

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW100323\  
 Data File : VW032214.D  
 Acq On : 03 Oct 2023 13:54  
 Operator : SY/MD  
 Sample : 04696-05  
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-MED-SOIL-QT4-2023-07

Quant Time: Oct 04 04:06:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM092523WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 04 04:04:33 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.535   | 114   | 199902   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.786   | 117   | 194515   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.188  | 152   | 101118   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 73426    | 59.354   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 118.700% |
| 7) Chloroethane-d5            | 1.532   | 69    | 59548    | 55.807   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 111.620% |
| 11) 1,1-Dichloroethene-d2     | 2.060   | 65    | 30894    | 57.191   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 114.380% |
| 21) 2-Butanone-d5             | 3.789   | 46    | 94772    | 85.199   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 85.200%  |
| 24) Chloroform-d              | 4.252   | 84    | 122716   | 47.403   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.800%  |
| 26) 1,2-Dichloroethane-d4     | 4.944   | 65    | 75199    | 48.279   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.560%  |
| 32) Benzene-d6                | 4.963   | 84    | 254778   | 49.825   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.660%  |
| 36) 1,2-Dichloropropane-d6    | 5.992   | 67    | 86956    | 50.959   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 101.920% |
| 41) Toluene-d8                | 7.246   | 98    | 232001   | 49.733   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 99.460%  |
| 43) trans-1,3-Dichloroprop... | 7.558   | 79    | 34975    | 43.085   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 86.160%  |
| 47) 2-Hexanone-d5             | 8.027   | 63    | 56398    | 76.536   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 76.540%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.156  | 84    | 103616   | 42.694   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 85.380%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.564  | 152   | 88934    | 48.499   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.000%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105   | 85    | 3603     | 2.129    | ug/L   | 96       |
| 3) Chloromethane              | 1.217   | 50    | 4326     | 2.357    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.281   | 62    | 4148     | 2.294    | ug/L # | 62       |
| 6) Bromomethane               | 1.484   | 94    | 2317     | 2.259    | ug/L   | 89       |
| 8) Chloroethane               | 1.548   | 64    | 2605     | 2.315    | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.712   | 101   | 4986     | 2.149    | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.066   | 101   | 4097     | 2.928    | ug/L # | 81       |
| 12) 1,1-Dichloroethene        | 2.069   | 96    | 3546     | 2.739    | ug/L # | 1        |
| 13) Acetone                   | 2.114   | 43    | 5666     | 5.445    | ug/L   | 99       |
| 14) Carbon disulfide          | 2.240   | 76    | 8348     | 2.015    | ug/L   | 97       |
| 15) Methyl Acetate            | 2.378   | 43    | 3809     | 2.052    | ug/L   | 95       |
| 16) Methylene chloride        | 2.449   | 84    | 4059     | 2.483    | ug/L   | 91       |
| 17) trans-1,2-Dichloroethene  | 2.696   | 96    | 3052     | 2.091    | ug/L   | 89       |
| 18) Methyl tert-butyl Ether   | 2.706   | 73    | 9484     | 1.942    | ug/L # | 94       |
| 19) 1,1-Dichloroethane        | 3.117   | 63    | 6297     | 2.200    | ug/L   | 96       |
| 20) cis-1,2-Dichloroethene    | 3.825   | 96    | 3275     | 1.993    | ug/L   | 94       |
| 22) 2-Butanone                | 3.918   | 43    | 6155m    | 4.406    | ug/L   |          |
| 23) Bromochloromethane        | 4.162   | 128   | 1618     | 1.966    | ug/L   | 99       |
| 25) Chloroform                | 4.278   | 83    | 7353     | 2.632    | ug/L   | 95       |

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 MDL-MED-SOIL-QT4-2023-07

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 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 04 04:04:33 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.059  | 62   | 4773     | 2.261 | ug/L   | 96       |
| 29) Cyclohexane               | 4.587  | 56   | 5300     | 1.952 | ug/L # | 89       |
| 30) 1,1,1-Trichloroethane     | 4.519  | 97   | 4969     | 2.049 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 4.741  | 117  | 4259     | 2.033 | ug/L   | 99       |
| 33) Benzene                   | 5.018  | 78   | 12780m   | 2.060 | ug/L   |          |
| 34) Trichloroethene           | 5.844  | 95   | 3717m    | 2.176 | ug/L   |          |
| 35) Methylcyclohexane         | 6.053  | 83   | 6238m    | 2.284 | ug/L   |          |
| 37) 1,2-Dichloropropane       | 6.101  | 63   | 4099     | 2.408 | ug/L # | 89       |
| 38) Bromodichloromethane      | 6.442  | 83   | 3937     | 1.840 | ug/L # | 91       |
| 39) cis-1,3-Dichloropropene   | 6.966  | 75   | 5312m    | 1.967 | ug/L   |          |
| 40) 4-Methyl-2-pentanone      | 7.169  | 43   | 8258     | 3.254 | ug/L   | 97       |
| 42) Toluene                   | 7.326  | 91   | 13388    | 2.021 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 7.593  | 75   | 5079m    | 2.054 | ug/L   |          |
| 45) 1,1,2-Trichloroethane     | 7.780  | 97   | 3400     | 2.094 | ug/L   | 94       |
| 46) Tetrachloroethene         | 7.911  | 164  | 2595     | 2.090 | ug/L   | 96       |
| 48) 2-Hexanone                | 8.085  | 43   | 11713    | 5.909 | ug/L # | 82       |
| 49) Dibromochloromethane      | 8.182  | 129  | 3085     | 1.911 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.294  | 107  | 3638     | 2.104 | ug/L # | 79       |
| 51) Chlorobenzene             | 8.818  | 112  | 9179     | 2.147 | ug/L   | 99       |
| 52) Ethylbenzene              | 8.956  | 91   | 13933    | 1.883 | ug/L   | 99       |
| 53) m,p-Xylene                | 9.082  | 106  | 5190     | 1.883 | ug/L   | 95       |
| 54) o-Xylene                  | 9.487  | 106  | 5128     | 1.888 | ug/L   | 97       |
| 55) Styrene                   | 9.506  | 104  | 7924     | 1.710 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.181 | 83   | 5490     | 2.169 | ug/L # | 95       |
| 59) Bromoform                 | 9.673  | 173  | 2136     | 1.901 | ug/L # | 66       |
| 60) Isopropylbenzene          | 9.873  | 105  | 13490    | 1.917 | ug/L   | 97       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 4163     | 2.118 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 10658    | 1.843 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 9777     | 1.719 | ug/L   | 97       |
| 64) 1,3-Dichlorobenzene       | 11.127 | 146  | 6516     | 1.980 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.214 | 146  | 6994     | 2.104 | ug/L   | 93       |
| 67) 1,2-Dichlorobenzene       | 11.587 | 146  | 7362     | 2.275 | ug/L   | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.374 | 75   | 947m     | 1.745 | ug/L   |          |
| 69) 1,3,5-Trichlorobenzene    | 12.590 | 180  | 4779     | 2.006 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.207 | 180  | 4243     | 1.894 | ug/L   | 97       |
| 71) Naphthalene               | 13.448 | 128  | 12554    | 1.701 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 4144     | 1.861 | ug/L   | 98       |

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

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