

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041720\  
 Data File : VN061067.D  
 Acq On : 17 Apr 2020 21:49  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 20 06:03:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041620W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 17 03:49:39 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% 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  | 49.838  | 0.3   | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.649  | -1.3  | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.536  | -3.1# | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.312  | 1.4   | 87    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.039  | -6.1  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.191  | -4.4  | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.805  | -5.6  | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.469  | 1.1   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 57.023  | -14.0 | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 279.069 | -11.6 | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.170  | -2.3# | 91    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 238.384 | 4.6   | 90    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.068  | 1.9   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 286.286 | -14.5 | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 251.881 | -0.8  | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.322  | 1.4   | 88    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.059  | -18.1 | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.830  | -3.7  | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.745  | -3.5  | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.508  | -3.0  | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.745  | -5.5  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 263.787 | -5.5  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.860  | -3.7  | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 278.009 | -11.2 | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.701  | 8.6   | 80    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.327  | -2.7  | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.560  | -3.1  | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 280.344 | -12.1 | 98    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.088  | -4.2# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.013  | 4.0   | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.115  | -4.2  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.960  | -1.9  | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.566  | -1.1  | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.481  | 1.0   | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.209  | -4.4  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.439  | -4.9  | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.554  | 2.9   | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.036  | -0.1  | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 59.632  | -19.3 | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.029  | -2.1  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.755  | -5.5  | 95    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.661  | 2.7   | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.212  | -2.4# | 94    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 52.900   | -5.8  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.230   | -2.5  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.353   | -8.7  | 95    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1101.970 | -10.2 | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.140   | 3.7   | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 276.491  | -10.6 | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.054   | -0.1# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.506   | -1.0  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.908   | 0.2   | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.646   | -3.3  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.657   | -9.3  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.364   | -2.7  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 275.077  | -10.0 | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 281.761  | -12.7 | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.023   | -6.0  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.511   | -5.0  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.729   | 2.5   | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.749   | 0.5   | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.229   | 1.5   | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.225   | -0.5  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.014   | -0.0# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.839  | -0.8  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.560   | -1.1  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.366   | -4.7  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.389   | -6.8  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.155   | 1.7   | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.880   | -1.8  | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.983   | -4.0  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.267   | -8.5  | 102   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.247   | 1.5   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.840   | 0.3   | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.301   | 1.4   | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.282   | -0.6  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.264   | 1.5   | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.472   | 1.1   | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.990   | 0.0   | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.152   | -0.3  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.192   | -0.4  | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.637   | 0.7   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.388   | 1.2   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.876   | 2.2   | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.582   | 0.8   | 88    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 49.439 | 1.1  | 90    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.187 | -0.4 | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.923 | -9.8 | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.234 | -0.5 | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.357 | 5.3  | 86    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.254 | -4.5 | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.587 | -1.2 | 88    | 0.00     |

(#) = Out of Range

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