

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW060724\  
 Data File : VW036002.D  
 Acq On : 07 Jun 2024 11:06  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD025299

Quant Time: Jun 08 00:24:09 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 07 02:16:44 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/11/2024  
 Supervised By :Semsettin Yesilyurt 06/11/2024

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 417827   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.780  | 117   | 409045   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181 | 152   | 205079   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 152123   | 19.803   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 79.200%  |
| 7) Chloroethane-d5            | 1.529  | 69    | 124969   | 20.403   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 81.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.050  | 65    | 67080    | 19.616   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 78.480%  |
| 21) 2-Butanone-d5             | 3.844  | 46    | 76610m   | 43.467   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 86.940%  |
| 24) Chloroform-d              | 4.240  | 84    | 269485   | 20.287   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 81.160%  |
| 26) 1,2-Dichloroethane-d4     | 4.937  | 65    | 136124   | 19.545   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 78.160%  |
| 32) Benzene-d6                | 4.953  | 84    | 524434   | 21.569   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 86.280%  |
| 36) 1,2-Dichloropropane-d6    | 5.982  | 67    | 160762   | 20.996   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 84.000%  |
| 41) Toluene-d8                | 7.236  | 98    | 464630   | 21.657   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 86.640%  |
| 43) trans-1,3-Dichloroprop... | 7.551  | 79    | 64710    | 20.611   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 82.440%  |
| 47) 2-Hexanone-d5             | 8.030  | 63    | 47927    | 46.199   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 92.400%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 113123   | 19.771   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 79.080%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152   | 156976   | 20.873   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 83.480%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105  | 85    | 144191   | 19.139   | ug/L   | 99       |
| 3) Chloromethane              | 1.211  | 50    | 186164   | 21.532   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.278  | 62    | 197024   | 21.646   | ug/L   | 98       |
| 6) Bromomethane               | 1.484  | 94    | 117594   | 20.825   | ug/L   | 99       |
| 8) Chloroethane               | 1.545  | 64    | 121658   | 21.503   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.709  | 101   | 240833   | 21.306   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.060  | 101   | 150636   | 20.998   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.063  | 96    | 144024   | 21.526   | ug/L   | 96       |
| 13) Acetone                   | 2.150  | 43    | 131112m  | 47.757   | ug/L   |          |
| 14) Carbon disulfide          | 2.233  | 76    | 479934   | 20.656   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.384  | 43    | 70172    | 20.563   | ug/L   | 98       |
| 16) Methylene chloride        | 2.439  | 84    | 173538   | 18.355   | ug/L   | 100      |
| 17) trans-1,2-Dichloroethene  | 2.687  | 96    | 150372   | 21.157   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 2.703  | 73    | 334738   | 20.979   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.105  | 63    | 293954   | 21.718   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.809  | 96    | 151565   | 21.222   | ug/L   | 96       |
| 22) 2-Butanone                | 3.915  | 43    | 110592m  | 47.474   | ug/L   |          |
| 23) Bromochloromethane        | 4.140  | 128   | 72681    | 20.289   | ug/L   | 94       |
| 25) Chloroform                | 4.269  | 83    | 292018   | 20.973   | ug/L   | 98       |

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 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 07 02:16:44 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.034  | 62   | 177205   | 20.386 | ug/L  | 99       |
| 29) Cyclohexane               | 4.574  | 56   | 223089   | 22.906 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.503  | 97   | 247126   | 22.099 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.725  | 117  | 216581   | 22.077 | ug/L  | 99       |
| 33) Benzene                   | 5.002  | 78   | 609917   | 22.798 | ug/L  | 100      |
| 34) Trichloroethene           | 5.825  | 95   | 182536   | 22.262 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.043  | 83   | 250252   | 22.070 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.088  | 63   | 161647   | 23.011 | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.426  | 83   | 200737   | 21.590 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 227187   | 21.623 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 179933   | 47.145 | ug/L  | 99       |
| 42) Toluene                   | 7.310  | 91   | 638298   | 23.350 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.577  | 75   | 203034   | 22.372 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.764  | 97   | 122240   | 21.031 | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.902  | 164  | 126310   | 21.063 | ug/L  | 99       |
| 48) 2-Hexanone                | 8.079  | 43   | 144159   | 48.315 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.172  | 129  | 134298   | 21.112 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.278  | 107  | 117806   | 21.123 | ug/L  | 100      |
| 51) Chlorobenzene             | 8.809  | 112  | 397741   | 21.354 | ug/L  | 99       |
| 52) Ethylbenzene              | 8.944  | 91   | 666001   | 22.771 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.069  | 106  | 251600   | 22.894 | ug/L  | 98       |
| 54) o-Xylene                  | 9.474  | 106  | 231860   | 22.373 | ug/L  | 99       |
| 55) Styrene                   | 9.493  | 104  | 423884   | 23.194 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 109137   | 20.970 | ug/L  | 99       |
| 59) Bromoform                 | 9.664  | 173  | 86899    | 22.469 | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.863  | 105  | 643381   | 24.453 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 112161   | 23.125 | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 441682   | 23.151 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.847 | 105  | 484253   | 23.558 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 307022   | 22.220 | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.204 | 146  | 313218   | 21.962 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 282438   | 21.722 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.361 | 75   | 25669    | 23.667 | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 214450   | 20.749 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 171744   | 21.104 | ug/L  | 100      |
| 71) Naphthalene               | 13.435 | 128  | 293741   | 22.118 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.677 | 180  | 163017   | 21.952 | ug/L  | 98       |

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

