

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU072518\  
 Data File : VU025640.D  
 Acq On : 25 Jul 2018 19:05  
 Operator : MD/SY  
 Sample : VSTDCCC010EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC010

Quant Time: Jul 26 05:08:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072518DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jul 25 12:16:36 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 i   | Fluorobenzene               | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.357 | 0.342 | 4.2   | 94    | 0.00     |
| 3 t   | Chloromethane               | 0.337 | 0.299 | 11.3  | 87    | 0.00     |
| 4 Rt  | Vinyl Chloride              | 0.312 | 0.298 | 4.5   | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.152 | 0.136 | 10.5  | 92    | 0.00     |
| 6 T   | Chloroethane                | 0.187 | 0.178 | 4.8   | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.455 | 0.442 | 2.9   | 95    | 0.00     |
| 8     | 1,1,2-Trichloro-1,2,2-trifl | 0.250 | 0.246 | 1.6   | 97    | 0.00     |
| 9 Rt  | 1,1-Dichloroethene          | 0.220 | 0.209 | 5.0   | 94    | 0.00     |
| 10 t  | Iodomethane                 | 0.151 | 0.178 | -17.9 | 86    | 0.00     |
| 11 t  | Allyl Chloride              | 0.369 | 0.352 | 4.6   | 92    | 0.00     |
| 12 t  | Acrylonitrile               | 0.049 | 0.045 | 8.2   | 96    | 0.00     |
| 13 T  | Acetone                     | 0.042 | 0.039 | 7.1   | 96    | 0.00     |
| 14 T  | Carbon Disulfide            | 0.754 | 0.707 | 6.2   | 93    | 0.00     |
| 15 RT | Methylene Chloride          | 0.263 | 0.232 | 11.8  | 92    | 0.00     |
| 16 RT | trans-1,2-Dichloroethene    | 0.247 | 0.238 | 3.6   | 96    | 0.00     |
| 17 t  | 1,1-Dichloroethane          | 0.490 | 0.472 | 3.7   | 92    | 0.00     |
| 18 T  | 2-Butanone                  | 0.073 | 0.070 | 4.1   | 91    | 0.00     |
| 19    | Cyclohexane                 | 0.378 | 0.384 | -1.6  | 95    | 0.00     |
| 20    | Methylcyclohexane           | 0.464 | 0.462 | 0.4   | 94    | 0.00     |
| 21 T  | 2,2-Dichloropropane         | 0.467 | 0.445 | 4.7   | 97    | 0.00     |
| 22 RT | cis-1,2-Dichloroethene      | 0.311 | 0.302 | 2.9   | 96    | 0.00     |
| 23 t  | Diethyl Ether               | 0.167 | 0.164 | 1.8   | 95    | 0.00     |
| 24 t  | tert-Butyl Alcohol          | 0.020 | 0.019 | 5.0   | 101   | 0.01     |
| 25 t  | Methyl tert-Butyl Ether     | 0.596 | 0.571 | 4.2   | 96    | 0.00     |
| 26 t  | Bromochloromethane          | 0.137 | 0.130 | 5.1   | 95    | 0.00     |
| 27 t  | Chloroform                  | 0.539 | 0.521 | 3.3   | 96    | 0.00     |
| 28 RT | 1,1,1-Trichloroethane       | 0.486 | 0.475 | 2.3   | 96    | 0.00     |
| 29 T  | 1,1-Dichloropropene         | 0.399 | 0.392 | 1.8   | 93    | 0.00     |
| 30 RT | Carbon Tetrachloride        | 0.441 | 0.435 | 1.4   | 94    | 0.00     |
| 31 t  | Isopropyl Ether             | 0.785 | 0.764 | 2.7   | 95    | 0.00     |
| 32    | Ethyl-t-butyl ether         | 0.746 | 0.730 | 2.1   | 95    | 0.00     |
| 33    | Tert-Amyl methyl ether      | 0.659 | 0.650 | 1.4   | 95    | 0.00     |
| 34 t  | Propionitrile               | 0.020 | 0.021 | -5.0  | 99    | 0.00     |
| 35 RT | Benzene                     | 1.114 | 1.096 | 1.6   | 95    | 0.00     |
| 36 RT | 1,2-Dichloroethane          | 0.342 | 0.342 | 0.0   | 96    | 0.00     |
| 37 RT | Trichloroethene             | 0.328 | 0.313 | 4.6   | 95    | 0.00     |
| 38 Rt | 1,2-Dichloropropane         | 0.289 | 0.284 | 1.7   | 94    | 0.00     |
| 39 t  | Methacrylonitrile           | 0.094 | 0.092 | 2.1   | 94    | 0.00     |
| 40 t  | Methyl acrylate             | 0.142 | 0.141 | 0.7   | 96    | 0.00     |
| 41 t  | Tetrahydrofuran             | 0.055 | 0.044 | 20.0  | 88    | 0.00     |
| 42 t  | 1-Chlorobutane              | 0.543 | 0.541 | 0.4   | 95    | 0.00     |
| 43 T  | Dibromomethane              | 0.151 | 0.150 | 0.7   | 94    | 0.00     |
| 44 T  | Bromodichloromethane        | 0.382 | 0.383 | -0.3  | 96    | 0.00     |
| 45 T  | 4-Methyl-2-Pentanone        | 0.168 | 0.170 | -1.2  | 95    | 0.00     |
| 46 t  | t-1,4-Dichloro-2-butene     | 0.057 | 0.058 | -1.8  | 88    | 0.00     |

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 LabSampleId :  
 VSTDCCC010

Quant Time: Jul 26 05:08:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072518DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jul 25 12:16:36 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                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 47 t  | Methyl methacrylate         | 0.126 | 0.129 | -2.4 | 95    | 0.00     |
| 48 t  | Ethyl methacrylate          | 0.254 | 0.255 | -0.4 | 92    | 0.00     |
| 49 Rt | Toluene                     | 0.681 | 0.693 | -1.8 | 95    | 0.00     |
| 50 T  | t-1,3-Dichloropropene       | 0.345 | 0.346 | -0.3 | 95    | 0.00     |
| 51 T  | cis-1,3-Dichloropropene     | 0.414 | 0.410 | 1.0  | 93    | 0.00     |
| 52 RT | 1,1,2-Trichloroethane       | 0.202 | 0.205 | -1.5 | 97    | 0.00     |
| 53 t  | 1,3-Dichloropropane         | 0.342 | 0.348 | -1.8 | 96    | 0.00     |
| 54 t  | 2-Hexanone                  | 0.119 | 0.121 | -1.7 | 95    | 0.00     |
| 55 t  | Dibromochloromethane        | 0.257 | 0.259 | -0.8 | 95    | 0.00     |
| 56 T  | 1,2-Dibromoethane           | 0.196 | 0.194 | 1.0  | 94    | 0.00     |
| 57 S  | 4-Bromofluorobenzene        | 0.371 | 0.373 | -0.5 | 93    | 0.00     |
| 58 RT | Tetrachloroethene           | 0.295 | 0.300 | -1.7 | 97    | 0.00     |
| 59 Rt | Chlorobenzene               | 0.783 | 0.773 | 1.3  | 94    | 0.00     |
| 60 T  | 1,1,1,2-Tetrachloroethane   | 0.291 | 0.293 | -0.7 | 96    | 0.00     |
| 61 t  | Pentachloroethane           | 0.222 | 0.227 | -2.3 | 94    | 0.00     |
| 62 t  | Hexachloroethane            | 0.227 | 0.231 | -1.8 | 93    | 0.00     |
| 63 Rt | Ethyl Benzene               | 1.302 | 1.337 | -2.7 | 95    | 0.00     |
| 64 RT | m/p-Xylenes                 | 0.512 | 0.535 | -4.5 | 95    | 0.00     |
| 65 RT | o-Xylene                    | 0.488 | 0.506 | -3.7 | 95    | 0.00     |
| 66 RT | Styrene                     | 0.828 | 0.851 | -2.8 | 93    | 0.00     |
| 67 t  | Bromoform                   | 0.152 | 0.148 | 2.6  | 94    | 0.00     |
| 68 S  | 1,2-Dichlorobenzene-d4      | 0.412 | 0.412 | 0.0  | 95    | 0.00     |
| 69 T  | Isopropylbenzene            | 1.318 | 1.371 | -4.0 | 96    | 0.00     |
| 70 T  | 1,1,2,2-Tetrachloroethane   | 0.254 | 0.251 | 1.2  | 94    | 0.00     |
| 71 T  | 1,2,3-Trichloropropane      | 0.198 | 0.159 | 19.7 | 75    | 0.00     |
| 72 t  | Bromobenzene                | 0.342 | 0.344 | -0.6 | 95    | 0.00     |
| 73 t  | n-propylbenzene             | 0.371 | 0.396 | -6.7 | 95    | 0.00     |
| 74 t  | 2-Chlorotoluene             | 0.327 | 0.334 | -2.1 | 92    | 0.00     |
| 75 t  | 1,3,5-Trimethylbenzene      | 1.151 | 1.203 | -4.5 | 93    | 0.00     |
| 76 t  | 4-Chlorotoluene             | 0.344 | 0.351 | -2.0 | 92    | 0.00     |
| 77 t  | tert-Butylbenzene           | 1.135 | 1.171 | -3.2 | 94    | 0.00     |
| 78 t  | 1,2,4-Trimethylbenzene      | 1.175 | 1.250 | -6.4 | 95    | 0.00     |
| 79 t  | sec-Butylbenzene            | 1.491 | 1.571 | -5.4 | 95    | 0.00     |
| 80    | Nitrobenzene                | 0.008 | 0.008 | 0.0  | 84    | 0.00     |
| 81 t  | p-Isopropyltoluene          | 1.265 | 1.365 | -7.9 | 95    | 0.00     |
| 82 t  | 1,3-Dichlorobenzene         | 0.704 | 0.709 | -0.7 | 95    | 0.00     |
| 83 Rt | 1,4-Dichlorobenzene         | 0.686 | 0.709 | -3.4 | 94    | 0.00     |
| 84 t  | n-Butylbenzene              | 1.187 | 1.283 | -8.1 | 96    | 0.00     |
| 85 Rt | 1,2-Dichlorobenzene         | 0.643 | 0.657 | -2.2 | 95    | 0.00     |
| 86 t  | 1,2-Dibromo-3-Chloropropane | 0.042 | 0.045 | -7.1 | 96    | 0.00     |
| 87 Rt | 1,2,4-Trichlorobenzene      | 0.448 | 0.491 | -9.6 | 96    | 0.00     |
| 88 t  | Hexachlorobutadiene         | 0.275 | 0.282 | -2.5 | 95    | 0.00     |
| 89 t  | Naphthalene                 | 0.726 | 0.798 | -9.9 | 94    | 0.00     |
| 90 t  | 1,2,3-Trichlorobenzene      | 0.409 | 0.442 | -8.1 | 96    | 0.00     |

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