

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\  
 Data File : VN050951.D  
 Acq On : 30 Aug 2018 10:22  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 31 02:08:09 2018  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 05:38:12 2018  
 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    | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.340  | 3.3    | 79    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.857  | 14.3   | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.742  | 8.5#   | 82    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.751  | 8.5    | 82    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.641  | 8.7    | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.828  | 4.3    | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.249  | 3.5    | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.040  | 3.9    | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.473  | 9.1    | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 254.738 | -1.9   | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.307  | 5.4#   | 85    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 198.623 | 20.6#  | 70    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.949  | 4.1    | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 253.902 | -1.6   | 90    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 328.762 | -31.5# | 117   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.642  | 16.7   | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.276  | -8.6   | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.197  | -2.4   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.552  | 8.9    | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.801  | 6.4    | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.680  | -1.4   | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 244.715 | 2.1    | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.091  | 5.8    | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 255.152 | -2.1   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.549  | 4.9    | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.739  | 2.5    | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.322  | 5.4    | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 261.692 | -4.7   | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.007  | 4.0#   | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.219  | 7.6    | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.409  | 5.2    | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.995  | 8.0    | 83    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.347  | 1.3    | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.384  | -0.8   | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.205  | -2.4   | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.684  | 0.6    | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.953  | -3.9   | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.252  | -0.5   | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.126  | -8.3   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.122  | -0.2   | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.838  | -3.7   | 87    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.212  | -0.4   | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.162  | -0.3#  | 87    | 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   | 50.294   | -0.6  | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.630   | -3.3  | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.124   | -6.2  | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1130.465 | -13.0 | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.267   | 1.5   | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 256.502  | -2.6  | 89    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.729   | -5.5# | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.109   | -4.2  | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.886   | -5.8  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.554   | -3.1  | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.173   | 3.7   | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.853   | -3.7  | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 235.754  | 5.7   | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 279.040  | -11.6 | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.231   | -4.5  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.102   | -4.2  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.194   | -0.4  | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.927   | 2.1   | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.109   | -0.2  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.622   | -1.2  | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.499   | -5.0# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.917  | -8.9  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.370   | -6.7  | 87    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.583   | 0.8   | 87    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.780   | -7.6  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.490   | -1.0  | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.644   | 0.7   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.093   | -4.2  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.628   | 6.7   | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.610   | 4.8   | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.050   | -4.1  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.139   | 1.7   | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.383   | -4.8  | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.653   | -1.3  | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.204   | -2.4  | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.082   | -2.2  | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.549   | -5.1  | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.699   | -5.4  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.870   | -9.7  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.941   | 0.1   | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.051   | 1.9   | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.903   | -9.8  | 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 | 51.130 | -2.3 | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.834 | 0.3  | 89    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.459 | 1.1  | 91    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 45.998 | 8.0  | 88    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.640 | -9.3 | 95    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 42.259 | 15.5 | 83    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 47.924 | 4.2  | 90    | 0.00     |

(#) = Out of Range

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