

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX121918\  
 Data File : VX006660.D  
 Acq On : 20 Dec 2018 01:37  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 20 05:05:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.485  | 7.0   | 92    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.795  | 2.4   | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.151  | 1.7#  | 97    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 52.642  | -5.3  | 98    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.690  | 8.6   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.946  | 2.1   | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.512  | 5.0   | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.356  | 5.3   | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.157  | -8.3  | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 253.988 | -1.6  | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.524  | 1.0#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 219.637 | 12.1  | 87    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.914  | 2.2   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 256.133 | -2.5  | 99    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 223.317 | 10.7  | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.943  | 8.1   | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.318  | -4.6  | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.062  | -2.1  | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.632  | 4.7   | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.422  | 5.2   | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.089  | -2.2  | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 254.490 | -1.8  | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.504  | 3.0   | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 243.828 | 2.5   | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 40.148  | 19.7  | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.204  | 1.6   | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.341  | -6.7  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 252.637 | -1.1  | 98    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.870  | 0.3#  | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.547  | 4.9   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.450  | -0.9  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.352  | 7.3   | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 46.596  | 6.8   | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.178  | 1.6   | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.510  | 1.0   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.112  | -0.2  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.253  | 7.5   | 91    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.494  | 1.0   | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.898  | -3.8  | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.317  | 3.4   | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.001  | -6.0  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.845  | 2.3   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.449  | -0.9# | 101   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX121918\  
 Data File : VX006660.D  
 Acq On : 20 Dec 2018 01:37  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 20 05:05:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 49.241   | 1.5   | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.993   | -2.0  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.973   | -7.9  | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1043.449 | -4.3  | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.127   | 5.7   | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 267.790  | -7.1  | 99    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.737   | -1.5# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.273   | -2.5  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.590   | -5.2  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.687   | -1.4  | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.444   | -6.9  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.082   | -0.2  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 259.436  | -3.8  | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 262.111  | -4.8  | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.152   | 3.7   | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.614   | -3.2  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.927   | 4.1   | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.807   | 0.4   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.966   | 2.1   | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.555   | -7.1  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.811   | 0.4#  | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.069  | -1.1  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.722   | 0.6   | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.339   | -2.7  | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 44.981   | 10.0  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.284   | -0.6  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.180   | -8.4  | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.275   | -2.5  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.999   | -4.0  | 95    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.589   | -1.2  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.704   | -1.4  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.602   | 0.8   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.483   | -1.0  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.127   | 15.7  | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.382   | -0.8  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.339   | -0.7  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.280   | 1.4   | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.411   | -0.8  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.282   | -2.6  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.717   | 0.6   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.434   | 3.1   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.747   | -1.5  | 95    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX121918\  
Data File : VX006660.D  
Acq On : 20 Dec 2018 01:37  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Dec 20 05:05:49 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 19 15:20:58 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 48.263 | 3.5  | 99    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.178 | 1.6  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.463 | -0.9 | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.282 | -0.6 | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.130 | 5.7  | 93    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.872 | 0.3  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.119 | 1.8  | 97    | 0.00     |

(#) = Out of Range

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