

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV061025\  
 Data File : VV038779.D  
 Acq On : 10 Jun 2025 13:50  
 Operator : SY/MD  
 Sample : Q2117-05  
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH/B  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-MED-SOIL-QT2-2025-03

Quant Time: Jun 10 14:47:21 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM060925WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jun 10 14:44:52 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/16/2025  
 Supervised By : Mahesh Dadoda 06/16/2025

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.532          | 114  | 515701     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.776          | 117  | 539620     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.175         | 152  | 245148     | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.291          | 65   | 194877     | 45.439   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 90.880%  |        |          |
| 7) Chloroethane-d5            | 1.542          | 69   | 178804     | 45.547   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 91.100%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.069          | 65   | 95680      | 45.327   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 90.660%  |        |          |
| 21) 2-Butanone-d5             | 3.783          | 46   | 349380     | 104.457  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 104.460% |        |          |
| 24) Chloroform-d              | 4.249          | 84   | 430691     | 47.138   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 94.280%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 4.941          | 65   | 284387     | 53.316   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 106.640% |        |          |
| 32) Benzene-d6                | 4.960          | 84   | 828918     | 48.686   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 97.380%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 5.986          | 67   | 285048     | 50.409   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 100.820% |        |          |
| 41) Toluene-d8                | 7.236          | 98   | 703442     | 46.789   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 93.580%  |        |          |
| 43) trans-1,3-Dichloroprop... | 7.548          | 79   | 119809     | 48.584   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 97.160%  |        |          |
| 47) 2-Hexanone-d5             | 8.014          | 63   | 246826     | 105.209  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 105.210% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.140         | 84   | 410436     | 48.918   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 97.840%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.548         | 152  | 246376     | 51.784   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 103.560% |        |          |
| Target Compounds              |                |      |            |          |        |          |
|                               |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.118          | 85   | 13109      | 2.164    | ug/L   | 98       |
| 3) Chloromethane              | 1.227          | 50   | 13689      | 2.235    | ug/L   | 84       |
| 5) Vinyl chloride             | 1.294          | 62   | 14338      | 2.265    | ug/L # | 67       |
| 6) Bromomethane               | 1.497          | 94   | 7905       | 2.515    | ug/L   | 91       |
| 8) Chloroethane               | 1.558          | 64   | 9837       | 2.588    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.725          | 101  | 18867      | 2.259    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.079          | 101  | 14670      | 2.968    | ug/L # | 84       |
| 12) 1,1-Dichloroethene        | 2.079          | 96   | 12984      | 2.914    | ug/L # | 1        |
| 13) Acetone                   | 2.124          | 43   | 15545      | 6.892    | ug/L   | 98       |
| 14) Carbon disulfide          | 2.249          | 76   | 30949      | 2.272    | ug/L   | 96       |
| 15) Methyl Acetate            | 2.397          | 43   | 15529m     | 2.593    | ug/L   |          |
| 17) trans-1,2-Dichloroethene  | 2.709          | 96   | 9544       | 2.130    | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 2.712          | 73   | 27130      | 2.010    | ug/L # | 91       |
| 19) 1,1-Dichloroethane        | 3.124          | 63   | 22337      | 2.399    | ug/L   | 91       |
| 20) cis-1,2-Dichloroethene    | 3.822          | 96   | 11956m     | 2.485    | ug/L   |          |
| 22) 2-Butanone                | 3.915          | 43   | 21369m     | 6.036    | ug/L   |          |
| 23) Bromochloromethane        | 4.166          | 128  | 6222       | 2.422    | ug/L   | 93       |
| 27) 1,2-Dichloroethane        | 5.063          | 62   | 18666m     | 2.695    | ug/L   |          |
| 29) Cyclohexane               | 4.577          | 56   | 15458m     | 2.004    | ug/L   |          |

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 Quant Title : VOC Analysis  
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 Response via : Initial Calibration

Manual Integrations  
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Reviewed By :John Carlone 06/16/2025  
 Supervised By :Mahesh Dadoda 06/16/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 30) 1,1,1-Trichloroethane     | 4.516  | 97   | 18076    | 2.277 | ug/L # | 84       |
| 31) Carbon tetrachloride      | 4.744  | 117  | 14965    | 2.172 | ug/L   | 98       |
| 33) Benzene                   | 5.015  | 78   | 43441    | 2.289 | ug/L   | 100      |
| 34) Trichloroethene           | 5.847  | 95   | 12303m   | 2.445 | ug/L   |          |
| 35) Methylcyclohexane         | 6.040  | 83   | 18054m   | 2.288 | ug/L   |          |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 11908m   | 2.177 | ug/L   |          |
| 38) Bromodichloromethane      | 6.442  | 83   | 16511    | 2.327 | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 6.960  | 75   | 14975    | 1.906 | ug/L   | 94       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 28060    | 3.753 | ug/L # | 88       |
| 42) Toluene                   | 7.320  | 91   | 41817    | 2.134 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 7.590  | 75   | 17801m   | 2.347 | ug/L   |          |
| 45) 1,1,2-Trichloroethane     | 7.776  | 97   | 12388    | 2.311 | ug/L   | 95       |
| 46) Tetrachloroethene         | 7.905  | 164  | 8361     | 2.260 | ug/L   | 91       |
| 48) 2-Hexanone                | 8.079  | 43   | 28872    | 5.216 | ug/L # | 94       |
| 49) Dibromochloromethane      | 8.172  | 129  | 12766    | 2.345 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 12875    | 2.337 | ug/L # | 95       |
| 51) Chlorobenzene             | 8.809  | 112  | 28911    | 2.186 | ug/L   | 94       |
| 52) Ethylbenzene              | 8.947  | 91   | 39664    | 1.879 | ug/L   | 95       |
| 53) m,p-Xylene                | 9.075  | 106  | 12383    | 1.598 | ug/L   | 92       |
| 54) o-Xylene                  | 9.474  | 106  | 13103    | 1.748 | ug/L   | 100      |
| 55) Styrene                   | 9.500  | 104  | 19412    | 1.487 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.169 | 83   | 23427    | 2.648 | ug/L   | 93       |
| 59) Bromoform                 | 9.664  | 173  | 8637     | 2.525 | ug/L # | 37       |
| 60) Isopropylbenzene          | 9.860  | 105  | 34161    | 1.956 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 10.201 | 75   | 15276    | 2.550 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.471 | 105  | 24132    | 1.776 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.847 | 105  | 23771    | 1.771 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 17873    | 2.142 | ug/L   | 86       |
| 65) 1,4-Dichlorobenzene       | 11.198 | 146  | 21424    | 2.386 | ug/L   | 91       |
| 67) 1,2-Dichlorobenzene       | 11.567 | 146  | 21027    | 2.495 | ug/L   | 90       |
| 68) 1,2-Dibromo-3-chloropr... | 12.358 | 75   | 4966     | 2.900 | ug/L # | 72       |
| 69) 1,3,5-Trichlorobenzene    | 12.577 | 180  | 12777    | 2.316 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 9667     | 2.050 | ug/L   | 97       |
| 71) Naphthalene               | 13.435 | 128  | 29470    | 1.759 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 13.673 | 180  | 9860     | 2.004 | ug/L   | 98       |

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

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MSVOA\_V

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## Manual Integrations APPROVED

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