

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX041919\  
 Data File : VX009082.D  
 Acq On : 19 Apr 2019 19:48  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 20 02:26:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 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   | 81    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.643  | -1.3  | 82    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.334  | 7.3   | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.412  | 1.2#  | 84    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.692  | 14.6  | 79    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.310  | -2.6  | 86    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.589  | -1.2  | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.463  | -2.9  | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.734  | -1.5  | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 38.180  | 23.6# | 63    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 272.581 | -9.0  | 93    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.202  | 3.6#  | 84    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 238.887 | 4.4   | 78    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.934  | -7.9  | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 277.556 | -11.0 | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 265.867 | -6.3  | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.440  | 9.1   | 78    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 57.664  | -15.3 | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.864  | -7.7  | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.058  | -0.1  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.596  | 0.8   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.808  | -9.6  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 280.269 | -12.1 | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.183  | -6.4  | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 281.277 | -12.5 | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.280  | 5.4   | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.412  | -2.8  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.323  | -12.6 | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 279.911 | -12.0 | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.761  | -7.5# | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.720  | -1.4  | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.521  | -5.0  | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.322  | -6.6  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.663  | -3.3  | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.745  | 4.5   | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.524  | -11.0 | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.561  | -1.1  | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.665  | 4.7   | 84    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.955  | 0.1   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.507  | -7.0  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.426  | -2.9  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.715  | -7.4  | 93    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.221  | 5.6   | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.568  | -5.1# | 92    | 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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 50.464  | -0.9  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.218  | -4.4  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.595  | -7.2  | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 934.681 | 6.5   | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.118  | -0.2  | 87    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 270.296 | -8.1  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.559  | 2.9#  | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.432  | -2.9  | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.098  | -2.2  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.644  | -3.3  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.056  | -4.1  | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.681  | -3.4  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 258.011 | -3.2  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 265.540 | -6.2  | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.354  | -4.7  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.462  | -0.9  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.123  | -0.2  | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 82    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.597  | 4.8   | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.739  | 0.5   | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.847  | -5.7  | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.227  | -0.5# | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.390 | -0.4  | 86    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.366  | -0.7  | 87    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.632  | -1.3  | 86    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.141  | -4.3  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.023  | -4.0  | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.439  | -8.9  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.123  | -6.2  | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.804  | -3.6  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.967  | 2.1   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.770  | -3.5  | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.698  | -1.4  | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.263  | -2.5  | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.409  | -2.8  | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.537  | -1.1  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.525  | -5.0  | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.741  | -1.5  | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.895  | -3.8  | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.676  | -1.4  | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.791  | 0.4   | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.016  | 2.0   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.915  | -1.8  | 84    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.418 | -4.8 | 85    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.351 | -0.7 | 87    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.299 | -6.6 | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.317 | -0.6 | 86    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.917 | 0.2  | 85    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.780 | -5.6 | 90    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.261 | -2.5 | 89    | 0.00     |

(#) = Out of Range

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