

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU050520\  
 Data File : VU038009.D  
 Acq On : 05 May 2020 10:29  
 Operator : JC/MD  
 Sample : VSTDCCC010  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC010

Quant Time: May 06 01:02:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U050420DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue May 05 02:20:02 2020  
 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  | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 10.000  | 9.998  | 0.0  | 97    | 0.00     |
| 3 t   | Chloromethane               | 10.000  | 9.618  | 3.8  | 98    | 0.00     |
| 4 Rt  | Vinyl Chloride              | 10.000  | 9.876  | 1.2  | 97    | 0.00     |
| 5 T   | Bromomethane                | 10.000  | 8.428  | 15.7 | 99    | 0.00     |
| 6 T   | Chloroethane                | 10.000  | 9.729  | 2.7  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 10.000  | 10.103 | -1.0 | 98    | 0.00     |
| 8     | 1,1,2-Trichloro-1,2,2-trifl | 10.000  | 10.258 | -2.6 | 101   | 0.00     |
| 9 Rt  | 1,1-Dichloroethene          | 10.000  | 9.857  | 1.4  | 99    | 0.00     |
| 10 t  | Iodomethane                 | 10.000  | 10.237 | -2.4 | 108   | 0.00     |
| 11 t  | Allyl Chloride              | 10.000  | 10.090 | -0.9 | 99    | 0.00     |
| 12 t  | Acrylonitrile               | 20.000  | 20.996 | -5.0 | 103   | 0.00     |
| 13 T  | Acetone                     | 51.000  | 52.374 | -2.7 | 105   | 0.00     |
| 14 T  | Carbon Disulfide            | 10.000  | 9.742  | 2.6  | 97    | 0.00     |
| 15 RT | Methylene Chloride          | 10.000  | 9.738  | 2.6  | 96    | 0.00     |
| 16 RT | trans-1,2-Dichloroethene    | 10.000  | 9.965  | 0.4  | 99    | 0.00     |
| 17 t  | 1,1-Dichloroethane          | 10.000  | 10.046 | -0.5 | 100   | 0.00     |
| 18 T  | 2-Butanone                  | 50.000  | 50.580 | -1.2 | 101   | 0.00     |
| 19    | Cyclohexane                 | 10.000  | 9.991  | 0.1  | 98    | 0.00     |
| 20    | Methylcyclohexane           | 10.000  | 10.358 | -3.6 | 99    | 0.00     |
| 21 T  | 2,2-Dichloropropane         | 10.000  | 9.957  | 0.4  | 98    | 0.00     |
| 22 RT | cis-1,2-Dichloroethene      | 10.000  | 10.039 | -0.4 | 98    | 0.00     |
| 23 t  | Diethyl Ether               | 10.000  | 10.195 | -2.0 | 101   | 0.00     |
| 24 t  | tert-Butyl Alcohol          | 100.000 | 85.048 | 15.0 | 91    | 0.00     |
| 25 t  | Methyl tert-Butyl Ether     | 10.000  | 10.106 | -1.1 | 100   | 0.00     |
| 26 t  | Bromochloromethane          | 10.000  | 9.993  | 0.1  | 99    | 0.00     |
| 27 t  | Chloroform                  | 10.000  | 9.860  | 1.4  | 99    | 0.00     |
| 28 RT | 1,1,1-Trichloroethane       | 10.000  | 9.991  | 0.1  | 97    | 0.00     |
| 29 T  | 1,1-Dichloropropene         | 10.000  | 10.047 | -0.5 | 98    | 0.00     |
| 30 RT | Carbon Tetrachloride        | 10.000  | 10.051 | -0.5 | 97    | 0.00     |
| 31 t  | Isopropyl Ether             | 10.000  | 10.110 | -1.1 | 99    | 0.00     |
| 32    | Ethyl-t-butyl ether         | 10.000  | 9.783  | 2.2  | 95    | 0.00     |
| 33    | Tert-Amyl methyl ether      | 10.000  | 9.829  | 1.7  | 96    | 0.00     |
| 34 t  | Propionitrile               | 50.000  | 47.574 | 4.9  | 95    | 0.00     |
| 35 RT | Benzene                     | 10.000  | 9.989  | 0.1  | 99    | 0.00     |
| 36 RT | 1,2-Dichloroethane          | 10.000  | 10.067 | -0.7 | 100   | 0.00     |
| 37 RT | Trichloroethene             | 10.000  | 9.602  | 4.0  | 97    | 0.00     |
| 38 Rt | 1,2-Dichloropropane         | 10.000  | 9.919  | 0.8  | 99    | 0.00     |
| 39 t  | Methacrylonitrile           | 10.000  | 9.733  | 2.7  | 101   | 0.00     |
| 40 t  | Methyl acrylate             | 10.000  | 10.308 | -3.1 | 102   | 0.00     |
| 41 t  | Tetrahydrofuran             | 20.000  | 18.893 | 5.5  | 100   | 0.00     |
| 42 t  | 1-Chlorobutane              | 10.000  | 10.035 | -0.4 | 98    | 0.00     |
| 43 T  | Dibromomethane              | 10.000  | 10.107 | -1.1 | 102   | 0.00     |
| 44 T  | Bromodichloromethane        | 10.000  | 10.170 | -1.7 | 99    | 0.00     |
| 45 T  | 4-Methyl-2-Pentanone        | 50.000  | 50.531 | -1.1 | 99    | 0.00     |
| 46 t  | t-1,4-Dichloro-2-butene     | 20.000  | 21.956 | -9.8 | 96    | 0.00     |

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 LabSampleId :  
 VSTDCCC010

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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 | 20.687 | -3.4  | 100   | 0.00     |
| 48 t  | Ethyl methacrylate          | 10.000 | 10.234 | -2.3  | 97    | 0.00     |
| 49 Rt | Toluene                     | 10.000 | 10.091 | -0.9  | 98    | 0.00     |
| 50 T  | t-1,3-Dichloropropene       | 10.000 | 10.067 | -0.7  | 96    | 0.00     |
| 51 T  | cis-1,3-Dichloropropene     | 10.000 | 10.150 | -1.5  | 98    | 0.00     |
| 52 RT | 1,1,2-Trichloroethane       | 10.000 | 10.031 | -0.3  | 100   | 0.00     |
| 53 t  | 1,3-Dichloropropane         | 10.000 | 10.160 | -1.6  | 100   | 0.00     |
| 54 t  | 2-Hexanone                  | 50.000 | 50.099 | -0.2  | 99    | 0.00     |
| 55 t  | Dibromochloromethane        | 10.000 | 10.231 | -2.3  | 99    | 0.00     |
| 56 T  | 1,2-Dibromoethane           | 10.000 | 9.951  | 0.5   | 98    | 0.00     |
| 57 S  | 4-Bromofluorobenzene        | 1.000  | 1.112  | -11.2 | 106   | 0.00     |
| 58 RT | Tetrachloroethene           | 10.000 | 10.139 | -1.4  | 99    | 0.00     |
| 59 Rt | Chlorobenzene               | 10.000 | 9.988  | 0.1   | 98    | 0.00     |
| 60 T  | 1,1,1,2-Tetrachloroethane   | 10.000 | 10.015 | -0.2  | 96    | 0.00     |
| 61 t  | Pentachloroethane           | 10.000 | 9.674  | 3.3   | 92    | 0.00     |
| 62 t  | Hexachloroethane            | 10.000 | 9.663  | 3.4   | 93    | 0.00     |
| 63 Rt | Ethyl Benzene               | 10.000 | 10.175 | -1.8  | 98    | 0.00     |
| 64 RT | m/p-Xylenes                 | 20.000 | 20.574 | -2.9  | 98    | 0.00     |
| 65 RT | o-Xylene                    | 10.000 | 10.016 | -0.2  | 97    | 0.00     |
| 66 RT | Styrene                     | 10.000 | 10.375 | -3.8  | 98    | 0.00     |
| 67 t  | Bromoform                   | 10.000 | 10.144 | -1.4  | 96    | 0.00     |
| 68 S  | 1,2-Dichlorobenzene-d4      | 1.000  | 0.971  | 2.9   | 95    | 0.00     |
| 69 T  | Isopropylbenzene            | 10.000 | 10.128 | -1.3  | 97    | 0.00     |
| 70 T  | 1,1,2,2-Tetrachloroethane   | 10.000 | 10.074 | -0.7  | 99    | 0.00     |
| 71 T  | 1,2,3-Trichloropropane      | 10.000 | 8.773  | 12.3  | 82    | 0.00     |
| 72 t  | Bromobenzene                | 10.000 | 10.027 | -0.3  | 96    | 0.00     |
| 73 t  | n-propylbenzene             | 10.000 | 10.251 | -2.5  | 96    | 0.00     |
| 74 t  | 2-Chlorotoluene             | 10.000 | 10.022 | -0.2  | 97    | 0.00     |
| 75 t  | 1,3,5-Trimethylbenzene      | 10.000 | 10.395 | -3.9  | 99    | 0.00     |
| 76 t  | 4-Chlorotoluene             | 10.000 | 10.170 | -1.7  | 98    | 0.00     |
| 77 t  | tert-Butylbenzene           | 10.000 | 9.997  | 0.0   | 96    | 0.00     |
| 78 t  | 1,2,4-Trimethylbenzene      | 10.000 | 10.242 | -2.4  | 97    | 0.00     |
| 79 t  | sec-Butylbenzene            | 10.000 | 10.240 | -2.4  | 98    | 0.00     |
| 80    | Nitrobenzene                | 50.000 | 46.808 | 6.4   | 94    | 0.00     |
| 81 t  | p-Isopropyltoluene          | 10.000 | 10.380 | -3.8  | 98    | 0.00     |
| 82 t  | 1,3-Dichlorobenzene         | 10.000 | 9.831  | 1.7   | 96    | 0.00     |
| 83 Rt | 1,4-Dichlorobenzene         | 10.000 | 9.678  | 3.2   | 96    | 0.00     |
| 84 t  | n-Butylbenzene              | 10.000 | 10.459 | -4.6  | 97    | 0.00     |
| 85 Rt | 1,2-Dichlorobenzene         | 10.000 | 9.925  | 0.7   | 98    | 0.00     |
| 86 t  | 1,2-Dibromo-3-Chloropropane | 10.000 | 9.979  | 0.2   | 101   | 0.00     |
| 87 Rt | 1,2,4-Trichlorobenzene      | 10.000 | 9.558  | 4.4   | 94    | 0.00     |
| 88 t  | Hexachlorobutadiene         | 10.000 | 9.285  | 7.1   | 89    | 0.00     |
| 89 t  | Naphthalene                 | 10.000 | 9.975  | 0.3   | 96    | 0.00     |
| 90 t  | 1,2,3-Trichlorobenzene      | 10.000 | 9.791  | 2.1   | 95    | 0.00     |

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