

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV083021\  
 Data File : VV021991.D  
 Acq On : 30 Aug 2021 09:39  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050320

Manual Integrations  
 APPROVED

MMDadoda  
 8/31/2021 10:01:20 AM

Quant Time: Aug 31 02:25:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082721WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 28 02:34:14 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.612   | 114   | 389204   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.854   | 117   | 370196   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249  | 152   | 208368   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 129823   | 48.167   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 96.340%  |
| 7) Chloroethane-d5            | 1.561   | 69    | 105252   | 50.005   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 100.020% |
| 11) 1,1-Dichloroethene-d2     | 2.105   | 63    | 227045   | 50.935   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 101.880% |
| 21) 2-Butanone-d5             | 3.870   | 46    | 184225   | 99.663   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 99.660%  |
| 24) Chloroform-d              | 4.346   | 84    | 249580   | 50.784   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.560% |
| 26) 1,2-Dichloroethane-d4     | 5.027   | 65    | 150183   | 51.881   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 103.760% |
| 32) Benzene-d6                | 5.047   | 84    | 512170   | 51.008   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.020% |
| 36) 1,2-Dichloropropane-d6    | 6.066   | 67    | 157500   | 49.877   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 99.760%  |
| 41) Toluene-d8                | 7.313   | 98    | 484196   | 51.084   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 102.160% |
| 43) trans-1,3-Dichloroprop... | 7.622   | 79    | 78934    | 52.519   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 105.040% |
| 47) 2-Hexanone-d5             | 8.085   | 63    | 125792   | 103.821  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 103.820% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217  | 84    | 213140   | 52.703   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 105.400% |
| 66) 1,2-Dichlorobenzene-d4    | 11.625  | 152   | 198673   | 48.501   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.000%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85    | 137823   | 51.516   | ug/L   | 99       |
| 3) Chloromethane              | 1.240   | 50    | 137870   | 48.668   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.310   | 62    | 141549   | 49.574   | ug/L   | 99       |
| 6) Bromomethane               | 1.513   | 94    | 86998    | 50.678   | ug/L   | 98       |
| 8) Chloroethane               | 1.580   | 64    | 88635    | 49.622   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.748   | 101   | 214016   | 52.634   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114   | 101   | 124202   | 52.078   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.114   | 96    | 113270   | 50.455   | ug/L   | 93       |
| 13) Acetone                   | 2.156   | 43    | 215368m  | 139.056  | ug/L   |          |
| 14) Carbon disulfide          | 2.291   | 76    | 349230   | 51.554   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.423   | 43    | 149610   | 49.603   | ug/L   | 99       |
| 16) Methylene chloride        | 2.503   | 84    | 149515   | 49.708   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.757   | 96    | 136394   | 50.248   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.764   | 73    | 425520   | 49.331   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.185   | 63    | 243126   | 50.289   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.908   | 96    | 150219   | 49.722   | ug/L   | 98       |
| 22) 2-Butanone                | 3.950   | 43    | 255122   | 117.187  | ug/L   | 95       |
| 23) Bromochloromethane        | 4.246   | 128   | 79035    | 49.123   | ug/L   | 99       |
| 25) Chloroform                | 4.371   | 83    | 256608   | 50.141   | ug/L   | 98       |

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 ALS Vial : 2 Sample Multiplier: 1

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 ClientSampleId :  
 VSTD050320

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MMDadoda  
 8/31/2021 10:01:20 AM

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 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 28 02:34:14 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.127  | 62   | 175368   | 51.119  | ug/L  | 98       |
| 29) Cyclohexane               | 4.674  | 56   | 206107   | 49.805  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.603  | 97   | 226641   | 51.512  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 4.825  | 117  | 196083   | 51.873  | ug/L  | 100      |
| 33) Benzene                   | 5.095  | 78   | 542737   | 50.391  | ug/L  | 100      |
| 34) Trichloroethene           | 5.912  | 95   | 150019   | 49.173  | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.130  | 83   | 225289   | 50.513  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.172  | 63   | 140094   | 50.178  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.506  | 83   | 183931   | 51.515  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.024  | 75   | 226136   | 52.461  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.223  | 43   | 373385   | 98.648  | ug/L  | 100      |
| 42) Toluene                   | 7.387  | 91   | 588774   | 50.649  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.648  | 75   | 210627   | 52.502  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.837  | 97   | 141468   | 49.799  | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.976  | 164  | 119678   | 50.449  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.136  | 43   | 325148   | 110.716 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.246  | 129  | 157674   | 51.853  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.352  | 107  | 153202   | 50.250  | ug/L  | 100      |
| 51) Chlorobenzene             | 8.882  | 112  | 388573   | 49.717  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.011  | 91   | 636832   | 50.607  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.136  | 106  | 247407   | 50.583  | ug/L  | 99       |
| 54) o-Xylene                  | 9.545  | 106  | 241846   | 49.974  | ug/L  | 97       |
| 55) Styrene                   | 9.561  | 104  | 422910   | 51.206  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.243 | 83   | 212620   | 51.658  | ug/L  | 98       |
| 59) Bromoform                 | 9.731  | 173  | 115658   | 52.261  | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.931  | 105  | 646637   | 49.389  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.275 | 75   | 170980   | 47.346  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 10.542 | 105  | 543022   | 49.402  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.915 | 105  | 558032   | 49.947  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.181 | 146  | 325028   | 48.894  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.275 | 146  | 329880   | 48.495  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 11.644 | 146  | 319647   | 48.427  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.429 | 75   | 42314    | 48.617  | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 12.648 | 180  | 243100   | 48.906  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.262 | 180  | 213317   | 48.784  | ug/L  | 99       |
| 71) Naphthalene               | 13.503 | 128  | 606236   | 48.197  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.747 | 180  | 207993   | 48.768  | ug/L  | 100      |

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

