

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW052124\  
 Data File : VW035634.D  
 Acq On : 21 May 2024 08:24  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD025367

Quant Time: May 22 02:10:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050624SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue May 21 02:11:46 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/24/2024  
 Supervised By :Semsettin Yesilyurt 05/24/2024

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 405833   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.780  | 117   | 419038   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.182 | 152   | 239727   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 146775   | 23.399   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 93.600%  |
| 7) Chloroethane-d5            | 1.529  | 69    | 126053   | 24.910   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 99.640%  |
| 11) 1,1-Dichloroethene-d2     | 2.053  | 65    | 68448    | 24.648   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 98.600%  |
| 21) 2-Butanone-d5             | 3.838  | 46    | 85150    | 47.834   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 95.660%  |
| 24) Chloroform-d              | 4.240  | 84    | 323535   | 26.816   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 107.280% |
| 26) 1,2-Dichloroethane-d4     | 4.937  | 65    | 153163   | 25.679   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 102.720% |
| 32) Benzene-d6                | 4.954  | 84    | 577682   | 25.184   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 100.720% |
| 36) 1,2-Dichloropropane-d6    | 5.982  | 67    | 184258   | 26.030   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 104.120% |
| 41) Toluene-d8                | 7.240  | 98    | 520155   | 25.479   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 101.920% |
| 43) trans-1,3-Dichloroprop... | 7.551  | 79    | 73568    | 24.300   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 97.200%  |
| 47) 2-Hexanone-d5             | 8.027  | 63    | 62303    | 48.946   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 97.900%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 164536   | 24.121   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 96.480%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152   | 203421   | 24.451   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 97.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105  | 85    | 209901   | 25.440   | ug/L   | 99       |
| 3) Chloromethane              | 1.211  | 50    | 197644   | 23.859   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.278  | 62    | 222414   | 25.988   | ug/L   | 100      |
| 6) Bromomethane               | 1.484  | 94    | 133817   | 24.694   | ug/L   | 99       |
| 8) Chloroethane               | 1.545  | 64    | 140758   | 26.680   | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 1.709  | 101   | 308911   | 27.653   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.063  | 101   | 203369   | 28.854   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.063  | 96    | 172030   | 27.022   | ug/L   | 94       |
| 13) Acetone                   | 2.150  | 43    | 111327m  | 42.722   | ug/L   |          |
| 14) Carbon disulfide          | 2.233  | 76    | 455898   | 22.609   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.384  | 43    | 80565    | 20.407   | ug/L   | 92       |
| 16) Methylene chloride        | 2.439  | 84    | 203610   | 21.757   | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 2.687  | 96    | 186054   | 26.325   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.700  | 73    | 450823   | 26.444   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.105  | 63    | 374931   | 28.298   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.809  | 96    | 202203   | 26.392   | ug/L   | 97       |
| 22) 2-Butanone                | 3.909  | 43    | 107232m  | 44.312   | ug/L   |          |
| 23) Bromochloromethane        | 4.140  | 128   | 96250    | 25.974   | ug/L   | 97       |
| 25) Chloroform                | 4.269  | 83    | 385420   | 28.170   | ug/L   | 99       |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.037  | 62   | 231273   | 27.146 | ug/L  | 99       |
| 29) Cyclohexane               | 4.574  | 56   | 270624   | 27.007 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 4.503  | 97   | 334867   | 28.821 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.725  | 117  | 291972   | 28.640 | ug/L  | 100      |
| 33) Benzene                   | 5.002  | 78   | 775761   | 27.972 | ug/L  | 100      |
| 34) Trichloroethene           | 5.828  | 95   | 226512   | 28.874 | ug/L  | 100      |
| 35) Methylcyclohexane         | 6.043  | 83   | 320198   | 26.885 | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.085  | 63   | 204381   | 28.246 | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.426  | 83   | 274851   | 28.040 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 308480   | 27.258 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 217715   | 50.241 | ug/L  | 96       |
| 42) Toluene                   | 7.310  | 91   | 835219   | 28.458 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.577  | 75   | 266330   | 26.902 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.764  | 97   | 165219   | 26.874 | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.899  | 164  | 172279   | 27.031 | ug/L  | 99       |
| 48) 2-Hexanone                | 8.079  | 43   | 154217   | 47.464 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.172  | 129  | 187171   | 26.981 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.278  | 107  | 155283   | 25.638 | ug/L  | 100      |
| 51) Chlorobenzene             | 8.809  | 112  | 552176   | 27.114 | ug/L  | 100      |
| 52) Ethylbenzene              | 8.944  | 91   | 924357   | 28.525 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.069  | 106  | 354163   | 28.807 | ug/L  | 100      |
| 54) o-Xylene                  | 9.474  | 106  | 333400   | 28.613 | ug/L  | 99       |
| 55) Styrene                   | 9.490  | 104  | 604843   | 29.761 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 169434   | 22.624 | ug/L  | 99       |
| 59) Bromoform                 | 9.661  | 173  | 119458   | 25.356 | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.863  | 105  | 948486   | 29.702 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 144083   | 25.649 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.471 | 105  | 750757   | 29.969 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.847 | 105  | 758105   | 29.449 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 459461   | 27.417 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.204 | 146  | 471343   | 27.168 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.574 | 146  | 428550   | 27.166 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.362 | 75   | 31545    | 24.212 | ug/L  | 93       |
| 69) 1,3,5-Trichlorobenzene    | 12.577 | 180  | 350497   | 26.764 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 279022   | 25.516 | ug/L  | 99       |
| 71) Naphthalene               | 13.435 | 128  | 413182   | 21.523 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.677 | 180  | 247362   | 25.145 | ug/L  | 99       |

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

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