

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051218\  
 Data File : VX001659.D  
 Acq On : 12 May 2018 10:39  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 14 06:24:53 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sun May 06 07:59:25 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.894  | 6.2   | 87    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.342  | 13.3  | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.838  | 8.3#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 40.289  | 19.4  | 78    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.675  | 10.7  | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.869  | 4.3   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.053  | 5.9   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.354  | 1.3   | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 35.809  | 28.4# | 66    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 205.366 | 17.9  | 80    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.958  | 6.1#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 142.754 | 42.9# | 57    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.799  | 4.4   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 220.888 | 11.6  | 86    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 260.828 | -4.3  | 105   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.405  | 13.2  | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.590  | 0.8   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.324  | 3.4   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 44.932  | 10.1  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.151  | 9.7   | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.544  | 0.9   | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 247.136 | 1.1   | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.824  | 2.4   | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 240.622 | 3.8   | 94    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.448  | -10.9 | 105   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.218  | -0.4  | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.557  | -3.1  | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 221.626 | 11.3  | 86    | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 50.737  | -1.5# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.441  | 1.1   | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.150  | -4.3  | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.048  | 15.9  | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.291  | 5.4   | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.337  | -4.7  | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.066  | 3.9   | 88    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.625  | -9.3  | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.698  | -7.4  | 97    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.281  | -4.6  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.026  | 1.9   | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.698  | -3.4  | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.093  | -2.2  | 90    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.164  | -6.3  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.793  | -7.6# | 99    | 0.00     |

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 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   | 51.739  | -3.5  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 56.068  | -12.1 | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.822  | -1.6  | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 870.377 | 13.0  | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.678  | 8.6   | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 251.250 | -0.5  | 89    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.612  | -7.2# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.904  | -15.8 | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.465  | -2.9  | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.596  | -7.2  | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.796  | -7.6  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.562  | -3.1  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 279.401 | -11.8 | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 248.520 | 0.6   | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.933  | -11.9 | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.416  | -2.8  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 45.745  | 8.5   | 81    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.749  | -11.5 | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.799  | -5.6  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.902  | -11.8 | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.726  | -7.5# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.079 | -9.1  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.758  | -7.5  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.150  | -10.3 | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.878  | 4.2   | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.034  | -8.1  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.825  | -1.7  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.151  | -0.3  | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.090  | -2.2  | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.211  | -2.4  | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 56.104  | -12.2 | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.164  | -6.3  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.224  | -8.4  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.358  | 5.3   | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.529  | -7.1  | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.051  | -8.1  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.433  | -8.9  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.225  | -12.5 | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.741  | -13.5 | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.996  | -6.0  | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.714  | -5.4  | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 57.023  | -14.0 | 96    | 0.00     |

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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 | 58.012 | -16.0 | 98    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.957 | -5.9  | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.194 | -4.4  | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 56.648 | -13.3 | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 56.186 | -12.4 | 99    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.953 | -7.9  | 90    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 55.013 | -10.0 | 94    | 0.00     |

(#) = Out of Range

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