

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082225\  
 Data File : VY023189.D  
 Acq On : 22 Aug 2025 13:31  
 Operator : SY/MD  
 Sample : Q2893-02  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2025

Quant Time: Aug 25 05:15:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 437778   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 720859   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 615924   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 293369   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 213415   | 51.150   | ug/l       | 0.01 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 102.300% |      |
| 35) Dibromofluoromethane    | 7.634  | 113   | 224428   | 52.031   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 104.060% |      |
| 50) Toluene-d8              | 10.109 | 98    | 834993   | 49.553   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | = 99.100%  |      |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 246695   | 45.523   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | = 91.040%  |      |

|                              |       |     |        |        |        |     |
|------------------------------|-------|-----|--------|--------|--------|-----|
| Target Compounds             |       |     |        | Qvalue |        |     |
| 2) Dichlorodifluoromethane   | 1.867 | 85  | 20925  | 5.856  | ug/l   | 100 |
| 3) Chloromethane             | 2.068 | 50  | 34584  | 5.975  | ug/l   | 93  |
| 4) Vinyl Chloride            | 2.202 | 62  | 42891  | 5.995  | ug/l   | 97  |
| 5) Bromomethane              | 2.598 | 94  | 36600  | 6.850  | ug/l   | 100 |
| 6) Chloroethane              | 2.739 | 64  | 28338  | 5.958  | ug/l   | 97  |
| 7) Trichlorofluoromethane    | 3.062 | 101 | 47666  | 5.479  | ug/l   | 95  |
| 8) Diethyl Ether             | 3.458 | 74  | 15067  | 6.546  | ug/l   | 95  |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 25882  | 6.030  | ug/l   | 96  |
| 10) Methyl Iodide            | 4.007 | 142 | 22776  | 4.918  | ug/l   | 99  |
| 11) Tert butyl alcohol       | 4.848 | 59  | 2838   | 9.927  | ug/l # | 63  |
| 12) 1,1-Dichloroethene       | 3.793 | 96  | 24221  | 5.741  | ug/l   | 90  |
| 13) Acrolein                 | 3.659 | 56  | 7092   | 16.939 | ug/l   | 96  |
| 14) Allyl chloride           | 4.385 | 41  | 29936  | 4.823  | ug/l   | 98  |
| 15) Acrylonitrile            | 5.061 | 53  | 23773  | 25.406 | ug/l   | 95  |
| 16) Acetone                  | 3.873 | 43  | 23932  | 26.476 | ug/l   | 96  |
| 17) Carbon Disulfide         | 4.104 | 76  | 75491  | 5.488  | ug/l   | 97  |
| 18) Methyl Acetate           | 4.391 | 43  | 13587  | 5.051  | ug/l   | 96  |
| 19) Methyl tert-butyl Ether  | 5.122 | 73  | 53282  | 4.874  | ug/l   | 98  |
| 20) Methylene Chloride       | 4.622 | 84  | 59675  | 10.561 | ug/l   | 95  |
| 21) trans-1,2-Dichloroethene | 5.116 | 96  | 26357  | 5.560  | ug/l   | 92  |
| 22) Diisopropyl ether        | 6.019 | 45  | 64743  | 4.800  | ug/l # | 89  |
| 23) Vinyl Acetate            | 5.964 | 43  | 162694 | 21.813 | ug/l   | 96  |
| 24) 1,1-Dichloroethane       | 5.909 | 63  | 45340  | 5.498  | ug/l   | 98  |
| 25) 2-Butanone               | 6.903 | 43  | 28710  | 23.354 | ug/l   | 98  |
| 26) 2,2-Dichloropropane      | 6.884 | 77  | 40167  | 5.645  | ug/l   | 99  |
| 27) cis-1,2-Dichloroethene   | 6.896 | 96  | 30168  | 5.504  | ug/l   | 94  |
| 28) Bromochloromethane       | 7.250 | 49  | 16958  | 5.183  | ug/l   | 99  |
| 29) Tetrahydrofuran          | 7.262 | 42  | 17078  | 22.411 | ug/l   | 98  |
| 30) Chloroform               | 7.427 | 83  | 48645  | 5.719  | ug/l   | 93  |
| 31) Cyclohexane              | 7.707 | 56  | 43923  | 5.652  | ug/l # | 84  |
| 32) 1,1,1-Trichloroethane    | 7.622 | 97  | 42836  | 5.676  | ug/l   | 98  |
| 36) 1,1-Dichloropropene      | 7.835 | 75  | 33791  | 5.271  | ug/l   | 98  |
| 37) Ethyl Acetate            | 6.988 | 43  | 12029  | 4.467  | ug/l # | 92  |
| 38) Carbon Tetrachloride     | 7.823 | 117 | 37681  | 5.412  | ug/l   | 98  |
| 39) Methylcyclohexane        | 9.116 | 83  | 41435  | 4.908  | ug/l   | 90  |
| 40) Benzene                  | 8.085 | 78  | 106668 | 5.399  | ug/l   | 99  |

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 Sample : Q2893-02  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2025

Quant Time: Aug 25 05:15:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.220  | 41   | 5120     | 3.295  | ug/l # | 71       |
| 42) 1,2-Dichloroethane        | 8.165  | 62   | 26538    | 5.165  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.201  | 43   | 25460    | 4.678  | ug/l # | 84       |
| 44) Trichloroethene           | 8.866  | 130  | 28531    | 5.588  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 24657    | 5.424  | ug/l   | 94       |
| 46) Dibromomethane            | 9.231  | 93   | 13592    | 5.209  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.426  | 83   | 37063    | 5.520  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 9516     | 3.654  | ug/l # | 81       |
| 49) 1,4-Dioxane               | 9.237  | 88   | 2692     | 87.990 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 58201    | 20.731 | ug/l   | 98       |
| 52) Toluene                   | 10.170 | 92   | 65199    | 5.196  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 29040    | 4.776  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 34221    | 4.760  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 18282    | 5.236  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 17872    | 4.000  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.713 | 76   | 30036    | 5.073  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 41835    | 19.851 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.762 | 43   | 36787    | 19.243 | ug/l   | 97       |
| 60) Dibromochloromethane      | 10.914 | 129  | 24051    | 5.221  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 16815    | 5.124  | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.646 | 164  | 30047    | 5.463  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.438 | 112  | 71285    | 5.366  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 24673    | 5.472  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.518 | 91   | 110596   | 4.837  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 86470    | 9.684  | ug/l   | 97       |
| 69) o-Xylene                  | 11.950 | 106  | 39003    | 4.664  | ug/l   | 96       |
| 70) Styrene                   | 11.969 | 104  | 62987    | 4.605  | ug/l   | 97       |
| 71) Bromoform                 | 12.133 | 173  | 13584    | 5.155  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.255 | 105  | 101031   | 4.879  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 17194    | 3.916  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 19429    | 5.495  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 23660    | 8.357  | ug/l # | 100      |
| 77) Bromobenzene              | 12.530 | 156  | 26846    | 5.435  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.591 | 91   | 124449   | 5.048  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 72404    | 5.126  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 82882    | 4.953  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 5638     | 4.820  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 75180    | 5.131  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.993 | 119  | 73675    | 4.875  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 80332    | 4.822  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 107944   | 4.862  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 87972    | 4.774  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 53010    | 5.442  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 52144    | 5.396  | ug/l   | 93       |
| 89) n-Butylbenzene            | 13.615 | 91   | 79859    | 4.718  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.877 | 117  | 21863    | 5.795  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 45376    | 5.311  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 2729     | 4.958  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 23988    | 4.748  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 15727    | 5.298  | ug/l   | 96       |
| 95) Naphthalene               | 15.145 | 128  | 33094    | 3.842  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.322 | 180  | 20898    | 4.800  | ug/l   | 97       |

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Sample : Q2893-02  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

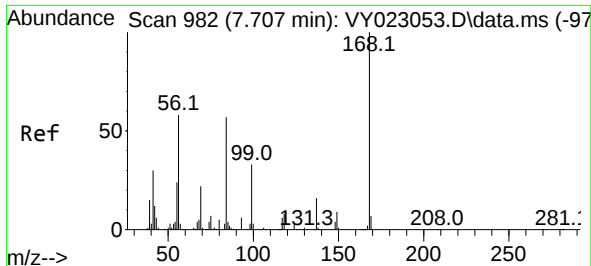
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

Quant Time: Aug 25 05:15:55 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 13 02:10:11 2025  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

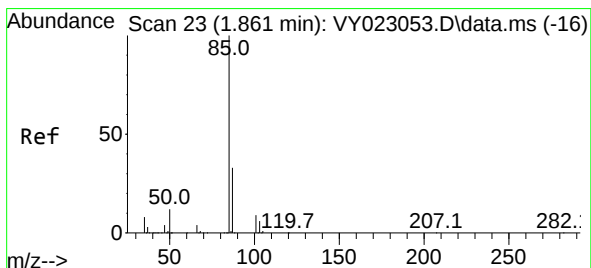
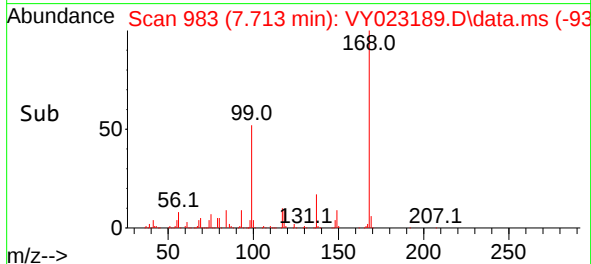
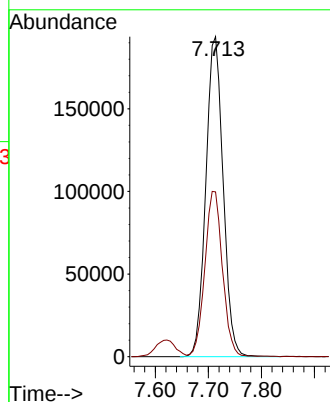
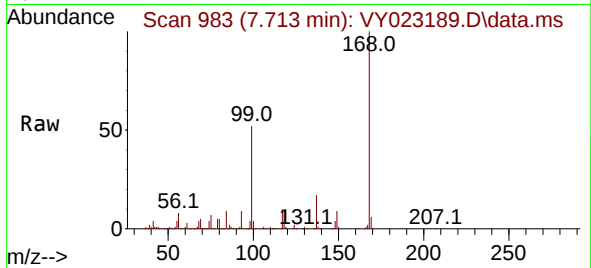




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 9  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

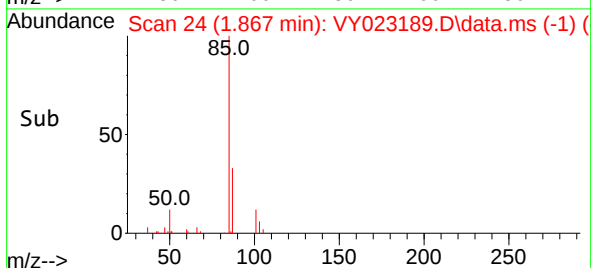
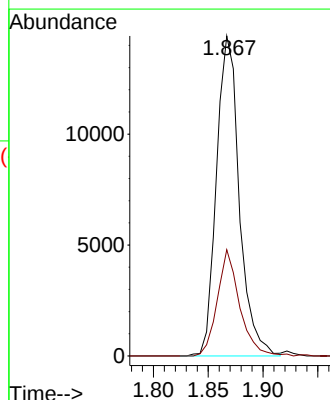
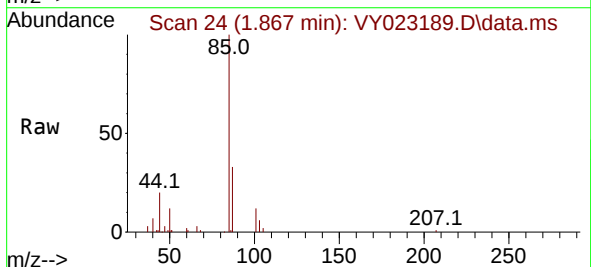
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

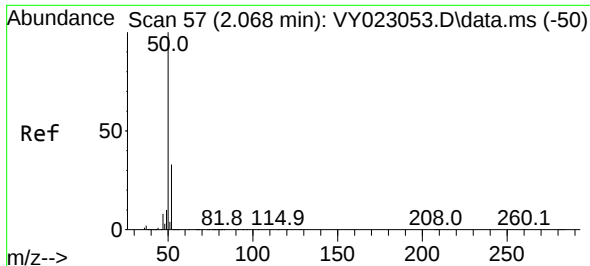
Tgt Ion:168 Resp: 437778  
Ion Ratio Lower Upper  
168 100  
99 51.5 42.8 64.2



#2  
Dichlorodifluoromethane  
Concen: 5.856 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 85 Resp: 20925  
Ion Ratio Lower Upper  
85 100  
87 33.2 16.6 49.8

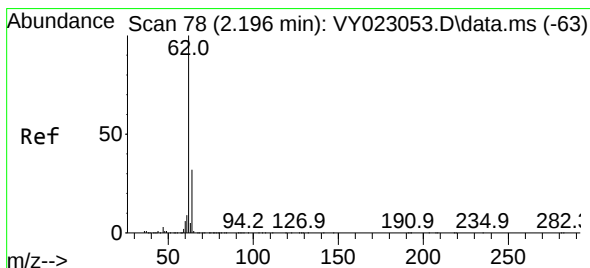
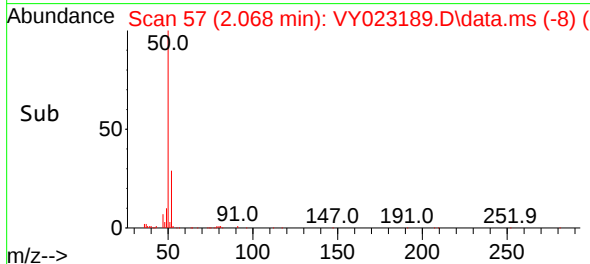
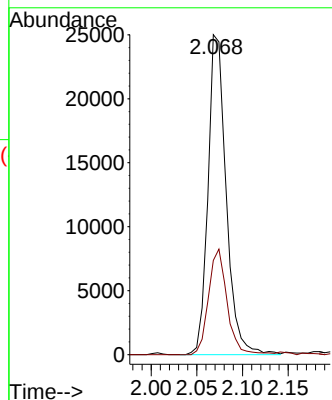
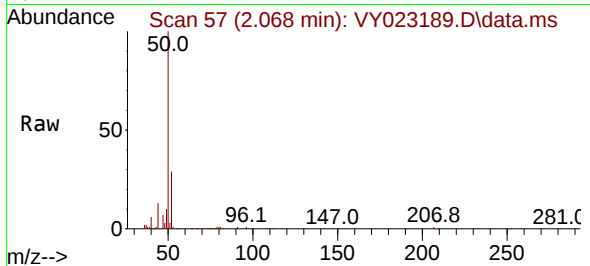




#3  
Chloromethane  
Concen: 5.975 ug/l  
RT: 2.068 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

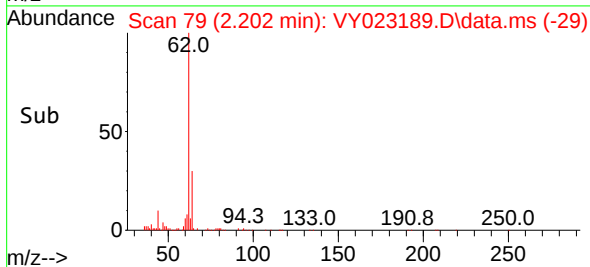
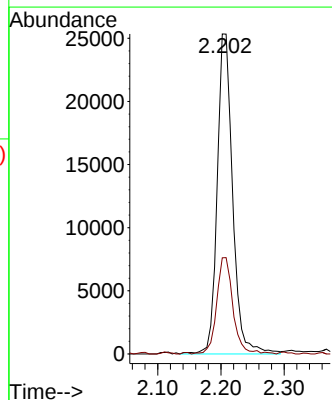
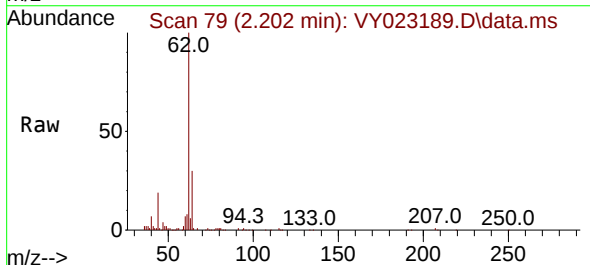
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

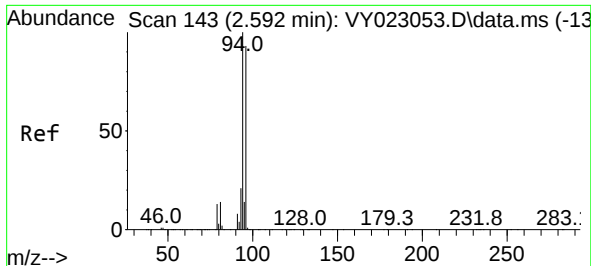
Tgt Ion: 50 Resp: 34584  
Ion Ratio Lower Upper  
50 100  
52 29.4 26.7 40.1



#4  
Vinyl Chloride  
Concen: 5.995 ug/l  
RT: 2.202 min Scan# 79  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 62 Resp: 42891  
Ion Ratio Lower Upper  
62 100  
64 30.0 25.4 38.0

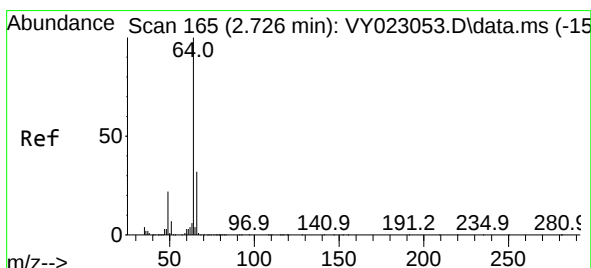
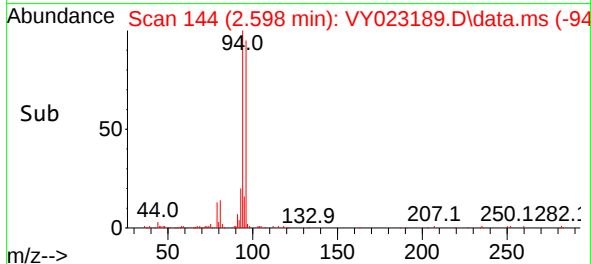
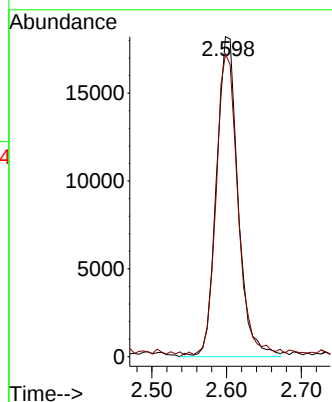
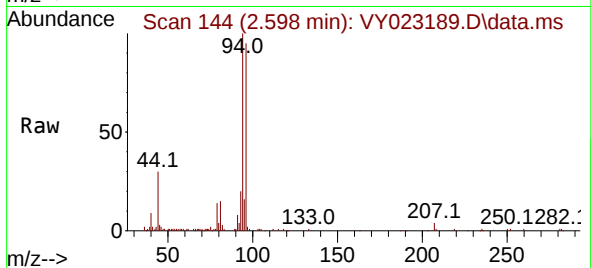




#5  
Bromomethane  
Concen: 6.850 ug/l  
RT: 2.598 min Scan# 143  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

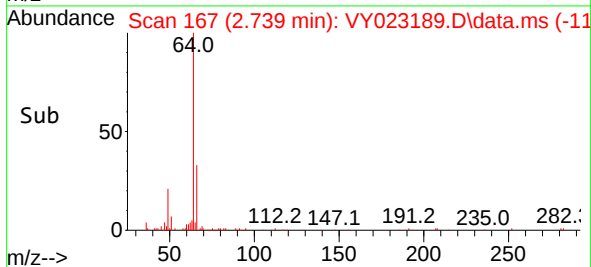
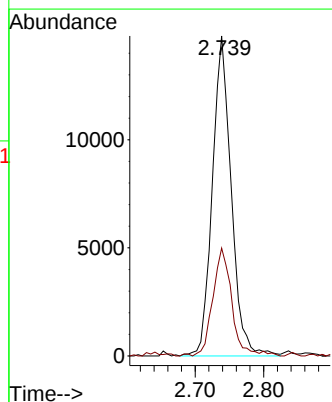
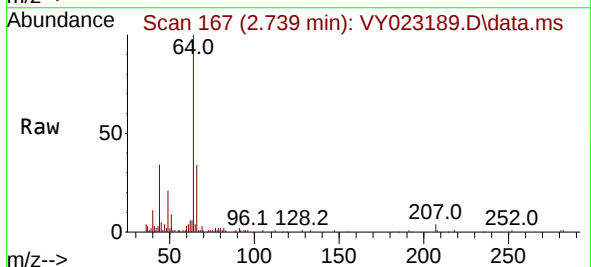
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

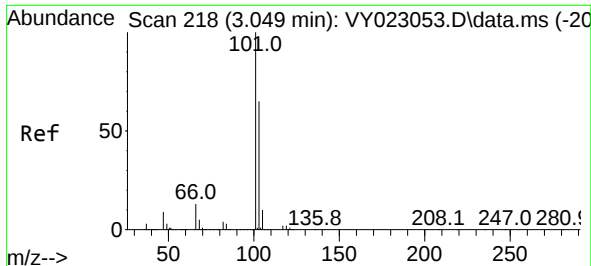
Tgt Ion: 94 Resp: 36600  
Ion Ratio Lower Upper  
94 100  
96 93.1 74.6 112.0



#6  
Chloroethane  
Concen: 5.958 ug/l  
RT: 2.739 min Scan# 167  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 64 Resp: 28338  
Ion Ratio Lower Upper  
64 100  
66 33.7 25.8 38.6

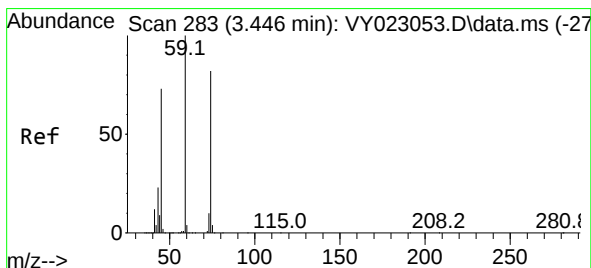
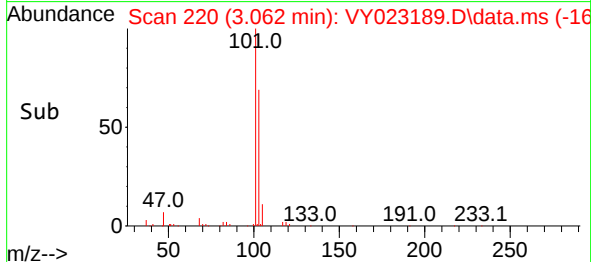
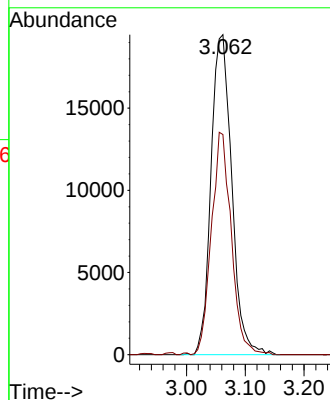
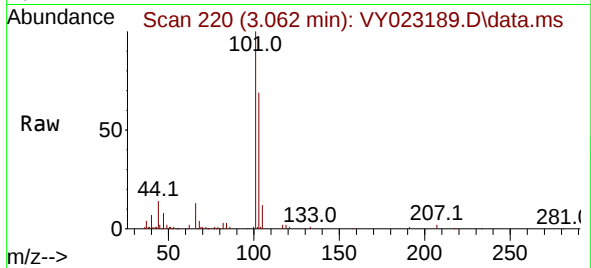




#7  
Trichlorofluoromethane  
Concen: 5.479 ug/l  
RT: 3.062 min Scan# 218  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

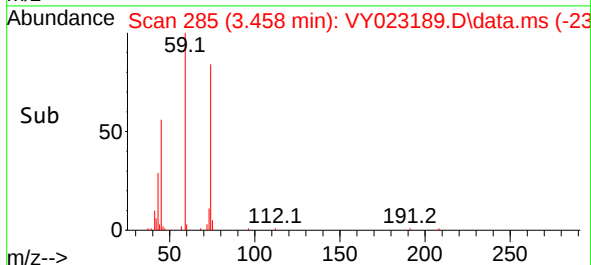
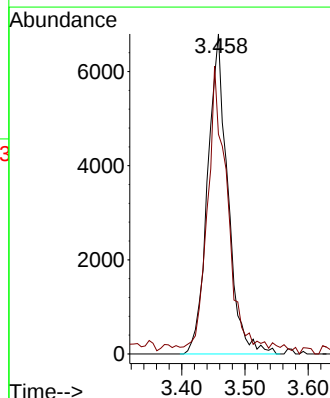
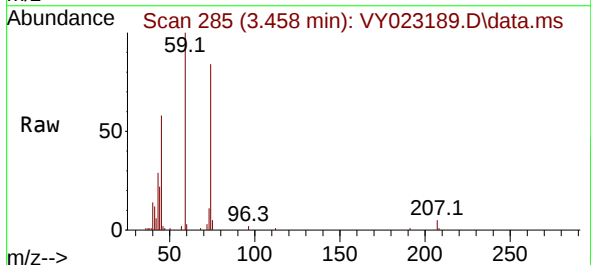
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MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

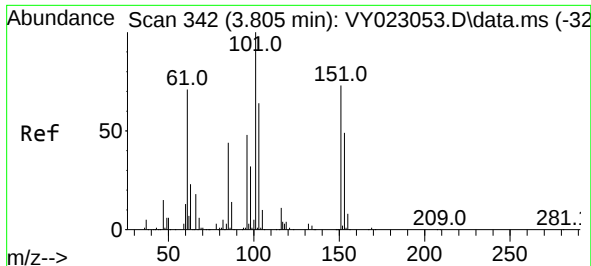
Tgt Ion:101 Resp: 47666  
Ion Ratio Lower Upper  
101 100  
103 68.8 51.9 77.9



#8  
Diethyl Ether  
Concen: 6.546 ug/l  
RT: 3.458 min Scan# 285  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 74 Resp: 15067  
Ion Ratio Lower Upper  
74 100  
45 84.0 44.4 133.2

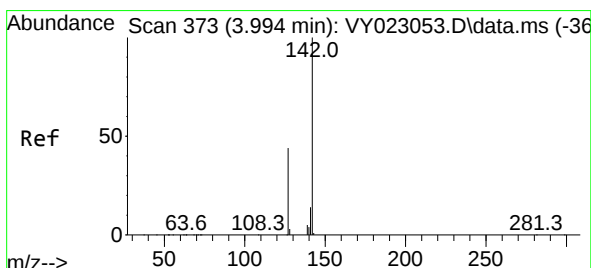
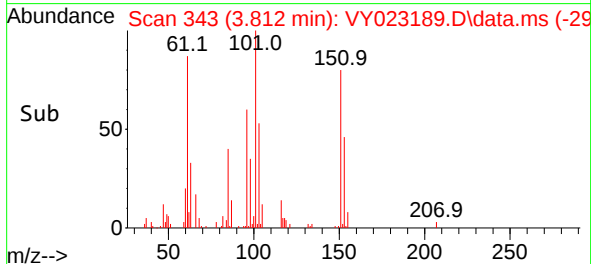
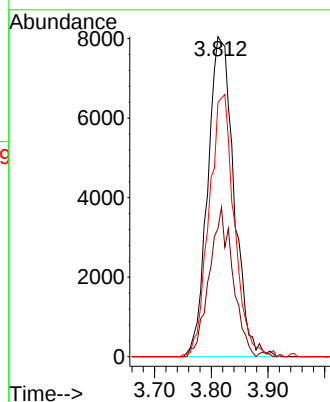
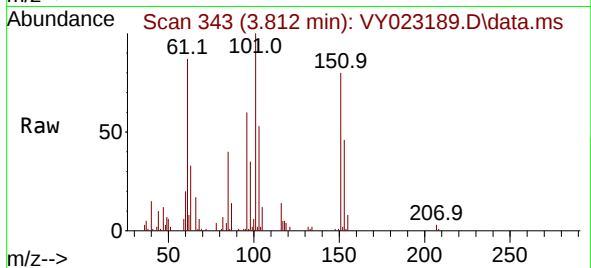




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 6.030 ug/l  
RT: 3.812 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

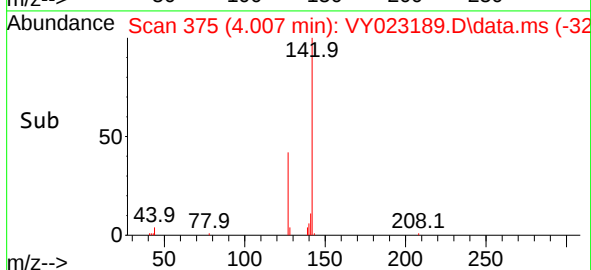
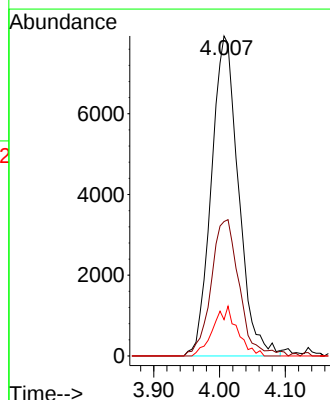
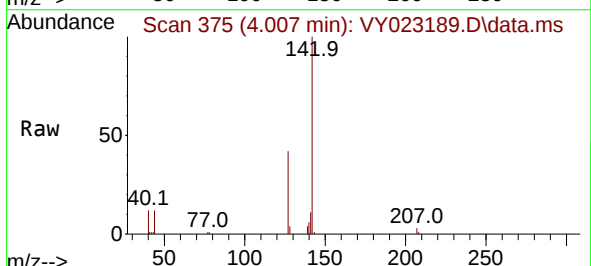
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

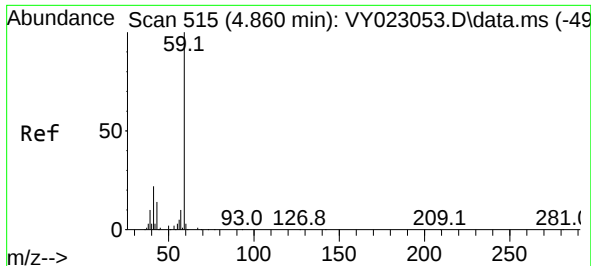
Tgt Ion:101 Resp: 25882  
Ion Ratio Lower Upper  
101 100  
85 41.9 36.3 54.5  
151 79.2 61.5 92.3



#10  
Methyl Iodide  
Concen: 4.918 ug/l  
RT: 4.007 min Scan# 375  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion:142 Resp: 22776  
Ion Ratio Lower Upper  
142 100  
127 44.1 34.9 52.3  
141 13.9 11.3 16.9

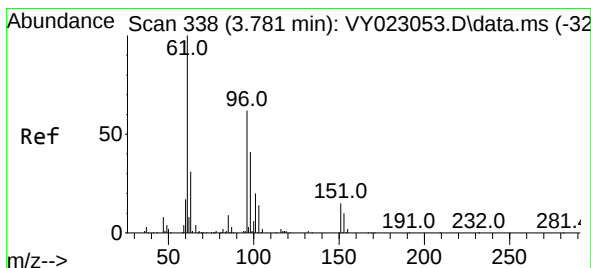
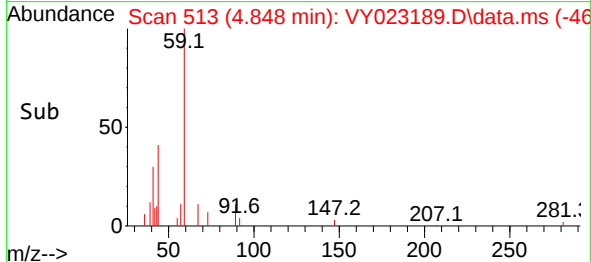
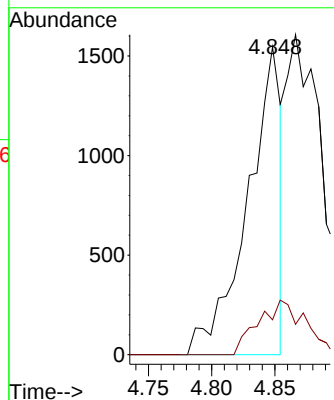
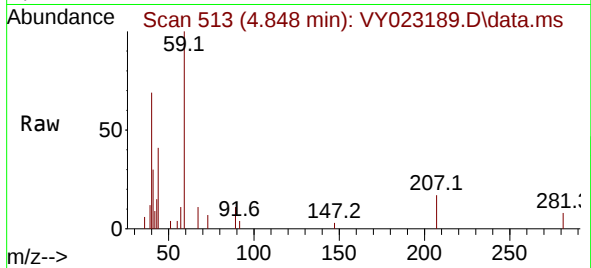




#11  
Tert butyl alcohol  
Concen: 9.927 ug/l  
RT: 4.848 min Scan# 51  
Delta R.T. -0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

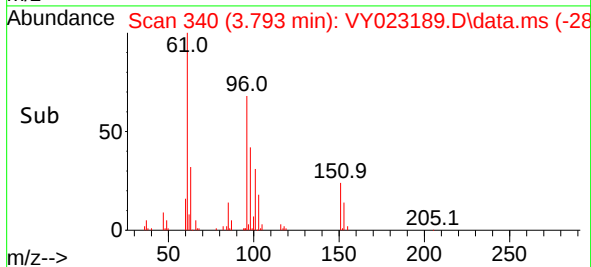
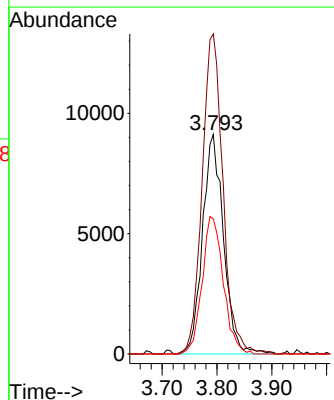
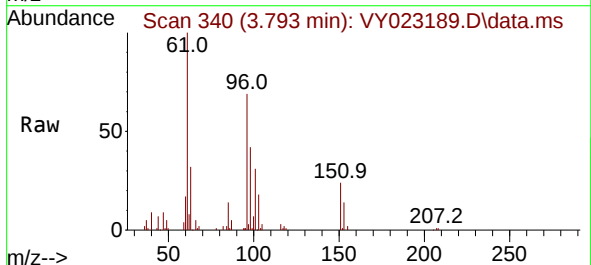
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

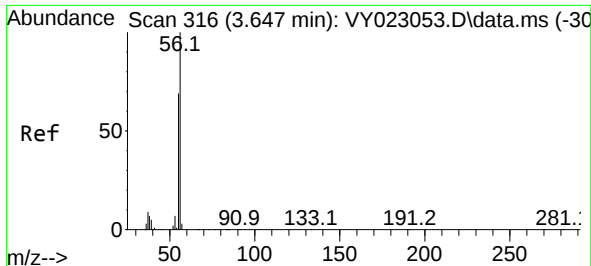
Tgt Ion: 59 Resp: 2838  
Ion Ratio Lower Upper  
59 100  
57 24.7 8.6 13.0#



#12  
1,1-Dichloroethene  
Concen: 5.741 ug/l  
RT: 3.793 min Scan# 340  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 96 Resp: 24221  
Ion Ratio Lower Upper  
96 100  
61 145.8 129.4 194.2  
98 61.5 52.8 79.2

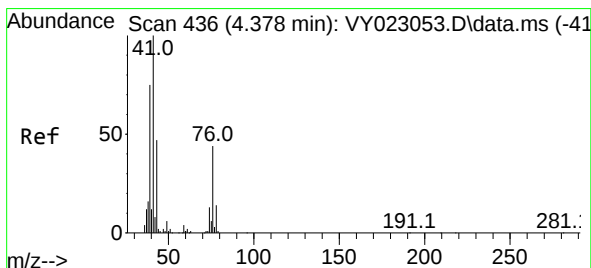
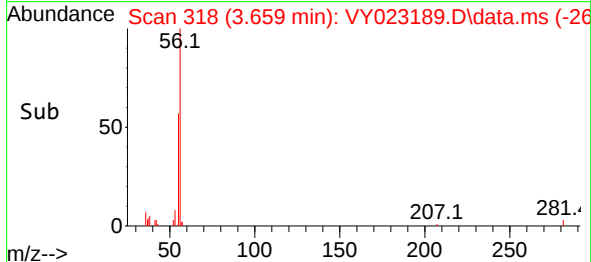
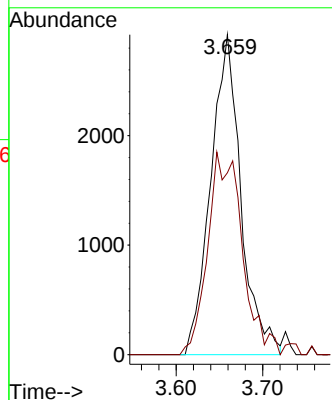
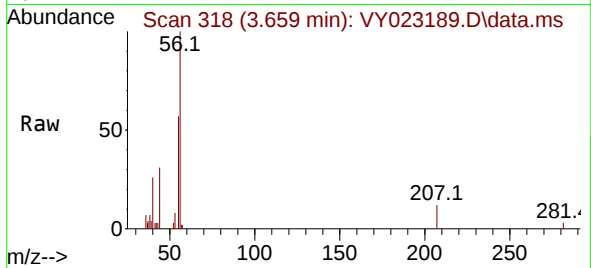




#13  
Acrolein  
Concen: 16.939 ug/l  
RT: 3.659 min Scan# 316  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

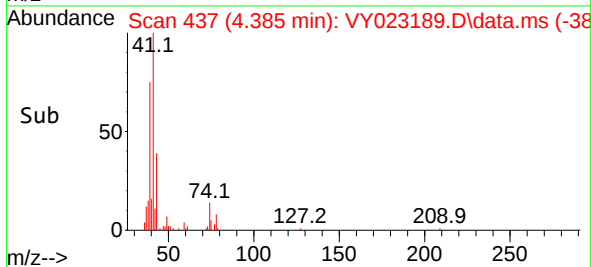
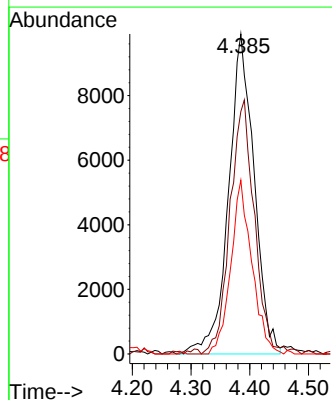
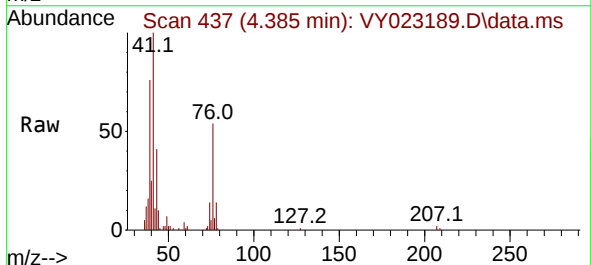
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

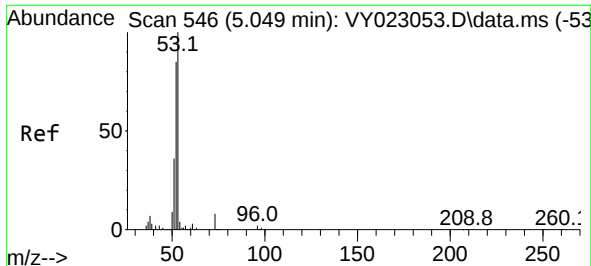
Tgt Ion: 56 Resp: 7092  
Ion Ratio Lower Upper  
56 100  
55 71.9 55.2 82.8



#14  
Allyl chloride  
Concen: 4.823 ug/l  
RT: 4.385 min Scan# 437  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 41 Resp: 29936  
Ion Ratio Lower Upper  
41 100  
39 75.8 59.8 89.6  
76 44.8 33.7 50.5

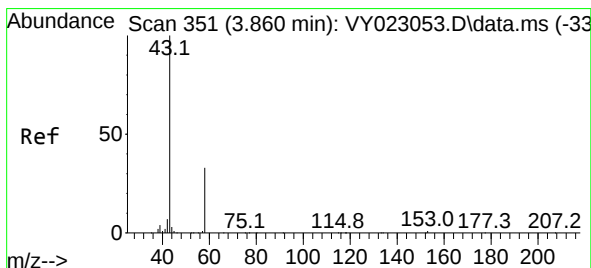
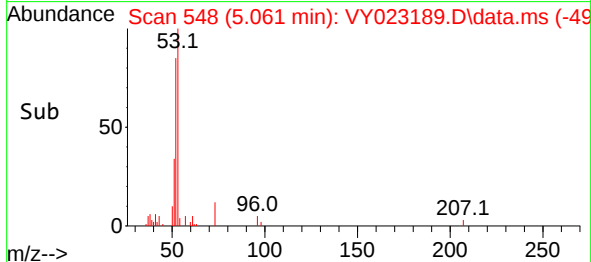
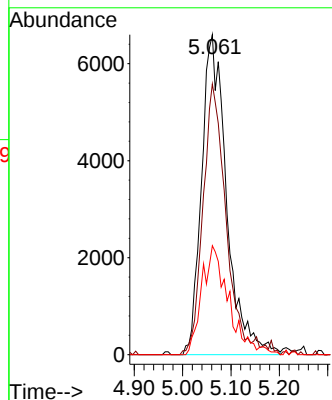
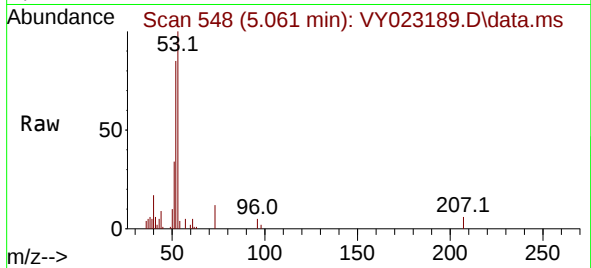




#15  
Acrylonitrile  
Concen: 25.406 ug/l  
RT: 5.061 min Scan# 54  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

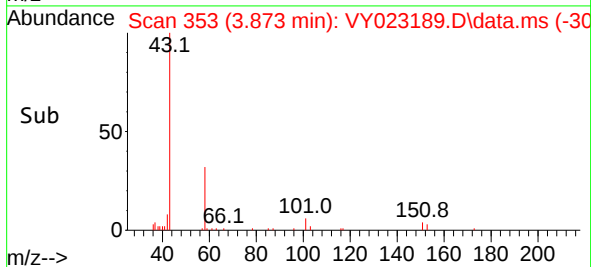
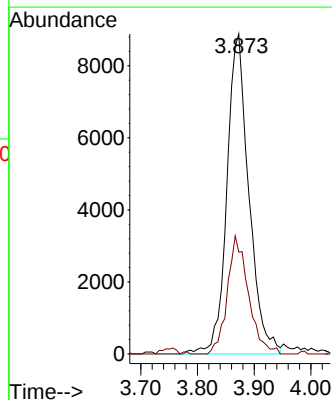
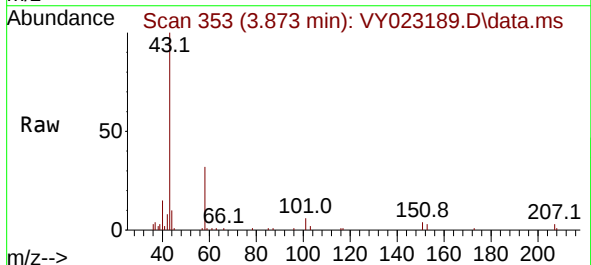
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

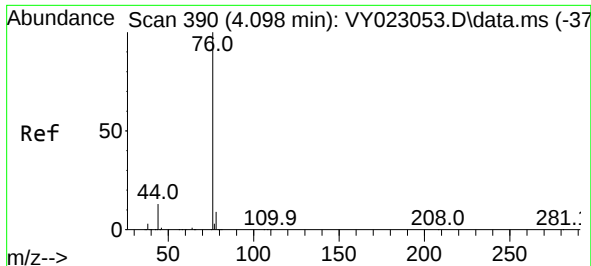
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 53    | Resp: | 23773 |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 76.2  | 65.3  | 97.9  |
| 51       | 35.6  | 29.5  | 44.3  |



#16  
Acetone  
Concen: 26.476 ug/l  
RT: 3.873 min Scan# 353  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 23932 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 31.8  | 27.1  | 40.7  |

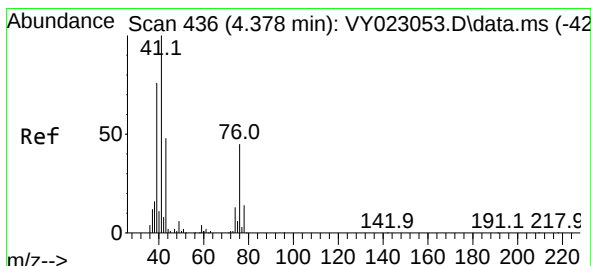
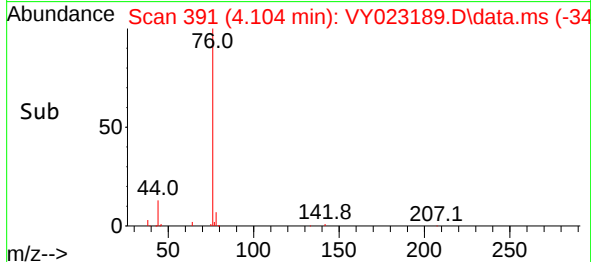
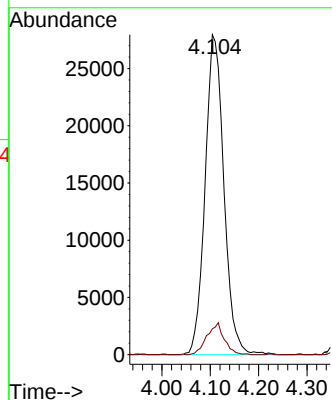
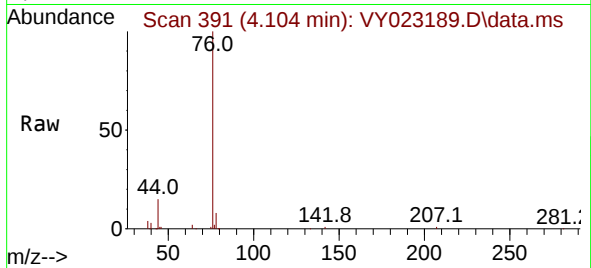




#17  
Carbon Disulfide  
Concen: 5.488 ug/l  
RT: 4.104 min Scan# 391  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

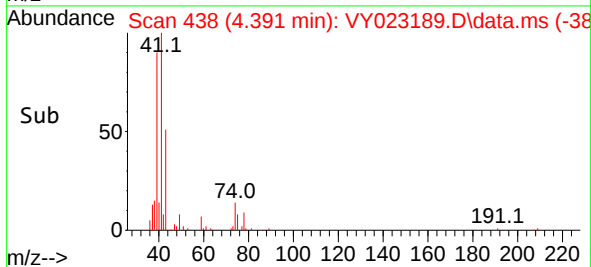
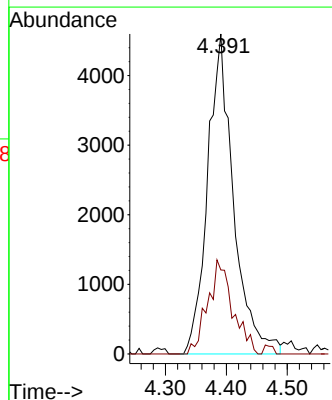
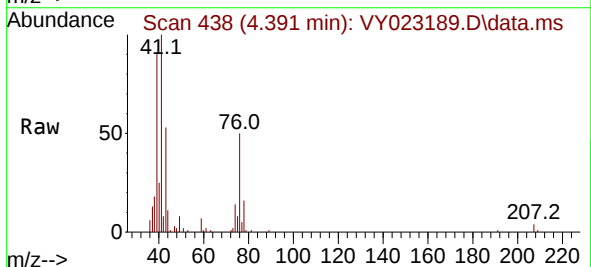
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ClientSampleId :  
LOQ-SOIL-02-QT3-2025

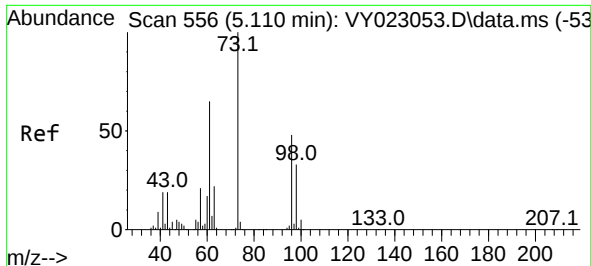
Tgt Ion: 76 Resp: 75491  
Ion Ratio Lower Upper  
76 100  
78 8.1 7.4 11.2



#18  
Methyl Acetate  
Concen: 5.051 ug/l  
RT: 4.391 min Scan# 438  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 43 Resp: 13587  
Ion Ratio Lower Upper  
43 100  
74 28.3 21.2 31.8

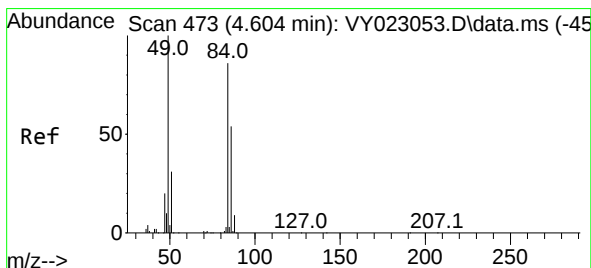
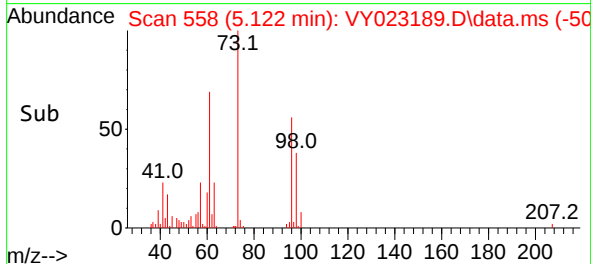
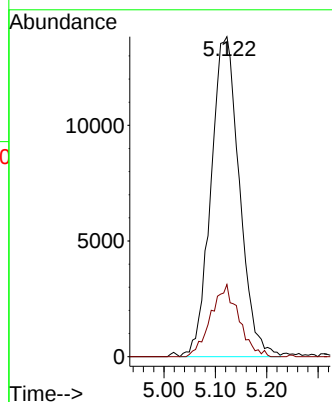
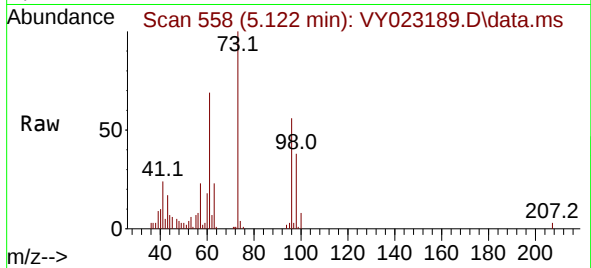




#19  
Methyl tert-butyl Ether  
Concen: 4.874 ug/l  
RT: 5.122 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

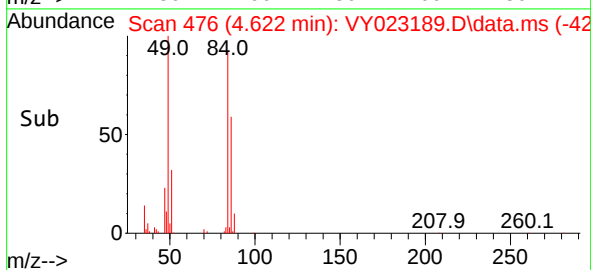
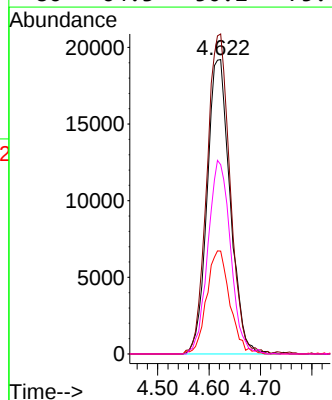
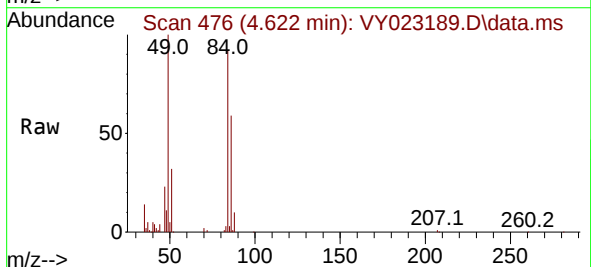
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

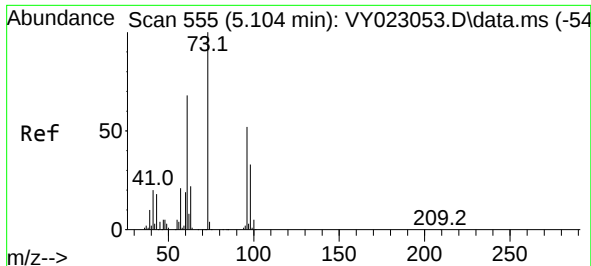
Tgt Ion: 73 Resp: 53282  
Ion Ratio Lower Upper  
73 100  
57 22.6 17.1 25.7



#20  
Methylene Chloride  
Concen: 10.561 ug/l  
RT: 4.622 min Scan# 476  
Delta R.T. 0.018 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 84 Resp: 59675  
Ion Ratio Lower Upper  
84 100  
49 108.7 93.0 139.6  
51 34.9 29.0 43.4  
86 64.3 50.2 75.4

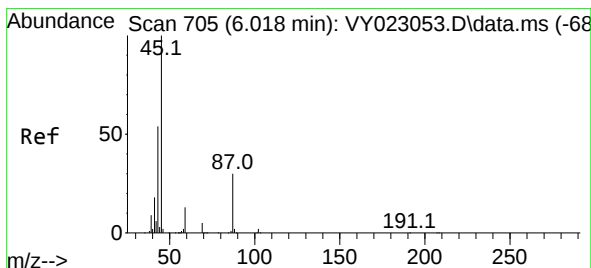
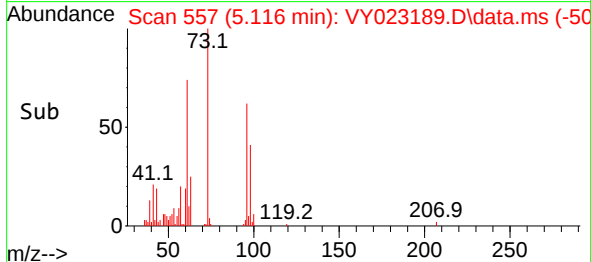
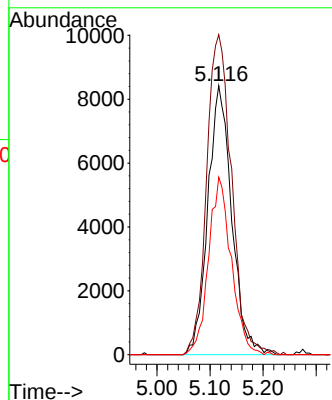
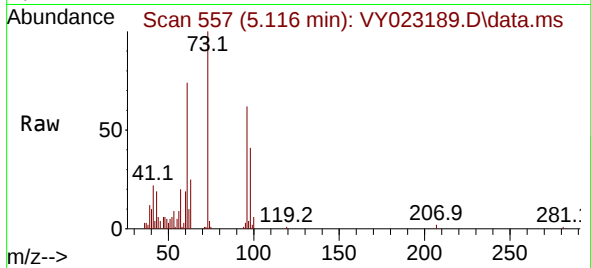




#21  
trans-1,2-Dichloroethene  
Concen: 5.560 ug/l  
RT: 5.116 min Scan# 511  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

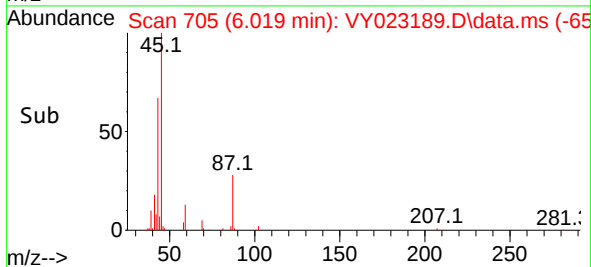
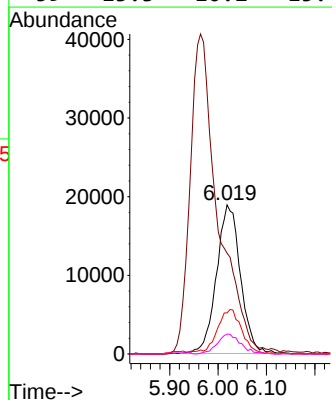
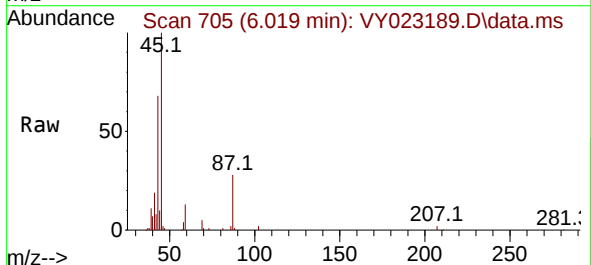
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

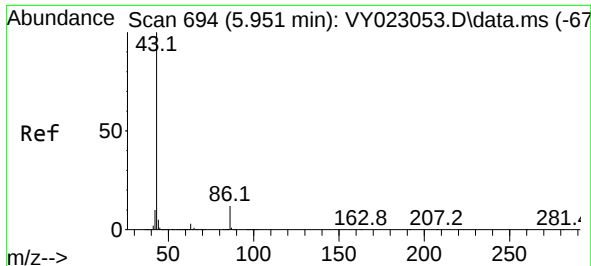
Tgt Ion: 96 Resp: 26357  
Ion Ratio Lower Upper  
96 100  
61 119.0 104.8 157.2  
98 66.0 50.1 75.1



#22  
Diisopropyl ether  
Concen: 4.800 ug/l  
RT: 6.019 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 45 Resp: 64743  
Ion Ratio Lower Upper  
45 100  
43 66.5 43.4 65.0#  
87 27.7 24.4 36.6  
59 13.3 10.2 15.4

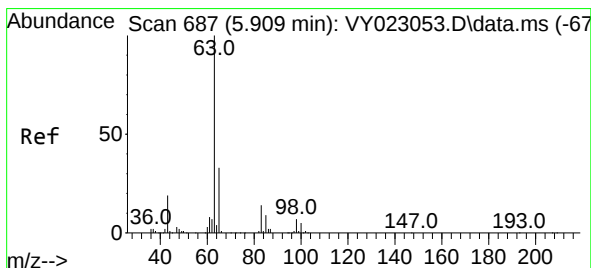
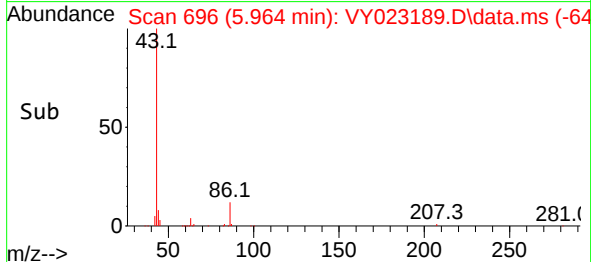
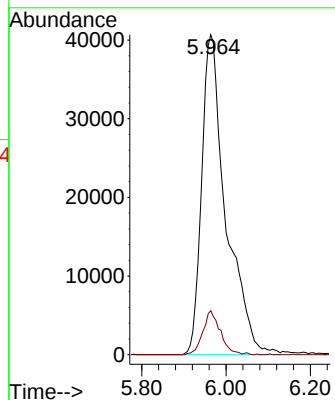
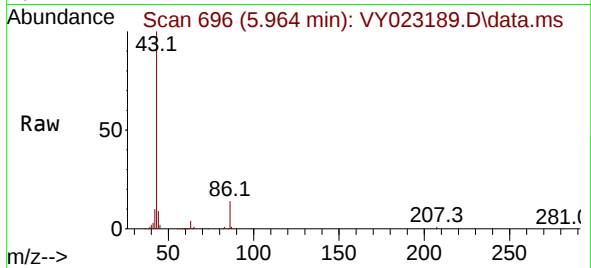




#23  
 Vinyl Acetate  
 Concen: 21.813 ug/l  
 RT: 5.964 min Scan# 694  
 Delta R.T. 0.012 min  
 Lab File: VY023189.D  
 Acq: 22 Aug 2025 13:31

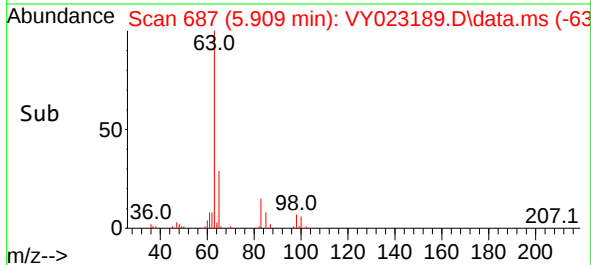
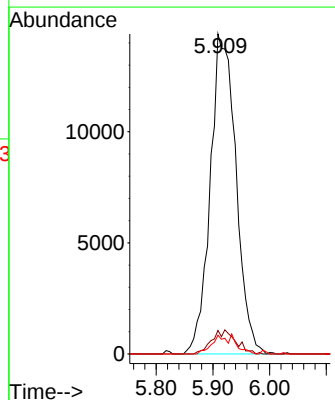
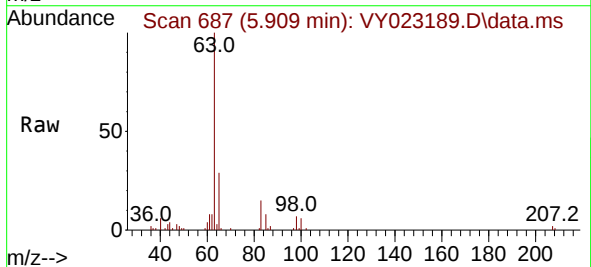
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2025

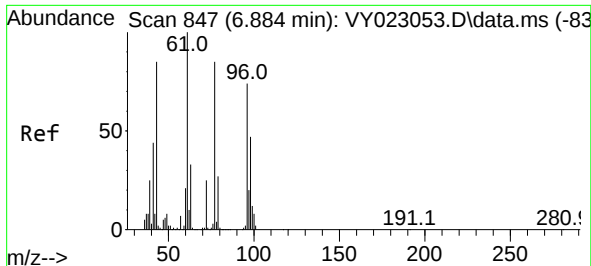
Tgt Ion: 43 Resp: 162694  
 Ion Ratio Lower Upper  
 43 100  
 86 13.7 9.6 14.4



#24  
 1,1-Dichloroethane  
 Concen: 5.498 ug/l  
 RT: 5.909 min Scan# 687  
 Delta R.T. 0.000 min  
 Lab File: VY023189.D  
 Acq: 22 Aug 2025 13:31

Tgt Ion: 63 Resp: 45340  
 Ion Ratio Lower Upper  
 63 100  
 98 7.3 3.5 10.6  
 100 5.9 2.4 7.1

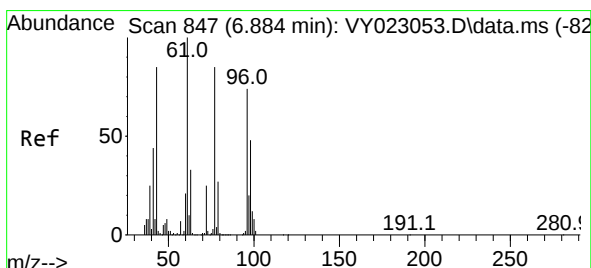
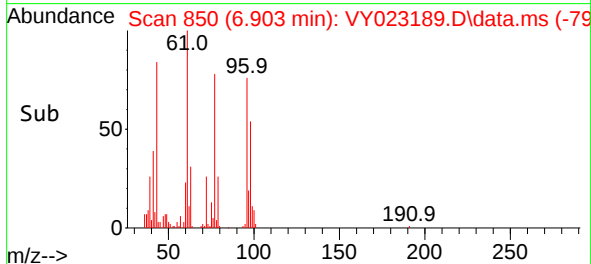
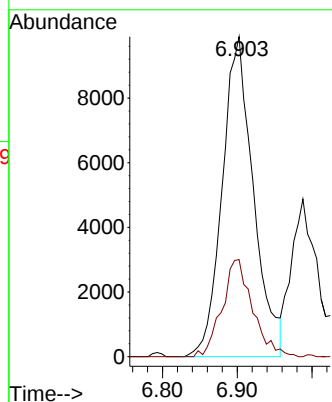
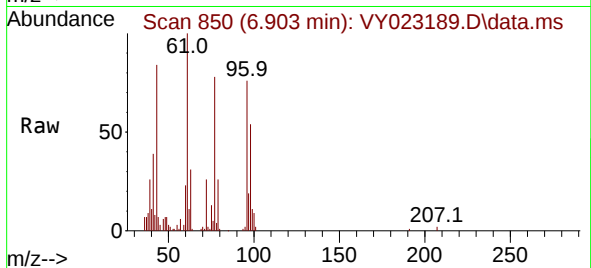




#25  
2-Butanone  
Concen: 23.354 ug/l  
RT: 6.903 min Scan# 81  
Delta R.T. 0.018 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

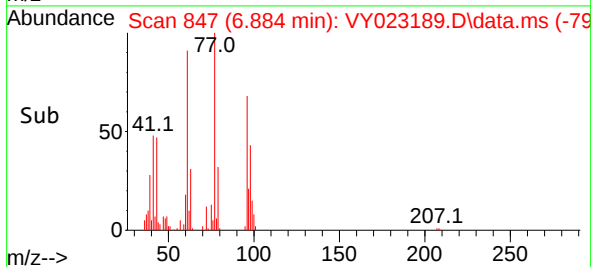
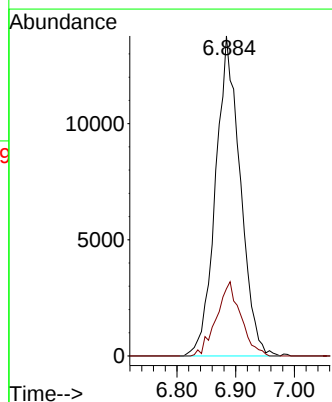
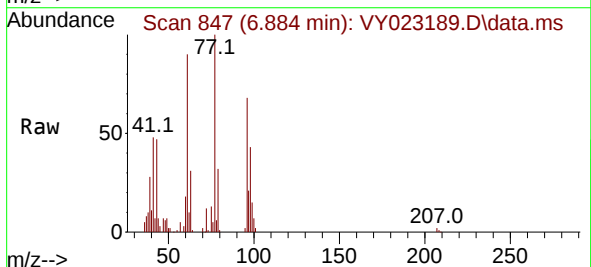
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

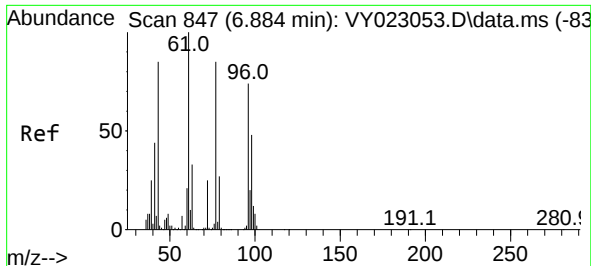
Tgt Ion: 43 Resp: 28710  
Ion Ratio Lower Upper  
43 100  
72 30.4 23.5 35.3



#26  
2,2-Dichloropropane  
Concen: 5.645 ug/l  
RT: 6.884 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 77 Resp: 40167  
Ion Ratio Lower Upper  
77 100  
97 22.9 11.6 34.8





#27

cis-1,2-Dichloroethene

Concen: 5.504 ug/l

RT: 6.896 min Scan# 847

Delta R.T. 0.012 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

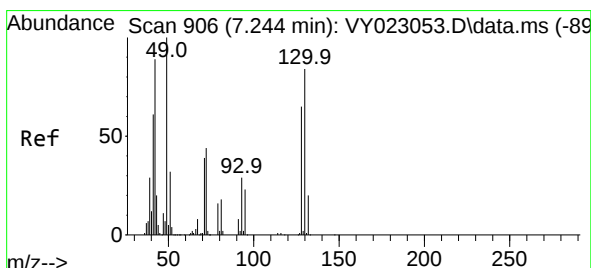
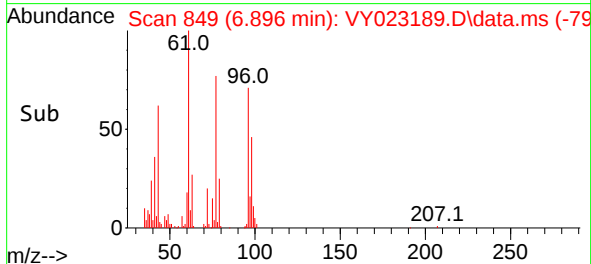
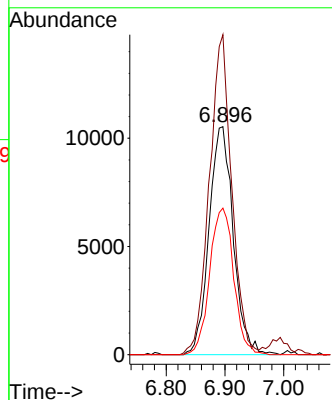
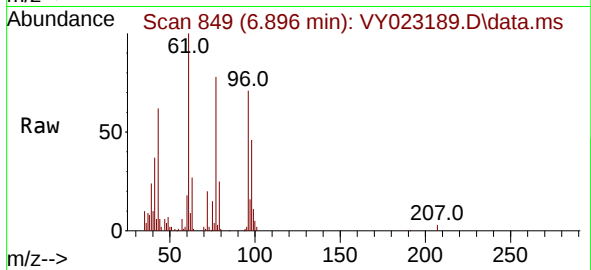
Tgt Ion: 96 Resp: 30168

Ion Ratio Lower Upper

96 100

61 129.8 0.0 278.6

98 63.8 0.0 130.4



#28

Bromochloromethane

Concen: 5.183 ug/l

RT: 7.250 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

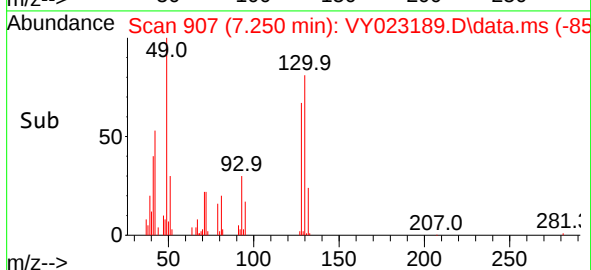
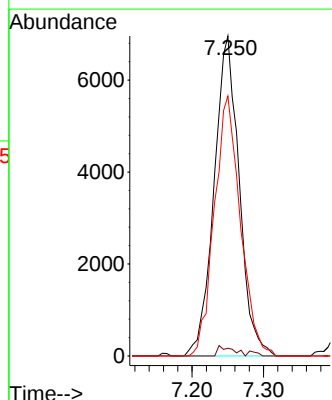
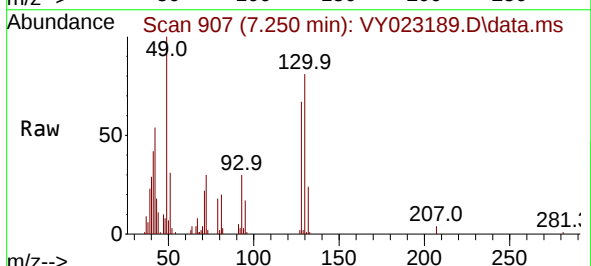
Tgt Ion: 49 Resp: 16958

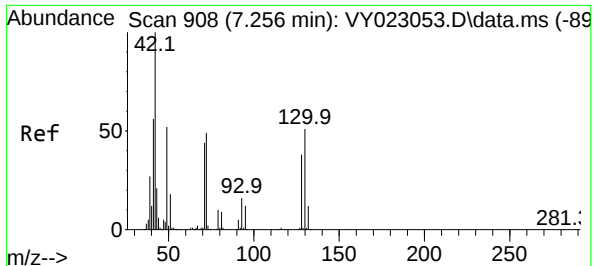
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.2

130 84.3 66.4 99.6





#29

Tetrahydrofuran

Concen: 22.411 ug/l

RT: 7.262 min Scan# 908

Delta R.T. 0.006 min

Lab File: VY023189.D

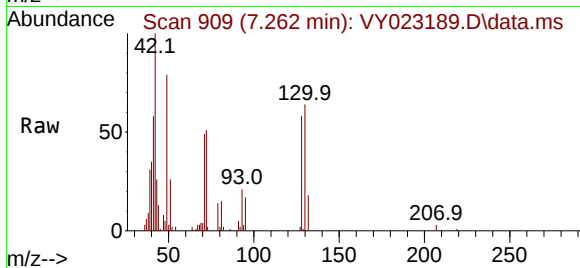
Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025



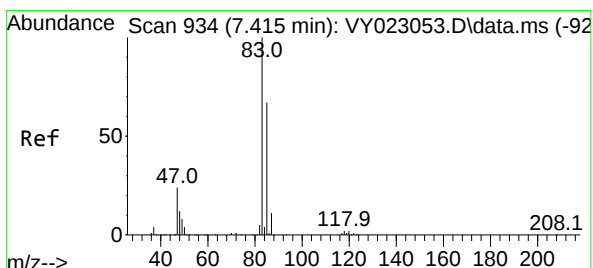
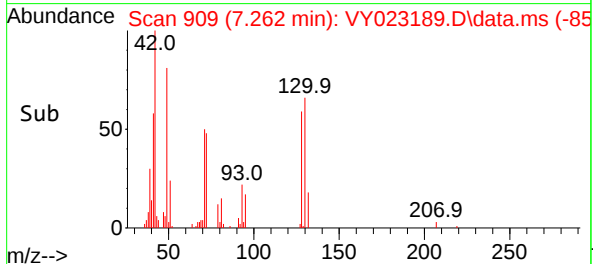
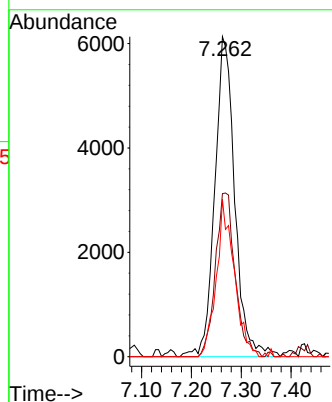
Tgt Ion: 42 Resp: 17078

Ion Ratio Lower Upper

42 100

72 50.3 39.4 59.2

71 43.9 36.5 54.7



#30

Chloroform

Concen: 5.719 ug/l

RT: 7.427 min Scan# 936

Delta R.T. 0.012 min

Lab File: VY023189.D

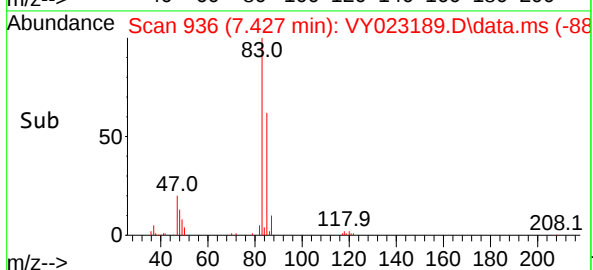
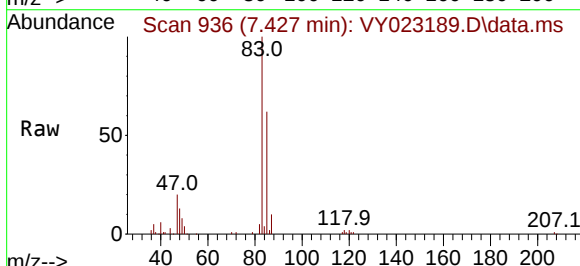
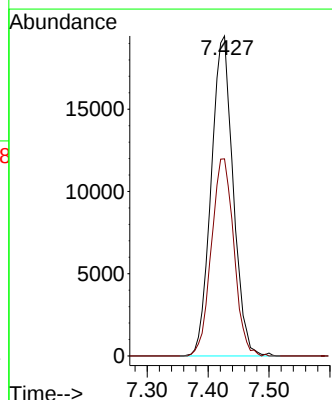
Acq: 22 Aug 2025 13:31

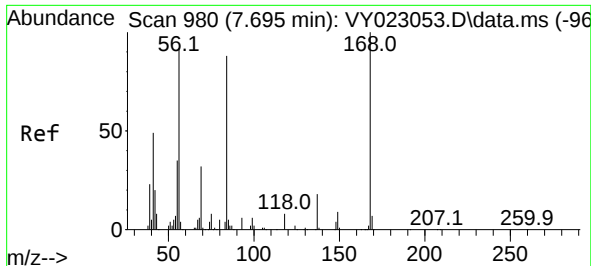
Tgt Ion: 83 Resp: 48645

Ion Ratio Lower Upper

83 100

85 61.6 53.8 80.8

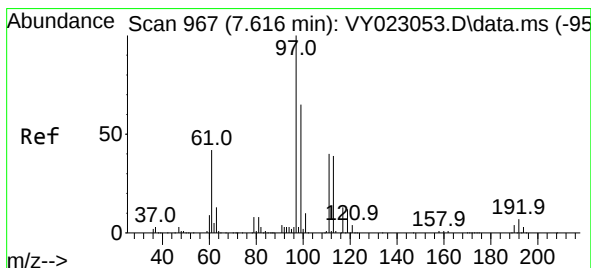
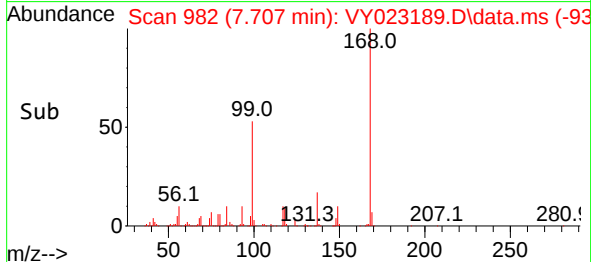
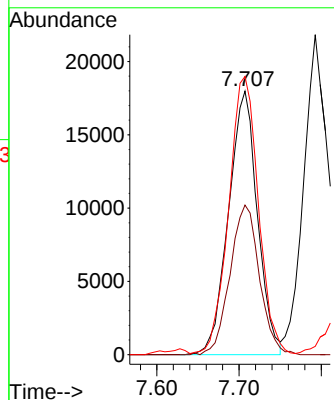
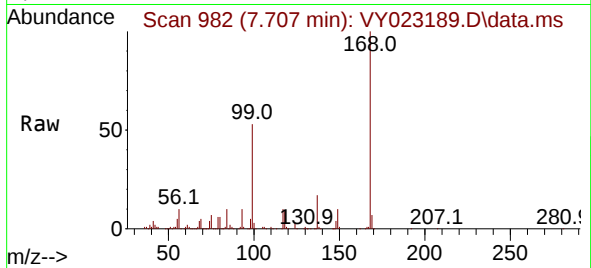




#31  
Cyclohexane  
Concen: 5.652 ug/l  
RT: 7.707 min Scan# 911  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

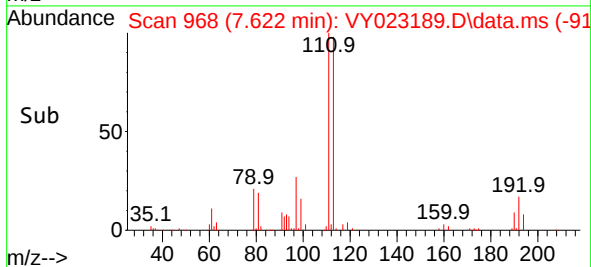
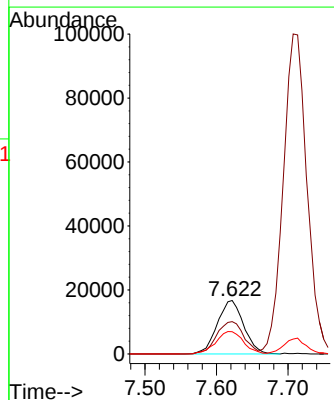
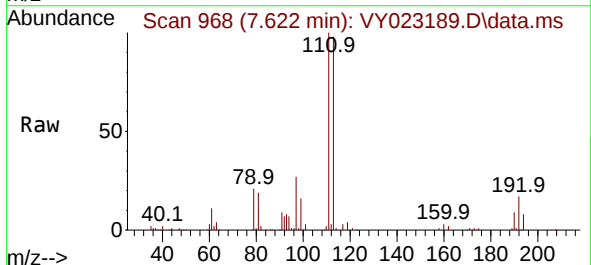
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

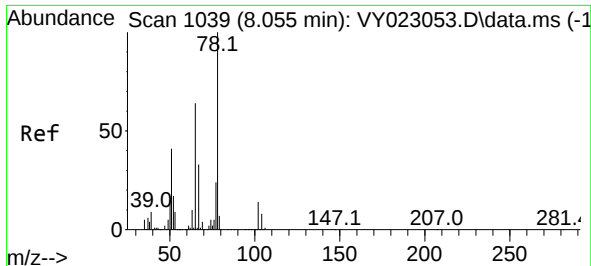
Tgt Ion: 56 Resp: 43923  
Ion Ratio Lower Upper  
56 100  
69 56.8 28.2 42.2#  
84 103.3 76.6 114.8



#32  
1,1,1-Trichloroethane  
Concen: 5.676 ug/l  
RT: 7.622 min Scan# 968  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 97 Resp: 42836  
Ion Ratio Lower Upper  
97 100  
99 62.5 51.6 77.4  
61 43.9 34.2 51.2

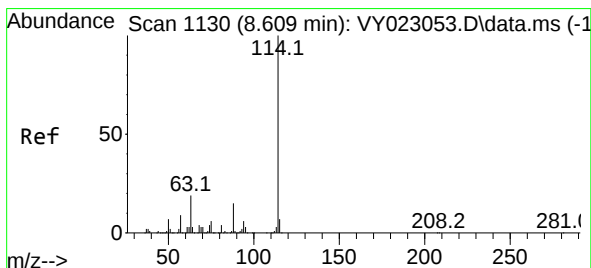
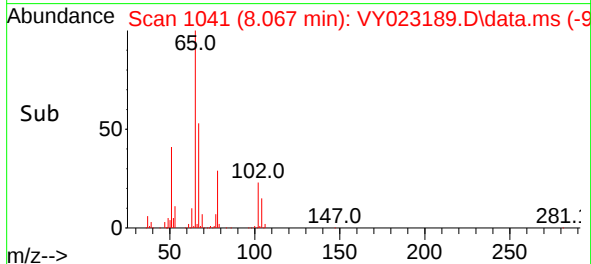
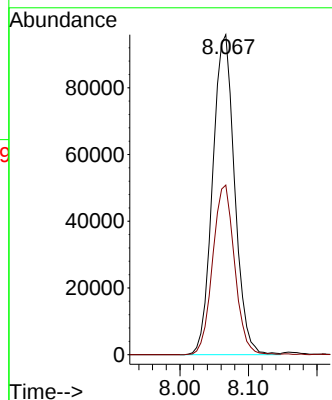
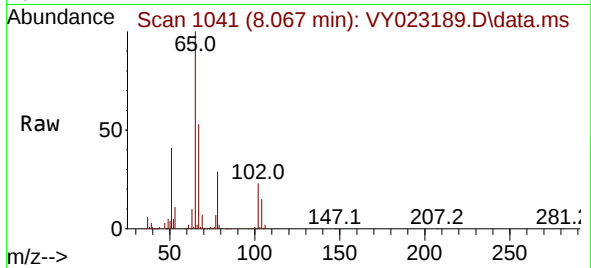




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.150 ug/l  
 RT: 8.067 min Scan# 1104  
 Delta R.T. 0.012 min  
 Lab File: VY023189.D  
 Acq: 22 Aug 2025 13:31

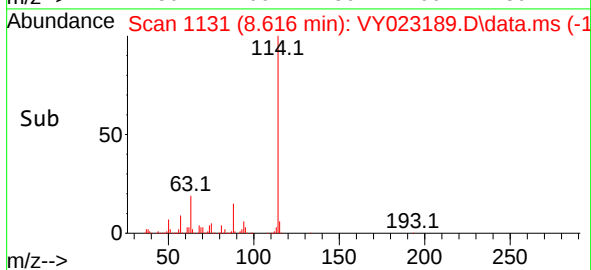
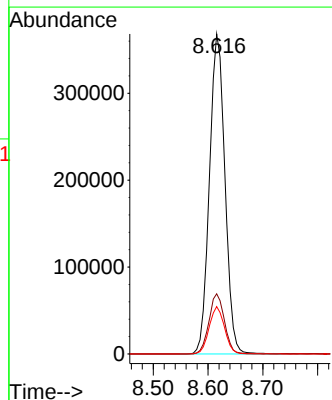
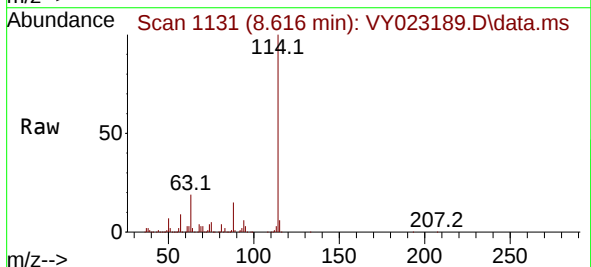
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2025

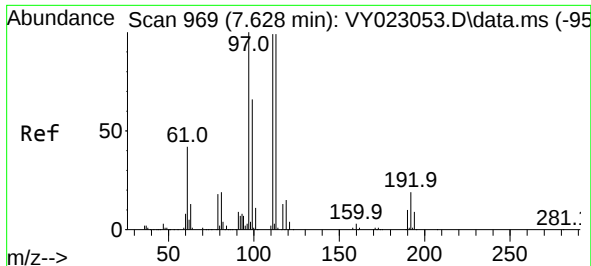
Tgt Ion: 65 Resp: 213415  
 Ion Ratio Lower Upper  
 65 100  
 67 52.9 0.0 106.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.616 min Scan# 1131  
 Delta R.T. 0.006 min  
 Lab File: VY023189.D  
 Acq: 22 Aug 2025 13:31

Tgt Ion: 114 Resp: 720859  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 38.4  
 88 14.8 0.0 30.0

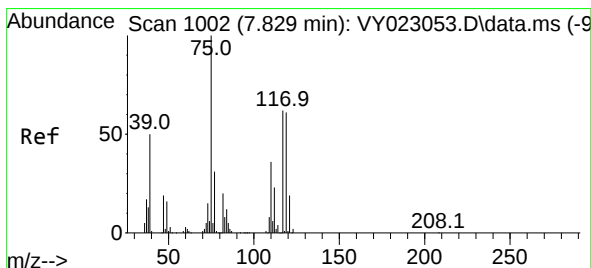
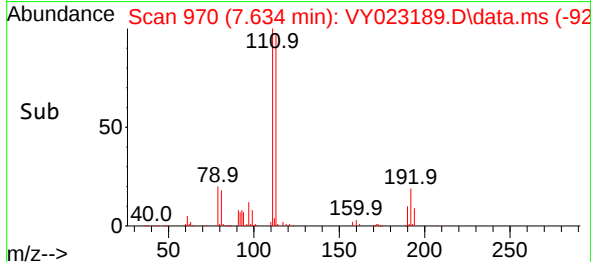
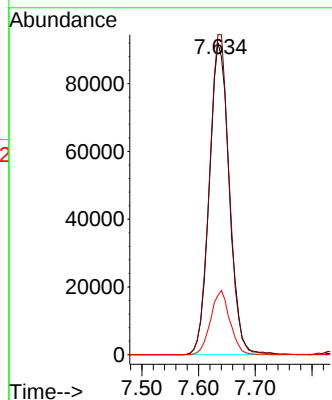
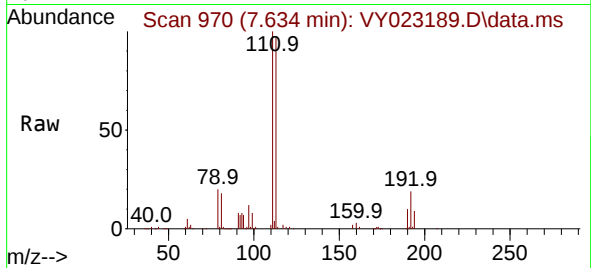




#35  
Dibromofluoromethane  
Concen: 52.031 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

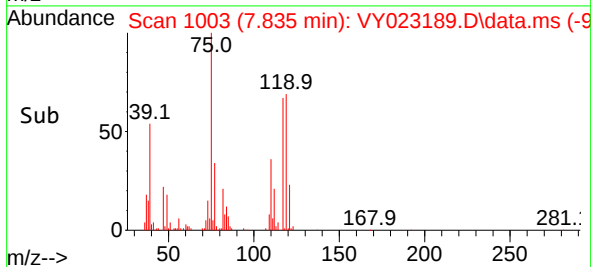
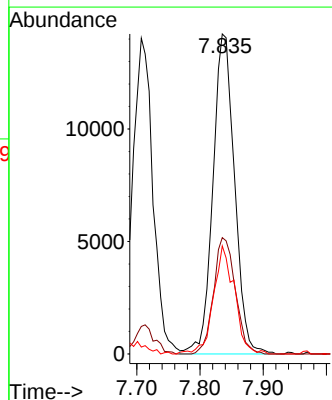
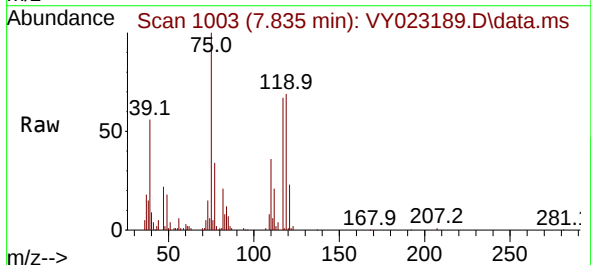
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

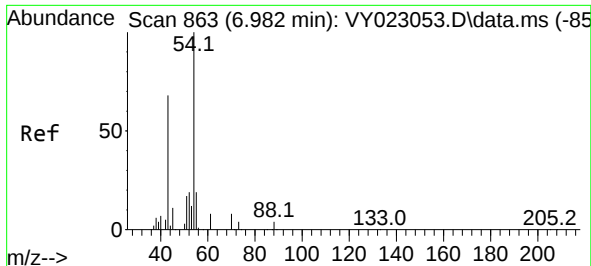
Tgt Ion:113 Resp: 224428  
Ion Ratio Lower Upper  
113 100  
111 102.6 81.1 121.7  
192 19.9 16.2 24.4



#36  
1,1-Dichloropropene  
Concen: 5.271 ug/l  
RT: 7.835 min Scan# 1003  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 75 Resp: 33791  
Ion Ratio Lower Upper  
75 100  
110 36.6 18.1 54.4  
77 32.8 24.6 37.0

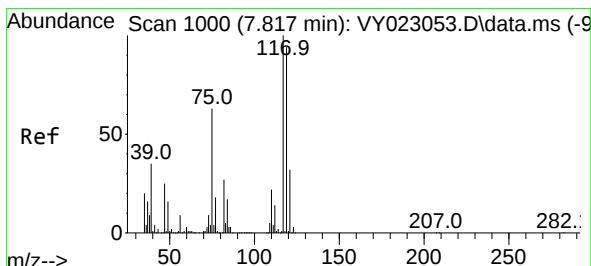
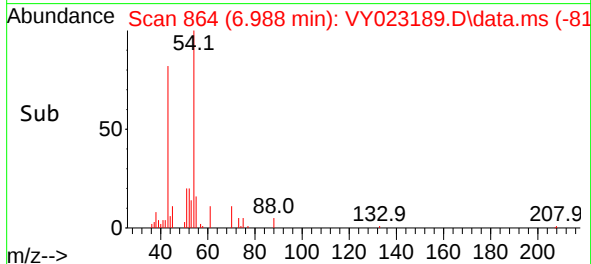
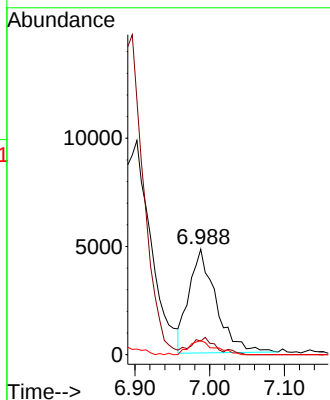
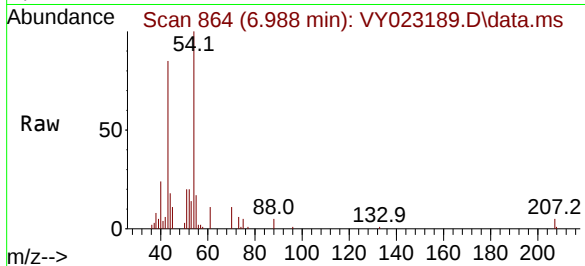




#37  
Ethyl Acetate  
Concen: 4.467 ug/l  
RT: 6.988 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

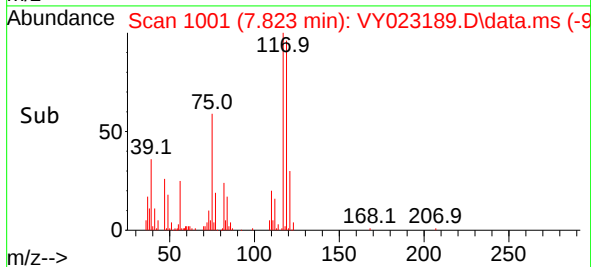
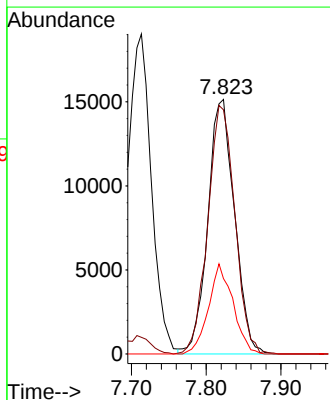
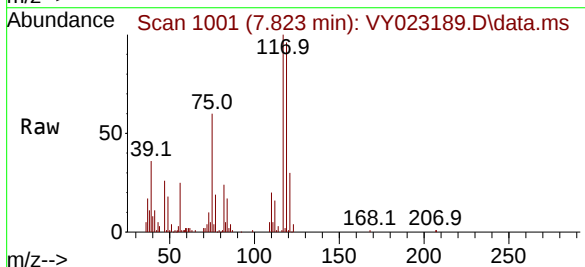
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

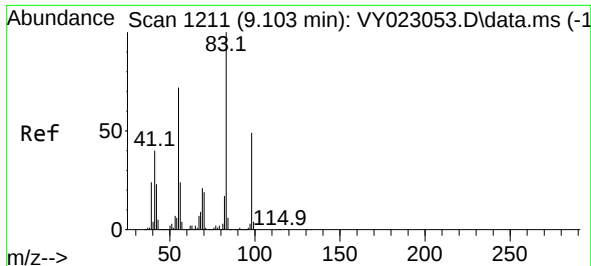
Tgt Ion: 43 Resp: 12029  
Ion Ratio Lower Upper  
43 100  
61 10.6 11.9 17.9#  
70 13.0 8.8 13.2



#38  
Carbon Tetrachloride  
Concen: 5.412 ug/l  
RT: 7.823 min Scan# 1001  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 117 Resp: 37681  
Ion Ratio Lower Upper  
117 100  
119 95.9 75.6 113.4  
121 29.6 25.8 38.8





#39

Methylcyclohexane

Concen: 4.908 ug/l

RT: 9.116 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

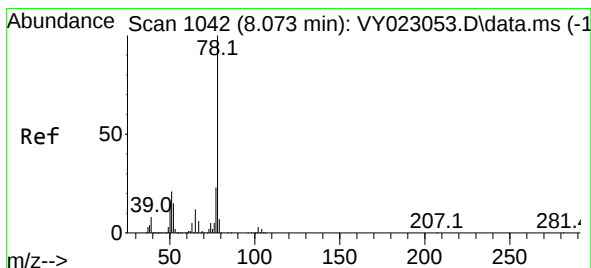
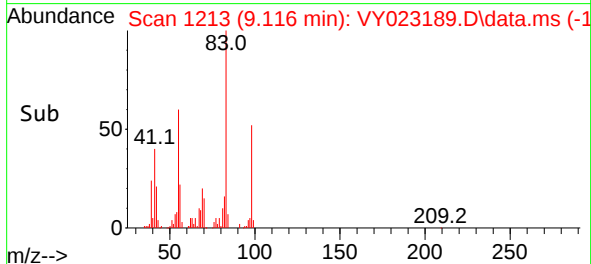
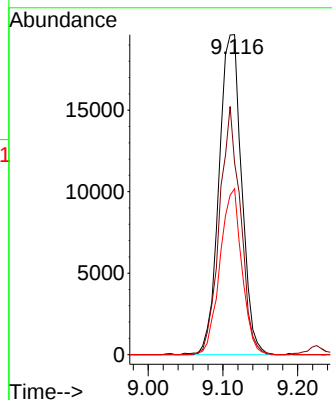
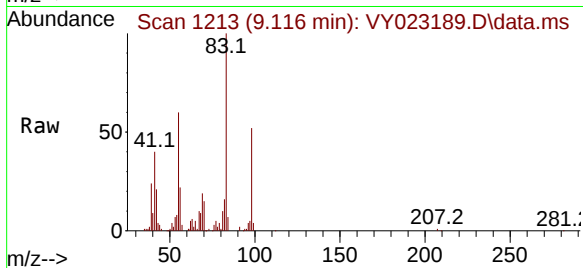
Tgt Ion: 83 Resp: 41435

Ion Ratio Lower Upper

83 100

55 59.9 57.6 86.4

98 51.8 39.2 58.8



#40

Benzene

Concen: 5.399 ug/l

RT: 8.085 min Scan# 1044

Delta R.T. 0.012 min

Lab File: VY023189.D

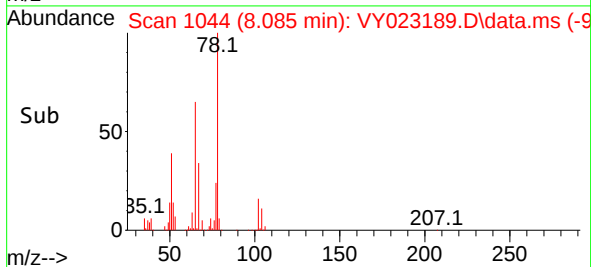
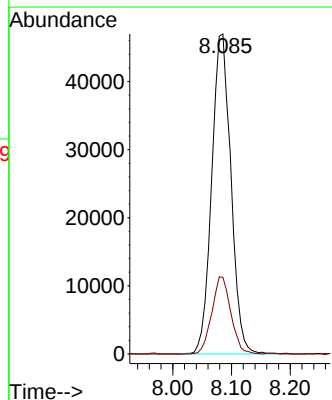
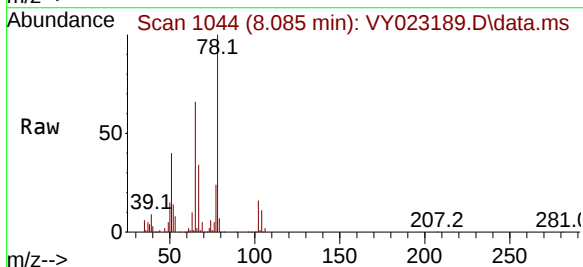
Acq: 22 Aug 2025 13:31

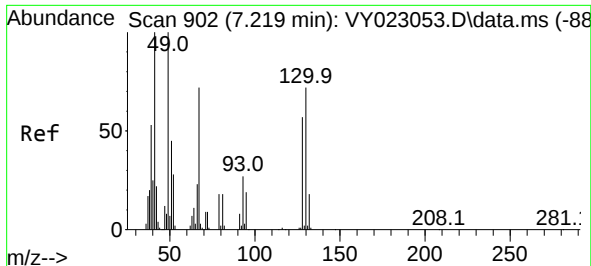
Tgt Ion: 78 Resp: 106668

Ion Ratio Lower Upper

78 100

77 23.9 18.6 28.0

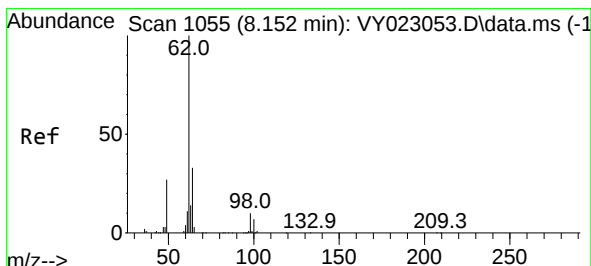
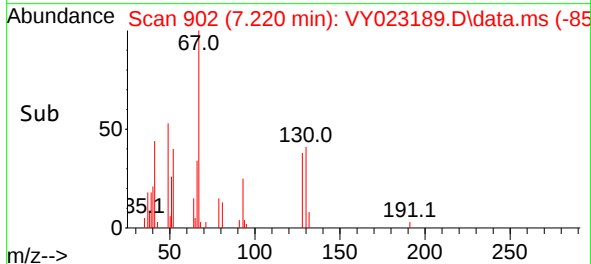
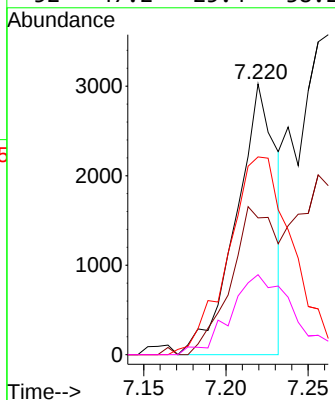
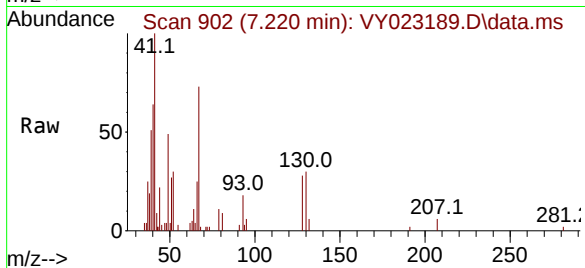




#41  
Methacrylonitrile  
Concen: 3.295 ug/l  
RT: 7.220 min Scan# 902  
Delta R.T. 0.000 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

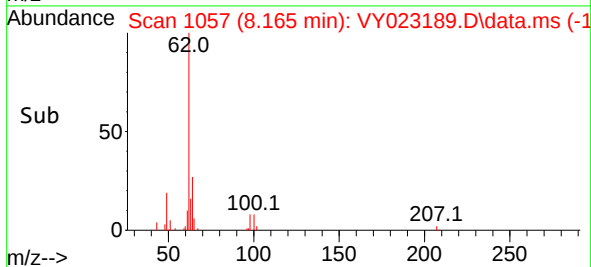
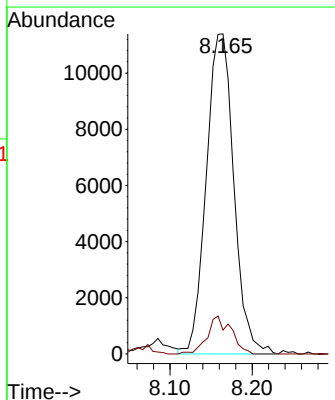
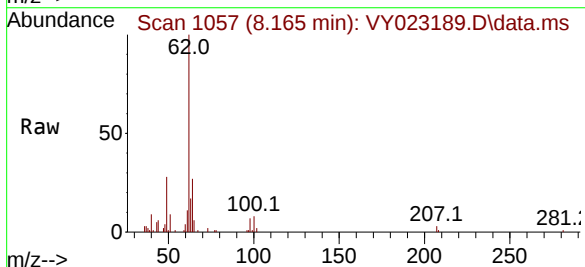
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

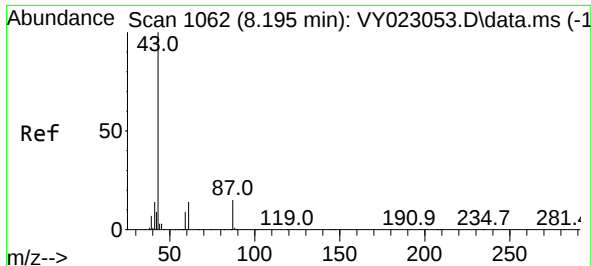
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 5120  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 61.6  | 43.4  | 65.2  |
| 67       | 117.3 | 63.6  | 95.4# |
| 52       | 47.2  | 25.4  | 38.2# |



#42  
1,2-Dichloroethane  
Concen: 5.165 ug/l  
RT: 8.165 min Scan# 1057  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 26538 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 10.2  | 0.0   | 20.6  |

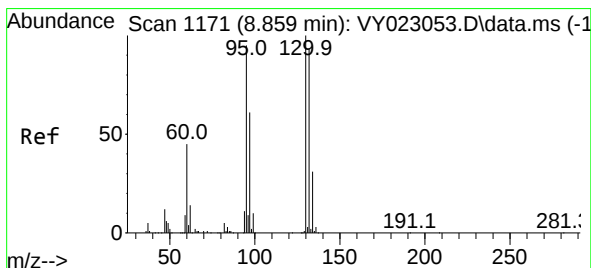
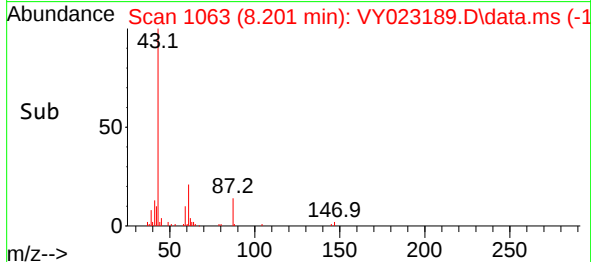
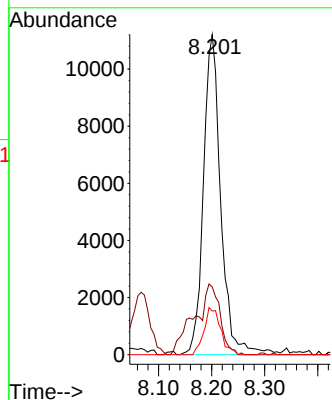
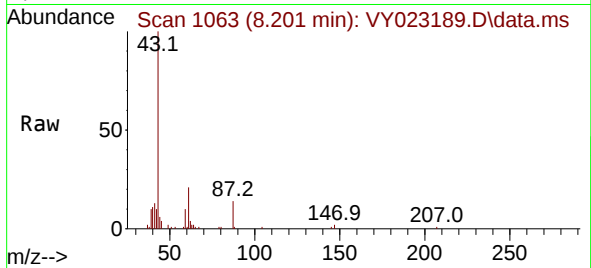




#43  
Isopropyl Acetate  
Concen: 4.678 ug/l  
RT: 8.201 min Scan# 1063  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

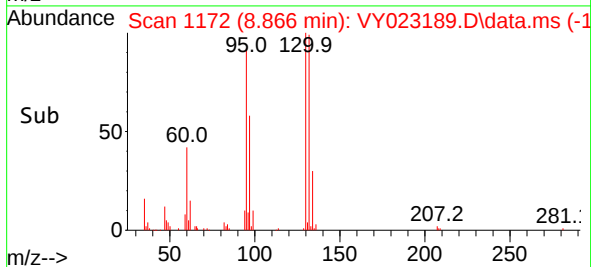
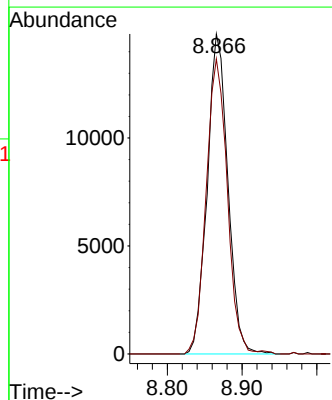
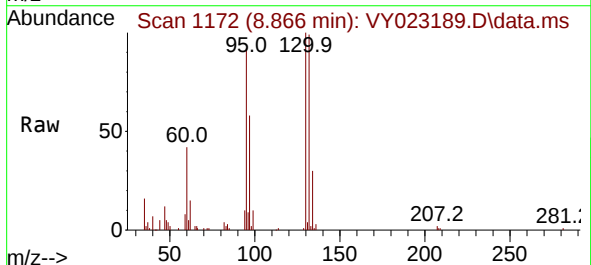
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

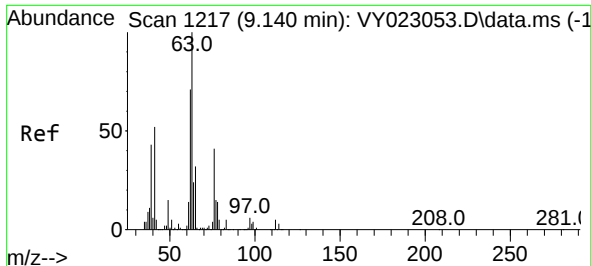
Tgt Ion: 43 Resp: 25460  
Ion Ratio Lower Upper  
43 100  
61 32.6 16.4 24.6#  
87 14.0 11.8 17.6



#44  
Trichloroethene  
Concen: 5.588 ug/l  
RT: 8.866 min Scan# 1172  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion:130 Resp: 28531  
Ion Ratio Lower Upper  
130 100  
95 92.2 0.0 190.2





#45

1,2-Dichloropropane

Concen: 5.424 ug/l

RT: 9.146 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

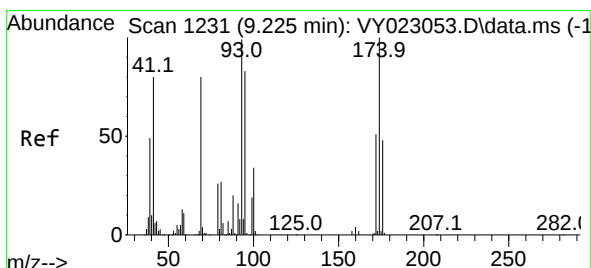
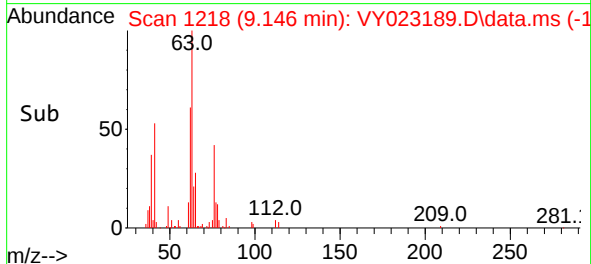
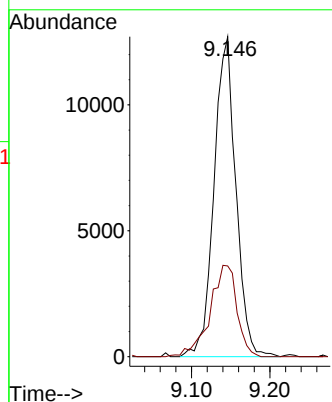
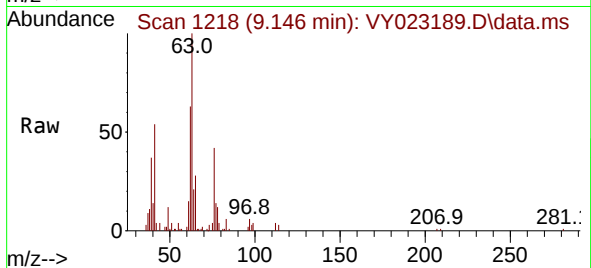
LOQ-SOIL-02-QT3-2025

Tgt Ion: 63 Resp: 24657

Ion Ratio Lower Upper

63 100

65 28.3 25.3 37.9



#46

Dibromomethane

Concen: 5.209 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

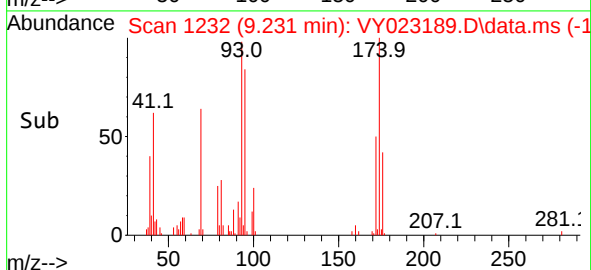
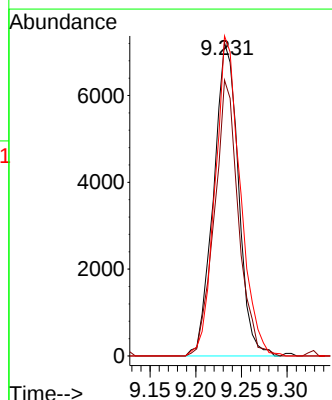
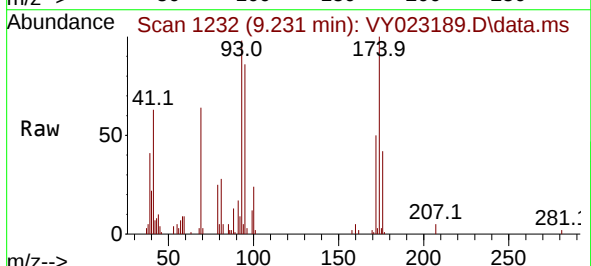
Tgt Ion: 93 Resp: 13592

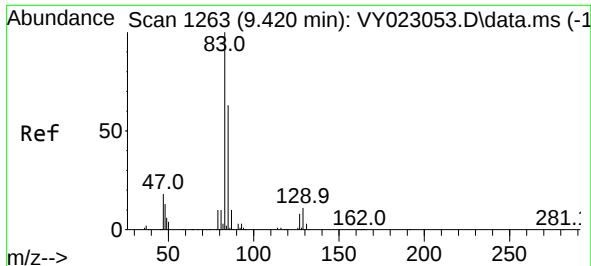
Ion Ratio Lower Upper

93 100

95 85.2 66.5 99.7

174 103.7 81.8 122.8

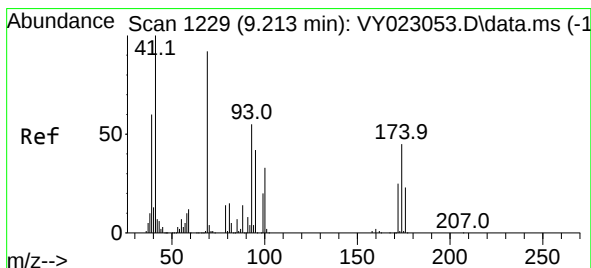
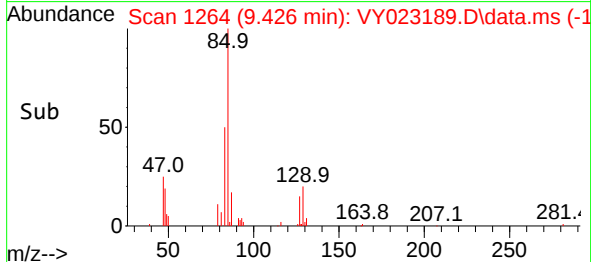
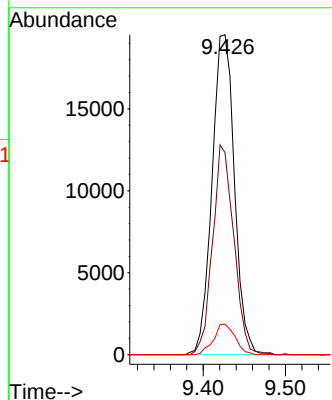
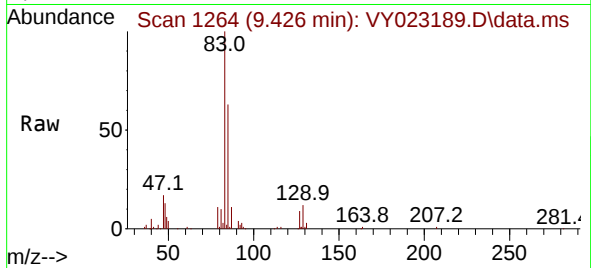




#47  
Bromodichloromethane  
Concen: 5.520 ug/l  
RT: 9.426 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

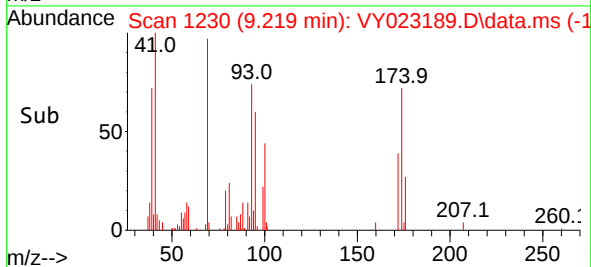
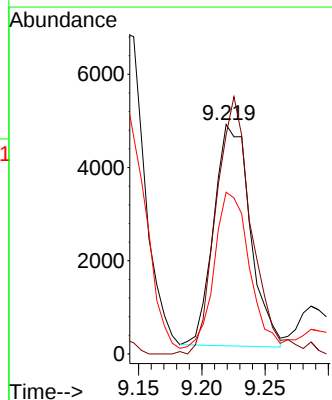
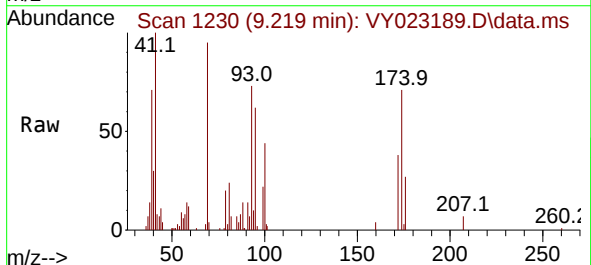
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

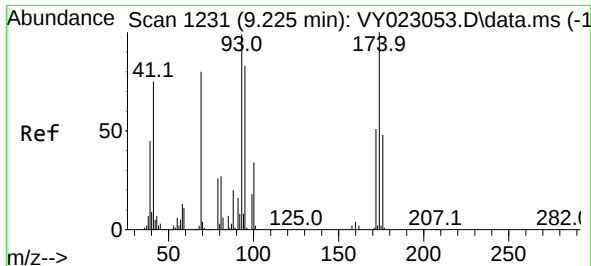
Tgt Ion: 83 Resp: 37063  
Ion Ratio Lower Upper  
83 100  
85 63.2 50.2 75.4  
127 9.5 6.6 10.0



#48  
Methyl methacrylate  
Concen: 3.654 ug/l  
RT: 9.219 min Scan# 1230  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 41 Resp: 9516  
Ion Ratio Lower Upper  
41 100  
69 114.1 73.2 109.8#  
39 67.5 47.0 70.4





#49

1,4-Dioxane

Concen: 87.990 ug/l

RT: 9.237 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

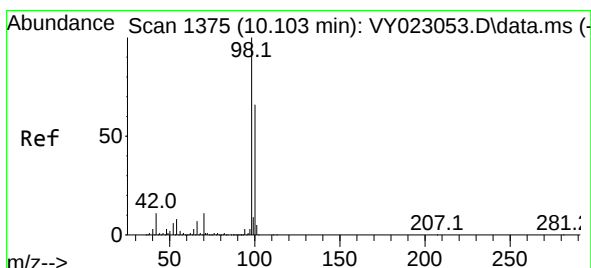
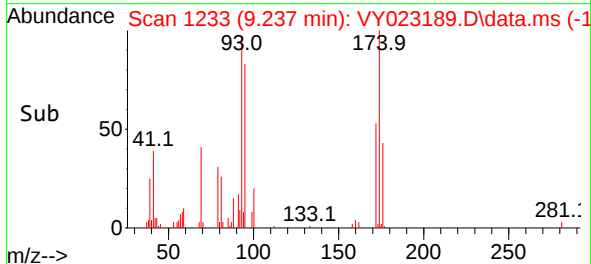
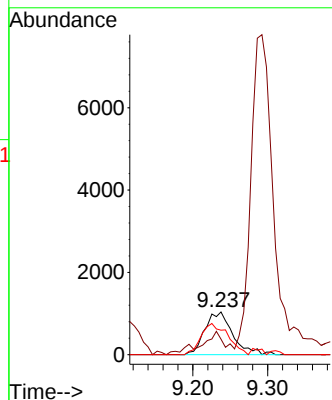
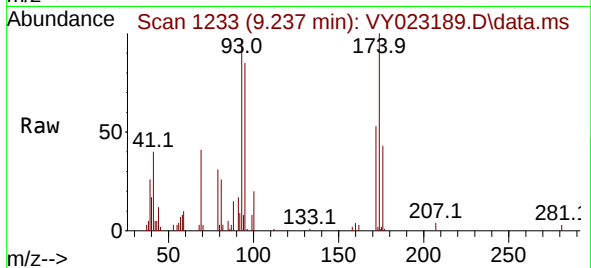
Tgt Ion: 88 Resp: 2692

Ion Ratio Lower Upper

88 100

43 19.5 24.3 36.5#

58 70.7 55.4 83.0



#50

Toluene-d8

Concen: 49.553 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023189.D

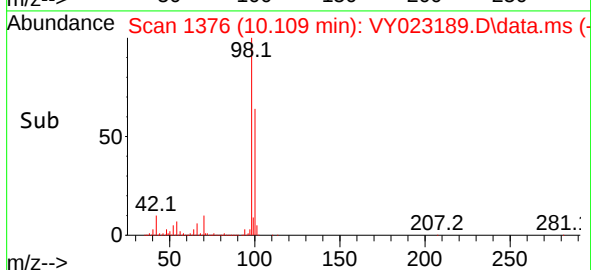
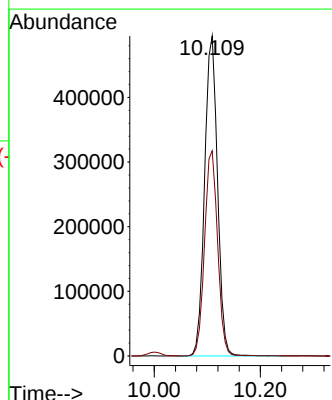
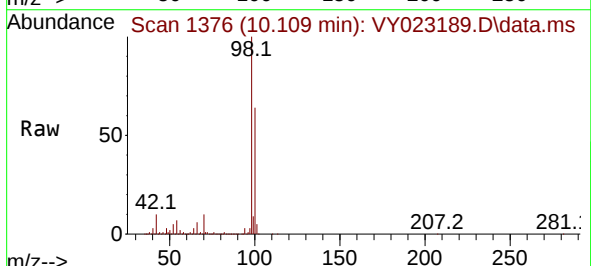
Acq: 22 Aug 2025 13:31

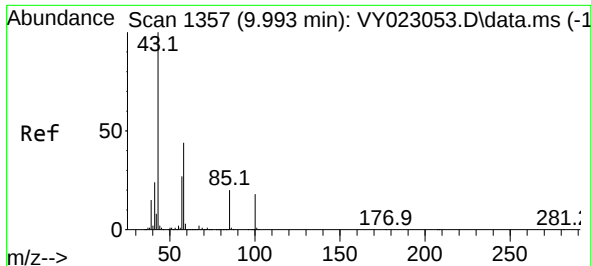
Tgt Ion: 98 Resp: 834993

Ion Ratio Lower Upper

98 100

100 65.0 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 20.731 ug/l

RT: 10.000 min Scan# 1358

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

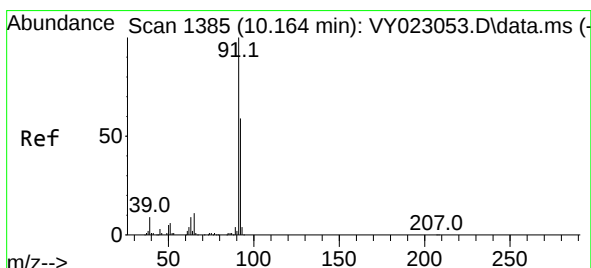
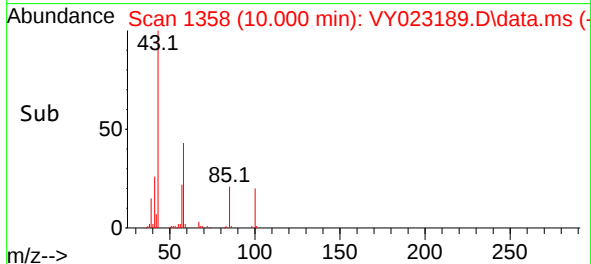
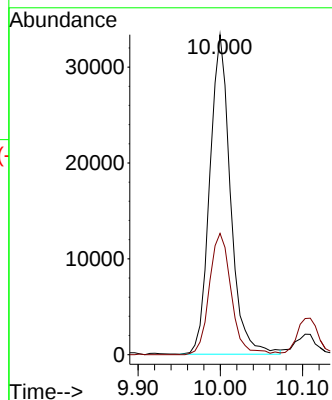
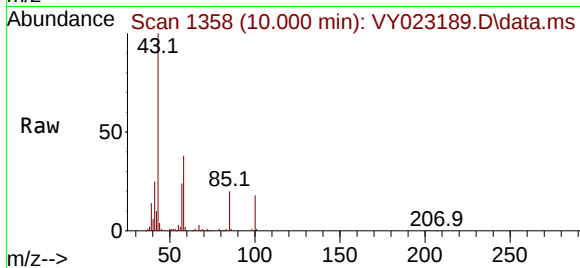
LOQ-SOIL-02-QT3-2025

Tgt Ion: 43 Resp: 58201

Ion Ratio Lower Upper

43 100

58 40.4 33.5 50.3



#52

Toluene

Concen: 5.196 ug/l

RT: 10.170 min Scan# 1386

Delta R.T. 0.006 min

Lab File: VY023189.D

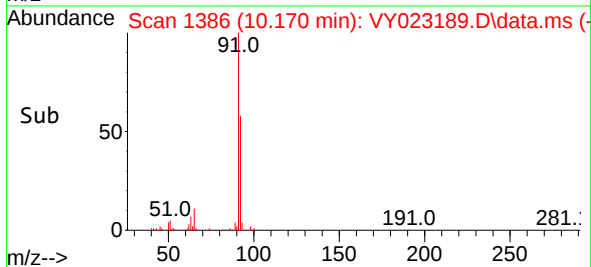
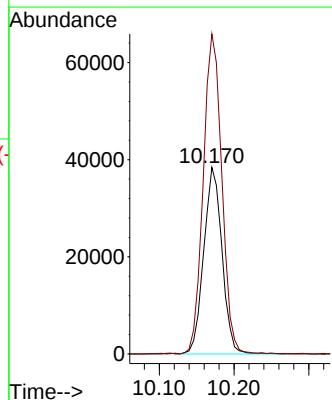
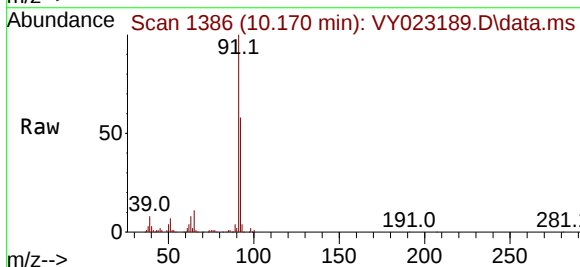
Acq: 22 Aug 2025 13:31

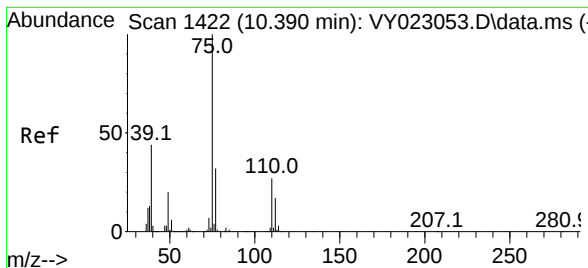
Tgt Ion: 92 Resp: 65199

Ion Ratio Lower Upper

92 100

91 174.8 136.4 204.6

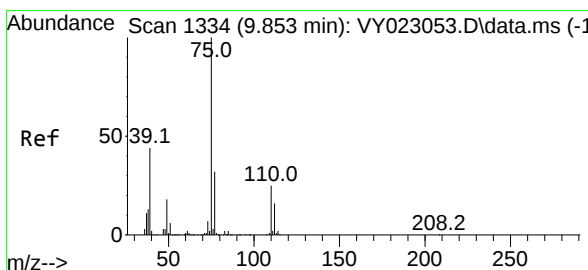
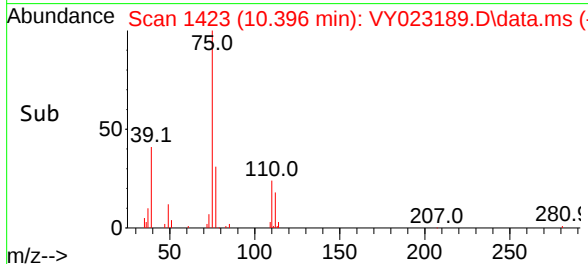
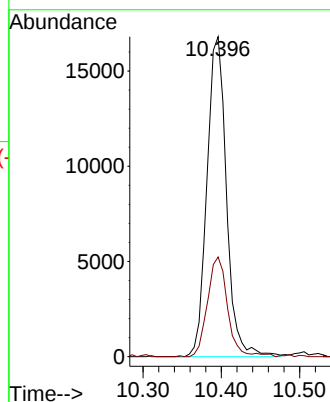
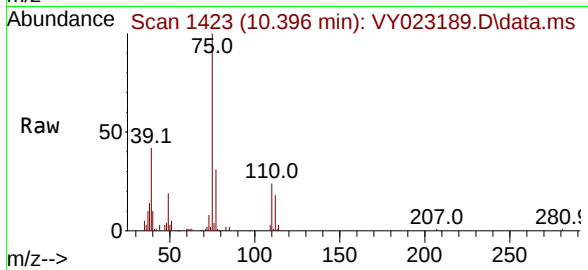




#53  
 t-1,3-Dichloropropene  
 Concen: 4.776 ug/l  
 RT: 10.396 min Scan# 1422  
 Delta R.T. 0.006 min  
 Lab File: VY023189.D  
 Acq: 22 Aug 2025 13:31

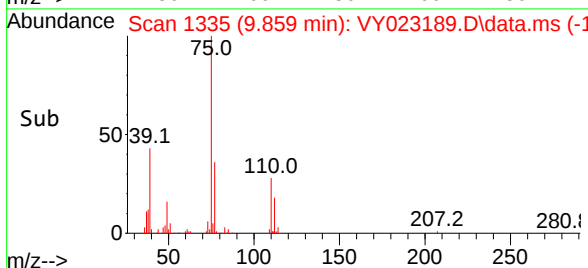
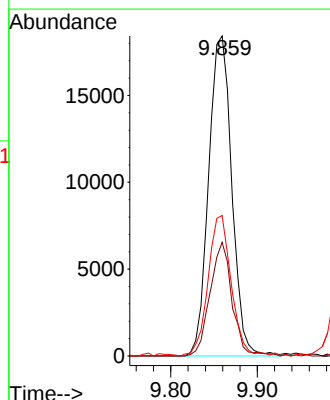
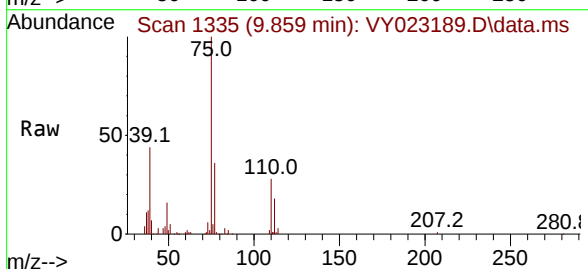
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2025

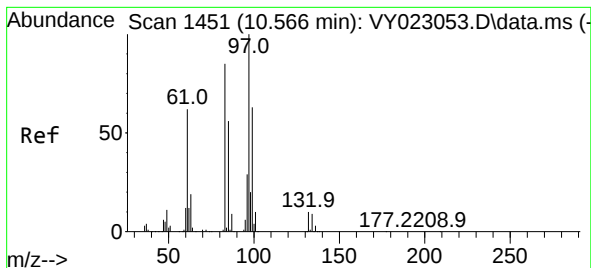
Tgt Ion: 75 Resp: 29040  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 25.7 38.5



#54  
 cis-1,3-Dichloropropene  
 Concen: 4.760 ug/l  
 RT: 9.859 min Scan# 1335  
 Delta R.T. 0.006 min  
 Lab File: VY023189.D  
 Acq: 22 Aug 2025 13:31

Tgt Ion: 75 Resp: 34221  
 Ion Ratio Lower Upper  
 75 100  
 77 35.5 25.4 38.0  
 39 43.9 35.6 53.4

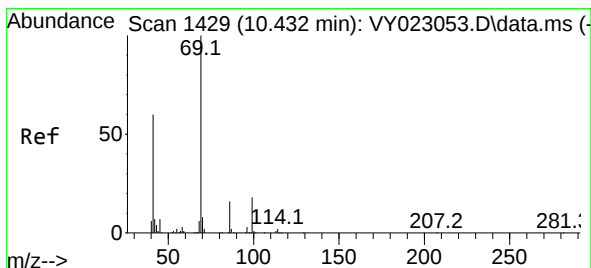
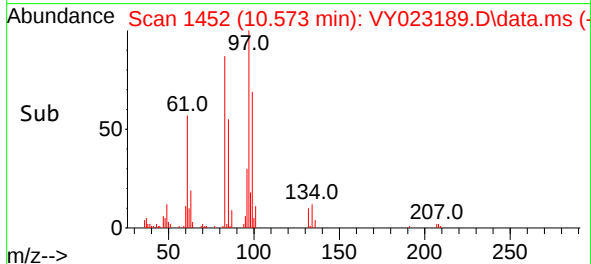
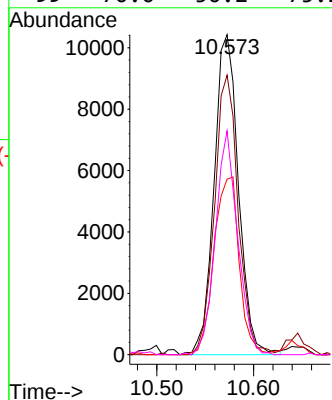
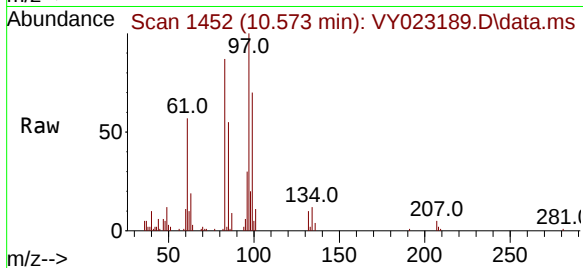




#55  
1,1,2-Trichloroethane  
Concen: 5.236 ug/l  
RT: 10.573 min Scan# 1451  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

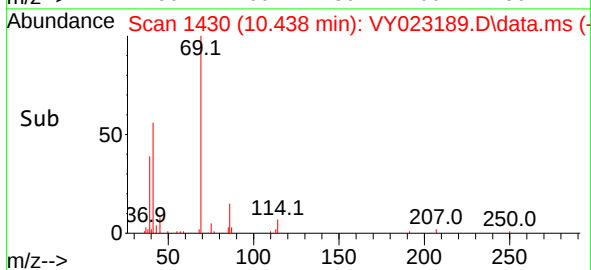
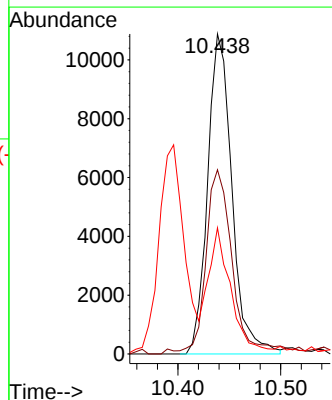
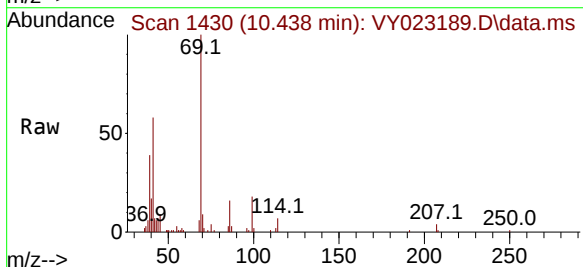
Instrument : MSVOA\_Y  
ClientSampleId : LOQ-SOIL-02-QT3-2025

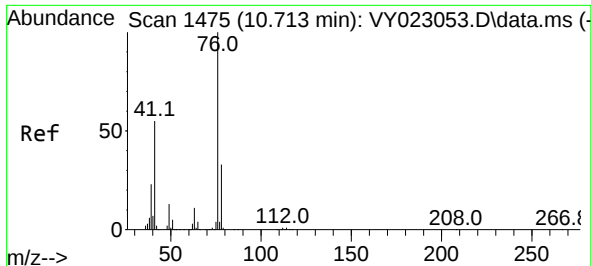
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 18282 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 87.4  | 67.7  | 101.5 |
| 85       | 54.9  | 44.5  | 66.7  |
| 99       | 70.0  | 50.2  | 75.2  |



#56  
Ethyl methacrylate  
Concen: 4.000 ug/l  
RT: 10.438 min Scan# 1430  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 17872 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 63.8  | 48.6  | 72.8  |
| 39       | 33.7  | 27.0  | 40.4  |





#57

1,3-Dichloropropane

Concen: 5.073 ug/l

RT: 10.713 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

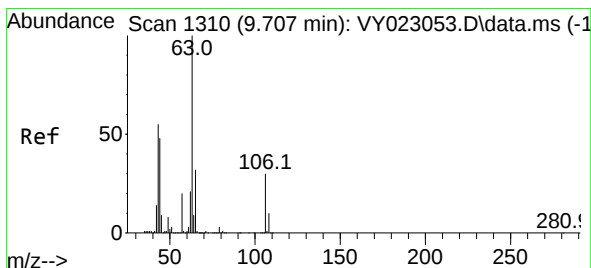
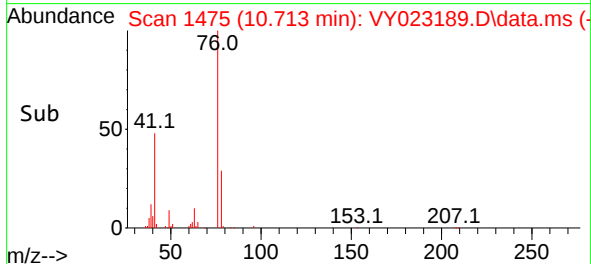
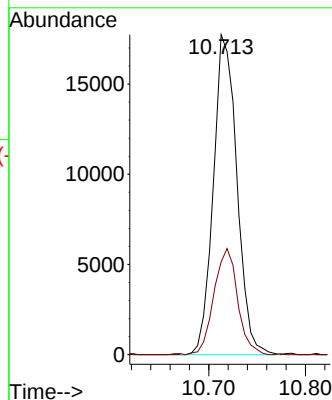
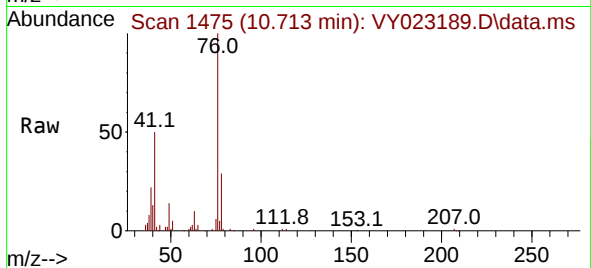
LOQ-SOIL-02-QT3-2025

Tgt Ion: 76 Resp: 30036

Ion Ratio Lower Upper

76 100

78 33.4 26.0 39.0



#58

2-Chloroethyl Vinyl ether

Concen: 19.851 ug/l

RT: 9.713 min Scan# 1311

Delta R.T. 0.006 min

Lab File: VY023189.D

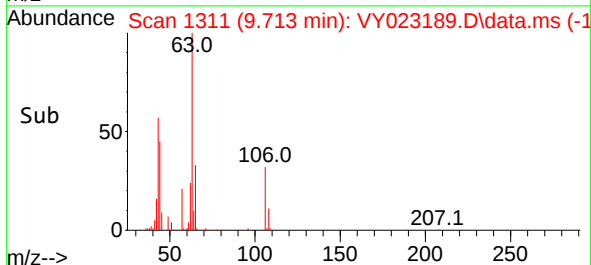
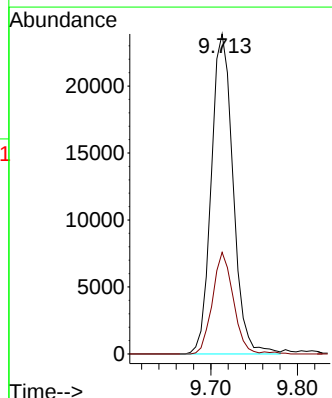
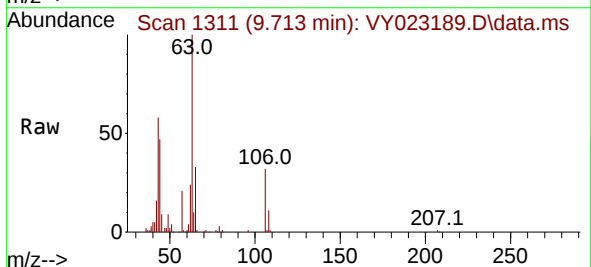
Acq: 22 Aug 2025 13:31

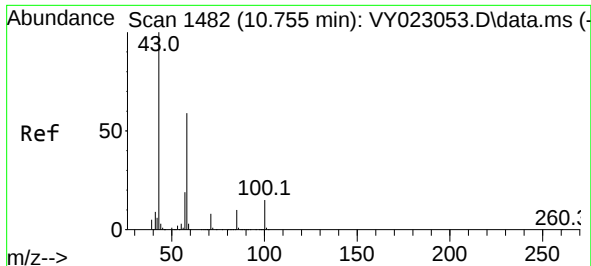
Tgt Ion: 63 Resp: 41835

Ion Ratio Lower Upper

63 100

106 30.1 23.2 34.8

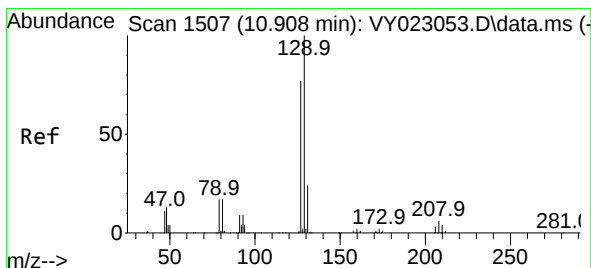
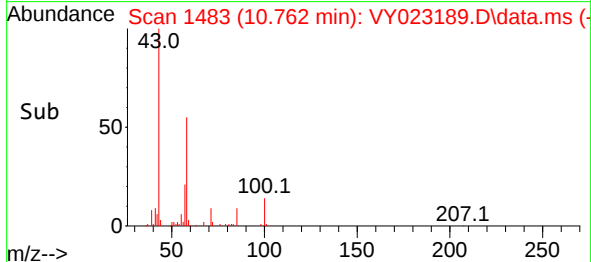
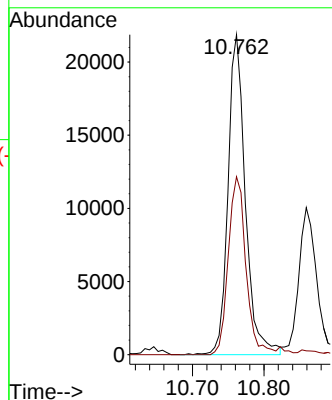
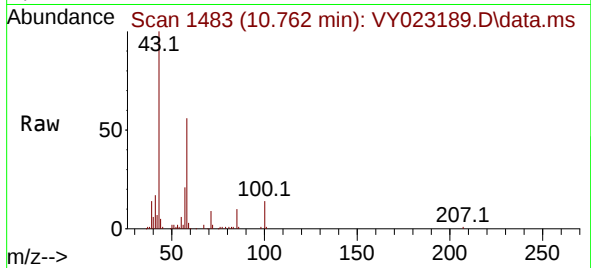




#59  
2-Hexanone  
Concen: 19.243 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

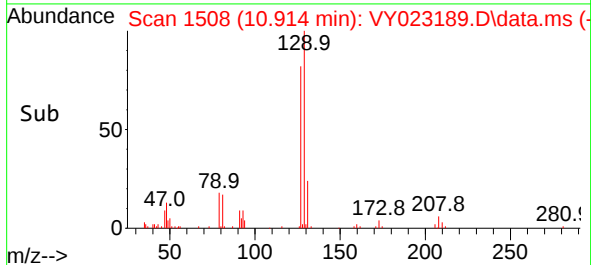
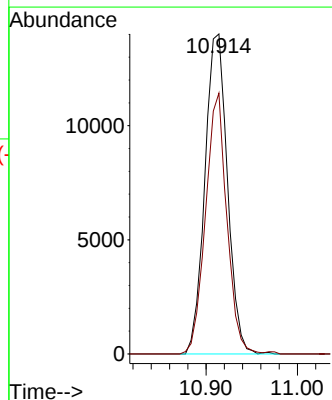
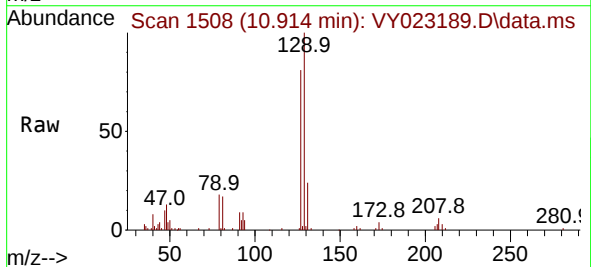
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

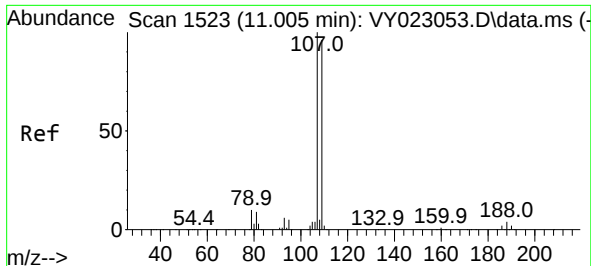
Tgt Ion: 43 Resp: 36787  
Ion Ratio Lower Upper  
43 100  
58 56.6 29.5 88.5



#60  
Dibromochloromethane  
Concen: 5.221 ug/l  
RT: 10.914 min Scan# 1508  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 129 Resp: 24051  
Ion Ratio Lower Upper  
129 100  
127 76.9 38.5 115.5

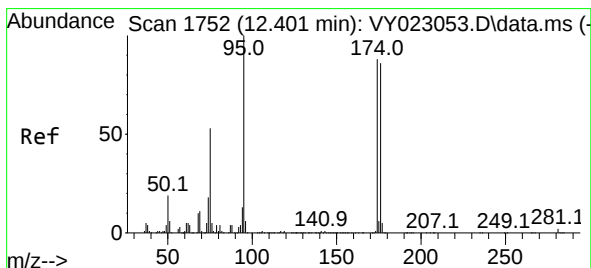
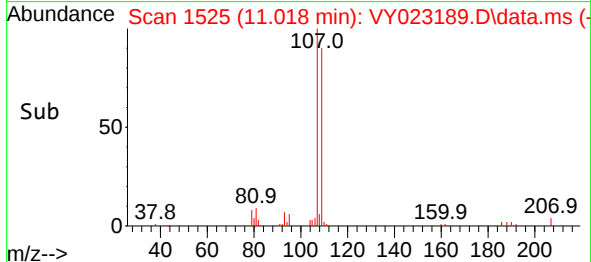
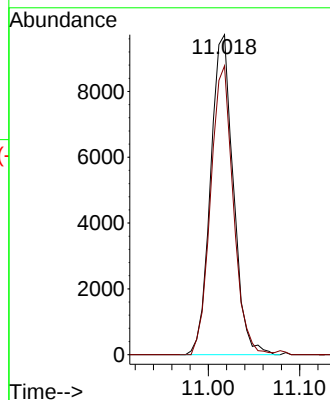
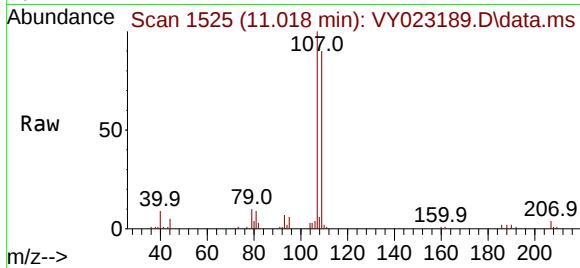




#61  
1,2-Dibromoethane  
Concen: 5.124 ug/l  
RT: 11.018 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

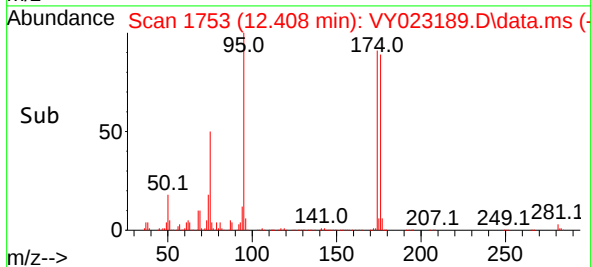
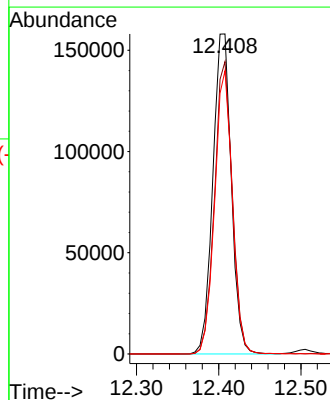
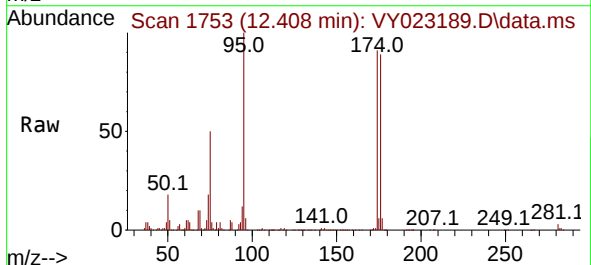
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

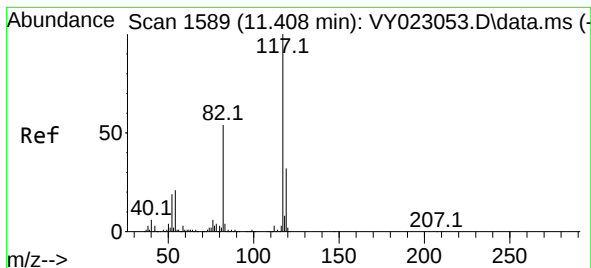
Tgt Ion:107 Resp: 16815  
Ion Ratio Lower Upper  
107 100  
109 89.9 75.6 113.4



#62  
4-Bromofluorobenzene  
Concen: 45.523 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 95 Resp: 246695  
Ion Ratio Lower Upper  
95 100  
174 88.4 0.0 171.6  
176 85.0 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

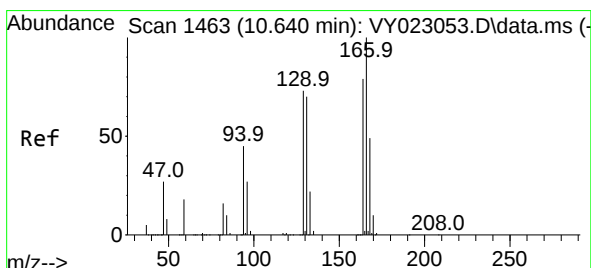
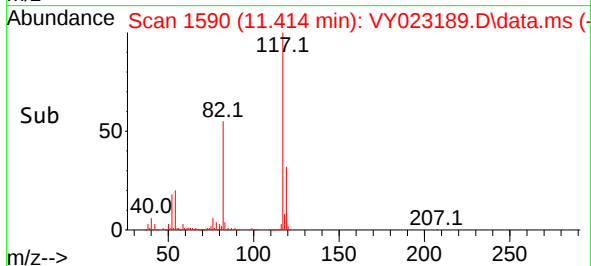
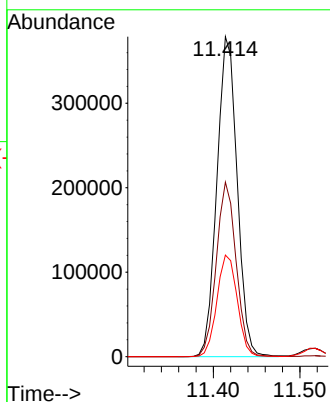
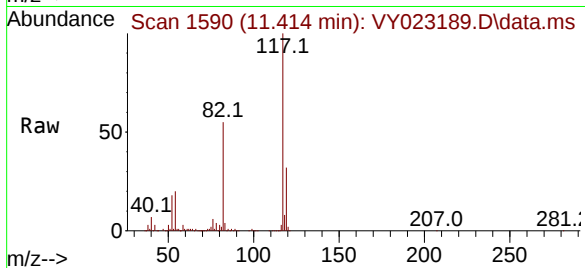
Tgt Ion:117 Resp: 615924

Ion Ratio Lower Upper

117 100

82 54.5 43.4 65.0

119 31.8 25.6 38.4



#64

Tetrachloroethene

Concen: 5.463 ug/l

RT: 10.646 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Tgt Ion:164 Resp: 30047

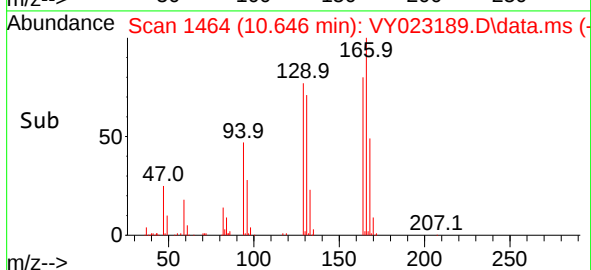
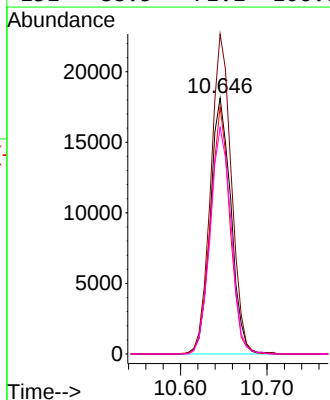
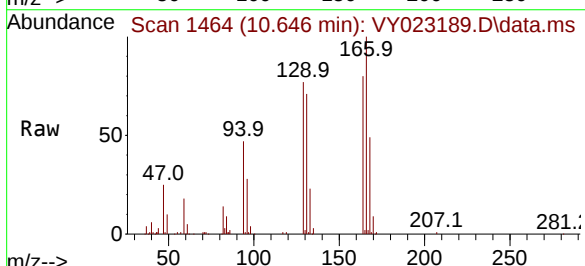
Ion Ratio Lower Upper

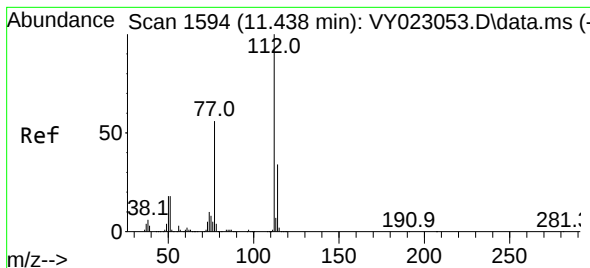
164 100

166 125.0 101.1 151.7

129 96.6 74.0 111.0

131 88.5 71.1 106.7





#65

Chlorobenzene

Concen: 5.366 ug/l

RT: 11.438 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

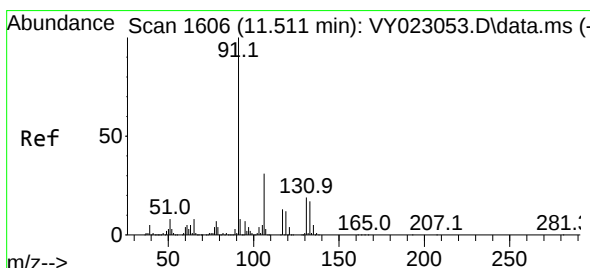
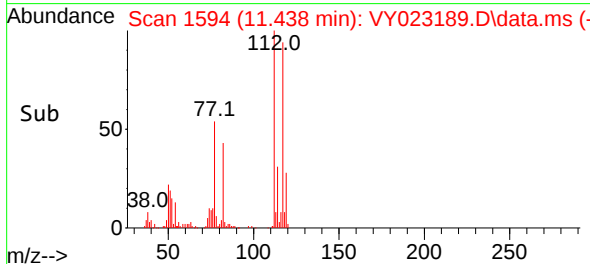
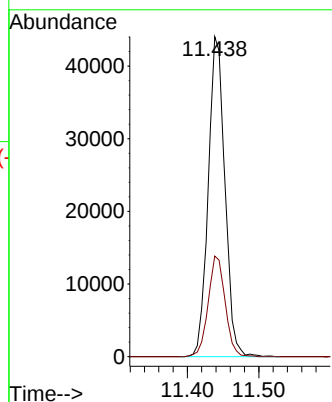
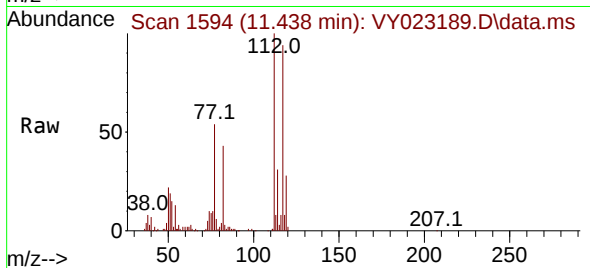
LOQ-SOIL-02-QT3-2025

Tgt Ion:112 Resp: 71285

Ion Ratio Lower Upper

112 100

114 31.4 27.0 40.4



#66

1,1,1,2-Tetrachloroethane

Concen: 5.472 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

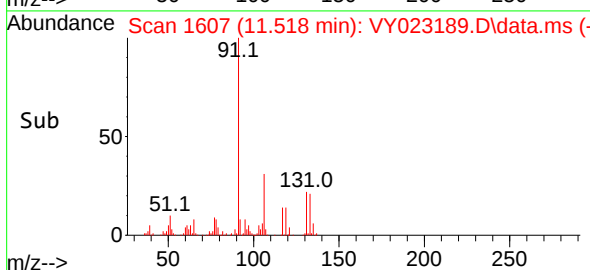
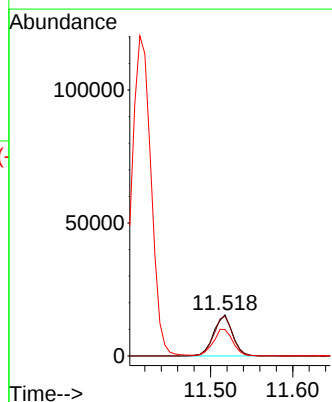
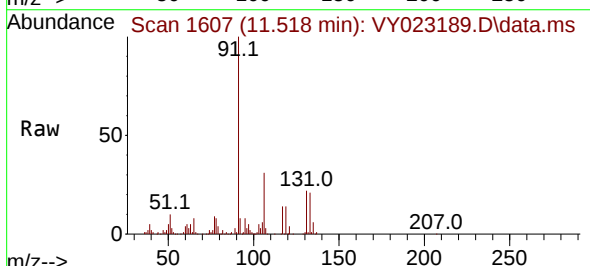
Tgt Ion:131 Resp: 24673

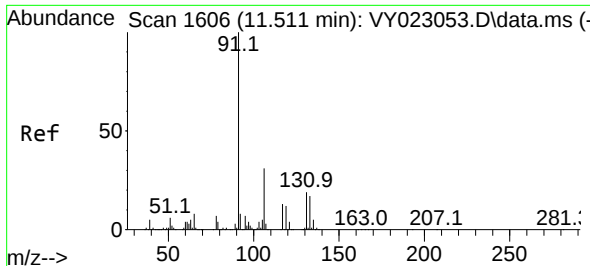
Ion Ratio Lower Upper

131 100

133 96.2 46.9 140.6

119 67.4 33.2 99.6





#67

Ethyl Benzene

Concen: 4.837 ug/l

RT: 11.518 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

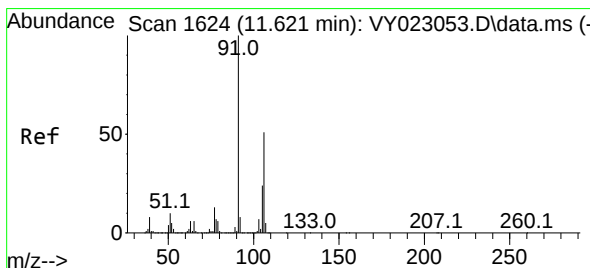
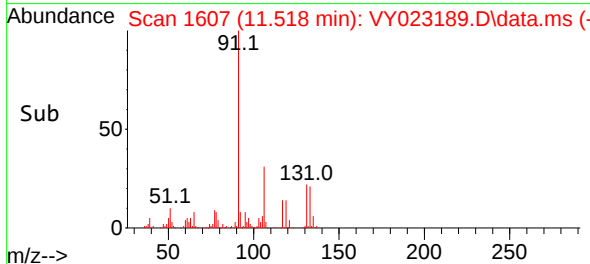
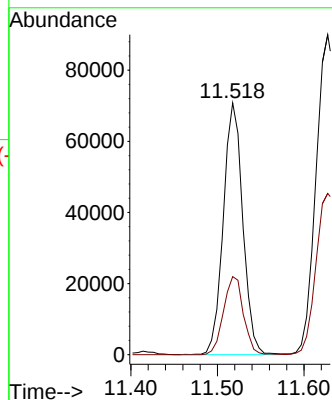
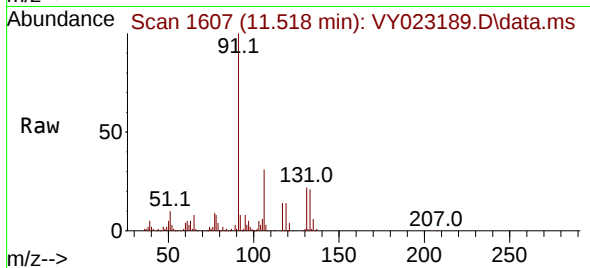
LOQ-SOIL-02-QT3-2025

Tgt Ion: 91 Resp: 110596

Ion Ratio Lower Upper

91 100

106 31.0 25.0 37.4



#68

m/p-Xylenes

Concen: 9.684 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.006 min

Lab File: VY023189.D

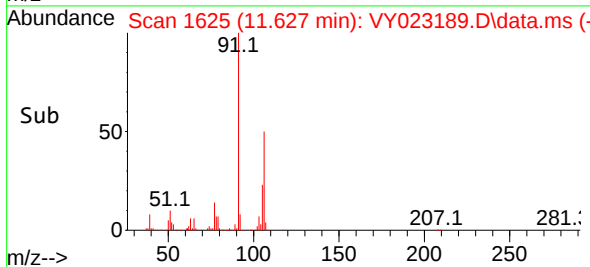
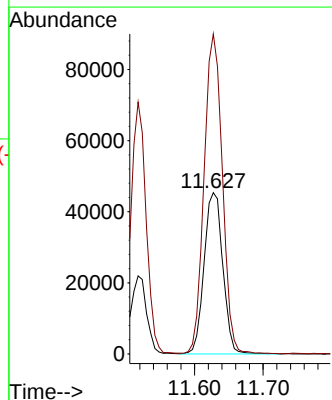
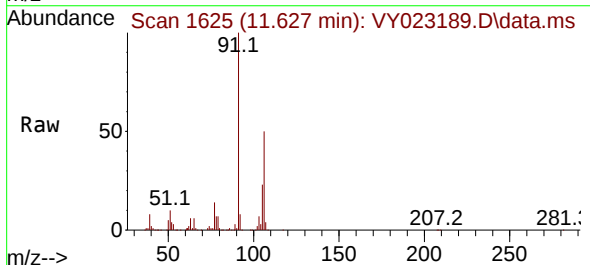
Acq: 22 Aug 2025 13:31

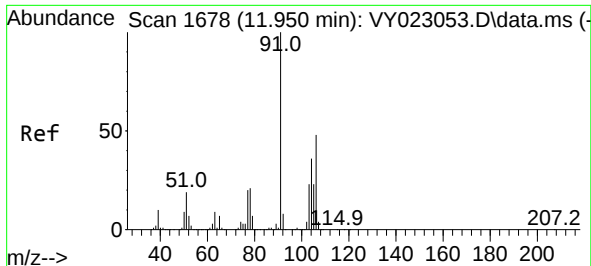
Tgt Ion:106 Resp: 86470

Ion Ratio Lower Upper

106 100

91 193.6 158.6 238.0

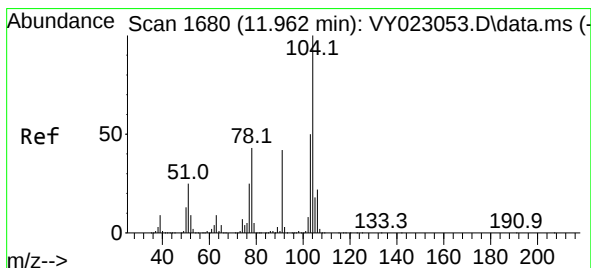
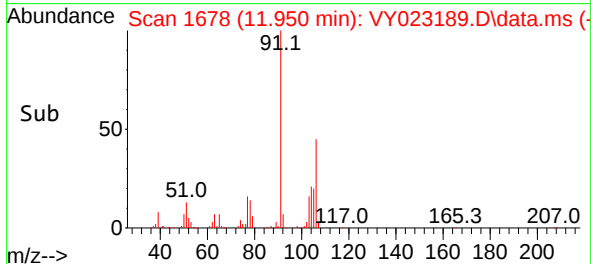
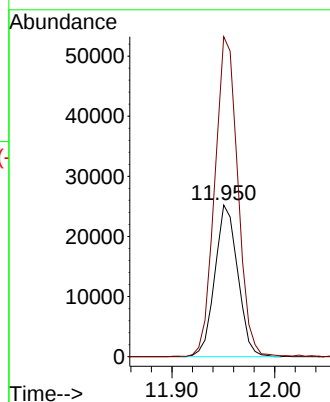
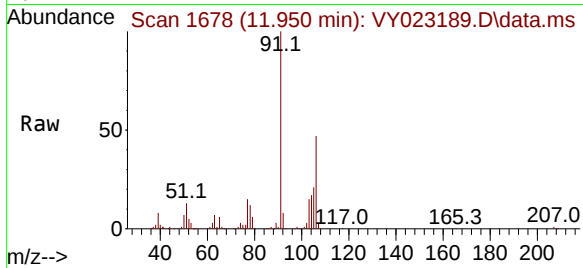




#69  
o-Xylene  
Concen: 4.664 ug/l  
RT: 11.950 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

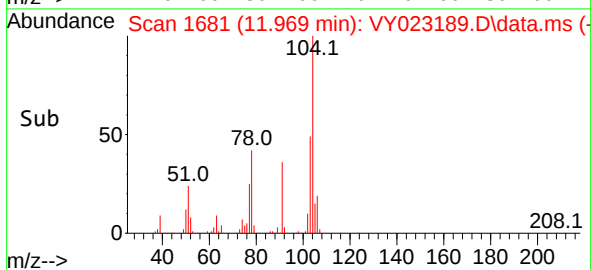
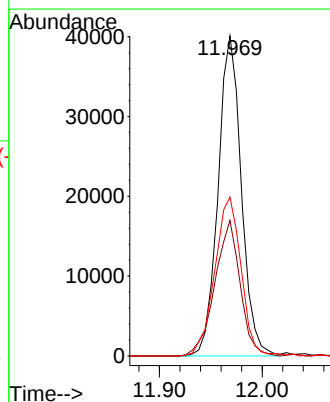
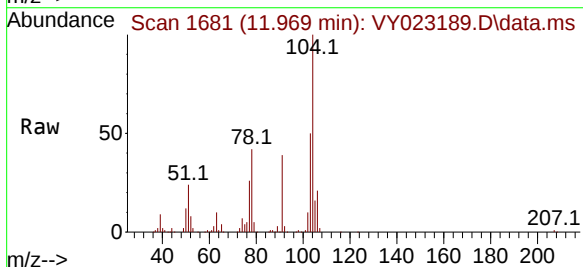
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

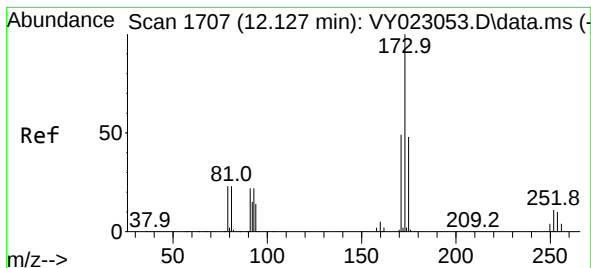
Tgt Ion:106 Resp: 39003  
Ion Ratio Lower Upper  
106 100  
91 212.8 103.2 309.4



#70  
Styrene  
Concen: 4.605 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion:104 Resp: 62987  
Ion Ratio Lower Upper  
104 100  
78 46.0 38.5 57.7  
103 56.3 43.7 65.5





#71

Bromoform

Concen: 5.155 ug/l

RT: 12.133 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

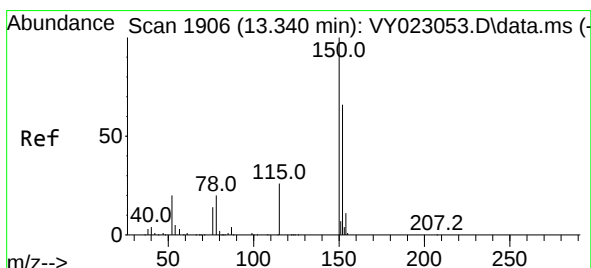
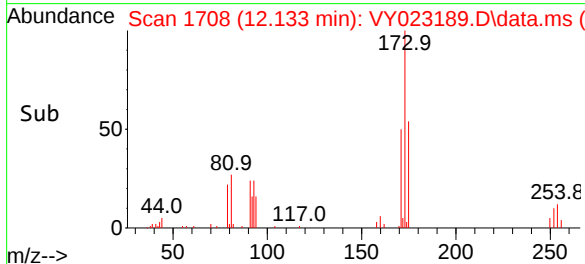
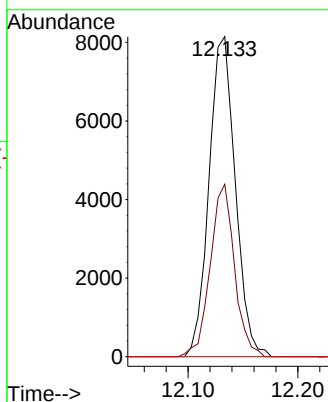
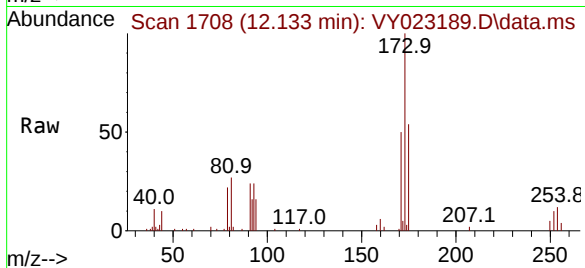
Tgt Ion:173 Resp: 13584

Ion Ratio Lower Upper

173 100

175 49.7 23.9 71.7

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

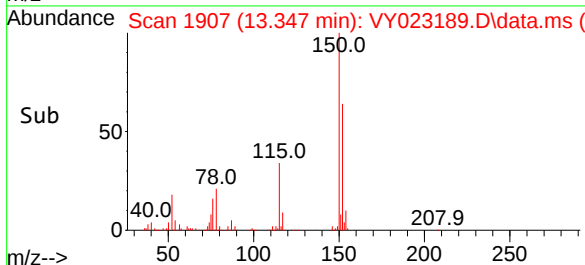
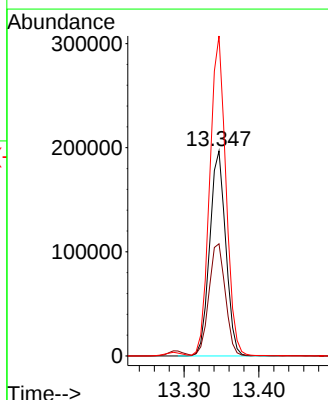
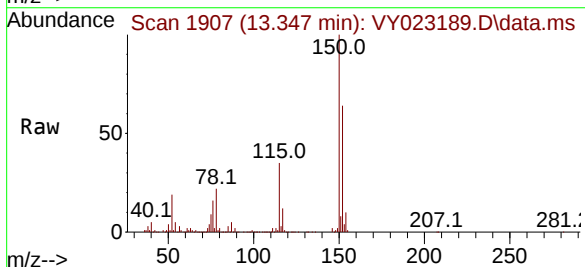
Tgt Ion:152 Resp: 293369

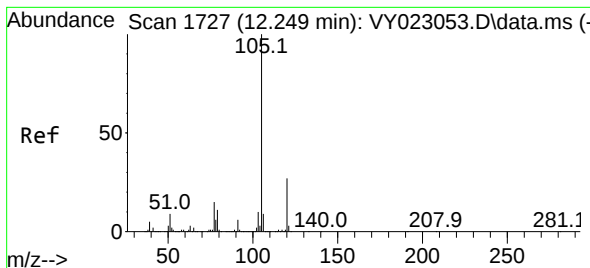
Ion Ratio Lower Upper

152 100

115 56.0 28.2 84.6

150 157.2 0.0 348.0





#73

Isopropylbenzene

Concen: 4.879 ug/l

RT: 12.255 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

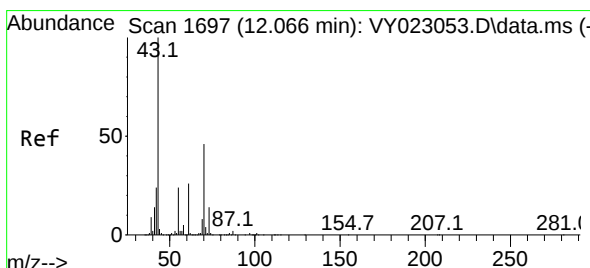
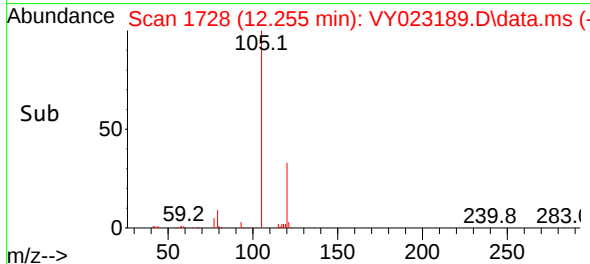
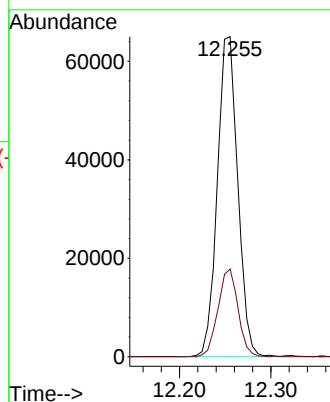
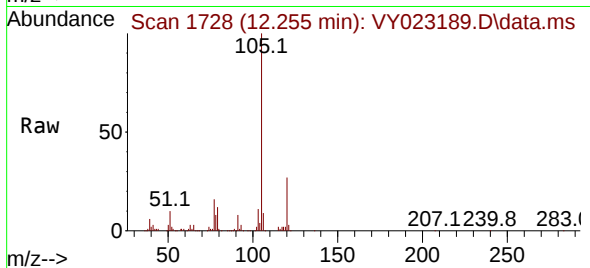
LOQ-SOIL-02-QT3-2025

Tgt Ion:105 Resp: 101031

Ion Ratio Lower Upper

105 100

120 26.8 13.4 40.2



#74

N-ethyl acetate

Concen: 3.916 ug/l

RT: 12.072 min Scan# 1698

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Tgt Ion: 43 Resp: 17194

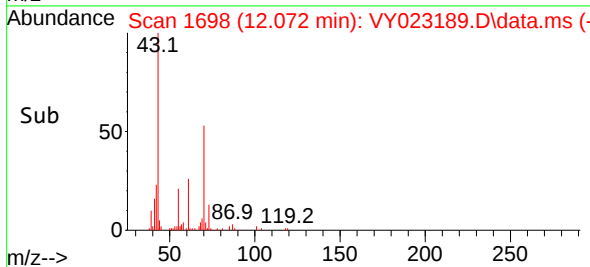
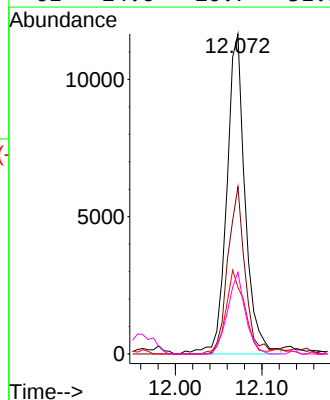
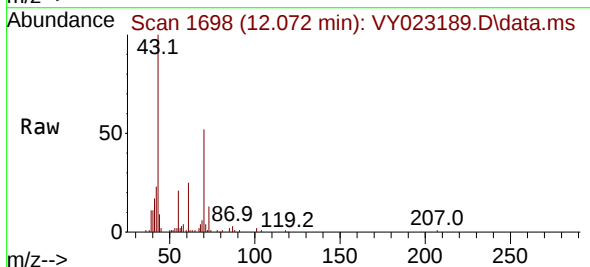
Ion Ratio Lower Upper

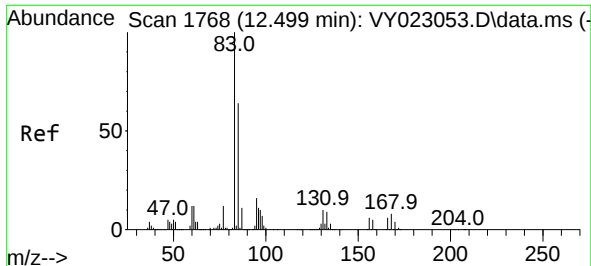
43 100

70 49.6 37.5 56.3

55 26.6 20.7 31.1

61 24.6 20.7 31.1

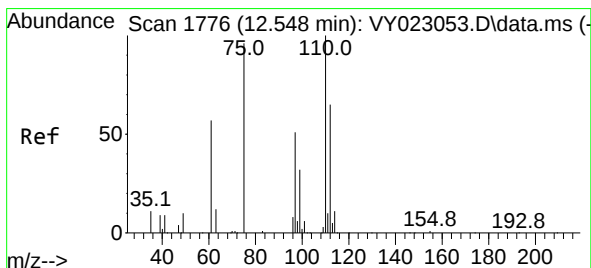
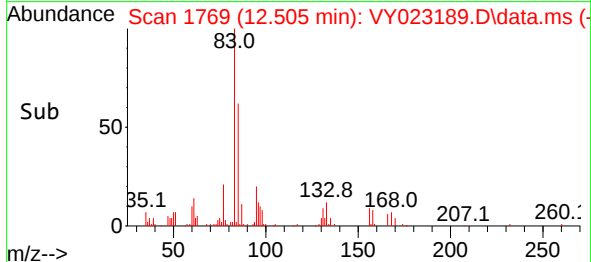
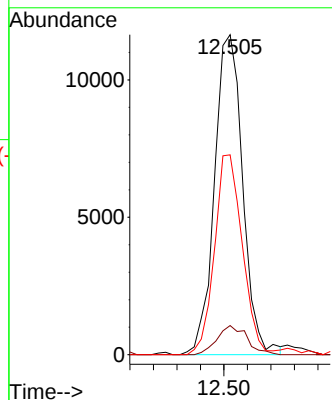
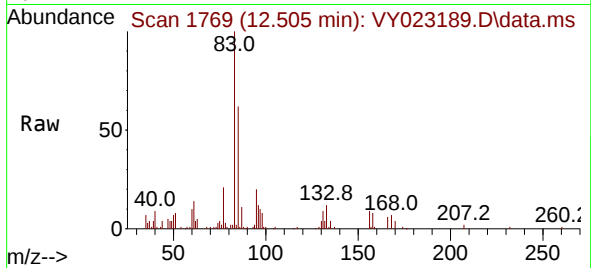




#75  
1,1,2,2-Tetrachloroethane  
Concen: 5.495 ug/l  
RT: 12.505 min Scan# 1769  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

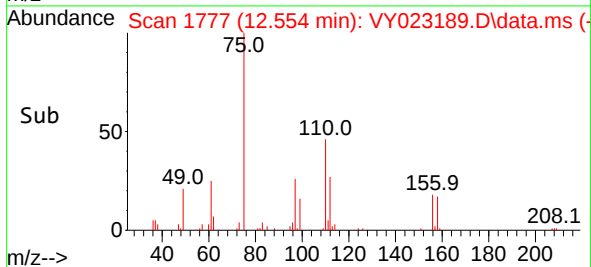
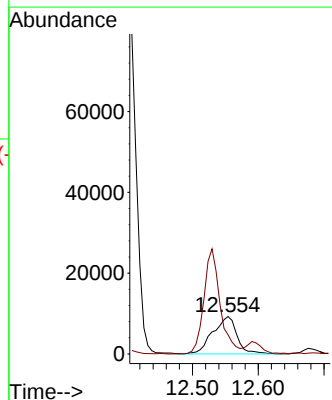
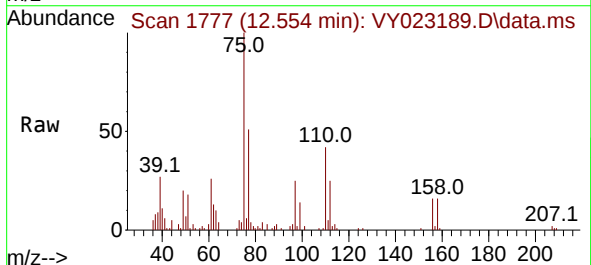
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

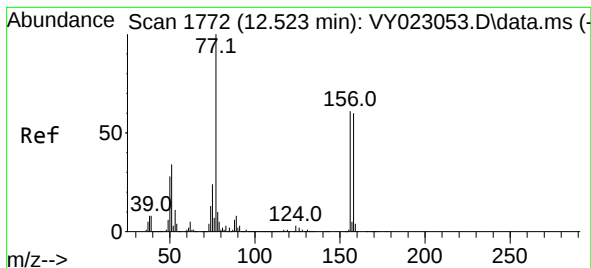
Tgt Ion: 83 Resp: 19429  
Ion Ratio Lower Upper  
83 100  
131 9.6 5.1 15.3  
85 61.5 31.8 95.3



#76  
1,2,3-Trichloropropane  
Concen: 8.357 ug/l  
RT: 12.554 min Scan# 1777  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 75 Resp: 23660  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 5.435 ug/l

RT: 12.530 min Scan# 1772

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

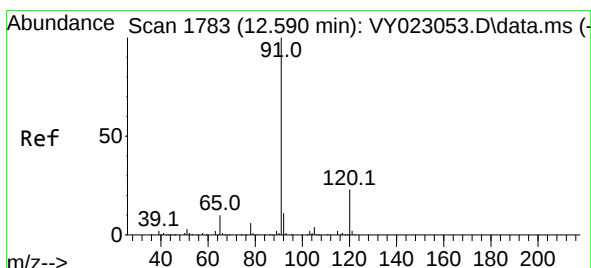
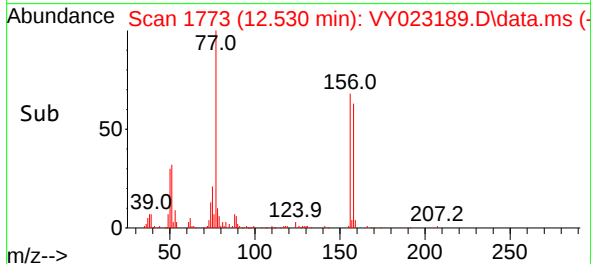
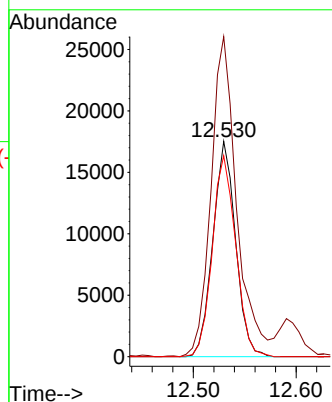
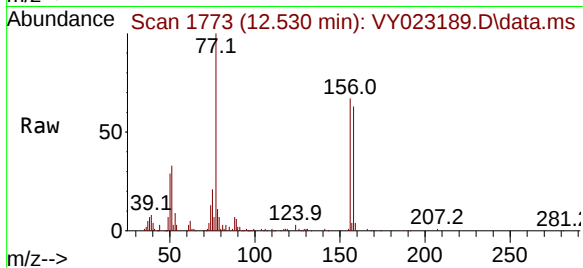
Tgt Ion:156 Resp: 26846

Ion Ratio Lower Upper

156 100

77 167.4 88.1 264.4

158 96.5 48.0 144.0



#78

n-propylbenzene

Concen: 5.048 ug/l

RT: 12.591 min Scan# 1783

Delta R.T. 0.000 min

Lab File: VY023189.D

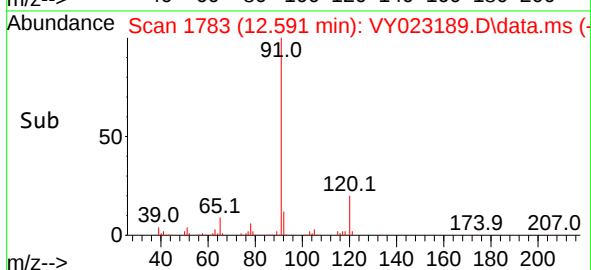
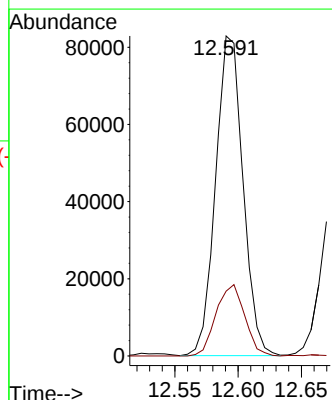
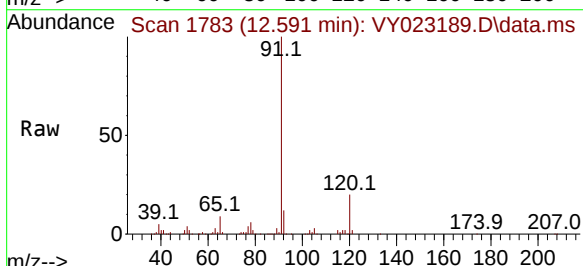
Acq: 22 Aug 2025 13:31

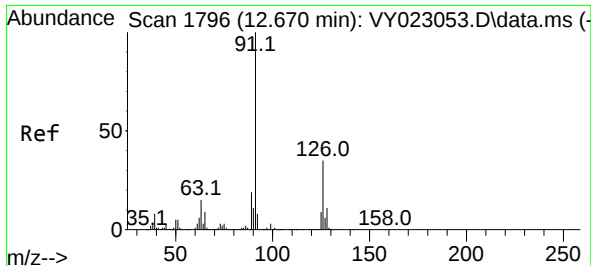
Tgt Ion: 91 Resp: 124449

Ion Ratio Lower Upper

91 100

120 23.4 11.5 34.5

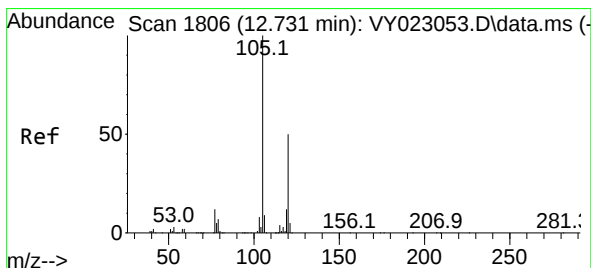
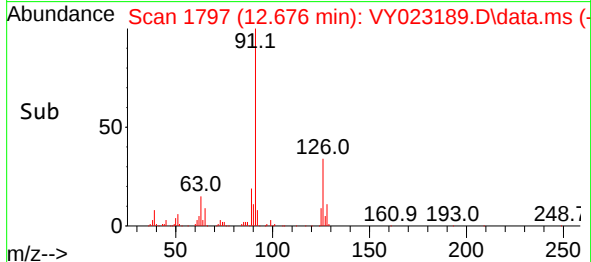
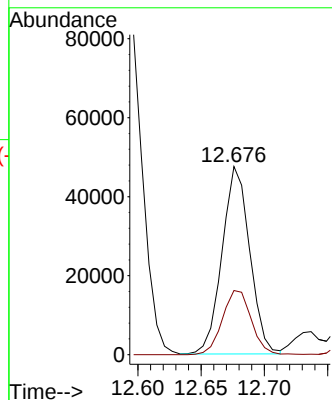
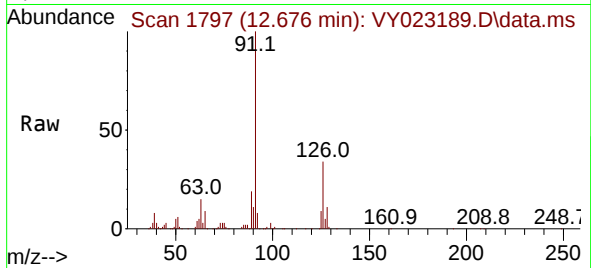




#79  
2-Chlorotoluene  
Concen: 5.126 ug/l  
RT: 12.676 min Scan# 1796  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

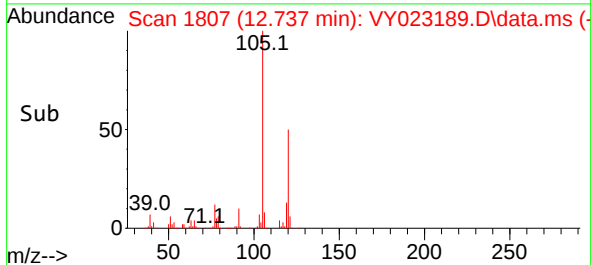
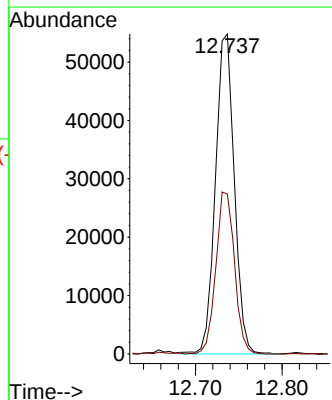
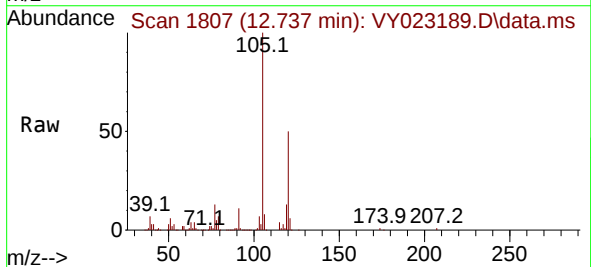
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

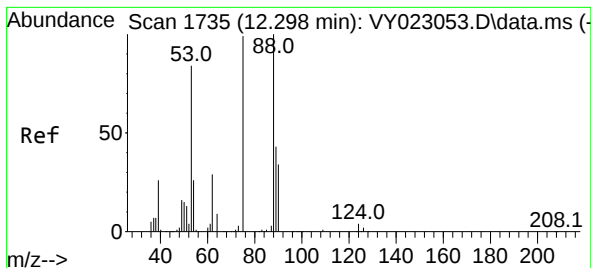
Tgt Ion: 91 Resp: 72404  
Ion Ratio Lower Upper  
91 100  
126 35.7 17.4 52.3



#80  
1,3,5-Trimethylbenzene  
Concen: 4.953 ug/l  
RT: 12.737 min Scan# 1807  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 105 Resp: 82882  
Ion Ratio Lower Upper  
105 100  
120 50.2 24.8 74.4

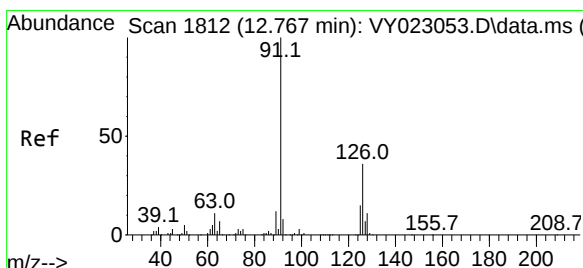
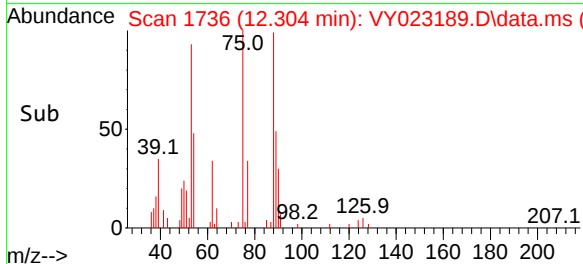
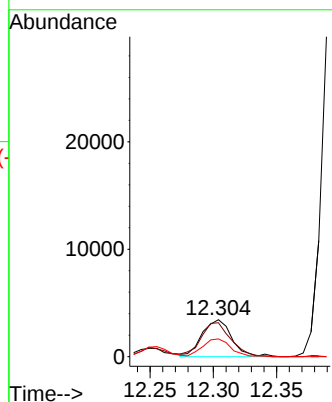
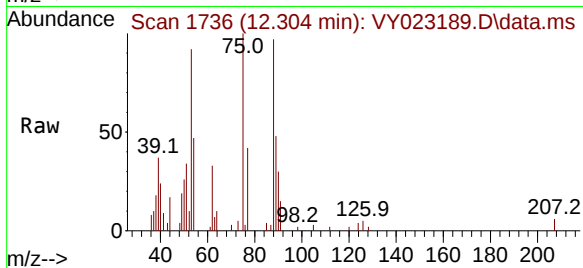




#81  
trans-1,4-Dichloro-2-butene  
Concen: 4.820 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

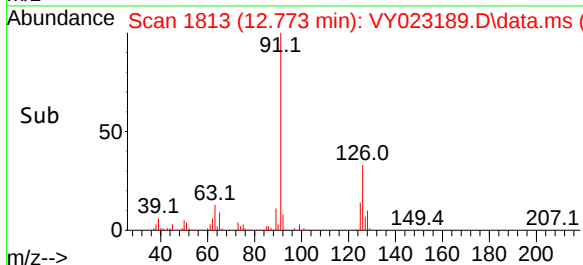
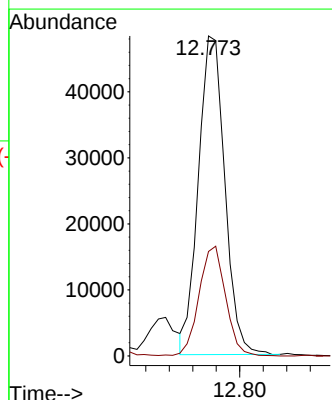
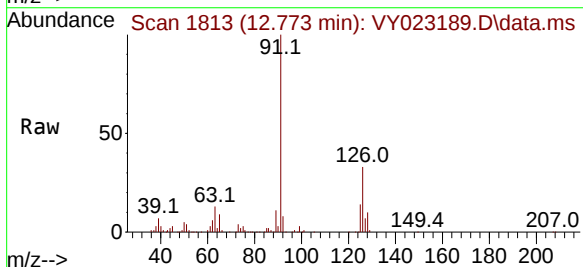
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

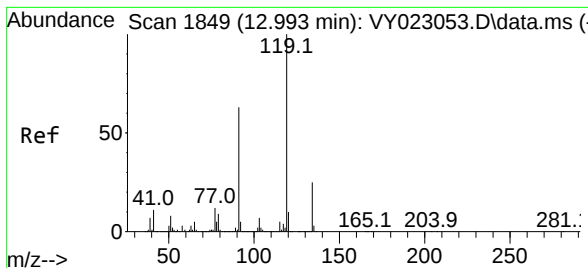
Tgt Ion: 75 Resp: 5638  
Ion Ratio Lower Upper  
75 100  
53 92.2 70.8 106.2  
89 45.3 38.1 57.1



#82  
4-Chlorotoluene  
Concen: 5.131 ug/l  
RT: 12.773 min Scan# 1813  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion: 91 Resp: 75180  
Ion Ratio Lower Upper  
91 100  
126 34.7 17.3 52.0





#83

tert-Butylbenzene

Concen: 4.875 ug/l

RT: 12.993 min Scan# 1849

Delta R.T. 0.000 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

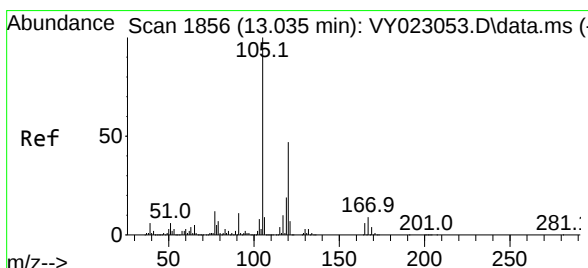
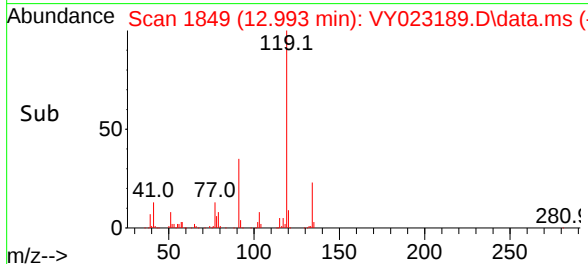
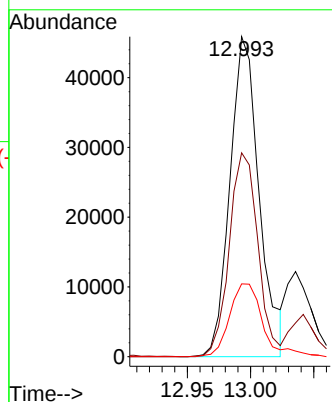
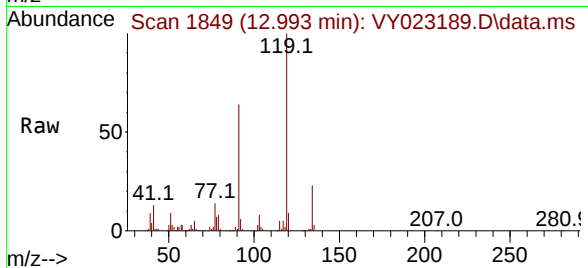
Tgt Ion:119 Resp: 73675

Ion Ratio Lower Upper

119 100

91 62.5 31.6 94.8

134 25.9 12.9 38.7



#84

1,2,4-Trimethylbenzene

Concen: 4.822 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.006 min

Lab File: VY023189.D

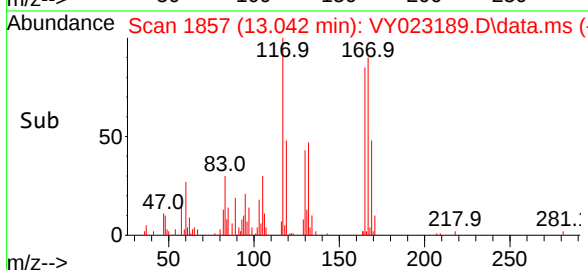
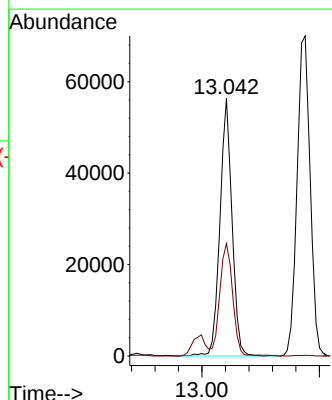
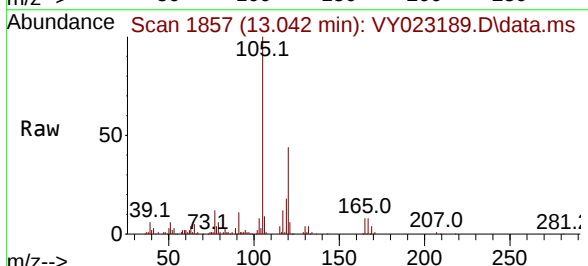
Acq: 22 Aug 2025 13:31

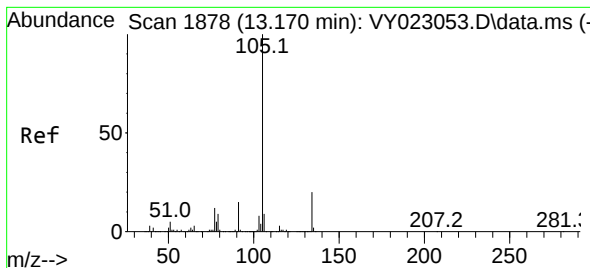
Tgt Ion:105 Resp: 80332

Ion Ratio Lower Upper

105 100

120 46.4 23.0 69.0





#85

sec-Butylbenzene

Concen: 4.862 ug/l

RT: 13.176 min Scan# 1878

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

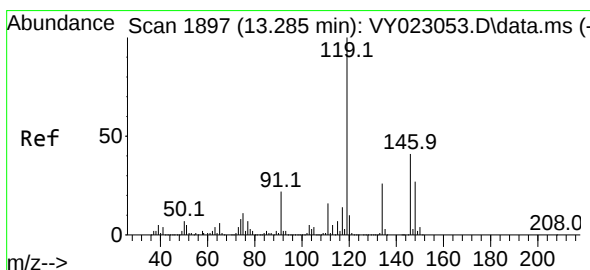
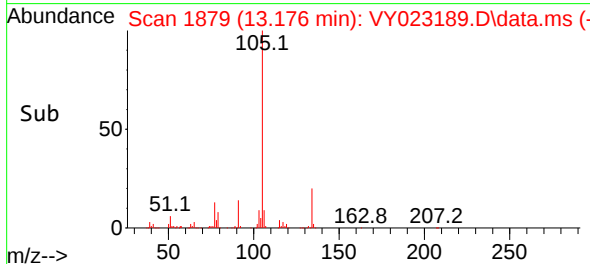
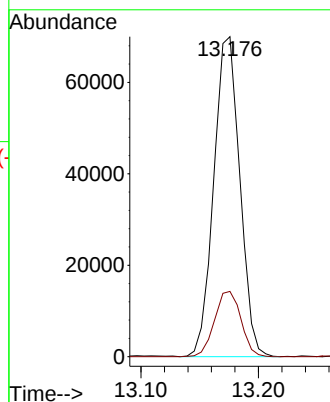
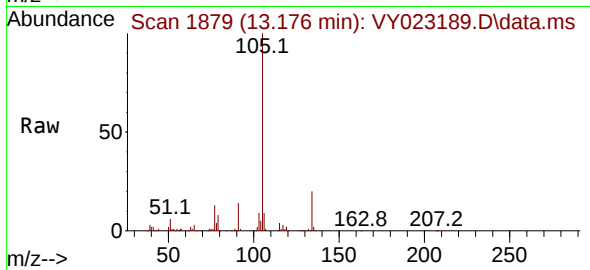
LOQ-SOIL-02-QT3-2025

Tgt Ion:105 Resp: 107944

Ion Ratio Lower Upper

105 100

134 20.7 10.2 30.4



#86

p-Isopropyltoluene

Concen: 4.774 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

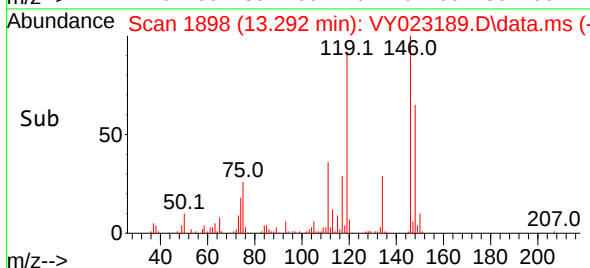
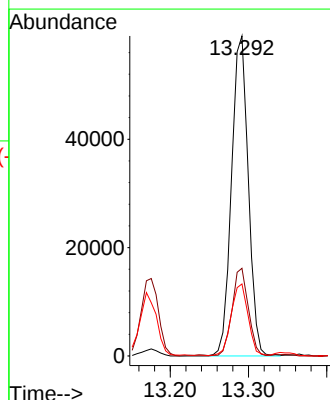
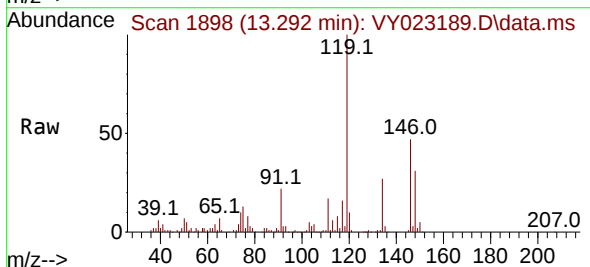
Tgt Ion:119 Resp: 87972

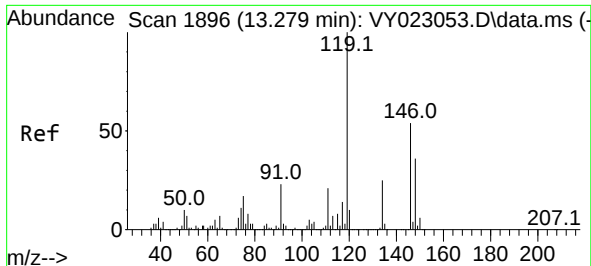
Ion Ratio Lower Upper

119 100

134 26.6 13.2 39.6

91 22.8 11.3 33.8

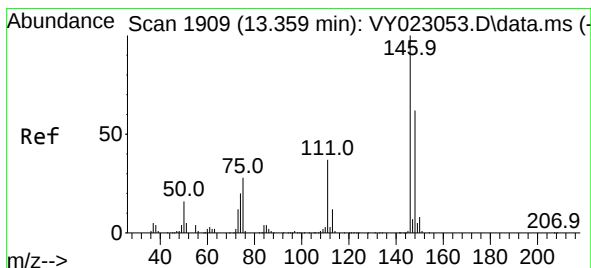
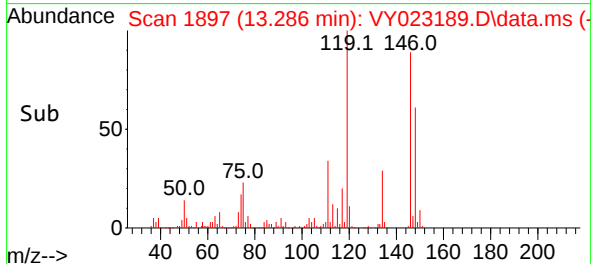
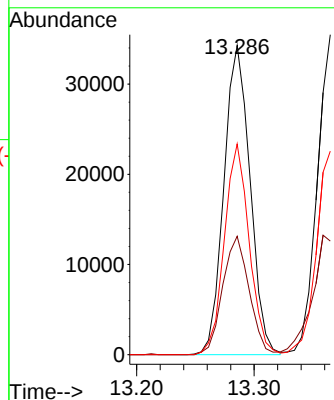
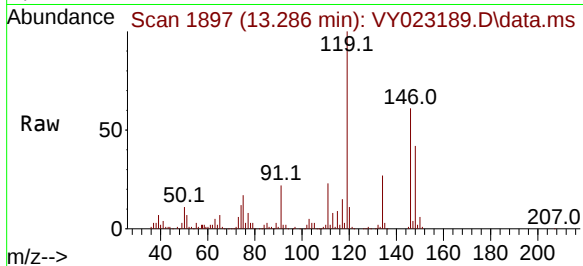




#87  
1,3-Dichlorobenzene  
Concen: 5.442 ug/l  
RT: 13.286 min Scan# 1910  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

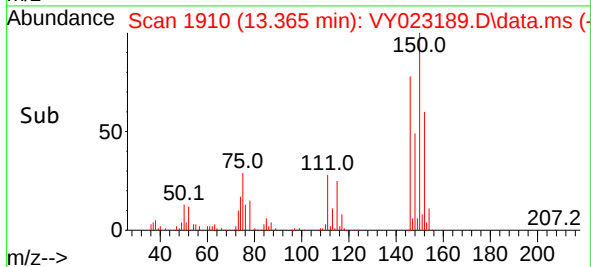
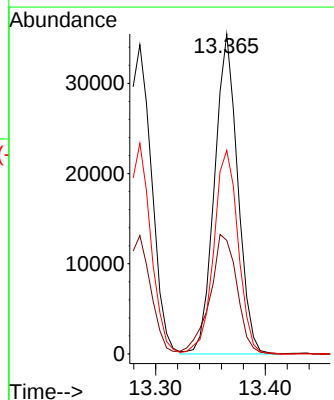
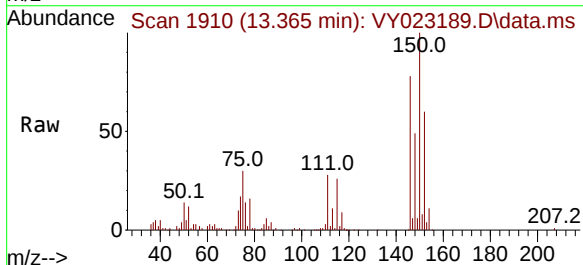
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LOQ-SOIL-02-QT3-2025

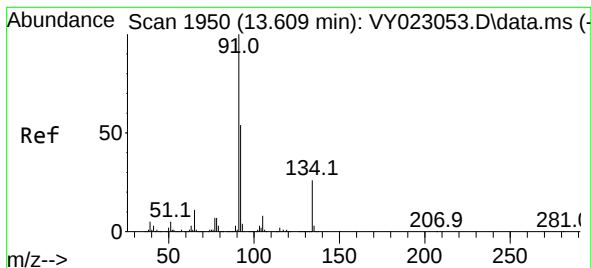
Tgt Ion:146 Resp: 53010  
Ion Ratio Lower Upper  
146 100  
111 38.7 19.6 58.7  
148 64.9 32.5 97.5



#88  
1,4-Dichlorobenzene  
Concen: 5.396 ug/l  
RT: 13.365 min Scan# 1910  
Delta R.T. 0.006 min  
Lab File: VY023189.D  
Acq: 22 Aug 2025 13:31

Tgt Ion:146 Resp: 52144  
Ion Ratio Lower Upper  
146 100  
111 43.7 19.1 57.1  
148 67.0 31.6 94.7





#89

n-Butylbenzene

Concen: 4.718 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

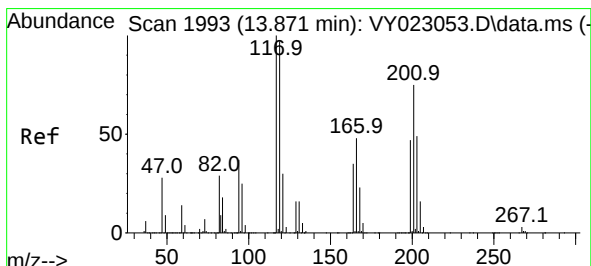
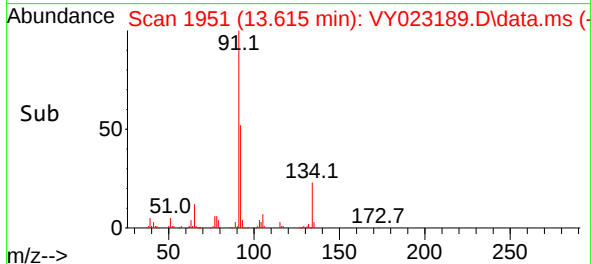
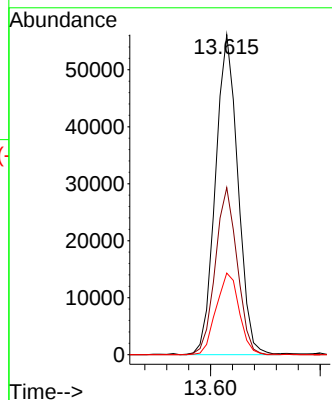
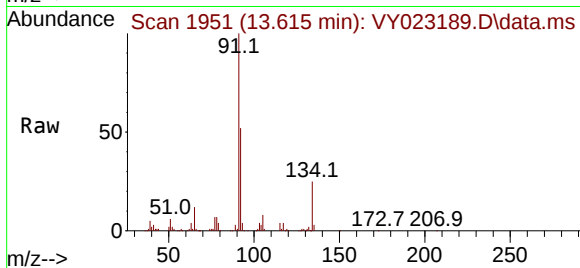
Tgt Ion: 91 Resp: 79859

Ion Ratio Lower Upper

91 100

92 51.2 26.9 80.7

134 26.2 13.2 39.5



#90

Hexachloroethane

Concen: 5.795 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.006 min

Lab File: VY023189.D

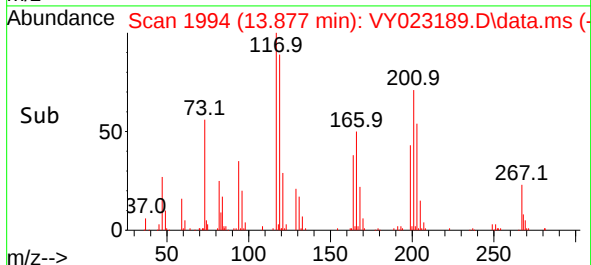
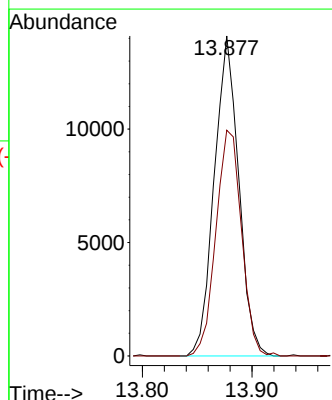
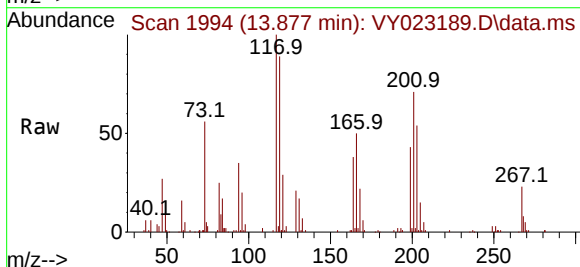
Acq: 22 Aug 2025 13:31

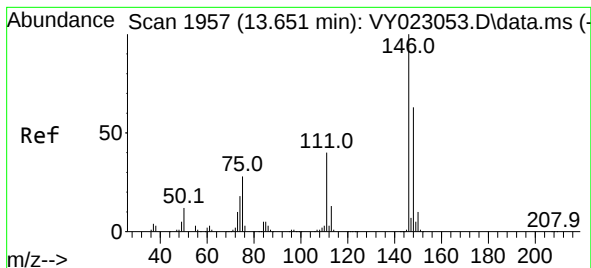
Tgt Ion: 117 Resp: 21863

Ion Ratio Lower Upper

117 100

201 73.9 38.4 115.1





#91

1,2-Dichlorobenzene

Concen: 5.311 ug/l

RT: 13.657 min Scan# 1957

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

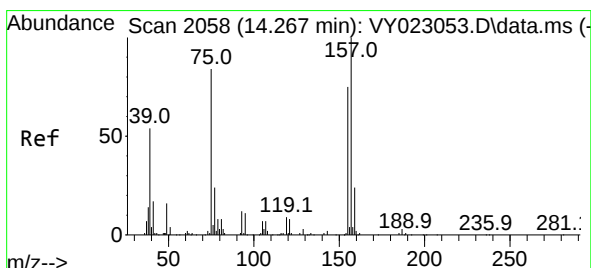
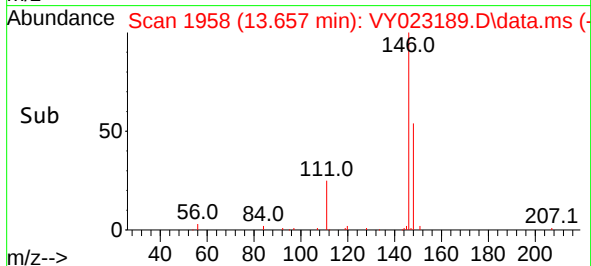
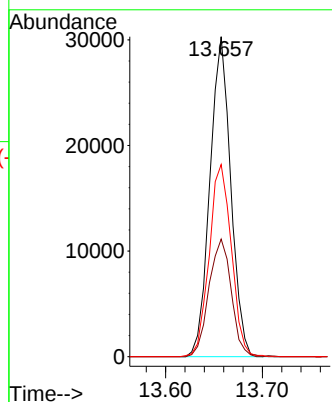
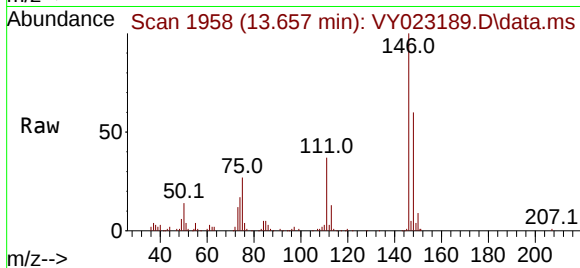
Tgt Ion:146 Resp: 45376

Ion Ratio Lower Upper

146 100

111 39.2 20.3 60.8

148 63.8 32.2 96.6



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.958 ug/l

RT: 14.273 min Scan# 2059

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

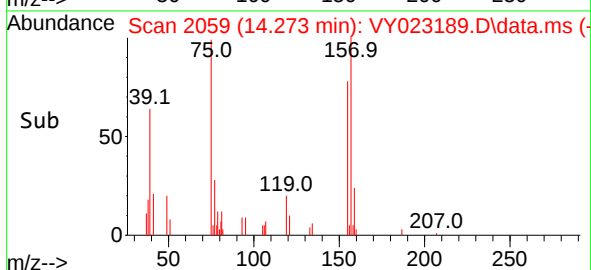
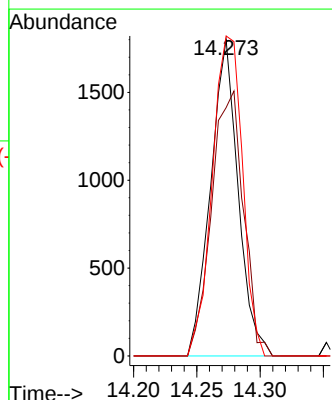
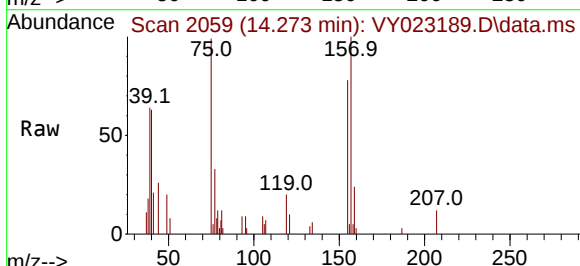
Tgt Ion: 75 Resp: 2729

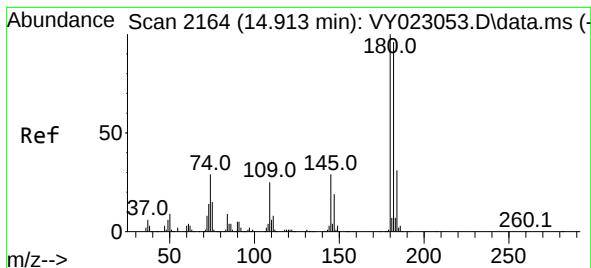
Ion Ratio Lower Upper

75 100

155 96.8 43.9 131.6

157 110.9 57.2 171.6





#93

1,2,4-Trichlorobenzene

Concen: 4.748 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

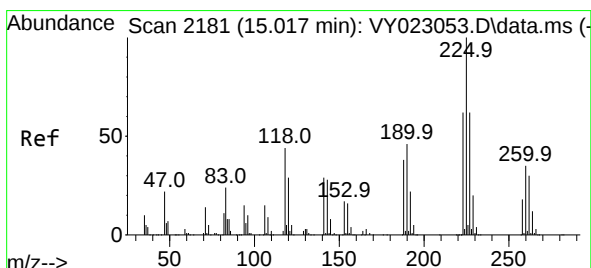
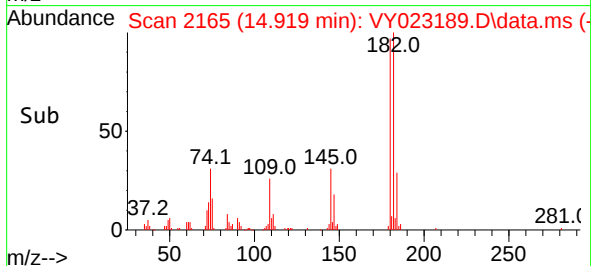
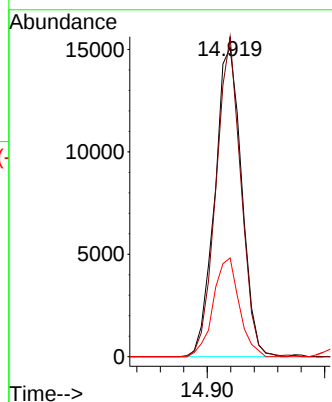
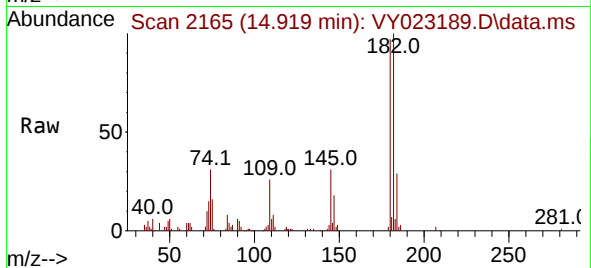
Tgt Ion:180 Resp: 23988

Ion Ratio Lower Upper

180 100

182 95.8 46.8 140.4

145 30.7 14.4 43.4



#94

Hexachlorobutadiene

Concen: 5.298 ug/l

RT: 15.023 min Scan# 2182

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

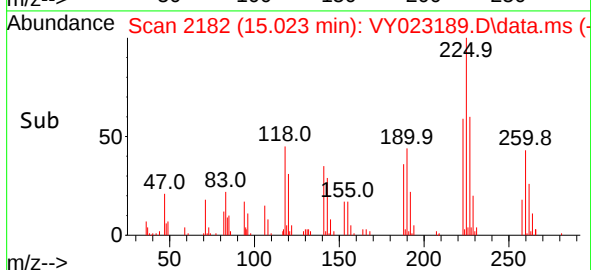
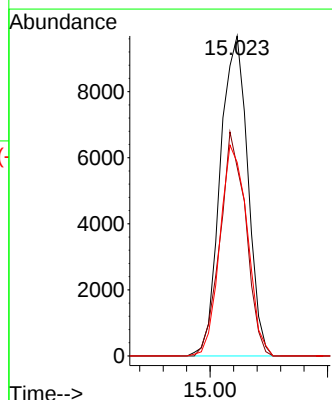
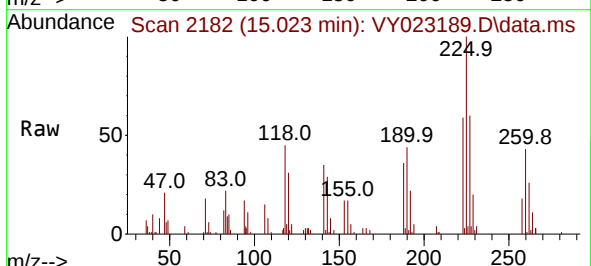
Tgt Ion:225 Resp: 15727

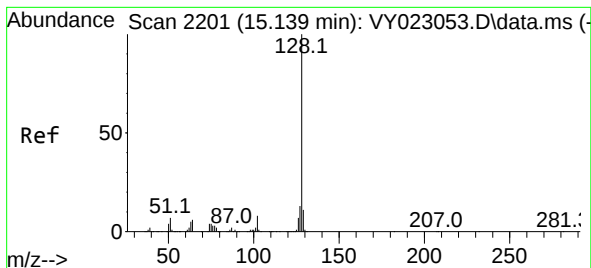
Ion Ratio Lower Upper

225 100

223 65.5 31.3 93.8

227 65.6 31.5 94.5





#95

Naphthalene

Concen: 3.842 ug/l

RT: 15.145 min Scan# 2201

Delta R.T. 0.006 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Instrument :

MSVOA\_Y

ClientSampleId :

LOQ-SOIL-02-QT3-2025

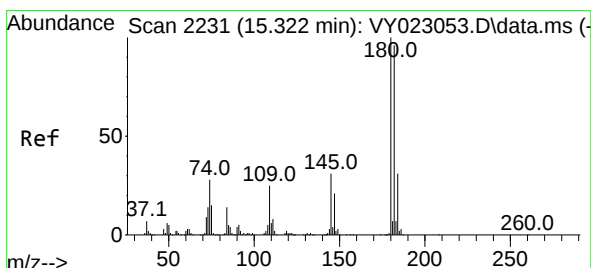
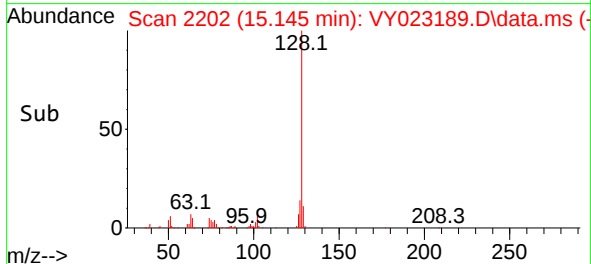
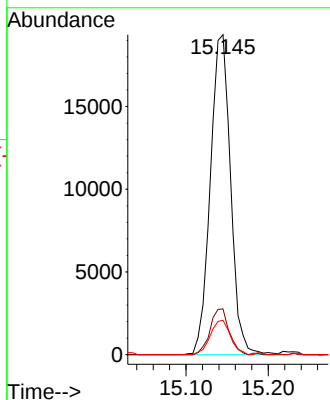
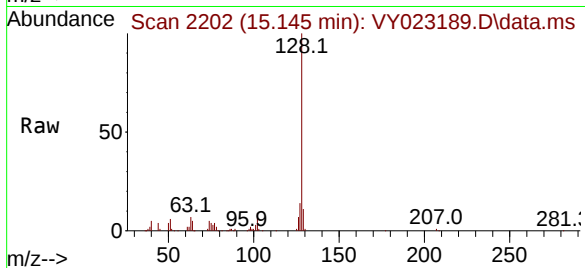
Tgt Ion:128 Resp: 33094

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 10.7 9.0 13.4



#96

1,2,3-Trichlorobenzene

Concen: 4.800 ug/l

RT: 15.322 min Scan# 2231

Delta R.T. 0.000 min

Lab File: VY023189.D

Acq: 22 Aug 2025 13:31

Tgt Ion:180 Resp: 20898

Ion Ratio Lower Upper

180 100

182 92.2 47.9 143.7

145 30.5 15.9 47.7

