

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\WX110419\  
 Data File : VX013319.D  
 Acq On : 04 Nov 2019 11:48  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 05 00:39:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 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   | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.469  | 3.1   | 99    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.958  | 4.1   | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.859  | 4.3#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.577  | 14.8  | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.366  | 9.3   | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.596  | 10.8  | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.201  | 5.6   | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.823  | 2.4   | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.664  | 4.7   | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 216.743 | 13.3  | 99    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.945  | 2.1#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 226.343 | 9.5   | 93    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.971  | -1.9  | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 251.417 | -0.6  | 102   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 246.765 | 1.3   | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.031  | -0.1  | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.579  | -1.2  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.289  | -2.6  | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.221  | 5.6   | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.025  | 4.0   | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.663  | -3.3  | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 259.376 | -3.8  | 105   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.067  | 1.9   | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 249.805 | 0.1   | 101   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.018  | -2.0  | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.626  | 0.7   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.486  | -7.0  | 111   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 253.311 | -1.3  | 100   | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 49.040  | 1.9#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.128  | 1.7   | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.151  | 3.7   | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.699  | 4.6   | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.005  | 2.0   | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.775  | -1.5  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.468  | -0.9  | 101   | -0.01    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.031  | -2.1  | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.190  | -2.4  | 107   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.128  | 1.7   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.949  | 0.1   | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.898  | 0.2   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.670  | -5.3  | 104   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.349  | 3.3   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.162  | -2.3# | 105   | 0.00     |

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 VSTDCCC050

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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   | 50.188  | -0.4  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.455  | -4.9  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.320  | -4.6  | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 968.387 | 3.2   | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.499  | 1.0   | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 255.803 | -2.3  | 101   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.003  | -0.0# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.083  | -10.2 | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.760  | -7.5  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.157  | -2.3  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.342  | 1.3   | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.132  | -0.3  | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 261.646 | -4.7  | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 258.840 | -3.5  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.974  | -7.9  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.936  | -1.9  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.834  | 0.3   | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.993  | 4.0   | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.752  | 2.5   | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.561  | -1.1  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.023  | -0.0# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.739 | -0.7  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.740  | 0.5   | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.862  | -3.7  | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.704  | 4.6   | 108   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.457  | -0.9  | 102   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.603  | -7.2  | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.414  | 1.2   | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.999  | 2.0   | 106   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.158  | -0.3  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.237  | -4.5  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.288  | -0.6  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.660  | -3.3  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.970  | -5.9  | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.130  | -0.3  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.192  | -4.4  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.981  | -4.0  | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.500  | -3.0  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.586  | -5.2  | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.149  | -0.3  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.235  | 1.5   | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.746  | -5.5  | 103   | 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 | 53.061 | -6.1 | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.230 | -0.5 | 103   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.410 | 9.2  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.634 | -3.3 | 105   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.266 | -2.5 | 107   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.048 | -4.1 | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.508 | -3.0 | 103   | 0.00     |

(#) = Out of Range

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