

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031519\  
 Data File : VN054305.D  
 Acq On : 15 Mar 2019 12:38  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 16 03:29:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031219W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 13 03:33:31 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   | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.277  | 3.4   | 89    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 41.534  | 16.9  | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.813  | 12.4# | 87    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 40.120  | 19.8  | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 43.686  | 12.6  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 43.894  | 12.2  | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.883  | 2.2   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.213  | -0.4  | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.957  | -1.9  | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 230.471 | 7.8   | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.967  | 4.1#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 188.622 | 24.6  | 72    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.855  | 8.3   | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 249.184 | 0.3   | 94    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 233.050 | 6.8   | 90    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.669  | 14.7  | 78    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.049  | -10.1 | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.024  | 2.0   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.783  | 4.4   | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.873  | 4.3   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.451  | 3.1   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 239.076 | 4.4   | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.569  | 4.9   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 264.301 | -5.7  | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.995  | 10.0  | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.901  | 0.2   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.769  | 8.5   | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 246.224 | 1.5   | 93    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.138  | 1.7#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.125  | 7.8   | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.507  | 5.0   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.217  | 7.6   | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.005  | -0.0  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.934  | 0.1   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.061  | 1.9   | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.078  | 3.8   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.732  | 0.5   | 91    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.603  | -1.2  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.145  | 7.7   | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.718  | 2.6   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.967  | 2.1   | 89    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.792  | -1.6  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.722  | -1.4# | 93    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031519\  
 Data File : VN054305.D  
 Acq On : 15 Mar 2019 12:38  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 16 03:29:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031219W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 13 03:33:31 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   | 50.204   | -0.4  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.625   | 0.8   | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.978   | -2.0  | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1053.099 | -5.3  | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.973   | 2.1   | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 262.177  | -4.9  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.592   | -3.2# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 43.615   | 12.8  | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.206   | -0.4  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.081   | -4.2  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.783   | -5.6  | 95    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.725   | -1.5  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 239.823  | 4.1   | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 263.435  | -5.4  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.918   | -1.8  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.171   | -4.3  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.197   | 3.6   | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.137   | -0.3  | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.578   | -3.2  | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.126   | -2.3  | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.877   | -1.8# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.277  | -3.3  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.167   | -2.3  | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.452   | -4.9  | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 43.885   | 12.2  | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.916   | 0.2   | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.212   | -2.4  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.277   | -4.6  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.839   | -1.7  | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.365   | -2.7  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.429   | -0.9  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.134   | -0.3  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.154   | 1.7   | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.410   | 7.2   | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.776   | -1.6  | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.483   | 3.0   | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.751   | -1.5  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.543   | 2.9   | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.361   | 1.3   | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.866   | -3.7  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.281   | -2.6  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.741   | -3.5  | 89    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031519\  
Data File : VN054305.D  
Acq On : 15 Mar 2019 12:38  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Mar 16 03:29:55 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031219W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 13 03:33:31 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 | 43.799 | 12.4 | 76    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.406 | -2.8 | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.282 | 1.4  | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.726 | 4.5  | 91    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.687 | 6.6  | 89    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.130 | 7.7  | 90    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.759 | -3.5 | 87    | 0.00     |

(#) = Out of Range

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