

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX061318\  
 Data File : VX002524.D  
 Acq On : 13 Jun 2018 22:41  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 14 03:43:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 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    | 67    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.002  | 14.0   | 56    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.547  | 10.9   | 58    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.953  | 8.1#   | 62    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.390  | 1.2    | 65    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.523  | 1.0    | 69    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.993  | -8.0   | 71    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 57.627  | -15.3  | 74    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 56.094  | -12.2  | 72    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.875  | 8.3    | 59    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 304.792 | -21.9# | 76    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.878  | 0.2#   | 69    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 173.505 | 30.6#  | 46    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.586  | 4.8    | 68    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 307.994 | -23.2# | 78    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 286.676 | -14.7  | 70    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.047  | 19.9   | 55    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 64.239  | -28.5# | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 58.934  | -17.9  | 75    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.850  | -13.7  | 73    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.878  | 0.2    | 71    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.433  | -2.9   | 67    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 227.515 | 9.0    | 66    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 43.917  | 12.2   | 62    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 237.982 | 4.8    | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 37.698  | 24.6#  | 53    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.802  | 6.4    | 68    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.636  | -9.3   | 66    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 242.369 | 3.1    | 69    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.115  | 1.8#   | 70    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.512  | 9.0    | 59    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.480  | 3.0    | 65    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.117  | 1.8    | 64    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 66    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.007  | 2.0    | 66    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.773  | 2.5    | 65    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.429  | -0.9   | 69    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.445  | 1.1    | 64    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.776  | 10.4   | 60    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.301  | 3.4    | 66    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.921  | 0.2    | 69    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.552  | 0.9    | 69    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.698  | 2.6    | 67    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.556  | 0.9    | 65    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.600  | 2.8#   | 67    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 14 03:43:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 49.176   | 1.6   | 70    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.735   | -1.5  | 67    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.907   | 0.2   | 68    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1051.252 | -5.1  | 71    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.884   | 4.2   | 63    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 265.318  | -6.1  | 72    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.033   | -0.1# | 67    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.487   | 3.0   | 63    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.830   | 4.3   | 62    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.798   | -3.6  | 71    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.733   | -1.5  | 70    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.829   | -1.7  | 70    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 258.600  | -3.4  | 69    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 263.088  | -5.2  | 70    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.034   | -6.1  | 68    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.385   | -4.8  | 70    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.274   | 3.5   | 64    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 69    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.848   | 4.3   | 65    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.691   | 2.6   | 69    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.568   | 0.9   | 69    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.872   | 0.3#  | 68    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.541   | 0.5   | 68    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.330   | 1.3   | 68    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.771   | -3.5  | 70    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 43.726   | 12.5  | 66    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 72    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.308   | 5.4   | 69    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 42.576   | 14.8  | 67    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.198   | 5.6   | 74    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.167   | 7.7   | 70    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.296   | 7.4   | 70    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.754   | 2.5   | 68    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.903   | 8.2   | 69    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.907   | 4.2   | 70    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 40.453   | 19.1  | 58    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.573   | 4.9   | 69    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.607   | 4.8   | 69    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.427   | 5.1   | 69    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.036   | -0.1  | 69    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.665   | 0.7   | 69    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.195   | 3.6   | 71    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.910   | 4.2   | 73    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.666   | -3.3  | 68    | 0.00     |

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Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Jun 14 03:43:52 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 45.595 | 8.8  | 64    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.964 | 4.1  | 72    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.795 | 2.4  | 69    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.625 | 0.8  | 71    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.901 | -5.8 | 71    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.563 | 0.9  | 71    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.252 | -0.5 | 72    | 0.00     |

(#) = Out of Range

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