

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070119\  
 Data File : VN056564.D  
 Acq On : 1 Jul 2019 11:55  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 02 01:32:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 03:45:40 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.130  | 5.7   | 84    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.954  | 12.1  | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.164  | 7.7#  | 84    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.709  | -7.4  | 93    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.245  | 5.5   | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.162  | -0.3  | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.462  | 1.1   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.051  | -2.1  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.958  | 0.1   | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 248.790 | 0.5   | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.234  | 3.5#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 208.332 | 16.7  | 76    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.145  | -4.3  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 265.020 | -6.0  | 96    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 224.881 | 10.0  | 83    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.236  | 17.5  | 74    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.290  | -8.6  | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.297  | -2.6  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.636  | -1.3  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.489  | 3.0   | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.253  | -6.5  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 274.494 | -9.8  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.969  | -3.9  | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 254.041 | -1.6  | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.974  | -5.9  | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.496  | -1.0  | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.745  | -1.5  | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 269.695 | -7.9  | 97    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.979  | -6.0# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.034  | 7.9   | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.999  | -6.0  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.410  | -2.8  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.918  | -5.8  | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.698  | 0.6   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.532  | -9.1  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.904  | -3.8  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.288  | 3.4   | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.508  | -1.0  | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.084  | -10.2 | 103   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.403  | -2.8  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.179  | -8.4  | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.489  | -1.0  | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.619  | -5.2# | 95    | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070119\  
 Data File : VN056564.D  
 Acq On : 1 Jul 2019 11:55  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 02 01:32:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 03:45:40 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 52.558   | -5.1  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 56.073   | -12.1 | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.217   | -6.4  | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1090.885 | -9.1  | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.451   | -0.9  | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 271.289  | -8.5  | 95    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.234   | -2.5# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.984   | 0.0   | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.054   | -12.1 | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.911   | -7.8  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.894   | -7.8  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.574   | -7.1  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 219.367  | 12.3  | 76    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 256.826  | -2.7  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.581   | -3.2  | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.448   | -6.9  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.522   | -5.0  | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.960   | -3.9  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.883   | -1.8  | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.549   | -13.1 | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.555   | -3.1# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.977  | -5.0  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.717   | -3.4  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.637   | -9.3  | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.048   | -2.1  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.122   | -10.2 | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.364   | 3.3   | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 56.338   | -12.7 | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.468   | -8.9  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.597   | 4.8   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.815   | 2.4   | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.630   | -9.3  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.166   | -8.3  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.237   | -10.5 | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.091   | 1.8   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.243   | -10.5 | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.926   | 4.1   | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.652   | 2.7   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.979   | 2.0   | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.643   | -1.3  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.405   | 1.2   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.090   | 5.8   | 86    | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070119\  
Data File : VN056564.D  
Acq On : 1 Jul 2019 11:55  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Jul 02 01:32:19 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 21 03:45:40 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.073 | -6.1 | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.736 | -1.5 | 91    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.899 | -5.8 | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 38.218 | 23.6 | 75    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.646 | -9.3 | 94    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 38.871 | 22.3 | 75    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 40.547 | 18.9 | 77    | 0.00     |

(#) = Out of Range

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