

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072619\  
 Data File : VX011132.D  
 Acq On : 27 Jul 2019 08:33  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 58 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 29 03:53:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 24 05:39:23 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    | 78    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.676  | 6.6    | 73    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.379  | 1.2    | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.135  | -2.3#  | 77    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.504  | 9.0    | 75    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.316  | -2.6   | 80    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.363  | -6.7   | 83    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.697  | -7.4   | 86    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.605  | 0.8    | 79    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.252  | 1.5    | 72    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 265.014 | -6.0   | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.677  | -3.4#  | 80    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 221.917 | 11.2   | 71    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.896  | 0.2    | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 273.543 | -9.4   | 87    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 241.163 | 3.5    | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.027  | 13.9   | 66    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 61.871  | -23.7# | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.447  | -8.9   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.586  | -3.2   | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.536  | -1.1   | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.146  | -8.3   | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 265.364 | -6.1   | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.312  | -6.6   | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 270.911 | -8.4   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 29.553  | 40.9#  | 47    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.906  | -3.8   | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.616  | -3.2   | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 276.296 | -10.5  | 87    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.637  | -7.3#  | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.074  | 1.9    | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.929  | -7.9   | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.855  | -5.7   | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.011  | -2.0   | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.194  | -0.4   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.180  | -6.4   | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.582  | -3.2   | 84    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 45.245  | 9.5    | 75    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.259  | -0.5   | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.972  | -3.9   | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.710  | -3.4   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.968  | -3.9   | 86    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.791  | 2.4    | 82    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.294  | -2.6#  | 86    | 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   | 52.166   | -4.3  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.114   | -6.2  | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.515   | -5.0  | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1038.070 | -3.8  | 87    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.685   | 0.6   | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 276.819  | -10.7 | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.557   | -1.1# | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.179   | 1.6   | 77    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.966   | 4.1   | 76    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.135   | -4.3  | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.783   | -9.6  | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.026   | -4.1  | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 268.126  | -7.3  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 276.727  | -10.7 | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.856   | 2.3   | 86    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.120   | -6.2  | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.721   | -5.4  | 85    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.201   | 5.6   | 82    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.745   | 0.5   | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.154   | -4.3  | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.728   | -1.5# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.712  | -1.7  | 85    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.482   | -3.0  | 86    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.596   | -7.2  | 87    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.444   | 5.1   | 85    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 84    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.322   | -0.6  | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.054   | -6.1  | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.307   | -4.6  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.188   | -6.4  | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.787   | 0.4   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.484   | -1.0  | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.257   | -0.5  | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.853   | -1.7  | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 39.645   | 20.7# | 70    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.222   | -0.4  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.587   | -3.2  | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.868   | -1.7  | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.383   | -2.8  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.946   | -1.9  | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.108   | -2.2  | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.444   | 1.1   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.442   | -0.9  | 83    | 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 | 52.598 | -5.2  | 87    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.403 | -2.8  | 88    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.097 | -10.2 | 91    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.775 | -3.5  | 86    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.745 | 2.5   | 83    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 57.142 | -14.3 | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.106 | -6.2  | 89    | 0.00     |

(#) = Out of Range

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