

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU090718\  
 Data File : VU026610.D  
 Acq On : 07 Sep 2018 09:02  
 Operator : MD/SY  
 Sample : VSTDCCC010  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC010

Quant Time: Sep 07 12:16:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U082018DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Mon Aug 20 13:35:41 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     | 72    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 10.000  | 7.910   | 20.9    | 60    | 0.00     |
| 3 t   | Chloromethane               | 10.000  | 11.111  | -11.1   | 85    | 0.00     |
| 4 Rt  | Vinyl Chloride              | 10.000  | 10.972  | -9.7    | 82    | 0.00     |
| 5 T   | Bromomethane                | 10.000  | 9.319   | 6.8     | 69    | 0.00     |
| 6 T   | Chloroethane                | 10.000  | 11.291  | -12.9   | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 10.000  | 9.423   | 5.8     | 72    | 0.00     |
| 8     | 1,1,2-Trichloro-1,2,2-trifl | 10.000  | 9.990   | 0.1     | 75    | 0.00     |
| 9 Rt  | 1,1-Dichloroethene          | 10.000  | 10.117  | -1.2    | 77    | 0.00     |
| 10 t  | Iodomethane                 | 10.000  | 5.982   | 40.2#   | 43    | 0.00     |
| 11 t  | Allyl Chloride              | 10.000  | 11.601  | -16.0   | 87    | 0.00     |
| 12 t  | Acrylonitrile               | 20.000  | 24.930  | -24.6   | 98    | 0.01     |
| 13 T  | Acetone                     | 50.000  | 109.788 | -119.6# | 151   | 0.03     |
| 14 T  | Carbon Disulfide            | 10.000  | 10.211  | -2.1    | 78    | 0.00     |
| 15 RT | Methylene Chloride          | 10.000  | 11.376  | -13.8   | 81    | 0.00     |
| 16 RT | trans-1,2-Dichloroethene    | 10.000  | 9.768   | 2.3     | 77    | 0.00     |
| 17 t  | 1,1-Dichloroethane          | 10.000  | 10.756  | -7.6    | 82    | 0.00     |
| 18 T  | 2-Butanone                  | 50.000  | 61.810  | -23.6   | 91    | 0.02     |
| 19    | Cyclohexane                 | 10.000  | 9.867   | 1.3     | 67    | 0.00     |
| 20    | Methylcyclohexane           | 10.000  | 9.832   | 1.7     | 65    | 0.00     |
| 21 T  | 2,2-Dichloropropane         | 10.000  | 7.836   | 21.6    | 59    | 0.00     |
| 22 RT | cis-1,2-Dichloroethene      | 10.000  | 8.225   | 17.8    | 60    | 0.00     |
| 23 t  | Diethyl Ether               | 10.000  | 11.212  | -12.1   | 85    | 0.00     |
| 24 t  | tert-Butyl Alcohol          | 100.000 | 99.561  | 0.4     | 80    | 0.08     |
| 25 t  | Methyl tert-Butyl Ether     | 10.000  | 10.424  | -4.2    | 79    | 0.00     |
| 26 t  | Bromochloromethane          | 10.000  | 7.740   | 22.6    | 56    | 0.00     |
| 27 t  | Chloroform                  | 10.000  | 7.974   | 20.3    | 60    | 0.00     |
| 28 RT | 1,1,1-Trichloroethane       | 10.000  | 7.688   | 23.1    | 57    | 0.00     |
| 29 T  | 1,1-Dichloropropene         | 10.000  | 8.881   | 11.2    | 62    | 0.00     |
| 30 RT | Carbon Tetrachloride        | 10.000  | 7.376   | 26.2    | 54    | 0.00     |
| 31 t  | Isopropyl Ether             | 10.000  | 9.336   | 6.6     | 69    | 0.00     |
| 32    | Ethyl-t-butyl ether         | 10.000  | 9.149   | 8.5     | 66    | 0.00     |
| 33    | Tert-Amyl methyl ether      | 10.000  | 9.201   | 8.0     | 62    | 0.00     |
| 34 t  | Propionitrile               | 50.000  | 52.033  | -4.1    | 77    | 0.03     |
| 35 RT | Benzene                     | 10.000  | 8.840   | 11.6    | 65    | 0.00     |
| 36 RT | 1,2-Dichloroethane          | 10.000  | 8.175   | 18.2    | 61    | 0.00     |
| 37 RT | Trichloroethene             | 10.000  | 8.165   | 18.4    | 61    | 0.00     |
| 38 Rt | 1,2-Dichloropropane         | 10.000  | 9.160   | 8.4     | 66    | 0.00     |
| 39 t  | Methacrylonitrile           | 10.000  | 9.380   | 6.2     | 66    | 0.00     |
| 40 t  | Methyl acrylate             | 10.000  | 10.096  | -1.0    | 72    | 0.00     |
| 41 t  | Tetrahydrofuran             | 20.000  | 18.336  | 8.3     | 74    | 0.01     |
| 42 t  | 1-Chlorobutane              | 10.000  | 9.184   | 8.2     | 63    | 0.00     |
| 43 T  | Dibromomethane              | 10.000  | 8.356   | 16.4    | 61    | 0.00     |
| 44 T  | Bromodichloromethane        | 10.000  | 8.164   | 18.4    | 61    | 0.00     |
| 45 T  | 4-Methyl-2-Pentanone        | 50.000  | 52.138  | -4.3    | 71    | 0.00     |
| 46 t  | t-1,4-Dichloro-2-butene     | 20.000  | 15.052  | 24.7    | 55    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU090718\  
 Data File : VU026610.D  
 Acq On : 07 Sep 2018 09:02  
 Operator : MD/SY  
 Sample : VSTDCCC010  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC010

Quant Time: Sep 07 12:16:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U082018DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Mon Aug 20 13:35:41 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 | 19.879 | 0.6   | 65    | 0.00     |
| 48 t  | Ethyl methacrylate          | 10.000 | 10.432 | -4.3  | 67    | 0.00     |
| 49 Rt | Toluene                     | 10.000 | 9.232  | 7.7   | 62    | 0.00     |
| 50 T  | t-1,3-Dichloropropene       | 10.000 | 8.853  | 11.5  | 62    | 0.00     |
| 51 T  | cis-1,3-Dichloropropene     | 10.000 | 9.072  | 9.3   | 64    | 0.00     |
| 52 RT | 1,1,2-Trichloroethane       | 10.000 | 8.354  | 16.5  | 62    | 0.00     |
| 53 t  | 1,3-Dichloropropane         | 10.000 | 8.759  | 12.4  | 63    | 0.00     |
| 54 t  | 2-Hexanone                  | 50.000 | 61.674 | -23.3 | 84    | 0.00     |
| 55 t  | Dibromochloromethane        | 10.000 | 7.714  | 22.9  | 56    | 0.00     |
| 56 T  | 1,2-Dibromoethane           | 10.000 | 8.116  | 18.8  | 59    | 0.00     |
| 57 S  | 4-Bromofluorobenzene        | 1.000  | 1.010  | -1.0  | 69    | 0.00     |
| 58 RT | Tetrachloroethene           | 10.000 | 7.848  | 21.5  | 57    | 0.00     |
| 59 Rt | Chlorobenzene               | 10.000 | 8.683  | 13.2  | 61    | 0.00     |
| 60 T  | 1,1,1,2-Tetrachloroethane   | 10.000 | 8.051  | 19.5  | 59    | 0.00     |
| 61 t  | Pentachloroethane           | 10.000 | 7.800  | 22.0  | 58    | 0.00     |
| 62 t  | Hexachloroethane            | 10.000 | 8.087  | 19.1  | 56    | 0.00     |
| 63 Rt | Ethyl Benzene               | 10.000 | 9.540  | 4.6   | 62    | 0.00     |
| 64 RT | m/p-Xylenes                 | 20.000 | 18.980 | 5.1   | 60    | 0.00     |
| 65 RT | o-Xylene                    | 10.000 | 9.482  | 5.2   | 62    | 0.00     |
| 66 RT | Styrene                     | 10.000 | 9.374  | 6.3   | 60    | 0.00     |
| 67 t  | Bromoform                   | 10.000 | 7.873  | 21.3  | 56    | 0.00     |
| 68 S  | 1,2-Dichlorobenzene-d4      | 1.000  | 0.946  | 5.4   | 68    | 0.00     |
| 69 T  | Isopropylbenzene            | 10.000 | 9.385  | 6.2   | 60    | 0.00     |
| 70 T  | 1,1,2,2-Tetrachloroethane   | 10.000 | 8.747  | 12.5  | 64    | 0.00     |
| 71 T  | 1,2,3-Trichloropropane      | 10.000 | 9.231  | 7.7   | 66    | 0.00     |
| 72 t  | Bromobenzene                | 10.000 | 8.295  | 17.1  | 57    | 0.00     |
| 73 t  | n-propylbenzene             | 10.000 | 9.158  | 8.4   | 57    | 0.00     |
| 74 t  | 2-Chlorotoluene             | 10.000 | 8.896  | 11.0  | 59    | 0.00     |
| 75 t  | 1,3,5-Trimethylbenzene      | 10.000 | 9.322  | 6.8   | 59    | 0.00     |
| 76 t  | 4-Chlorotoluene             | 10.000 | 8.912  | 10.9  | 59    | 0.00     |
| 77 t  | tert-Butylbenzene           | 10.000 | 9.126  | 8.7   | 59    | 0.00     |
| 78 t  | 1,2,4-Trimethylbenzene      | 10.000 | 9.238  | 7.6   | 58    | 0.00     |
| 79 t  | sec-Butylbenzene            | 10.000 | 9.274  | 7.3   | 59    | 0.00     |
| 80    | Nitrobenzene                | 50.000 | 42.356 | 15.3  | 57    | 0.00     |
| 81 t  | p-Isopropyltoluene          | 10.000 | 9.207  | 7.9   | 57    | 0.00     |
| 82 t  | 1,3-Dichlorobenzene         | 10.000 | 7.944  | 20.6  | 55    | 0.00     |
| 83 Rt | 1,4-Dichlorobenzene         | 10.000 | 7.898  | 21.0  | 55    | 0.00     |
| 84 t  | n-Butylbenzene              | 10.000 | 9.017  | 9.8   | 57    | 0.00     |
| 85 Rt | 1,2-Dichlorobenzene         | 10.000 | 8.101  | 19.0  | 57    | 0.00     |
| 86 t  | 1,2-Dibromo-3-Chloropropane | 10.000 | 7.858  | 21.4  | 58    | 0.00     |
| 87 Rt | 1,2,4-Trichlorobenzene      | 10.000 | 8.115  | 18.8  | 56    | 0.00     |
| 88 t  | Hexachlorobutadiene         | 10.000 | 8.097  | 19.0  | 57    | 0.00     |
| 89 t  | Naphthalene                 | 10.000 | 8.993  | 10.1  | 57    | 0.00     |
| 90 t  | 1,2,3-Trichlorobenzene      | 10.000 | 8.281  | 17.2  | 55    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU090718\  
Data File : VU026610.D  
Acq On : 07 Sep 2018 09:02  
Operator : MD/SY  
Sample : VSTDCCC010  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 07 12:16:10 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U082018DW.M  
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Mon Aug 20 13:35:41 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) |
|--------------------|------------------------------|-------|------|-------|----------|
| -----              |                              |       |      |       |          |
| (#) = Out of Range | SPCC's out = 0 CCC's out = 0 |       |      |       |          |