

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX090618\  
 Data File : VX004379.D  
 Acq On : 06 Sep 2018 12:19  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 07 05:16:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 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    | 119   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 39.820  | 20.4#  | 88    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 39.758  | 20.5#  | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.207  | 9.6#   | 104   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.643  | 16.7   | 97    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.232  | 9.5    | 115   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.276  | 5.4    | 111   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.053  | -0.1   | 120   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.315  | 1.4    | 121   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.280  | 9.4    | 108   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 244.015 | 2.4    | 116   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.466  | 5.1#   | 116   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 203.680 | 18.5   | 99    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.547  | 0.9    | 118   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 244.953 | 2.0    | 120   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 282.117 | -12.8  | 129   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.270  | 15.5   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 62.017  | -24.0# | 146   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.037  | -4.1   | 126   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.454  | 7.1    | 119   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.571  | 6.9    | 116   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.104  | -0.2   | 122   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 238.952 | 4.4    | 113   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.649  | 0.7    | 118   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 259.958 | -4.0   | 123   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.820  | -3.6   | 124   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.373  | 1.3    | 121   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.316  | 9.4    | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 246.925 | 1.2    | 117   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.026  | 1.9#   | 118   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.680  | 2.6    | 114   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.338  | 1.3    | 117   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 44.094  | 11.8   | 109   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 115   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.897  | 2.2    | 116   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.531  | 0.9    | 114   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.582  | -1.2   | 115   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.133  | -2.3   | 115   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.902  | -7.8   | 122   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.754  | -1.5   | 116   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.123  | -4.2   | 119   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.442  | 1.1    | 114   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.989  | -8.0   | 121   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.015  | -2.0   | 120   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.784  | -5.6#  | 120   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 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   | 49.961   | 0.1    | 115   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.987   | -6.0   | 118   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.504   | -7.0   | 118   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1020.070 | -2.0   | 113   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.899   | 4.2    | 111   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 250.035  | -0.0   | 118   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.988   | -4.0#  | 117   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.831   | -11.7  | 121   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.851   | -11.7  | 122   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.736   | -5.5   | 120   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 57.935   | -15.9  | 125   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.472   | -4.9   | 119   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 243.726  | 2.5    | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 254.880  | -2.0   | 119   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.519   | -11.0  | 121   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.925   | -3.8   | 117   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.842   | 0.3    | 116   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 124   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.663   | -9.3   | 134   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.751   | -3.5   | 129   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.754   | -9.5   | 130   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.425   | -8.8#  | 127   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.939  | -5.9   | 121   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.829   | -11.7  | 126   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 59.093   | -18.2  | 131   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.014   | -10.0  | 128   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 113   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 56.817   | -13.6  | 122   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.743   | -9.5   | 118   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.523   | -1.0   | 116   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.747   | -3.5   | 117   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.539   | -7.1   | 122   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 56.944   | -13.9  | 121   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.714   | -7.4   | 120   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 56.727   | -13.5  | 120   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 57.338   | -14.7  | 123   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.887   | -7.8   | 120   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 57.111   | -14.2  | 121   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 57.581   | -15.2  | 120   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 59.882   | -19.8  | 129   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 60.710   | -21.4# | 127   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.197   | -6.4   | 122   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.929   | -1.9   | 121   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 63.205   | -26.4# | 138   | 0.00     |

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Quant Title : SW846 8260  
QLast Update : Thu Aug 23 05:39:44 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 | 60.081 | -20.2# | 133   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 55.144 | -10.3  | 126   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.053 | -8.1   | 119   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 60.246 | -20.5# | 138   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 65.401 | -30.8# | 145   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 61.952 | -23.9# | 125   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 58.952 | -17.9  | 132   | 0.00     |

(#) = Out of Range

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