

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX102419\  
 Data File : VX013198.D  
 Acq On : 23 Oct 2019 19:41  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 24 04:26:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102419W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 24 03:56:38 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  | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.978  | 10.0 | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.079  | 1.8  | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.553  | 6.9# | 95    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.822  | 10.4 | 97    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.998  | -4.0 | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.007  | 4.0  | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.442  | 3.1  | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.537  | 8.9  | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.492  | 5.0  | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 245.647 | 1.7  | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.436  | 5.1# | 96    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 235.679 | 5.7  | 94    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.331  | 5.3  | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 247.626 | 0.9  | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 211.117 | 15.6 | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.634  | 8.7  | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.090  | -2.2 | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.581  | 2.8  | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.079  | -0.2 | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.024  | 2.0  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.568  | 2.9  | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 250.867 | -0.3 | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.015  | 4.0  | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 233.649 | 6.5  | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.151  | 11.7 | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.737  | 4.5  | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.493  | -7.0 | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 240.000 | 4.0  | 100   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.046  | 3.9# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.500  | 5.0  | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.570  | 2.9  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.578  | 0.8  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.446  | -0.9 | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.994  | 2.0  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.196  | -0.4 | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.085  | 5.8  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 45.445  | 9.1  | 89    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.313  | 3.4  | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.621  | -1.2 | 99    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.401  | -0.8 | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.679  | -1.4 | 100   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.201  | 5.6  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.246  | 3.5# | 99    | 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   | 48.396  | 3.2  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.651  | 0.7  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.800  | 0.4  | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 927.885 | 7.2  | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.168  | -0.3 | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 246.586 | 1.4  | 99    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.001  | 6.0# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.977  | -2.0 | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.825  | -1.7 | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.942  | 2.1  | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.422  | -4.8 | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.306  | 3.4  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 272.504 | -9.0 | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 248.030 | 0.8  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.238  | -2.5 | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.696  | 0.6  | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.797  | 0.4  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.270  | -4.5 | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.029  | 5.9  | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.283  | 1.4  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.360  | 3.3# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 94.772  | 5.2  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.265  | 3.5  | 96    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.662  | 2.7  | 94    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.519  | -3.0 | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.524  | 5.0  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.779  | -1.6 | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.774  | 0.5  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.072  | 9.9  | 96    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.623  | 4.8  | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 45.284  | 9.4  | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.773  | 6.5  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.643  | 2.7  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.402  | -2.8 | 96    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.120  | 1.8  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.630  | 4.7  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.982  | 2.0  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.151  | 7.7  | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.611  | 4.8  | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.638  | 4.7  | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.295  | 9.4  | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.467  | 3.1  | 89    | 0.00     |

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|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 47.964 | 4.1  | 88    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.056 | 3.9  | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.260 | -0.5 | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.912 | 4.2  | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 45.336 | 9.3  | 85    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.578 | -5.2 | 97    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.446 | 3.1  | 92    | 0.00     |

(#) = Out of Range

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