

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU082922\  
 Data File : VU050477.D  
 Acq On : 29 Aug 2022 12:13  
 Operator : SY/MD  
 Sample : N4015-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT3-2022-06

Quant Time: Aug 30 03:49:14 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM082422WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 30 02:11:49 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 344035   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 333693   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 124576   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 159731   | 39.265   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 78.540%  |
| 7) Chloroethane-d5            | 1.900   | 69    | 134691   | 44.747   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 89.500%  |
| 11) 1,1-Dichloroethene-d2     | 2.562   | 63    | 196227   | 34.133   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 68.260%  |
| 21) 2-Butanone-d5             | 4.626   | 46    | 243610   | 91.491   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 91.490%  |
| 24) Chloroform-d              | 5.063   | 84    | 283788   | 43.458   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 86.920%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 183223   | 45.146   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.300%  |
| 32) Benzene-d6                | 5.726   | 84    | 576368   | 46.746   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.500%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 191657   | 46.922   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 93.840%  |
| 41) Toluene-d8                | 7.899   | 98    | 472644   | 43.809   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 87.620%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 73994    | 43.428   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 86.860%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 127125   | 83.865   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 83.870%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 279150   | 44.309   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 88.620%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 152874   | 51.371   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 102.740% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 4918     | 1.829    | ug/L   | 97       |
| 3) Chloromethane              | 1.517   | 50    | 7190     | 2.297    | ug/L   | 95       |
| 5) Vinyl chloride             | 1.601   | 62    | 6453     | 2.109    | ug/L # | 46       |
| 6) Bromomethane               | 1.842   | 94    | 2397     | 2.118    | ug/L   | 96       |
| 8) Chloroethane               | 1.922   | 64    | 3782     | 2.034    | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.131   | 101   | 7483     | 1.922    | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.572   | 101   | 6665     | 2.792    | ug/L # | 77       |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 5453     | 2.584    | ug/L # | 1        |
| 13) Acetone                   | 2.636   | 43    | 8436     | 4.819    | ug/L   | 95       |
| 14) Carbon disulfide          | 2.787   | 76    | 9444     | 1.754    | ug/L   | 97       |
| 15) Methyl Acetate            | 2.954   | 43    | 6014     | 1.909    | ug/L   | 95       |
| 16) Methylene chloride        | 3.044   | 84    | 6916     | 2.351    | ug/L   | 94       |
| 17) trans-1,2-Dichloroethene  | 3.353   | 96    | 4345     | 1.958    | ug/L   | 92       |
| 18) Methyl tert-butyl Ether   | 3.369   | 73    | 14568    | 2.075    | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.870   | 63    | 9779     | 2.035    | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.668   | 96    | 5343     | 2.011    | ug/L   | 96       |
| 22) 2-Butanone                | 4.719   | 43    | 10050    | 4.236    | ug/L   | 74       |
| 23) Bromochloromethane        | 4.973   | 128   | 2843     | 1.959    | ug/L   | 92       |
| 25) Chloroform                | 5.086   | 83    | 13671    | 2.670    | ug/L   | 97       |

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 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 30 02:11:49 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.796  | 62   | 8655     | 2.266 | ug/L # | 94       |
| 29) Cyclohexane               | 5.385  | 56   | 5304     | 1.728 | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 7899     | 2.069 | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 6355     | 2.028 | ug/L   | 99       |
| 33) Benzene                   | 5.774  | 78   | 21979    | 2.175 | ug/L   | 100      |
| 34) Trichloroethene           | 6.546  | 95   | 5078     | 2.123 | ug/L   | 93       |
| 35) Methylcyclohexane         | 6.764  | 83   | 6308     | 1.886 | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 6699     | 2.283 | ug/L # | 92       |
| 38) Bromodichloromethane      | 7.105  | 83   | 7562     | 2.020 | ug/L # | 97       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 7664     | 1.989 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.796  | 43   | 14135    | 3.624 | ug/L   | 98       |
| 42) Toluene                   | 7.970  | 91   | 21183    | 2.081 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 7536     | 2.098 | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 5982     | 2.072 | ug/L   | 90       |
| 46) Tetrachloroethene         | 8.552  | 164  | 3575     | 2.035 | ug/L   | 96       |
| 48) 2-Hexanone                | 8.684  | 43   | 31417    | 9.646 | ug/L # | 92       |
| 49) Dibromochloromethane      | 8.812  | 129  | 5970     | 1.996 | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 6389     | 2.214 | ug/L # | 90       |
| 51) Chlorobenzene             | 9.449  | 112  | 14106    | 2.112 | ug/L   | 99       |
| 52) Ethylbenzene              | 9.571  | 91   | 18881    | 1.840 | ug/L   | 97       |
| 53) m,p-Xylene                | 9.697  | 106  | 6296     | 1.643 | ug/L   | 92       |
| 54) o-Xylene                  | 10.102 | 106  | 6012     | 1.579 | ug/L   | 91       |
| 55) Styrene                   | 10.115 | 104  | 9119     | 1.408 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 11922    | 2.259 | ug/L # | 99       |
| 59) Bromoform                 | 10.291 | 173  | 4179     | 2.343 | ug/L # | 93       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 8330     | 2.595 | ug/L   | 97       |
| 61) Isopropylbenzene          | 10.484 | 105  | 14492    | 1.881 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 10642    | 1.710 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 9924     | 1.635 | ug/L   | 97       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 7623     | 2.023 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 8237     | 2.171 | ug/L   | 93       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 9392     | 2.371 | ug/L # | 93       |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 1988     | 2.330 | ug/L   | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.224 | 180  | 5204     | 2.004 | ug/L   | 94       |
| 70) 1,2,4-trichlorobenzene    | 13.844 | 180  | 4218     | 2.028 | ug/L   | 97       |
| 71) Naphthalene               | 14.092 | 128  | 11400    | 1.671 | ug/L # | 94       |

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

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