

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX121619\  
 Data File : VX014049.D  
 Acq On : 16 Dec 2019 20:40  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 17 05:46:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.453  | 1.1    | 96    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.879  | 0.2    | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.590  | -1.2#  | 99    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.877  | 12.2   | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.182  | -2.4   | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.058  | -2.1   | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.791  | 0.4    | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.634  | 0.7    | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.722  | -5.4   | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 243.281 | 2.7    | 99    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.363  | 1.3#   | 97    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 339.240 | -35.7# | 137   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.145  | -2.3   | 98    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 263.951 | -5.6   | 103   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 172.656 | 30.9#  | 65    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.684  | 2.6    | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.085  | -4.2   | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.351  | -2.7   | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.470  | 3.1    | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.201  | 1.6    | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.858  | -3.7   | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 277.801 | -11.1  | 105   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.864  | 0.3    | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 234.523 | 6.2    | 88    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.576  | 6.8    | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.260  | -0.5   | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.786  | -7.6   | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 270.325 | -8.1   | 105   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.287  | -2.6#  | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.270  | -2.5   | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.486  | -1.0   | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.317  | -2.6   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.642  | -3.3   | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.375  | 1.3    | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.476  | -5.0   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.134  | -2.3   | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.959  | 2.1    | 96    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.618  | 0.8    | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.408  | -4.8   | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.157  | -0.3   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.102  | -2.2   | 100   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.736  | 0.5    | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.593  | -1.2#  | 100   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 49.060   | 1.9   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.317   | -2.6  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.415   | -4.8  | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1025.058 | -2.5  | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.716   | -1.4  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 257.734  | -3.1  | 100   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.957   | 2.1#  | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.018   | -2.0  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.518   | -3.0  | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.771   | 0.5   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.796   | -3.6  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.236   | -0.5  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 266.999  | -6.8  | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 245.159  | 1.9   | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.376   | -4.8  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.544   | -3.1  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.788   | 2.4   | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 43.430   | 13.1  | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.259   | 1.5   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.230   | -2.5  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.540   | -1.1# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.982   | 0.0   | 95    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.742   | 0.5   | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.403   | -0.8  | 94    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.456   | -2.9  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.633   | -3.3  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.039   | -4.1  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.075   | -4.2  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.369   | -8.7  | 98    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.857   | 4.3   | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.830   | -3.7  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.234   | -0.5  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.881   | -1.8  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.680   | -5.4  | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.285   | 1.4   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.488   | -5.0  | 99    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.922   | -1.8  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.088   | -2.2  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.141   | -2.3  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.298   | 5.4   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.009   | 6.0   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.453   | -0.9  | 91    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.393 | -2.8 | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.919 | 4.2  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.681 | 4.6  | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.304 | 5.4  | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.076 | 5.8  | 91    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.594 | -1.2 | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.154 | 1.7  | 91    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6