

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX120919\  
 Data File : VX013885.D  
 Acq On : 10 Dec 2019 09:12  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 10 10:17:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 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  | 45.457  | 9.1   | 72    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.145  | 5.7   | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.384  | 1.2#  | 78    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.700  | 10.6  | 78    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.814  | 4.4   | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.164  | 5.7   | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.305  | 3.4   | 80    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.195  | 1.6   | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.275  | 1.5   | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 199.882 | 20.0# | 70    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.113  | -0.2# | 83    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 227.612 | 9.0   | 73    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.692  | 8.6   | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 238.562 | 4.6   | 78    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 217.531 | 13.0  | 71    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.260  | 15.5  | 71    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.476  | -3.0  | 82    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.523  | 1.0   | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.097  | 3.8   | 82    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.579  | 4.8   | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.200  | -0.4  | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 230.415 | 7.8   | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.671  | 0.7   | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 227.289 | 9.1   | 72    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 30.060  | 39.9# | 50    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.679  | 4.6   | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.992  | -8.0  | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 239.645 | 4.1   | 76    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.980  | 4.0#  | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.570  | 8.9   | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.214  | 3.6   | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.186  | 5.6   | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.508  | 3.0   | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.021  | 6.0   | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.031  | 3.9   | 76    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.509  | 1.0   | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.243  | 11.5  | 74    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.373  | 5.3   | 80    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.400  | -0.8  | 80    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.787  | 2.4   | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.863  | 4.3   | 78    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.791  | 4.4   | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.121  | -0.2# | 83    | 0.00     |

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 Quant Title : SW846 8260  
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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   | 48.463  | 3.1   | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.326  | -0.7  | 82    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.618  | 0.8   | 79    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 811.058 | 18.9  | 67    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.592  | 6.8   | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 239.764 | 4.1   | 78    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.517  | 3.0#  | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.982  | 8.0   | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 46.830  | 6.3   | 75    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.047  | -0.1  | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.090  | 1.8   | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.564  | 2.9   | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 242.781 | 2.9   | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 233.035 | 6.8   | 75    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.844  | -1.7  | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.620  | 2.8   | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.238  | 3.5   | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 59.710  | -19.4 | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.570  | 4.9   | 81    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.011  | -0.0  | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.866  | 2.3#  | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 96.956  | 3.0   | 80    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.364  | 3.3   | 80    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.948  | 0.1   | 81    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.047  | -0.1  | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.975  | 2.0   | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.598  | 0.8   | 79    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.257  | 3.5   | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.217  | 3.6   | 78    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.504  | 5.0   | 80    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.721  | 0.6   | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.933  | 2.1   | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.850  | 0.3   | 81    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 40.001  | 20.0  | 64    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.892  | 2.2   | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.431  | 7.1   | 76    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.937  | 2.1   | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.893  | 0.2   | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.837  | 2.3   | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.926  | 4.1   | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.332  | 5.3   | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.180  | -0.4  | 81    | 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 | 50.574 | -1.1 | 84    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.729 | 2.5  | 81    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.010 | 6.0  | 75    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.043 | 3.9  | 80    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.957 | 6.1  | 84    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.537 | 0.9  | 78    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.247 | 3.5  | 81    | 0.00     |

(#) = Out of Range

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