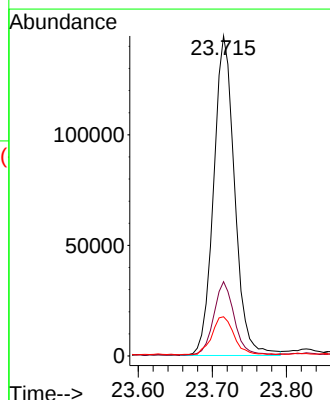
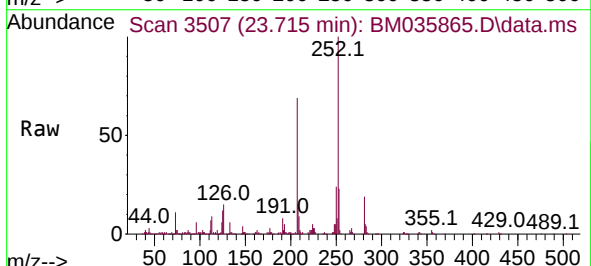
Tgt Ion:252 Resp: 284573

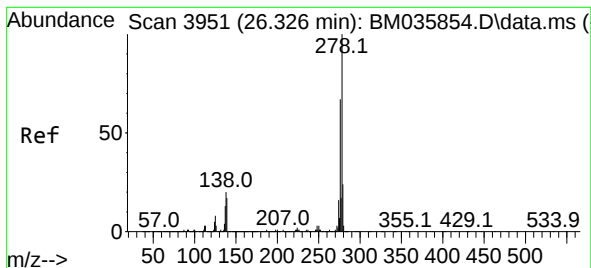
Ion Ratio Lower Upper

252 100

253 23.2 17.2 25.8

125 12.3 8.7 13.1





#91

Dibenzo(a,h)anthracene

Concen: 4.775 ng

RT: 26.315 min Scan# 3949

Delta R.T. -0.012 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2022

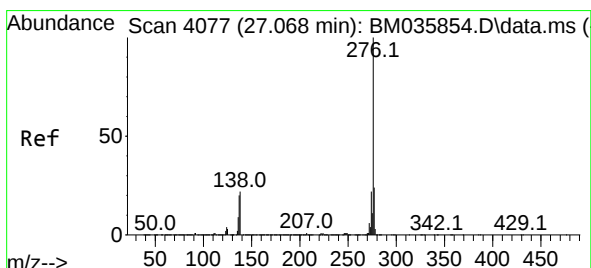
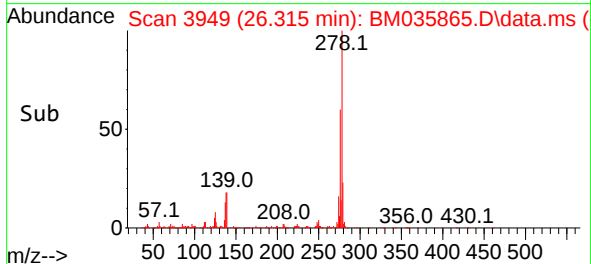
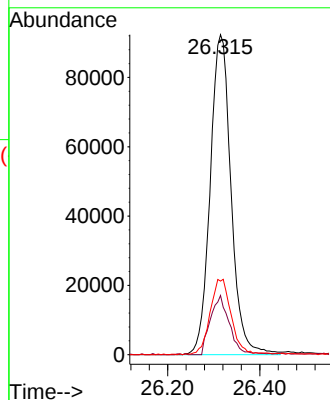
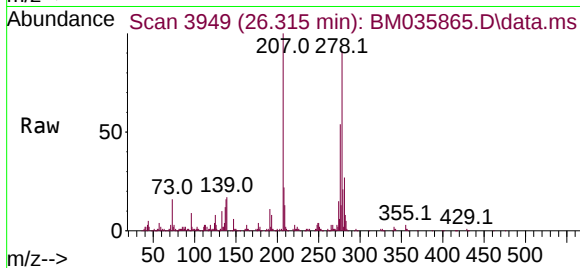
Tgt Ion:278 Resp: 290053

Ion Ratio Lower Upper

278 100

139 18.5 12.9 19.3

279 23.0 18.7 28.1



#92

Benzo(g,h,i)perylene

Concen: 4.819 ng

RT: 27.050 min Scan# 4074

Delta R.T. -0.018 min

Lab File: BM035865.D

Acq: 19 Jul 2022 14:18

Tgt Ion:276 Resp: 288671

Ion Ratio Lower Upper

276 100

277 24.1 18.7 28.1

138 22.2 17.6 26.4

