

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV052524\  
 Data File : VV035782.D  
 Acq On : 25 May 2024 09:10  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD025378

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/28/2024  
 Supervised By :Mahesh Dadoda 05/28/2024

Quant Time: May 27 01:24:35 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050624SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat May 25 02:41:55 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 540396   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.780  | 117   | 544358   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181 | 152   | 302798   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.272  | 65    | 217471   | 26.037   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 104.160% |
| 7) Chloroethane-d5            | 1.526  | 69    | 168576   | 25.018   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 100.080% |
| 11) 1,1-Dichloroethene-d2     | 2.050  | 65    | 92254    | 24.949   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 99.800%  |
| 21) 2-Butanone-d5             | 3.847  | 46    | 96152m   | 40.564   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 81.120%  |
| 24) Chloroform-d              | 4.240  | 84    | 374935   | 23.338   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 93.360%  |
| 26) 1,2-Dichloroethane-d4     | 4.934  | 65    | 193099   | 24.313   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 97.240%  |
| 32) Benzene-d6                | 4.950  | 84    | 730661   | 24.520   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 98.080%  |
| 36) 1,2-Dichloropropane-d6    | 5.982  | 67    | 218785   | 23.792   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 95.160%  |
| 41) Toluene-d8                | 7.236  | 98    | 678580   | 25.587   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 102.360% |
| 43) trans-1,3-Dichloroprop... | 7.548  | 79    | 96377    | 24.506   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 98.040%  |
| 47) 2-Hexanone-d5             | 8.030  | 63    | 66393    | 40.151   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 80.300%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 185662   | 20.952   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 83.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152   | 241366   | 22.969   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 91.880%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.101  | 85    | 228009   | 20.753   | ug/L   | 99       |
| 3) Chloromethane              | 1.211  | 50    | 209405   | 18.984   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.278  | 62    | 242675   | 21.295   | ug/L   | 99       |
| 6) Bromomethane               | 1.484  | 94    | 149006   | 20.650   | ug/L   | 99       |
| 8) Chloroethane               | 1.542  | 64    | 158615   | 22.579   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.706  | 101   | 357084   | 24.006   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.060  | 101   | 239460   | 25.515   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.060  | 96    | 197561   | 23.305   | ug/L # | 82       |
| 13) Acetone                   | 2.162  | 43    | 145909m  | 42.051   | ug/L   |          |
| 14) Carbon disulfide          | 2.230  | 76    | 483424   | 18.005   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.384  | 43    | 109790   | 20.884   | ug/L   | 91       |
| 16) Methylene chloride        | 2.439  | 84    | 254691   | 20.438   | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 2.687  | 96    | 214171   | 22.758   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 2.699  | 73    | 585189   | 25.778   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.101  | 63    | 446421   | 25.303   | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 3.805  | 96    | 237845   | 23.314   | ug/L   | 100      |
| 22) 2-Butanone                | 3.908  | 43    | 154622m  | 47.985   | ug/L   |          |
| 23) Bromochloromethane        | 4.140  | 128   | 120808   | 24.483   | ug/L   | 97       |
| 25) Chloroform                | 4.265  | 83    | 475981   | 26.127   | ug/L   | 98       |

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 Quant Title : VOC Analysis  
 QLast Update : Sat May 25 02:41:55 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.034  | 62   | 295249   | 26.025 | ug/L  | 100      |
| 29) Cyclohexane               | 4.574  | 56   | 296362   | 22.766 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.503  | 97   | 400280   | 26.520 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.725  | 117  | 346748   | 26.183 | ug/L  | 98       |
| 33) Benzene                   | 5.002  | 78   | 919736   | 25.529 | ug/L  | 100      |
| 34) Trichloroethene           | 5.825  | 95   | 270187   | 26.512 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.043  | 83   | 366644   | 23.697 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.088  | 63   | 258373   | 27.488 | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.426  | 83   | 343828   | 27.002 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 377568   | 25.682 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 320343   | 56.905 | ug/L  | 97       |
| 42) Toluene                   | 7.310  | 91   | 1000992  | 26.254 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.577  | 75   | 349391   | 27.167 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.764  | 97   | 222995   | 27.921 | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.899  | 164  | 199709   | 24.121 | ug/L  | 98       |
| 48) 2-Hexanone                | 8.075  | 43   | 229257   | 54.316 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.172  | 129  | 247107   | 27.420 | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.278  | 107  | 212692   | 27.032 | ug/L  | 99       |
| 51) Chlorobenzene             | 8.808  | 112  | 668230   | 25.259 | ug/L  | 99       |
| 52) Ethylbenzene              | 8.944  | 91   | 1110040  | 26.369 | ug/L  | 99       |
| 53) m,p-Xylene                | 9.069  | 106  | 423141   | 26.494 | ug/L  | 99       |
| 54) o-Xylene                  | 9.474  | 106  | 405002   | 26.756 | ug/L  | 99       |
| 55) Styrene                   | 9.490  | 104  | 748835   | 28.363 | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 235449   | 24.201 | ug/L  | 99       |
| 59) Bromoform                 | 9.661  | 173  | 168461   | 28.310 | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.863  | 105  | 1141281  | 28.295 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 206031   | 29.037 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 916622   | 28.969 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.847 | 105  | 918803   | 28.257 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 569731   | 26.915 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.204 | 146  | 589941   | 26.921 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.574 | 146  | 538959   | 27.049 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.361 | 75   | 46095    | 28.011 | ug/L  | 94       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 432937   | 26.173 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 351770   | 25.468 | ug/L  | 100      |
| 71) Naphthalene               | 13.435 | 128  | 582499   | 24.022 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.676 | 180  | 326254   | 26.257 | ug/L  | 99       |

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

