

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV070824\  
 Data File : VV036471.D  
 Acq On : 08 Jul 2024 17:10  
 Operator : SY/MD  
 Sample : VSTDCCC025EC  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD025320

Quant Time: Jul 09 00:58:29 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM062724SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 09 00:54:05 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 285107   | 25.000   | ug/L        | 0.00     |
| 28) Chlorobenzene-d5          | 8.783  | 117   | 298828   | 25.000   | ug/L        | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181 | 152   | 177591   | 25.000   | ug/L        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 4) Vinyl Chloride-d3          | 1.272  | 65    | 151174   | 31.221   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | = 124.880%  |          |
| 7) Chloroethane-d5            | 1.523  | 69    | 128057   | 33.111   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | = 132.440%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.047  | 65    | 67366    | 29.595   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | = 118.400%# |          |
| 21) 2-Butanone-d5             | 3.809  | 46    | 43652    | 38.844   | ug/L        | -0.03    |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | = 77.680%   |          |
| 24) Chloroform-d              | 4.240  | 84    | 251550   | 29.891   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | = 119.560%  |          |
| 26) 1,2-Dichloroethane-d4     | 4.934  | 65    | 124934   | 27.837   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | = 111.360%  |          |
| 32) Benzene-d6                | 4.950  | 84    | 479541   | 28.428   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | = 113.720%  |          |
| 36) 1,2-Dichloropropane-d6    | 5.982  | 67    | 132120   | 26.039   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | = 104.160%  |          |
| 41) Toluene-d8                | 7.236  | 98    | 460185   | 30.256   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | = 121.040%  |          |
| 43) trans-1,3-Dichloroprop... | 7.548  | 79    | 58346    | 25.750   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | = 103.000%  |          |
| 47) 2-Hexanone-d5             | 8.027  | 63    | 31688    | 39.124   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | = 78.240%   |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 103501   | 24.885   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | = 99.520%   |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152   | 156678   | 24.210   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | = 96.840%   |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 2) Dichlorodifluoromethane    | 1.101  | 85    | 119060   | 21.979   | ug/L        | 99       |
| 3) Chloromethane              | 1.211  | 50    | 88208    | 17.989   | ug/L        | 99       |
| 5) Vinyl chloride             | 1.275  | 62    | 119377   | 21.083   | ug/L        | 100      |
| 6) Bromomethane               | 1.481  | 94    | 85766    | 22.522   | ug/L        | 99       |
| 8) Chloroethane               | 1.542  | 64    | 86302    | 24.730   | ug/L        | 99       |
| 9) Trichlorofluoromethane     | 1.703  | 101   | 213340   | 26.382   | ug/L        | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.056  | 101   | 141577   | 27.912   | ug/L        | 95       |
| 12) 1,1-Dichloroethene        | 2.056  | 96    | 114156   | 25.420   | ug/L        | 84       |
| 13) Acetone                   | 2.130  | 43    | 46596    | 30.691   | ug/L #      | 59       |
| 14) Carbon disulfide          | 2.230  | 76    | 238467   | 16.830   | ug/L        | 100      |
| 15) Methyl Acetate            | 2.378  | 43    | 40297    | 20.626   | ug/L        | 97       |
| 16) Methylene chloride        | 2.436  | 84    | 135224   | 24.092   | ug/L        | 93       |
| 17) trans-1,2-Dichloroethene  | 2.683  | 96    | 102708   | 23.035   | ug/L        | 93       |
| 18) Methyl tert-butyl Ether   | 2.699  | 73    | 239254   | 23.051   | ug/L        | 98       |
| 19) 1,1-Dichloroethane        | 3.101  | 63    | 196035   | 24.727   | ug/L        | 98       |
| 20) cis-1,2-Dichloroethene    | 3.805  | 96    | 110868   | 24.722   | ug/L        | 94       |
| 22) 2-Butanone                | 3.886  | 43    | 45227    | 35.329   | ug/L #      | 50       |
| 23) Bromochloromethane        | 4.140  | 128   | 61905    | 26.473   | ug/L #      | 89       |
| 25) Chloroform                | 4.265  | 83    | 235927   | 27.901   | ug/L        | 98       |

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 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 09 00:54:05 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.034  | 62   | 138258   | 25.251 | ug/L   | 98       |
| 29) Cyclohexane               | 4.571  | 56   | 110064   | 17.288 | ug/L   | 91       |
| 30) 1,1,1-Trichloroethane     | 4.503  | 97   | 199795   | 26.965 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 4.722  | 117  | 180149   | 27.288 | ug/L   | 100      |
| 33) Benzene                   | 5.002  | 78   | 430569   | 24.327 | ug/L   | 100      |
| 34) Trichloroethene           | 5.825  | 95   | 134224   | 24.032 | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.043  | 83   | 155336   | 19.957 | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.085  | 63   | 110250   | 24.390 | ug/L # | 96       |
| 38) Bromodichloromethane      | 6.426  | 83   | 161770   | 26.166 | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 160945   | 23.155 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.156  | 43   | 102053   | 40.031 | ug/L   | 98       |
| 42) Toluene                   | 7.310  | 91   | 479109   | 25.889 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 7.577  | 75   | 148195   | 23.704 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 7.764  | 97   | 103237   | 25.839 | ug/L   | 98       |
| 46) Tetrachloroethene         | 7.902  | 164  | 107652   | 26.521 | ug/L   | 95       |
| 48) 2-Hexanone                | 8.075  | 43   | 69294    | 34.556 | ug/L # | 93       |
| 49) Dibromochloromethane      | 8.172  | 129  | 122261   | 27.450 | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 8.278  | 107  | 98992    | 25.150 | ug/L   | 98       |
| 51) Chlorobenzene             | 8.812  | 112  | 319519   | 25.257 | ug/L   | 96       |
| 52) Ethylbenzene              | 8.944  | 91   | 499153   | 24.993 | ug/L   | 99       |
| 53) m,p-Xylene                | 9.069  | 106  | 199155   | 26.756 | ug/L   | 95       |
| 54) o-Xylene                  | 9.477  | 106  | 182849   | 26.122 | ug/L   | 92       |
| 55) Styrene                   | 9.493  | 104  | 346772   | 28.267 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 88528    | 24.757 | ug/L   | 99       |
| 59) Bromoform                 | 9.661  | 173  | 82825    | 24.638 | ug/L   | 99       |
| 60) Isopropylbenzene          | 9.863  | 105  | 513515   | 23.921 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 83539    | 20.844 | ug/L   | 95       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 349649   | 22.759 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 388040   | 23.243 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 265863   | 23.767 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 275537   | 22.979 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 248941   | 23.311 | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 18162    | 20.199 | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 185600   | 22.035 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 137296   | 20.440 | ug/L   | 99       |
| 71) Naphthalene               | 13.439 | 128  | 205283   | 17.141 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.676 | 180  | 130830   | 20.713 | ug/L   | 99       |

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

