

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051019\  
 Data File : VX009511.D  
 Acq On : 11 May 2019 03:04  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 11 04:41:39 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   | 78    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.024  | 4.0   | 77    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.740  | -3.5  | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 53.612  | -7.2# | 85    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.891  | -1.8  | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.524  | -5.0  | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.886  | -7.8  | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.389  | -6.8  | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.633  | -3.3  | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 55.111  | -10.2 | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 276.486 | -10.6 | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.995  | -8.0# | 85    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 256.332 | -2.5  | 83    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.290  | -2.6  | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 270.230 | -8.1  | 89    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 248.151 | 0.7   | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 54.513  | -9.0  | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.882  | -3.8  | 87    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.918  | -7.8  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.442  | -4.9  | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.270  | -6.5  | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.065  | -8.1  | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 281.322 | -12.5 | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.862  | -5.7  | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 271.289 | -8.5  | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 37.678  | 24.6# | 60    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.931  | -7.9  | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.649  | 0.7   | 69    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 283.177 | -13.3 | 90    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.382  | -8.8# | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 54.712  | -9.4  | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.807  | -7.6  | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.973  | 0.1   | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 79    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.462  | 1.1   | 78    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.539  | -5.1  | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.480  | -11.0 | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.290  | -6.6  | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.747  | -3.5  | 83    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.557  | -7.1  | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.519  | -7.0  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.835  | -7.7  | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.470  | -8.9  | 88    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.888  | -3.8  | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.182  | -6.4# | 86    | 0.00     |

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Instrument :  
 MSVOA\_X  
 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   | 52.952   | -5.9  | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.337   | -6.7  | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.911   | -11.8 | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1077.296 | -7.7  | 90    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.716   | 2.6   | 76    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 279.712  | -11.9 | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.350   | -6.7# | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.713   | -3.4  | 81    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.597   | -5.2  | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.443   | -6.9  | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.694   | -9.4  | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.293   | -6.6  | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 243.483  | 2.6   | 75    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 277.410  | -11.0 | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.803   | -9.6  | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.486   | -9.0  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.472   | 1.1   | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.119   | -10.2 | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.283   | -6.6  | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.056   | -8.1  | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.759   | -7.5# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.563  | -7.6  | 86    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.826   | -7.7  | 88    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.651   | -9.3  | 87    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.951   | -9.9  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.647   | -3.3  | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.250   | -8.5  | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.798   | -5.6  | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.076   | -6.2  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.277   | -4.6  | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.980   | -4.0  | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.694   | -1.4  | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.235   | -4.5  | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.931   | 4.1   | 77    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.763   | -3.5  | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.688   | -3.4  | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.698   | -5.4  | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.846   | -3.7  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.401   | -4.8  | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.812   | -3.6  | 87    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.824   | -3.6  | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.995   | -2.0  | 82    | 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 | 51.970 | -3.9 | 84    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.240 | -4.5 | 88    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.900 | -5.8 | 85    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.530 | -5.1 | 85    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.228 | -2.5 | 85    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.581 | -7.2 | 86    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.088 | -6.2 | 87    | 0.00     |

(#) = Out of Range

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