

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX080918\  
 Data File : VX003940.D  
 Acq On : 09 Aug 2018 10:04  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 10 01:10:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 07:45:48 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   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.017  | -2.0  | 102   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.709  | 14.6  | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.348  | 5.3#  | 99    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.892  | 14.2  | 82    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 54.440  | -8.9  | 107   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.795  | 0.4   | 105   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.317  | 1.4   | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.861  | -1.7  | 110   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 36.324  | 27.4# | 73    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 220.699 | 11.7  | 92    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.454  | 1.1#  | 105   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 195.569 | 21.8# | 82    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.766  | 2.5   | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 227.131 | 9.1   | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 252.624 | -1.0  | 108   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.124  | 3.8   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.165  | 5.7   | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.883  | 0.2   | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.461  | 1.1   | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.891  | 4.2   | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.601  | 2.8   | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 248.113 | 0.8   | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.014  | 4.0   | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 244.539 | 2.2   | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.384  | -10.8 | 118   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.941  | -1.9  | 109   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.994  | 0.0   | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 232.380 | 7.0   | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.337  | -0.7# | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.803  | -1.6  | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.114  | -4.2  | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.667  | 4.7   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.743  | 0.5   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.430  | -6.9  | 109   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.236  | 1.5   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.107  | -6.2  | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 55.108  | -10.2 | 110   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.498  | -5.0  | 106   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.161  | -0.3  | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.609  | -5.2  | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.341  | -4.7  | 102   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.348  | -4.7  | 109   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.276  | -4.6# | 105   | 0.00     |

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Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 10 01:10:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 07:45:48 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   | 51.440  | -2.9  | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.688  | -7.4  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.957  | -5.9  | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 990.829 | 0.9   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.535  | 0.9   | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 256.116 | -2.4  | 98    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.896  | -7.8# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.415  | -10.8 | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.566  | -11.1 | 106   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.952  | -3.9  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.814  | -11.6 | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.370  | -4.7  | 107   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 253.698 | -1.5  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 265.839 | -6.3  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 57.347  | -14.7 | 109   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.281  | -8.6  | 108   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 58.264  | -16.5 | 119   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 106   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.413  | 1.2   | 110   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.551  | -3.1  | 109   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.340  | -6.7  | 108   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.162  | -8.3# | 112   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 111.235 | -11.2 | 115   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.814  | -13.6 | 115   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.801  | -15.6 | 117   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.216  | -2.4  | 116   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 117   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.945  | -3.9  | 115   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 43.383  | 13.2  | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.754  | 4.5   | 120   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.598  | 2.8   | 119   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.993  | -2.0  | 128   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.443  | -6.9  | 126   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.255  | -0.5  | 124   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.761  | -5.5  | 125   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.133  | 5.7   | 118   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.362  | -0.7  | 123   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.103  | -8.2  | 126   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.778  | -7.6  | 124   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.164  | -8.3  | 124   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.742  | -11.5 | 127   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.411  | -2.8  | 127   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.280  | -6.6  | 125   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.294  | -6.6  | 123   | 0.00     |

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VSTDCCC050

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Quant Title : SW846 8260  
QLast Update : Tue Aug 07 07:45:48 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 | 50.423 | -0.8 | 116  | 0.00       |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.480 | 3.0  | 118  | 0.00       |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.461 | 7.1  | 107  | 0.00       |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.645 | -1.3 | 121  | 0.00       |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.940 | -5.9 | 126  | 0.00       |
| 95 T | Naphthalene                 | 50.000 | 54.887 | -9.8 | 120  | 0.00       |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.041 | -8.1 | 128  | 0.00       |

(#) = Out of Range

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