

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW050724\  
 Data File : VW035552.D  
 Acq On : 07 May 2024 16:12  
 Operator : SY/MD  
 Sample : VSTDCCC025EC  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD025354

Quant Time: May 08 02:25:48 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050624SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 08 02:24:43 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.532  | 114   | 418295   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.783  | 117   | 444796   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181 | 152   | 263559   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 127539   | 19.727   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 78.920%  |
| 7) Chloroethane-d5            | 1.529  | 69    | 107868   | 20.681   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 82.720%  |
| 11) 1,1-Dichloroethene-d2     | 2.053  | 65    | 59174    | 20.674   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 82.680%  |
| 21) 2-Butanone-d5             | 3.844  | 46    | 100830m  | 54.955   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 109.900% |
| 24) Chloroform-d              | 4.243  | 84    | 287137   | 23.090   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 92.360%  |
| 26) 1,2-Dichloroethane-d4     | 4.941  | 65    | 146047   | 23.756   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 95.040%  |
| 32) Benzene-d6                | 4.957  | 84    | 520339   | 21.371   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 85.480%  |
| 36) 1,2-Dichloropropane-d6    | 5.985  | 67    | 166519   | 22.161   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 88.640%  |
| 41) Toluene-d8                | 7.239  | 98    | 478476   | 22.080   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 88.320%  |
| 43) trans-1,3-Dichloroprop... | 7.551  | 79    | 73059    | 22.735   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 90.920%  |
| 47) 2-Hexanone-d5             | 8.030  | 63    | 72299    | 53.510   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 107.020% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 184473   | 25.478   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 101.920% |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152   | 198233   | 21.673   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 86.680%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105  | 85    | 196002   | 23.047   | ug/L   | 100      |
| 3) Chloromethane              | 1.211  | 50    | 188600   | 22.089   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.278  | 62    | 202864   | 22.997   | ug/L   | 99       |
| 6) Bromomethane               | 1.484  | 94    | 128835   | 23.067   | ug/L   | 99       |
| 8) Chloroethane               | 1.545  | 64    | 131542   | 24.191   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.709  | 101   | 282946   | 24.574   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.063  | 101   | 183982   | 25.326   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.063  | 96    | 159571   | 24.319   | ug/L   | 96       |
| 13) Acetone                   | 2.156  | 43    | 135019m  | 50.271   | ug/L   |          |
| 14) Carbon disulfide          | 2.233  | 76    | 441720   | 21.253   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.384  | 43    | 91903    | 22.585   | ug/L   | 91       |
| 16) Methylene chloride        | 2.442  | 84    | 297987   | 30.893   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 2.687  | 96    | 179500   | 24.641   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 2.703  | 73    | 506553   | 28.828   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.105  | 63    | 354916   | 25.989   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.809  | 96    | 202143   | 25.598   | ug/L   | 98       |
| 22) 2-Butanone                | 3.912  | 43    | 120752   | 48.412   | ug/L   | # 71     |
| 23) Bromochloromethane        | 4.143  | 128   | 103497   | 27.098   | ug/L   | 97       |
| 25) Chloroform                | 4.269  | 83    | 376853   | 26.724   | ug/L   | 99       |

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 ALS Vial : 9 Sample Multiplier: 1

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 Quant Title : VOC Analysis  
 QLast Update : Wed May 08 02:24:43 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.037  | 62   | 246681   | 28.091 | ug/L  | 99       |
| 29) Cyclohexane               | 4.577  | 56   | 245952   | 23.123 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.506  | 97   | 311293   | 25.241 | ug/L  | 100      |
| 31) Carbon tetrachloride      | 4.728  | 117  | 269645   | 24.919 | ug/L  | 100      |
| 33) Benzene                   | 5.005  | 78   | 757678   | 25.738 | ug/L  | 100      |
| 34) Trichloroethene           | 5.828  | 95   | 206937   | 24.851 | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.047  | 83   | 299215   | 23.668 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.088  | 63   | 206367   | 26.869 | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.429  | 83   | 279165   | 26.831 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 323693   | 26.945 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 261428   | 56.835 | ug/L  | 99       |
| 42) Toluene                   | 7.310  | 91   | 825357   | 26.493 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.577  | 75   | 293200   | 27.901 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 181693   | 27.842 | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.902  | 164  | 165451   | 24.457 | ug/L  | 98       |
| 48) 2-Hexanone                | 8.079  | 43   | 191027   | 55.389 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.175  | 129  | 204077   | 27.714 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 180908   | 28.140 | ug/L  | 99       |
| 51) Chlorobenzene             | 8.812  | 112  | 558539   | 25.838 | ug/L  | 99       |
| 52) Ethylbenzene              | 8.944  | 91   | 901263   | 26.202 | ug/L  | 99       |
| 53) m,p-Xylene                | 9.069  | 106  | 348214   | 26.683 | ug/L  | 99       |
| 54) o-Xylene                  | 9.477  | 106  | 333358   | 26.952 | ug/L  | 100      |
| 55) Styrene                   | 9.493  | 104  | 613113   | 28.421 | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 227471   | 28.615 | ug/L  | 100      |
| 59) Bromoform                 | 9.664  | 173  | 143574   | 27.720 | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.863  | 105  | 915385   | 26.073 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 170393   | 27.590 | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 752389   | 27.319 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 755699   | 26.701 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 473190   | 25.683 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 484272   | 25.389 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 447598   | 25.808 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.361 | 75   | 40434    | 28.229 | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 361667   | 25.120 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.197 | 180  | 306601   | 25.502 | ug/L  | 100      |
| 71) Naphthalene               | 13.435 | 128  | 558955   | 26.483 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.677 | 180  | 290532   | 26.863 | ug/L  | 99       |

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

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