

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011821\  
 Data File : VU042092.D  
 Acq On : 18 Jan 2021 13:44  
 Operator : SY/MD  
 Sample : L5214-06  
 Misc : 5.0g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-MED-SOIL-QT1-2021-02

Quant Time: Jan 19 01:03:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM011221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 19 01:00:57 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 6.259          | 114  | 270828     | 50.00   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420          | 117  | 269613     | 50.00   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809         | 152  | 130625     | 50.00   | ug/L   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 1.600          | 65   | 117980     | 39.72   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 79.44%  |        |          |
| 7) Chloroethane-d5            | 1.919          | 69   | 95958      | 40.66   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 81.32%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.575          | 63   | 152630     | 31.65   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 63.30%  |        |          |
| 21) 2-Butanone-d5             | 4.642          | 46   | 167835     | 74.54   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 74.54%  |        |          |
| 24) Chloroform-d              | 5.079          | 84   | 191793     | 42.28   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 84.56%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.716          | 65   | 125409     | 43.97   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 87.94%  |        |          |
| 32) Benzene-d6                | 5.739          | 84   | 391786     | 41.58   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 83.16%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.700          | 67   | 126262     | 41.96   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 83.92%  |        |          |
| 41) Toluene-d8                | 7.902          | 98   | 357063     | 44.57   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 89.14%  |        |          |
| 43) trans-1,3-Dichloroprop... | 8.185          | 79   | 64619      | 43.50   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 87.00%  |        |          |
| 47) 2-Hexanone-d5             | 8.639          | 63   | 132928     | 81.87   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 81.87%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.754         | 84   | 187966     | 43.19   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 86.38%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.188         | 152  | 137341     | 50.51   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 101.02% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.385          | 85   | 6384       | 2.46    | ug/L   | 98       |
| 3) Chloromethane              | 1.523          | 50   | 5903       | 1.95    | ug/L   | 86       |
| 5) Vinyl chloride             | 1.607          | 62   | 7225       | 2.32    | ug/L # | 71       |
| 6) Bromomethane               | 1.861          | 94   | 4409       | 2.32    | ug/L   | 89       |
| 8) Chloroethane               | 1.938          | 64   | 4400       | 2.31    | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.144          | 101  | 8515       | 2.19    | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.584          | 101  | 6823       | 3.15    | ug/L # | 85       |
| 12) 1,1-Dichloroethene        | 2.587          | 96   | 5811       | 2.81    | ug/L # | 1        |
| 13) Acetone                   | 2.645          | 43   | 6967       | 3.66    | ug/L   | 95       |
| 14) Carbon disulfide          | 2.803          | 76   | 15355      | 2.29    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.960          | 43   | 6205       | 2.08    | ug/L   | 96       |
| 16) Methylene chloride        | 3.060          | 84   | 6070       | 2.53    | ug/L   | 92       |
| 17) trans-1,2-Dichloroethene  | 3.366          | 96   | 4974       | 2.29    | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 3.375          | 73   | 16064      | 2.28    | ug/L   | 94       |
| 19) 1,1-Dichloroethane        | 3.880          | 63   | 9172       | 2.13    | ug/L   | 96       |
| 20) cis-1,2-Dichloroethene    | 4.681          | 96   | 5321       | 2.27    | ug/L   | 98       |
| 22) 2-Butanone                | 4.726          | 43   | 10088      | 4.03    | ug/L   | 97       |
| 23) Bromochloromethane        | 4.993          | 128  | 2846       | 2.53    | ug/L   | 86       |
| 25) Chloroform                | 5.105          | 83   | 11392      | 2.67    | ug/L   | 97       |

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 Sample : L5214-06  
 Misc : 5.0g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-MED-SOIL-QT1-2021-02

Quant Time: Jan 19 01:03:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM011221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 19 01:00:57 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.806  | 62   | 7907     | 2.41 | ug/L   | 99       |
| 29) Cyclohexane               | 5.398  | 56   | 7032     | 1.73 | ug/L # | 83       |
| 30) 1,1,1-Trichloroethane     | 5.330  | 97   | 8324     | 2.07 | ug/L   | 96       |
| 31) Carbon tetrachloride      | 5.536  | 117  | 6819     | 2.04 | ug/L   | 94       |
| 33) Benzene                   | 5.787  | 78   | 22054    | 2.21 | ug/L   | 100      |
| 34) Trichloroethene           | 6.549  | 95   | 5628     | 2.29 | ug/L   | 91       |
| 35) Methylcyclohexane         | 6.774  | 83   | 8069     | 2.24 | ug/L   | 95       |
| 37) 1,2-Dichloropropane       | 6.800  | 63   | 5854     | 2.23 | ug/L # | 93       |
| 38) Bromodichloromethane      | 7.111  | 83   | 7495     | 2.30 | ug/L # | 92       |
| 39) cis-1,3-Dichloropropene   | 7.616  | 75   | 8452     | 2.19 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.800  | 43   | 14764    | 3.64 | ug/L   | 97       |
| 42) Toluene                   | 7.976  | 91   | 23303    | 2.45 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 11208    | 3.02 | ug/L   | 94       |
| 45) 1,1,2-Trichloroethane     | 8.404  | 97   | 5384     | 2.35 | ug/L   | 87       |
| 46) Tetrachloroethene         | 8.555  | 164  | 4071     | 2.64 | ug/L   | 93       |
| 48) 2-Hexanone                | 8.690  | 43   | 15604    | 4.65 | ug/L # | 91       |
| 49) Dibromochloromethane      | 8.812  | 129  | 5731     | 2.35 | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 6092     | 2.54 | ug/L # | 91       |
| 51) Chlorobenzene             | 9.449  | 112  | 15110    | 2.58 | ug/L   | 92       |
| 52) Ethylbenzene              | 9.571  | 91   | 22770    | 2.24 | ug/L   | 97       |
| 53) m,p-Xylene                | 9.693  | 106  | 8553     | 2.32 | ug/L   | 86       |
| 54) o-xylene                  | 10.102 | 106  | 8297     | 2.33 | ug/L   | 82       |
| 55) Styrene                   | 10.115 | 104  | 13139    | 2.10 | ug/L   | 86       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 10027    | 2.36 | ug/L # | 95       |
| 59) Bromoform                 | 10.288 | 173  | 4523     | 2.66 | ug/L # | 95       |
| 60) 1,2,3-Trichloropropane    | 10.825 | 75   | 8102     | 2.37 | ug/L   | 98       |
| 61) Isopropylbenzene          | 10.484 | 105  | 20583    | 2.25 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 15600    | 2.01 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 15045    | 1.94 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.741 | 146  | 10467    | 2.50 | ug/L   | 93       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 11560    | 2.76 | ug/L   | 93       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 11119    | 2.60 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 1971     | 1.82 | ug/L   | 86       |
| 69) 1,3,5-Trichlorobenzene    | 13.211 | 180  | 6825     | 2.41 | ug/L   | 95       |
| 70) 1,2,4-trichlorobenzene    | 13.831 | 180  | 5250     | 2.41 | ug/L   | 93       |
| 71) Naphthalene               | 14.076 | 128  | 10944    | 1.46 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.323 | 180  | 4561     | 2.04 | ug/L   | 97       |

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

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