

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV100324\  
 Data File : VV037728.D  
 Acq On : 03 Oct 2024 14:45  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050293

Quant Time: Oct 04 02:28:46 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM092624WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 04 02:26:43 2024  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) 1,4-Difluorobenzene        | 5.526          | 114  | 610924              | 50.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.776          | 117  | 595073              | 50.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.178         | 152  | 330496              | 50.000 | ug/L   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 4) Vinyl Chloride-d3          | 1.278          | 65   | 280911              | 52.380 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = 104.760% |        |        |          |
| 7) Chloroethane-d5            | 1.532          | 69   | 227741              | 54.709 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = 109.420% |        |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.060          | 65   | 120035              | 53.573 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 107.140% |        |        |          |
| 21) 2-Butanone-d5             | 3.790          | 46   | 190193              | 99.568 | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = 99.570%  |        |        |          |
| 24) Chloroform-d              | 4.240          | 84   | 511250              | 53.583 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 107.160% |        |        |          |
| 26) 1,2-Dichloroethane-d4     | 4.934          | 65   | 298243              | 53.403 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 106.800% |        |        |          |
| 32) Benzene-d6                | 4.950          | 84   | 1011695             | 54.331 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 108.660% |        |        |          |
| 36) 1,2-Dichloropropane-d6    | 5.979          | 67   | 309395              | 52.179 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = 104.360% |        |        |          |
| 41) Toluene-d8                | 7.233          | 98   | 929410              | 55.044 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 110.080% |        |        |          |
| 43) trans-1,3-Dichloroprop... | 7.545          | 79   | 144294              | 52.385 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 104.780% |        |        |          |
| 47) 2-Hexanone-d5             | 8.021          | 63   | 119330              | 95.307 | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = 95.310%  |        |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.146         | 84   | 352318              | 51.137 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = 102.280% |        |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.551         | 152  | 350209              | 50.287 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 100.580% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108          | 85   | 269901              | 51.896 | ug/L   | 99       |
| 3) Chloromethane              | 1.217          | 50   | 268055              | 53.089 | ug/L   | 99       |
| 5) Vinyl chloride             | 1.285          | 62   | 282187              | 52.130 | ug/L   | 99       |
| 6) Bromomethane               | 1.487          | 94   | 159986              | 53.257 | ug/L   | 99       |
| 8) Chloroethane               | 1.548          | 64   | 174380              | 52.266 | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.712          | 101  | 394290              | 54.113 | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069          | 101  | 235264              | 54.033 | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.069          | 96   | 218338              | 53.682 | ug/L   | 87       |
| 13) Acetone                   | 2.111          | 43   | 158926              | 84.871 | ug/L   | 100      |
| 14) Carbon disulfide          | 2.240          | 76   | 623305              | 49.096 | ug/L   | 100      |
| 15) Methyl Acetate            | 2.368          | 43   | 172178              | 52.688 | ug/L   | 98       |
| 16) Methylene chloride        | 2.442          | 84   | 242508              | 52.660 | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.690          | 96   | 226556              | 52.654 | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.703          | 73   | 662688              | 53.682 | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.105          | 63   | 440709              | 53.459 | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 3.806          | 96   | 254951              | 52.949 | ug/L   | 98       |
| 22) 2-Butanone                | 3.870          | 43   | 193645              | 93.430 | ug/L   | 95       |
| 23) Bromochloromethane        | 4.137          | 128  | 132502              | 53.199 | ug/L   | 99       |
| 25) Chloroform                | 4.265          | 83   | 458927              | 53.767 | ug/L   | 99       |

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 Quant Title : VOC Analysis  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.034  | 62   | 330940   | 54.922  | ug/L  | 100      |
| 29) Cyclohexane               | 4.571  | 56   | 350771   | 51.916  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.500  | 97   | 385583   | 52.610  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.725  | 117  | 340701   | 53.468  | ug/L  | 100      |
| 33) Benzene                   | 4.998  | 78   | 960899   | 53.542  | ug/L  | 100      |
| 34) Trichloroethene           | 5.825  | 95   | 250294   | 52.369  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.040  | 83   | 384483   | 52.293  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.085  | 63   | 252022   | 54.381  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.426  | 83   | 331593   | 53.525  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 6.947  | 75   | 392936   | 53.116  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone      | 7.153  | 43   | 399067   | 105.760 | ug/L  | 99       |
| 42) Toluene                   | 7.307  | 91   | 1027992  | 55.253  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.574  | 75   | 353375   | 53.058  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 7.760  | 97   | 237934   | 53.469  | ug/L  | 100      |
| 46) Tetrachloroethene         | 7.896  | 164  | 191671   | 52.452  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.072  | 43   | 284880   | 97.094  | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.169  | 129  | 253555   | 53.837  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.275  | 107  | 239280   | 52.019  | ug/L  | 100      |
| 51) Chlorobenzene             | 8.805  | 112  | 664272   | 52.405  | ug/L  | 99       |
| 52) Ethylbenzene              | 8.937  | 91   | 1135059  | 54.198  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.066  | 106  | 438917   | 56.312  | ug/L  | 98       |
| 54) o-Xylene                  | 9.471  | 106  | 415212   | 54.565  | ug/L  | 99       |
| 55) Styrene                   | 9.487  | 104  | 747460   | 56.425  | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.169 | 83   | 324367   | 52.282  | ug/L  | 100      |
| 59) Bromoform                 | 9.657  | 173  | 166253   | 51.469  | ug/L  | 96       |
| 60) Isopropylbenzene          | 9.860  | 105  | 1137032  | 52.918  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.201 | 75   | 235525   | 50.082  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 10.468 | 105  | 908755   | 53.495  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.844 | 105  | 899530   | 53.220  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.111 | 146  | 538879   | 52.104  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.201 | 146  | 561358   | 52.126  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 11.571 | 146  | 528927   | 51.734  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.358 | 75   | 53625    | 46.974  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.574 | 180  | 355916   | 50.043  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.191 | 180  | 322125   | 48.816  | ug/L  | 99       |
| 71) Naphthalene               | 13.432 | 128  | 778905   | 45.179  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.673 | 180  | 315348   | 48.393  | ug/L  | 99       |

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

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