

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN060719\  
 Data File : VN056057.D  
 Acq On : 6 Jun 2019 19:57  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 07 06:37:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 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  | 50.248  | -0.5  | 89    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 53.527  | -7.1  | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.869  | -5.7# | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 52.388  | -4.8  | 90    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.078  | -4.2  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.031  | -2.1  | 89    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.944  | -1.9  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.243  | -4.5  | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.133  | 3.7   | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 276.667 | -10.7 | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.082  | -4.2# | 90    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 303.567 | -21.4 | 109   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.621  | -5.2  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 295.647 | -18.3 | 100   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 226.678 | 9.3   | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.079  | 1.8   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 58.796  | -17.6 | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.441  | -6.9  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.877  | -3.8  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.925  | -3.8  | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.292  | -6.6  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 281.799 | -12.7 | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.697  | -5.4  | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 277.264 | -10.9 | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.932  | 8.1   | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.466  | -4.9  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.783  | -7.6  | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 293.368 | -17.3 | 102   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.982  | -6.0# | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.751  | 2.5   | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.610  | -5.2  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.161  | -4.3  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.768  | -1.5  | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.388  | 3.2   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 57.230  | -14.5 | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.009  | 2.0   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.966  | 4.1   | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.962  | -1.9  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 58.666  | -17.3 | 112   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.529  | 0.9   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.072  | -8.1  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.521  | 1.0   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.920  | -3.8# | 96    | 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   | 51.699   | -3.4  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.285   | -4.6  | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.140   | -10.3 | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1113.951 | -11.4 | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.707   | -1.4  | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 278.546  | -11.4 | 100   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.399   | -2.8# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 46.770   | 6.5   | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.207   | -6.4  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.143   | -4.3  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.585   | -9.2  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.470   | -4.9  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 238.442  | 4.6   | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 270.952  | -8.4  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.645   | 4.7   | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.464   | -6.9  | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.264   | -2.5  | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.335   | 3.3   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.548   | -1.1  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.561   | -5.1  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.960   | 0.1#  | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.584  | -0.6  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.200   | -0.4  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.836   | -5.7  | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.723   | 6.6   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.110   | -8.2  | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.827   | -3.7  | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.786   | -1.6  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.698   | -5.4  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.221   | 3.6   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.897   | 2.2   | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.085   | -8.2  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.265   | 5.5   | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.764   | -1.5  | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.576   | 0.8   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.444   | -6.9  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.192   | 1.6   | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.159   | 3.7   | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.017   | 2.0   | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.871   | 0.3   | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.781   | 0.4   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.153   | -0.3  | 90    | 0.00     |

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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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 49.609 | 0.8   | 90    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.165 | 1.7   | 91    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.052 | -10.1 | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 44.139 | 11.7  | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.003 | -2.0  | 89    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.856 | 4.3   | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 47.593 | 4.8   | 92    | 0.00     |

(#) = Out of Range

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