

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW032421\  
 Data File : VW018447.D  
 Acq On : 24 Mar 2021 17:30  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02513

Quant Time: Mar 25 01:26:55 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SOM2WLM031921S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 25 01:23:35 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.842  | 114   | 446664   | 25.00    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.634 | 117   | 417747   | 25.00    | ug/L   | 0.00     |
| 60) 1,4-Dichlorobenzene-d4    | 13.554 | 152   | 211126   | 25.00    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.355  | 65    | 141306   | 22.73    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 90.92%   |
| 7) Chloroethane-d5            | 2.891  | 69    | 133737   | 24.58    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 98.32%   |
| 10) 1,1-Dichloroethene-d2     | 4.025  | 63    | 242667   | 22.61    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 90.44%   |
| 20) 2-Butanone-d5             | 7.074  | 46    | 86482    | 62.50    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 125.00%  |
| 24) Chloroform-d              | 7.647  | 84    | 286418   | 25.18    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 100.72%  |
| 26) 1,2-Dichloroethane-d4     | 8.305  | 65    | 175328   | 26.40    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 105.60%  |
| 29) Benzene-d6                | 8.275  | 84    | 522585   | 23.53    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 94.12%   |
| 33) 1,2-Dichloropropane-d6    | 9.274  | 67    | 156173   | 24.38    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 97.52%   |
| 37) Toluene-d8                | 10.323 | 98    | 513910   | 24.03    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 96.12%   |
| 38) trans-1,3-Dichloroprop... | 10.579 | 79    | 81247    | 24.59    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 98.36%   |
| 39) 2-Hexanone-d5             | 10.920 | 63    | 75609    | 60.31    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 120.62%  |
| 48) 1,1,2,2-Tetrachloroeth... | 12.688 | 84    | 166466   | 29.05    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 116.20%  |
| 61) 1,2-Dichlorobenzene-d4    | 13.853 | 152   | 189984   | 25.31    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 101.24%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.014  | 85    | 113483   | 22.12    | ug/L   | 98       |
| 3) Chloromethane              | 2.221  | 50    | 155774   | 24.09    | ug/L   | 96       |
| 5) Vinyl chloride             | 2.367  | 62    | 234364   | 27.60    | ug/L   | 96       |
| 6) Bromomethane               | 2.782  | 94    | 171517   | 27.97    | ug/L   | 98       |
| 8) Chloroethane               | 2.928  | 64    | 147546   | 27.86    | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 3.263  | 101   | 96007    | 22.47    | ug/L   | 98       |
| 11) 1,1,2-Trichloro-1,2,2-... | 4.068  | 101   | 149863   | 27.28    | ug/L # | 69       |
| 12) 1,1-Dichloroethene        | 4.050  | 96    | 144306   | 25.74    | ug/L   | 95       |
| 13) Acetone                   | 4.117  | 43    | 54078    | 54.40    | ug/L   | 98       |
| 14) Carbon disulfide          | 4.391  | 76    | 415463   | 24.61    | ug/L   | 99       |
| 15) Methyl Acetate            | 4.665  | 43    | 71425    | 31.41    | ug/L   | 98       |
| 16) Methylene chloride        | 4.922  | 84    | 158778   | 21.67    | ug/L   | 90       |
| 17) Methyl tert-butyl Ether   | 5.421  | 73    | 219412   | 26.79    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 5.421  | 96    | 158747   | 25.65    | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 6.214  | 63    | 279275   | 26.44    | ug/L   | 97       |
| 21) 2-Butanone                | 7.165  | 43    | 93431    | 59.16    | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 7.171  | 96    | 169674   | 26.06    | ug/L   | 94       |
| 23) Bromochloromethane        | 7.513  | 128   | 78836    | 27.36    | ug/L   | 89       |
| 25) Chloroform                | 7.677  | 83    | 297926   | 26.58    | ug/L   | 99       |

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 Quant Title : VOC Analysis  
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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 8.397  | 62   | 227073   | 28.55 | ug/L   | 100      |
| 30) Cyclohexane               | 7.958  | 56   | 241873   | 24.39 | ug/L   | 96       |
| 31) 1,1,1-Trichloroethane     | 7.872  | 97   | 239300   | 25.63 | ug/L   | 96       |
| 32) Carbon tetrachloride      | 8.067  | 117  | 222820   | 25.61 | ug/L   | 98       |
| 34) Benzene                   | 8.323  | 78   | 637542   | 26.35 | ug/L   | 100      |
| 35) Trichloroethene           | 9.092  | 95   | 170890   | 25.57 | ug/L   | 99       |
| 36) Methylcyclohexane         | 9.335  | 83   | 287712   | 24.58 | ug/L   | 97       |
| 40) 1,2-Dichloropropane       | 9.366  | 63   | 156112   | 26.38 | ug/L   | 98       |
| 41) Bromodichloromethane      | 9.646  | 83   | 228854   | 27.36 | ug/L   | 99       |
| 42) cis-1,3-Dichloropropene   | 10.073 | 75   | 268163   | 26.79 | ug/L   | 99       |
| 43) 4-Methyl-2-pentanone      | 10.207 | 43   | 222796   | 62.60 | ug/L   | 95       |
| 44) Toluene                   | 10.390 | 91   | 729330   | 26.52 | ug/L   | 92       |
| 45) trans-1,3-Dichloropropene | 10.603 | 75   | 250083   | 27.83 | ug/L   | 96       |
| 46) 1,1,2-Trichloroethane     | 10.786 | 97   | 135434   | 28.70 | ug/L   | 97       |
| 47) Tetrachloroethene         | 10.859 | 164  | 133977   | 26.40 | ug/L   | 93       |
| 49) 2-Hexanone                | 10.969 | 43   | 158914   | 63.10 | ug/L   | 97       |
| 50) Dibromochloromethane      | 11.128 | 129  | 158238   | 28.44 | ug/L   | 88       |
| 51) 1,2-Dibromoethane         | 11.237 | 107  | 133397   | 28.54 | ug/L   | 98       |
| 52) Chlorobenzene             | 11.658 | 112  | 458946   | 26.31 | ug/L   | 94       |
| 53) Ethylbenzene              | 11.731 | 91   | 810991   | 26.15 | ug/L   | 99       |
| 54) m,p-Xylene                | 11.841 | 106  | 305771   | 25.80 | ug/L   | 97       |
| 55) o-xylene                  | 12.164 | 106  | 299022   | 26.47 | ug/L   | 98       |
| 56) Styrene                   | 12.182 | 104  | 516773   | 26.83 | ug/L   | 95       |
| 57) Isopropylbenzene          | 12.463 | 105  | 822685   | 26.78 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 175343   | 30.70 | ug/L   | 92       |
| 59) 1,2,3-Trichloropropane    | 12.768 | 75   | 134293   | 31.14 | ug/L   | 100      |
| 62) Bromoform                 | 12.347 | 173  | 93057    | 28.74 | ug/L # | 98       |
| 63) 1,3-Dichlorobenzene       | 13.493 | 146  | 343680   | 25.43 | ug/L   | 97       |
| 64) 1,4-Dichlorobenzene       | 13.579 | 146  | 356649   | 26.16 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene       | 13.865 | 146  | 335675   | 27.79 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropr... | 14.481 | 75   | 32730    | 29.99 | ug/L   | 86       |
| 67) 1,3,5-Trichlorobenzene    | 14.627 | 180  | 260477   | 26.73 | ug/L   | 95       |
| 68) 1,2,4-trichlorobenzene    | 15.127 | 180  | 228928   | 27.61 | ug/L   | 95       |
| 69) Naphthalene               | 15.365 | 128  | 509689   | 29.52 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene    | 15.554 | 180  | 203654   | 28.15 | ug/L   | 99       |

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

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