

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX011720\  
 Data File : VX014662.D  
 Acq On : 17 Jan 2020 18:04  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 18 06:08:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 15:54:41 2020  
 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   | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.009  | 4.0   | 73    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.204  | -0.4  | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.624  | -3.2# | 76    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.746  | 2.5   | 83    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.929  | -3.9  | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.942  | 0.1   | 78    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.166  | 1.7   | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.251  | 1.5   | 79    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 55.766  | -11.5 | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 276.065 | -10.4 | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.325  | 3.3#  | 77    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 268.399 | -7.4  | 84    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.352  | 3.3   | 76    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 276.054 | -10.4 | 87    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 255.872 | -2.3  | 78    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.297  | 11.4  | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 58.506  | -17.0 | 88    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.077  | -4.2  | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.410  | -4.8  | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.673  | 4.7   | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.530  | -9.1  | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 277.029 | -10.8 | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.915  | -5.8  | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 264.826 | -5.9  | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.947  | 2.1   | 77    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.398  | -0.8  | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.585  | -1.2  | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 284.359 | -13.7 | 86    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.324  | -6.6# | 84    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.255  | -2.5  | 77    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.009  | -4.0  | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.652  | -5.3  | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 80    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.363  | -4.7  | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.535  | 2.9   | 78    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.803  | -5.6  | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.526  | -1.1  | 79    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.298  | 3.4   | 76    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.183  | -2.4  | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.978  | -10.0 | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.586  | -1.2  | 83    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.198  | -6.4  | 83    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.885  | 2.2   | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.407  | -4.8# | 83    | 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   | 48.990   | 2.0   | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.902   | -5.8  | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.119   | -10.2 | 84    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1102.449 | -10.2 | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.635   | -3.3  | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 280.328  | -12.1 | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.065   | -0.1# | 80    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.467   | 1.1   | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.230   | -2.5  | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.688   | -3.4  | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.964   | -5.9  | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.913   | -3.8  | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 271.061  | -8.4  | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 270.867  | -8.3  | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.413   | -6.8  | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.189   | -0.4  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.315   | -0.6  | 82    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 42.754   | 14.5  | 68    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.431   | 3.1   | 80    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.219   | -0.4  | 80    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.708   | -1.4# | 81    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.506   | 0.5   | 80    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.286   | -0.6  | 80    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.362   | -0.7  | 80    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.432   | -0.9  | 78    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 79    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.279   | -2.6  | 80    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.087   | -6.2  | 82    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.535   | -7.1  | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.982   | 2.0   | 85    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.798   | 4.4   | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.045   | -2.1  | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.458   | -0.9  | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.626   | -3.3  | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.624   | -1.2  | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.587   | 0.8   | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.467   | -2.9  | 82    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.458   | -2.9  | 81    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.329   | -0.7  | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.619   | -1.2  | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.637   | 4.7   | 79    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.877   | 0.2   | 77    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.271   | 3.5   | 77    | 0.00     |

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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 | 51.113 | -2.2 | 80    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.593 | 2.8  | 80    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.890 | -3.8 | 81    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.124 | 5.8  | 74    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.723 | 2.6  | 76    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.581 | 6.8  | 75    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.508 | 3.0  | 76    | 0.00     |

(#) = Out of Range

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