

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX061518\  
 Data File : VX002650.D  
 Acq On : 16 Jun 2018 16:00  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 61 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 18 08:11:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:37:33 2018  
 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    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 36.945  | 26.1#  | 62    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.085  | 9.8    | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.672  | 8.7#   | 75    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.372  | 17.3   | 75    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.874  | -7.7   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.122  | 11.8   | 70    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.108  | -8.2   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 39.597  | 20.8#  | 63    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 37.842  | 24.3#  | 62    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 284.083 | -13.6  | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.021  | 6.0#   | 77    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 236.357 | 5.5    | 80    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.908  | 2.2    | 80    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 283.819 | -13.5  | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 274.734 | -9.9   | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.046  | -4.1   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 57.200  | -14.4  | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.342  | -10.7  | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.559  | 0.9    | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.365  | -2.7   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.405  | -6.8   | 90    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 273.350 | -9.3   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.075  | -2.2   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 286.295 | -14.5  | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 26.818  | 46.4#  | 43    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.031  | -8.1   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 57.266  | -14.5  | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 287.456 | -15.0  | 95    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.746  | -11.5# | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.010  | 16.0   | 67    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.523  | -7.0   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.326  | -8.7   | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.690  | -5.4   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 44.498  | 11.0   | 78    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.606  | -5.2   | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.040  | 3.9    | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 36.481  | 27.0#  | 61    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.597  | 0.8    | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.958  | -5.9   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.378  | -2.8   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.748  | -3.5   | 91    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.106  | 3.8    | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.639  | -1.3#  | 90    | 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   | 53.404   | -6.8  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.249   | -10.5 | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.797   | -5.6  | 94    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1125.228 | -12.5 | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.077   | -0.2  | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 268.357  | -7.3  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.768   | 0.5#  | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 44.563   | 10.9  | 81    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 43.272   | 13.5  | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.589   | -5.2  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.527   | -7.1  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.315   | -2.6  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 262.610  | -5.0  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 270.828  | -8.3  | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.684   | 2.6   | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.703   | -9.4  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.278   | -2.6  | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 43.380   | 13.2  | 77    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.354   | -0.7  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.006   | -8.0  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.683   | 2.6#  | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.920   | 2.1   | 86    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.045   | -0.1  | 89    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.808   | -3.6  | 89    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.514   | 5.0   | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.213   | 5.6   | 83    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.284   | 1.4   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.936   | -7.9  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.027   | -4.1  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.568   | -1.1  | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.299   | 7.4   | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.243   | 3.5   | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.297   | 3.4   | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 33.527   | 32.9# | 63    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.620   | 2.8   | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.355   | 3.3   | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.250   | 1.5   | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 45.700   | 8.6   | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 46.083   | 7.8   | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.972   | 2.1   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.062   | 1.9   | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 43.530   | 12.9  | 75    | 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 | 43.672 | 12.7  | 82    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.368 | -4.7  | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 58.063 | -16.1 | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.153 | 1.7   | 85    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 40.936 | 18.1  | 70    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.741 | -9.5  | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.286 | -2.6  | 90    | 0.00     |

(#) = Out of Range

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