

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU071322\  
 Data File : VU049701.D  
 Acq On : 13 Jul 2022 12:21  
 Operator : SY/MD  
 Sample : N3670-06  
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-MED-SOIL-QT2-2022-04

Quant Time: Jul 14 05:36:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM071122WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jul 14 05:07:30 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 07/14/2022  
 Supervised By :Mahesh Dadoda 07/14/2022

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114   | 199018   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 188239   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 83796    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 70386    | 41.916   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 83.840%  |
| 7) Chloroethane-d5            | 1.903   | 69    | 55674    | 45.868   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 91.740%  |
| 11) 1,1-Dichloroethene-d2     | 2.562   | 63    | 93999    | 31.691   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 63.380%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 157310   | 109.740  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 109.740% |
| 24) Chloroform-d              | 5.060   | 84    | 142930   | 48.058   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.120%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 98600    | 48.984   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.960%  |
| 32) Benzene-d6                | 5.726   | 84    | 267829   | 46.834   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.660%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 94438    | 49.097   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 98.200%  |
| 41) Toluene-d8                | 7.896   | 98    | 223063   | 44.791   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 89.580%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 37497    | 46.269   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 92.540%  |
| 47) 2-Hexanone-d5             | 8.629   | 63    | 89671    | 103.637  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 103.640% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 136271   | 50.632   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 101.260% |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 80251    | 50.794   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 101.580% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 5037     | 2.111    | ug/L   | 98       |
| 3) Chloromethane              | 1.520   | 50    | 8576     | 3.275    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.601   | 62    | 5969     | 2.523    | ug/L   | 89       |
| 6) Bromomethane               | 1.842   | 94    | 3075     | 2.813    | ug/L   | 92       |
| 8) Chloroethane               | 1.925   | 64    | 3170     | 2.419    | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.131   | 101   | 6643     | 2.274    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 4145     | 2.704    | ug/L # | 86       |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 4059     | 2.853    | ug/L # | 1        |
| 13) Acetone                   | 2.626   | 43    | 6733     | 4.942    | ug/L   | 100      |
| 14) Carbon disulfide          | 2.787   | 76    | 11070    | 2.307    | ug/L   | 98       |
| 15) Methyl Acetate            | 2.948   | 43    | 6325     | 2.858    | ug/L   | 92       |
| 16) Methylene chloride        | 3.044   | 84    | 5508     | 3.074    | ug/L   | 87       |
| 17) trans-1,2-Dichloroethene  | 3.353   | 96    | 3453     | 2.218    | ug/L   | 89       |
| 18) Methyl tert-butyl Ether   | 3.363   | 73    | 13214    | 2.478    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.874   | 63    | 8314m    | 2.566    | ug/L   |          |
| 20) cis-1,2-Dichloroethene    | 4.668   | 96    | 4501     | 2.573    | ug/L   | 86       |
| 22) 2-Butanone                | 4.707   | 43    | 10366m   | 5.683    | ug/L   |          |
| 23) Bromochloromethane        | 4.973   | 128   | 2264     | 2.594    | ug/L   | 88       |
| 27) 1,2-Dichloroethane        | 5.793   | 62    | 7507     | 2.713    | ug/L   | 97       |

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Instrument :  
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Quant Time: Jul 14 05:36:20 2022  
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 Quant Title : VOC Analysis  
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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 29) Cyclohexane               | 5.385  | 56   | 5971     | 2.032 | ug/L # | 90       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 6670     | 2.448 | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 5123     | 2.298 | ug/L   | 95       |
| 33) Benzene                   | 5.774  | 78   | 17962    | 2.539 | ug/L   | 100      |
| 35) Methylcyclohexane         | 6.761  | 83   | 5310     | 1.976 | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 5263     | 2.684 | ug/L # | 92       |
| 38) Bromodichloromethane      | 7.105  | 83   | 6271     | 2.579 | ug/L   | 88       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 6615     | 2.501 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 16263    | 5.122 | ug/L   | 98       |
| 42) Toluene                   | 7.970  | 91   | 17622    | 2.506 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 5840     | 2.352 | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 4847     | 2.831 | ug/L   | 87       |
| 46) Tetrachloroethene         | 8.552  | 164  | 2854     | 2.406 | ug/L   | 92       |
| 48) 2-Hexanone                | 8.684  | 43   | 20475    | 8.070 | ug/L   | 94       |
| 49) Dibromochloromethane      | 8.809  | 129  | 4513     | 2.621 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 4176     | 2.456 | ug/L # | 98       |
| 51) Chlorobenzene             | 9.446  | 112  | 10832    | 2.544 | ug/L   | 96       |
| 52) Ethylbenzene              | 9.568  | 91   | 17474    | 2.355 | ug/L   | 93       |
| 53) m,p-Xylene                | 9.694  | 106  | 5910     | 2.190 | ug/L   | 94       |
| 54) o-Xylene                  | 10.102 | 106  | 6168     | 2.270 | ug/L   | 82       |
| 55) Styrene                   | 10.115 | 104  | 8666     | 1.933 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 8618     | 2.812 | ug/L # | 89       |
| 59) Bromoform                 | 10.292 | 173  | 2942     | 2.618 | ug/L # | 92       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 6893     | 3.088 | ug/L   | 97       |
| 61) Isopropylbenzene          | 10.485 | 105  | 15162    | 2.423 | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 11407    | 2.161 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 11031    | 2.104 | ug/L   | 95       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 6635     | 2.429 | ug/L   | 94       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 7021     | 2.559 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 7953     | 2.800 | ug/L   | 91       |
| 68) 1,2-Dibromo-3-chloropr... | 13.002 | 75   | 1751     | 2.677 | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 4815     | 2.516 | ug/L   | 94       |
| 70) 1,2,4-trichlorobenzene    | 13.844 | 180  | 3864     | 2.200 | ug/L   | 99       |
| 71) Naphthalene               | 14.089 | 128  | 13756    | 2.191 | ug/L   | 95       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 4477     | 2.461 | ug/L   | 93       |

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

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