

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU121418\  
 Data File : VU028666.D  
 Acq On : 13 Dec 2018 09:08  
 Operator : MD/SY  
 Sample : VSTDCCC010  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC010

Quant Time: Dec 14 05:40:29 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U112618DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Nov 27 01:03:50 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 i   | Fluorobenzene               | 1.000   | 1.000   | 0.0    | 32    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 10.000  | 10.550  | -5.5   | 34    | 0.00     |
| 3 t   | Chloromethane               | 10.000  | 9.517   | 4.8    | 32    | 0.00     |
| 4 Rt  | Vinyl Chloride              | 10.000  | 10.827  | -8.3   | 34    | 0.00     |
| 5 T   | Bromomethane                | 10.000  | 10.524  | -5.2   | 38    | -0.02    |
| 6 T   | Chloroethane                | 10.000  | 10.519  | -5.2   | 35    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 10.000  | 10.802  | -8.0   | 35    | 0.00     |
| 8     | 1,1,2-Trichloro-1,2,2-trifl | 10.000  | 11.057  | -10.6  | 35    | 0.00     |
| 9 Rt  | 1,1-Dichloroethene          | 10.000  | 10.603  | -6.0   | 35    | 0.00     |
| 10 t  | Iodomethane                 | 10.000  | 17.476  | -74.8# | 51    | 0.00     |
| 11 t  | Allyl Chloride              | 10.000  | 10.642  | -6.4   | 34    | 0.00     |
| 12 t  | Acrylonitrile               | 20.000  | 21.243  | -6.2   | 36    | 0.00     |
| 13 T  | Acetone                     | 50.000  | 50.920  | -1.8   | 36    | -0.01    |
| 14 T  | Carbon Disulfide            | 10.000  | 10.480  | -4.8   | 34    | 0.00     |
| 15 RT | Methylene Chloride          | 10.000  | 10.843  | -8.4   | 36    | 0.00     |
| 16 RT | trans-1,2-Dichloroethene    | 10.000  | 10.763  | -7.6   | 35    | 0.00     |
| 17 t  | 1,1-Dichloroethane          | 10.000  | 10.743  | -7.4   | 35    | 0.00     |
| 18 T  | 2-Butanone                  | 50.000  | 55.923  | -11.8  | 34    | 0.00     |
| 19    | Cyclohexane                 | 10.000  | 10.502  | -5.0   | 33    | 0.00     |
| 20    | Methylcyclohexane           | 10.000  | 9.889   | 1.1    | 30    | 0.00     |
| 21 T  | 2,2-Dichloropropane         | 10.000  | 10.890  | -8.9   | 35    | 0.00     |
| 22 RT | cis-1,2-Dichloroethene      | 10.000  | 10.471  | -4.7   | 32    | 0.00     |
| 23 t  | Diethyl Ether               | 10.000  | 10.558  | -5.6   | 34    | 0.00     |
| 24 t  | tert-Butyl Alcohol          | 100.000 | 106.309 | -6.3   | 33    | -0.03    |
| 25 t  | Methyl tert-Butyl Ether     | 10.000  | 10.758  | -7.6   | 34    | 0.00     |
| 26 t  | Bromochloromethane          | 10.000  | 10.275  | -2.8   | 32    | 0.00     |
| 27 t  | Chloroform                  | 10.000  | 9.799   | 2.0    | 33    | 0.00     |
| 28 RT | 1,1,1-Trichloroethane       | 10.000  | 10.371  | -3.7   | 33    | 0.00     |
| 29 T  | 1,1-Dichloropropene         | 10.000  | 10.237  | -2.4   | 32    | 0.00     |
| 30 RT | Carbon Tetrachloride        | 10.000  | 10.334  | -3.3   | 34    | 0.00     |
| 31 t  | Isopropyl Ether             | 10.000  | 10.827  | -8.3   | 34    | 0.00     |
| 32    | Ethyl-t-butyl ether         | 10.000  | 10.727  | -7.3   | 34    | 0.00     |
| 33    | Tert-Amyl methyl ether      | 10.000  | 10.189  | -1.9   | 32    | 0.00     |
| 34 t  | Propionitrile               | 50.000  | 57.784  | -15.6  | 35    | -0.01    |
| 35 RT | Benzene                     | 10.000  | 9.791   | 2.1    | 31    | 0.00     |
| 36 RT | 1,2-Dichloroethane          | 10.000  | 10.287  | -2.9   | 33    | 0.00     |
| 37 RT | Trichloroethene             | 10.000  | 10.052  | -0.5   | 32    | 0.00     |
| 38 Rt | 1,2-Dichloropropane         | 10.000  | 10.160  | -1.6   | 32    | 0.00     |
| 39 t  | Methacrylonitrile           | 10.000  | 10.875  | -8.8   | 35    | 0.00     |
| 40 t  | Methyl acrylate             | 10.000  | 10.466  | -4.7   | 34    | 0.00     |
| 41 t  | Tetrahydrofuran             | 20.000  | 21.834  | -9.2   | 35    | 0.00     |
| 42 t  | 1-Chlorobutane              | 10.000  | 9.990   | 0.1    | 31    | 0.00     |
| 43 T  | Dibromomethane              | 10.000  | 10.161  | -1.6   | 32    | 0.00     |
| 44 T  | Bromodichloromethane        | 10.000  | 9.937   | 0.6    | 32    | 0.00     |
| 45 T  | 4-Methyl-2-Pentanone        | 50.000  | 53.405  | -6.8   | 33    | 0.00     |
| 46 t  | t-1,4-Dichloro-2-butene     | 20.000  | 21.236  | -6.2   | 31    | 0.00     |

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 LabSampleId :  
 VSTDCCC010

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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Nov 27 01:03:50 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|       | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|--------|--------|-------|-------|----------|
| 47 t  | Methyl methacrylate         | 20.000 | 21.189 | -5.9  | 33    | 0.00     |
| 48 t  | Ethyl methacrylate          | 10.000 | 11.046 | -10.5 | 33    | 0.00     |
| 49 Rt | Toluene                     | 10.000 | 10.517 | -5.2  | 32    | 0.00     |
| 50 T  | t-1,3-Dichloropropene       | 10.000 | 10.575 | -5.7  | 33    | 0.00     |
| 51 T  | cis-1,3-Dichloropropene     | 10.000 | 10.488 | -4.9  | 33    | 0.00     |
| 52 RT | 1,1,2-Trichloroethane       | 10.000 | 10.479 | -4.8  | 33    | 0.00     |
| 53 t  | 1,3-Dichloropropane         | 10.000 | 10.436 | -4.4  | 33    | 0.00     |
| 54 t  | 2-Hexanone                  | 50.000 | 53.605 | -7.2  | 33    | 0.00     |
| 55 t  | Dibromochloromethane        | 10.000 | 10.845 | -8.5  | 33    | 0.00     |
| 56 T  | 1,2-Dibromoethane           | 10.000 | 10.797 | -8.0  | 35    | 0.00     |
| 57 S  | 4-Bromofluorobenzene        | 1.000  | 1.088  | -8.8  | 33    | 0.00     |
| 58 RT | Tetrachloroethene           | 10.000 | 10.221 | -2.2  | 32    | 0.00     |
| 59 Rt | Chlorobenzene               | 10.000 | 10.428 | -4.3  | 33    | 0.00     |
| 60 T  | 1,1,1,2-Tetrachloroethane   | 10.000 | 10.926 | -9.3  | 35    | 0.00     |
| 61 t  | Pentachloroethane           | 10.000 | 11.367 | -13.7 | 36    | 0.00     |
| 62 t  | Hexachloroethane            | 10.000 | 12.024 | -20.2 | 37    | 0.00     |
| 63 Rt | Ethyl Benzene               | 10.000 | 10.807 | -8.1  | 33    | 0.00     |
| 64 RT | m/p-Xylenes                 | 20.000 | 22.231 | -11.2 | 34    | 0.00     |
| 65 RT | o-Xylene                    | 10.000 | 11.206 | -12.1 | 34    | 0.00     |
| 66 RT | Styrene                     | 10.000 | 11.490 | -14.9 | 35    | 0.00     |
| 67 t  | Bromoform                   | 10.000 | 11.250 | -12.5 | 35    | 0.00     |
| 68 S  | 1,2-Dichlorobenzene-d4      | 1.000  | 1.093  | -9.3  | 35    | 0.00     |
| 69 T  | Isopropylbenzene            | 10.000 | 11.060 | -10.6 | 33    | 0.00     |
| 70 T  | 1,1,2,2-Tetrachloroethane   | 10.000 | 11.052 | -10.5 | 34    | 0.00     |
| 71 T  | 1,2,3-Trichloropropane      | 10.000 | 10.007 | -0.1  | 31    | 0.00     |
| 72 t  | Bromobenzene                | 10.000 | 11.249 | -12.5 | 34    | 0.00     |
| 73 t  | n-propylbenzene             | 10.000 | 11.633 | -16.3 | 34    | 0.00     |
| 74 t  | 2-Chlorotoluene             | 10.000 | 11.550 | -15.5 | 36    | 0.00     |
| 75 t  | 1,3,5-Trimethylbenzene      | 10.000 | 11.518 | -15.2 | 34    | 0.00     |
| 76 t  | 4-Chlorotoluene             | 10.000 | 11.710 | -17.1 | 35    | 0.00     |
| 77 t  | tert-Butylbenzene           | 10.000 | 11.572 | -15.7 | 35    | 0.00     |
| 78 t  | 1,2,4-Trimethylbenzene      | 10.000 | 11.640 | -16.4 | 35    | 0.00     |
| 79 t  | sec-Butylbenzene            | 10.000 | 11.533 | -15.3 | 34    | 0.00     |
| 80    | Nitrobenzene                | 50.000 | 59.474 | -18.9 | 35    | 0.00     |
| 81 t  | p-Isopropyltoluene          | 10.000 | 11.559 | -15.6 | 34    | 0.00     |
| 82 t  | 1,3-Dichlorobenzene         | 10.000 | 11.606 | -16.1 | 35    | 0.00     |
| 83 Rt | 1,4-Dichlorobenzene         | 10.000 | 11.655 | -16.5 | 35    | 0.00     |
| 84 t  | n-Butylbenzene              | 10.000 | 11.749 | -17.5 | 34    | 0.00     |
| 85 Rt | 1,2-Dichlorobenzene         | 10.000 | 11.529 | -15.3 | 36    | 0.00     |
| 86 t  | 1,2-Dibromo-3-Chloropropane | 10.000 | 10.661 | -6.6  | 33    | 0.00     |
| 87 Rt | 1,2,4-Trichlorobenzene      | 10.000 | 11.311 | -13.1 | 33    | 0.00     |
| 88 t  | Hexachlorobutadiene         | 10.000 | 11.563 | -15.6 | 35    | 0.00     |
| 89 t  | Naphthalene                 | 10.000 | 10.919 | -9.2  | 33    | 0.00     |
| 90 t  | 1,2,3-Trichlorobenzene      | 10.000 | 10.998 | -10.0 | 33    | 0.00     |

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Max. RRF Dev : 30% Max. Rel. Area : 200%

| Compound           | Amount                       | Calc. | %Dev | Area% | Dev(min) |
|--------------------|------------------------------|-------|------|-------|----------|
| -----              |                              |       |      |       |          |
| (#) = Out of Range | SPCC's out = 0 CCC's out = 0 |       |      |       |          |