

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX050919\  
 Data File : VX009444.D  
 Acq On : 09 May 2019 22:01  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 10 08:21:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 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    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.553  | 0.9    | 80    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.766  | -3.5   | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 54.784  | -9.6#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.883  | 0.2    | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 56.535  | -13.1  | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.362  | -12.7  | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.875  | -7.8   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 55.179  | -10.4  | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.302  | 3.4    | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 279.891 | -12.0  | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 56.216  | -12.4# | 90    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 241.418 | 3.4    | 80    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.012  | -8.0   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 271.418 | -8.6   | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 252.174 | -0.9   | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 57.344  | -14.7  | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.847  | -1.7   | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.974  | -9.9   | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.254  | -6.5   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 56.481  | -13.0  | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.078  | -10.2  | 90    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 287.391 | -15.0  | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.423  | -8.8   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 273.066 | -9.2   | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.607  | 2.8    | 79    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.743  | -9.5   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.065  | 3.9    | 68    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 282.155 | -12.9  | 91    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.665  | -11.3# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 56.850  | -13.7  | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.357  | -10.7  | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.237  | -0.5   | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 79    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.554  | -3.1   | 81    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 56.605  | -13.2  | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 56.603  | -13.2  | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 56.381  | -12.8  | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.422  | -12.8  | 90    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 56.168  | -12.3  | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.464  | -8.9   | 90    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.973  | -11.9  | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 55.821  | -11.6  | 90    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.299  | -10.6  | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.528  | -11.1# | 90    | 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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 55.398   | -10.8  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.860   | -11.7  | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 57.185   | -14.4  | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1134.722 | -13.5  | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.891   | -1.8   | 79    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 283.370  | -13.3  | 91    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 56.498   | -13.0# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.447   | -10.9  | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.471   | -12.9  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.542   | -11.1  | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.865   | -13.7  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.945   | -11.9  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 257.515  | -3.0   | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 281.417  | -12.6  | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.954   | -13.9  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 56.609   | -13.2  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.806   | -3.6   | 80    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 79    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 57.372   | -14.7  | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 56.678   | -13.4  | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.683   | -13.4  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 57.202   | -14.4# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 115.118  | -15.1  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.131   | -14.3  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.866   | -15.7  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.175   | -14.3  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.033   | -8.1   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.518   | -11.0  | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.282   | -6.6   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.275   | -8.5   | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.685   | -7.4   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.429   | -8.9   | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.571   | -5.1   | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.003   | -10.0  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.701   | -5.4   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.018   | -8.0   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.076   | -8.2   | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.762   | -9.5   | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.447   | -6.9   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.706   | -9.4   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.823   | -7.6   | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.662   | -7.3   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.607   | -9.2   | 89    | 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 | 53.777 | -7.6  | 88    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.642 | -9.3  | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.907 | -9.8  | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 55.569 | -11.1 | 91    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.409 | -8.8  | 91    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 55.732 | -11.5 | 90    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 55.365 | -10.7 | 92    | 0.00     |

(#) = Out of Range

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