

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX092419\  
 Data File : VX012647.D  
 Acq On : 24 Sep 2019 20:48  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 25 07:03:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 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   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.840  | 8.3   | 85    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.855  | 8.3   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.328  | 1.3#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.068  | 5.9   | 93    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.864  | 10.3  | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.757  | 2.5   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.569  | 0.9   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.973  | 0.1   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.204  | -0.4  | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 263.390 | -5.4  | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.440  | -2.9# | 90    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 233.734 | 6.5   | 84    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.164  | -0.3  | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 258.976 | -3.6  | 92    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 216.909 | 13.2  | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.084  | 7.8   | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.034  | -2.1  | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.318  | -4.6  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.475  | 1.0   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.276  | -0.6  | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.982  | -4.0  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 258.724 | -3.5  | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.176  | -2.4  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 247.300 | 1.1   | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.726  | 10.5  | 80    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.071  | -2.1  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.887  | -1.8  | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 265.401 | -6.2  | 93    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.274  | -0.5# | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.570  | -3.1  | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.541  | -1.1  | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.068  | -6.1  | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.175  | -6.3  | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.346  | -0.7  | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.905  | -3.8  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.214  | 3.6   | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.814  | 0.4   | 93    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.463  | -0.9  | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.747  | -1.5  | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.469  | -0.9  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.488  | -1.0  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.897  | 0.2   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.531  | -3.1# | 95    | 0.00     |

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Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 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   | 50.459   | -0.9  | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.221   | 1.6   | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.458   | -2.9  | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1047.475 | -4.7  | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.265   | -6.5  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 258.569  | -3.4  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.039   | -2.1# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.902   | -3.8  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.218   | -0.4  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.649   | -3.3  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.925   | -5.8  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.362   | -2.7  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 271.176  | -8.5  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 262.892  | -5.2  | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.162   | -2.3  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.464   | -4.9  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.405   | -8.8  | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.078   | -2.2  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.019   | -0.0  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.485   | -1.0  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.483   | -3.0# | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.645  | -1.6  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.610   | -3.2  | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.960   | -7.9  | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.541   | -3.1  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.042   | 1.9   | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.391   | -2.8  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.391   | 1.2   | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.494   | 1.0   | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.331   | 1.3   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.890   | 0.2   | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.310   | 3.4   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.430   | -0.9  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.070   | 3.9   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.491   | 1.0   | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.571   | 2.9   | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.441   | -0.9  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.194   | -0.4  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.693   | -3.4  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.539   | -1.1  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.719   | -1.4  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.446   | -2.9  | 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 | 48.449 | 3.1   | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.794 | -1.6  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.773 | -5.5  | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.654 | -7.3  | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.875 | -1.8  | 96    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 57.948 | -15.9 | 103   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.851 | -9.7  | 100   | 0.00     |

(#) = Out of Range

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