

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX112019\  
 Data File : VX013490.D  
 Acq On : 20 Nov 2019 20:14  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 21 04:54:57 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    | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.196  | 7.6    | 75    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.744  | 6.5    | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.610  | 0.8#   | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.677  | 6.6    | 80    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.935  | 2.1    | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.326  | 3.3    | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.104  | -4.2   | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.032  | -6.1   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.486  | 7.0    | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 235.560 | 5.8    | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.821  | -5.6#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 236.544 | 5.4    | 78    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.055  | -8.1   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 281.613 | -12.6  | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 308.062 | -23.2# | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.102  | 5.8    | 78    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.818  | -19.6  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 58.544  | -17.1  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.975  | -4.0   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.500  | -5.0   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 57.070  | -14.1  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 222.204 | 11.1   | 72    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.608  | -11.2  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 288.257 | -15.3  | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 54.112  | -8.2   | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 56.254  | -12.5  | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.659  | -9.3   | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 277.913 | -11.2  | 88    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.532  | -11.1# | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.211  | -2.4   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.860  | -11.7  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.213  | 5.6    | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.435  | 3.1    | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.609  | -7.2   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.395  | -8.8   | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.181  | -10.4  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.361  | -2.7   | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.060  | -8.1   | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.377  | -8.8   | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.810  | -7.6   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 57.169  | -14.3  | 93    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 56.140  | -12.3  | 97    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 56.810  | -13.6# | 95    | 0.00     |

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Instrument :  
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 LabSampleId :  
 VSTDCCC050

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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   | 53.544  | -7.1   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 58.601  | -17.2  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 56.893  | -13.8  | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 959.208 | 4.1    | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.078  | 3.8    | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 278.333 | -11.3  | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.758  | -11.5# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 58.267  | -16.5  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 57.741  | -15.5  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.846  | -13.7  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.196  | -8.4   | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.575  | -11.2  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 258.320 | -3.3   | 82    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 284.769 | -13.9  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 59.513  | -19.0  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.470  | -10.9  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.941  | 4.1    | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 85.680  | -71.4# | 144   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 55.625  | -11.3  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 58.569  | -17.1  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 56.558  | -13.1# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 113.563 | -13.6  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.807  | -15.6  | 94    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 59.013  | -18.0  | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.819  | -7.6   | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 59.089  | -18.2  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 60.044  | -20.1# | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 55.155  | -10.3  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.973  | -7.9   | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 58.140  | -16.3  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 59.222  | -18.4  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 57.988  | -16.0  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 58.562  | -17.1  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 58.907  | -17.8  | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 56.829  | -13.7  | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.686  | -3.4   | 80    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 61.360  | -22.7# | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 59.605  | -19.2  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 59.526  | -19.1  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 57.203  | -14.4  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 55.644  | -11.3  | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 57.615  | -15.2  | 88    | 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 | 59.938 | -19.9 | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 57.707 | -15.4 | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.106 | -6.2  | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 56.548 | -13.1 | 90    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.735 | -7.5  | 88    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 58.369 | -16.7 | 87    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 58.667 | -17.3 | 92    | 0.00     |

(#) = Out of Range

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