

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU071723\  
 Data File : VU054797.D  
 Acq On : 17 Jul 2023 16:56  
 Operator : MD/SY  
 Sample : 03573-05  
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-MED-SOIL-QT3-2023-05

Quant Time: Jul 18 06:09:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM071723WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 18 05:50:33 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245   | 114   | 223932   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.415   | 117   | 213544   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.810  | 152   | 115722   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595   | 65    | 84310    | 48.713   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 97.420%  |
| 7) Chloroethane-d5            | 1.878   | 69    | 87090    | 50.302   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 100.600% |
| 11) 1,1-Dichloroethene-d2     | 2.554   | 63    | 88081    | 35.478   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 70.960%  |
| 21) 2-Butanone-d5             | 4.618   | 46    | 115580   | 103.893  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 103.890% |
| 24) Chloroform-d              | 5.055   | 84    | 130194   | 48.324   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.640%  |
| 26) 1,2-Dichloroethane-d4     | 5.695   | 65    | 81352    | 50.425   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.840% |
| 32) Benzene-d6                | 5.721   | 84    | 260755   | 51.262   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.520% |
| 36) 1,2-Dichloropropane-d6    | 6.685   | 67    | 89776    | 52.415   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 104.820% |
| 41) Toluene-d8                | 7.894   | 98    | 250262   | 51.631   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 103.260% |
| 43) trans-1,3-Dichloroprop... | 8.177   | 79    | 41996    | 47.931   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 95.860%  |
| 47) 2-Hexanone-d5             | 8.630   | 63    | 87800    | 108.443  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 108.440% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753  | 84    | 160905   | 51.146   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 102.300% |
| 66) 1,2-Dichlorobenzene-d4    | 12.190  | 152   | 103427   | 52.011   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 104.020% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.380   | 85    | 2767     | 1.635    | ug/L   | 97       |
| 3) Chloromethane              | 1.521   | 50    | 5315     | 2.754    | ug/L   | 95       |
| 5) Vinyl chloride             | 1.602   | 62    | 5969     | 2.379    | ug/L # | 70       |
| 6) Bromomethane               | 1.824   | 94    | 3873m    | 2.536    | ug/L   |          |
| 8) Chloroethane               | 1.901   | 64    | 4023     | 2.317    | ug/L   | 89       |
| 9) Trichlorofluoromethane     | 2.116   | 101   | 8552     | 2.129    | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.560   | 101   | 3477     | 2.347    | ug/L # | 61       |
| 12) 1,1-Dichloroethene        | 2.560   | 96    | 3699m    | 2.655    | ug/L   |          |
| 13) Acetone                   | 2.627   | 43    | 4275     | 4.569    | ug/L   | 85       |
| 14) Carbon disulfide          | 2.782   | 76    | 6696     | 1.646    | ug/L # | 94       |
| 15) Methyl Acetate            | 2.946   | 43    | 4370m    | 2.800    | ug/L   |          |
| 17) trans-1,2-Dichloroethene  | 3.345   | 96    | 3031     | 2.102    | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 3.364   | 73    | 10793    | 2.162    | ug/L # | 79       |
| 19) 1,1-Dichloroethane        | 3.859   | 63    | 6335     | 2.302    | ug/L   | 94       |
| 20) cis-1,2-Dichloroethene    | 4.656   | 96    | 3890     | 2.269    | ug/L   | 94       |
| 22) 2-Butanone                | 4.717   | 43    | 6832m    | 5.289    | ug/L   |          |
| 23) Bromochloromethane        | 4.968   | 128   | 1045m    | 1.198    | ug/L   |          |
| 25) Chloroform                | 5.074   | 83    | 8422     | 2.919    | ug/L   | 96       |
| 27) 1,2-Dichloroethane        | 5.795   | 62    | 4490     | 2.049    | ug/L   | 95       |

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 ClientSampleId :  
 MDL-MED-SOIL-QT3-2023-05

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 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 18 05:50:33 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |                                 |
|-------------------------------|--------|------|----------|-------|--------|----------|---------------------------------|
| 29) Cyclohexane               | 5.377  | 56   | 4798m    | 2.043 | ug/L   |          | 07/18/2023                      |
| 30) 1,1,1-Trichloroethane     | 5.312  | 97   | 5440     | 2.295 | ug/L # | 93       | Supervised By :Mahesh<br>Dadoda |
| 31) Carbon tetrachloride      | 5.521  | 117  | 4355     | 2.128 | ug/L # | 33       |                                 |
| 33) Benzene                   | 5.769  | 78   | 13212    | 2.159 | ug/L   | 100      |                                 |
| 34) Trichloroethene           | 6.534  | 95   | 3719     | 2.388 | ug/L   | 89       |                                 |
| 35) Methylcyclohexane         | 6.759  | 83   | 5418     | 2.129 | ug/L # | 82       |                                 |
| 37) 1,2-Dichloropropane       | 6.788  | 63   | 3931     | 2.336 | ug/L # | 92       | 07/18/2023                      |
| 38) Bromodichloromethane      | 7.103  | 83   | 5111     | 2.367 | ug/L # | 79       |                                 |
| 39) cis-1,3-Dichloropropene   | 7.608  | 75   | 5436     | 1.959 | ug/L   | 96       |                                 |
| 40) 4-Methyl-2-pentanone      | 7.791  | 43   | 12393    | 4.810 | ug/L # | 97       |                                 |
| 42) Toluene                   | 7.968  | 91   | 14343    | 2.095 | ug/L   | 87       |                                 |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 5663     | 2.172 | ug/L   | 97       |                                 |
| 45) 1,1,2-Trichloroethane     | 8.396  | 97   | 3578     | 2.086 | ug/L   | 94       |                                 |
| 46) Tetrachloroethene         | 8.547  | 164  | 1834     | 1.536 | ug/L   | 87       |                                 |
| 48) 2-Hexanone                | 8.685  | 43   | 14975    | 7.016 | ug/L # | 90       |                                 |
| 49) Dibromochloromethane      | 8.807  | 129  | 3303     | 1.869 | ug/L   | 87       |                                 |
| 50) 1,2-Dibromoethane         | 8.920  | 107  | 4080     | 2.209 | ug/L # | 96       |                                 |
| 51) Chlorobenzene             | 9.444  | 112  | 10117    | 2.271 | ug/L   | 88       |                                 |
| 52) Ethylbenzene              | 9.569  | 91   | 17143    | 2.166 | ug/L   | 99       |                                 |
| 53) m,p-Xylene                | 9.692  | 106  | 5921     | 1.965 | ug/L   | 93       |                                 |
| 54) o-Xylene                  | 10.097 | 106  | 6095     | 1.991 | ug/L   | 96       |                                 |
| 55) Styrene                   | 10.113 | 104  | 11153    | 2.092 | ug/L   | 83       |                                 |
| 57) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 8609     | 2.542 | ug/L # | 94       |                                 |
| 59) Bromoform                 | 10.290 | 173  | 3273     | 2.261 | ug/L # | 49       |                                 |
| 60) 1,2,3-Trichloropropane    | 10.820 | 75   | 5832     | 2.583 | ug/L # | 66       |                                 |
| 61) Isopropylbenzene          | 10.483 | 105  | 16488    | 2.156 | ug/L # | 88       |                                 |
| 62) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 12992    | 2.063 | ug/L   | 99       |                                 |
| 63) 1,2,4-Trimethylbenzene    | 11.466 | 105  | 12245    | 1.962 | ug/L   | 100      |                                 |
| 64) 1,3-Dichlorobenzene       | 11.746 | 146  | 8352     | 2.355 | ug/L   | 88       |                                 |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 9139     | 2.559 | ug/L   | 93       |                                 |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146  | 8964     | 2.516 | ug/L # | 85       |                                 |
| 68) 1,2-Dibromo-3-chloropr... | 12.997 | 75   | 1298     | 2.151 | ug/L # | 1        |                                 |
| 69) 1,3,5-Trichlorobenzene    | 13.219 | 180  | 5482     | 2.306 | ug/L # | 90       |                                 |
| 71) Naphthalene               | 14.090 | 128  | 15989    | 2.374 | ug/L # | 94       |                                 |
| 72) 1,2,3-Trichlorobenzene    | 14.331 | 180  | 3805     | 1.904 | ug/L # | 70       |                                 |

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

