

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN092019\  
 Data File : VN058273.D  
 Acq On : 20 Sep 2019 23:42  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 21 05:26:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 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     | 69    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.376  | 11.2    | 67    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.991  | 0.0     | 72    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.097  | -2.2#   | 71    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.435  | -0.9    | 73    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.552  | -5.1    | 72    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.381  | 5.2     | 74    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.564  | 4.9     | 70    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.179  | 5.6     | 72    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.261  | 1.5     | 71    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 269.536 | -7.8    | 76    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.612  | -1.2#   | 72    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 616.022 | -146.4# | 169   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 42.495  | 15.0    | 63    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 281.728 | -12.7   | 79    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 223.467 | 10.6    | 67    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.020  | 10.0    | 67    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.899  | -9.8    | 82    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.671  | -5.3    | 76    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.588  | -7.2    | 77    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.212  | -0.4    | 71    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.707  | -5.4    | 75    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 277.619 | -11.0   | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.759  | -1.5    | 75    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 266.829 | -6.7    | 74    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 38.952  | 22.1    | 58    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.287  | -0.6    | 73    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 55.426  | -10.9   | 75    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 272.526 | -9.0    | 79    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.181  | -2.4#   | 76    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.819  | 0.4     | 70    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.552  | -3.1    | 72    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.467  | -10.9   | 75    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0     | 71    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.753  | -5.5    | 73    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.777  | 8.4     | 72    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.715  | -5.4    | 76    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.492  | 3.0     | 73    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.665  | 4.7     | 70    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.768  | 2.5     | 74    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.496  | 3.0     | 69    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.338  | 1.3     | 74    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.463  | -0.9    | 76    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.444  | -6.9    | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.280  | -2.6#   | 75    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN092019\  
 Data File : VN058273.D  
 Acq On : 20 Sep 2019 23:42  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 21 05:26:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 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   | 50.961   | -1.9  | 75    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.693   | -5.4  | 74    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.867   | -7.7  | 76    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1095.324 | -9.5  | 75    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.573   | -7.1  | 73    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 306.242  | -22.5 | 81    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.934   | 0.1#  | 74    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.157   | -2.3  | 70    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.473   | -0.9  | 70    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.846   | -7.7  | 77    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.773   | -9.5  | 75    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.415   | -4.8  | 76    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 290.255  | -16.1 | 75    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 296.100  | -18.4 | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.675   | -11.3 | 75    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.473   | -4.9  | 75    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.167   | -6.3  | 74    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 72    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.562   | 4.9   | 74    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.717   | 0.6   | 75    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.452   | -4.9  | 74    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.666   | -3.3# | 74    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.747   | 0.3   | 73    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.729   | -3.5  | 76    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.474   | -6.9  | 75    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.246   | 5.5   | 74    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 71    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.719   | -5.4  | 75    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 56.096   | -12.2 | 76    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.959   | -9.9  | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 57.716   | -15.4 | 86    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.141   | 1.7   | 74    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.409   | -8.8  | 75    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.365   | -4.7  | 75    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.963   | -7.9  | 74    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.468   | 11.1  | 67    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.882   | -3.8  | 74    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.688   | -7.4  | 76    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.998   | -10.0 | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 55.004   | -10.0 | 75    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.891   | -9.8  | 74    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.624   | -3.2  | 74    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.875   | -1.8  | 73    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.291   | -6.6  | 71    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN092019\  
Data File : VN058273.D  
Acq On : 20 Sep 2019 23:42  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Sep 21 05:26:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 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 | 49.988 | 0.0  | 75    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.999 | -4.0 | 74    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.816 | -9.6 | 76    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.840 | 2.3  | 68    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.812 | 0.4  | 72    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.447 | -2.9 | 67    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.060 | 1.9  | 67    | 0.00     |

(#) = Out of Range

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