

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX100418\  
 Data File : VX005043.D  
 Acq On : 05 Oct 2018 02:43  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 80 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 05 05:25:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 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    | 71    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 53.850  | -7.7   | 65    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.415  | -0.8   | 67    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 53.586  | -7.2#  | 71    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 63.178  | -26.4# | 86    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 57.172  | -14.3  | 75    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.973  | -11.9  | 71    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.295  | -6.6   | 78    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.385  | -6.8   | 78    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.918  | 8.2    | 55    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 279.200 | -11.7  | 78    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.672  | -5.3#  | 77    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 67.012  | 73.2#  | 19    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.956  | -9.9   | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 282.979 | -13.2  | 76    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 261.760 | -4.7   | 71    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.573  | 4.9    | 65    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 66.467  | -32.9# | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 58.740  | -17.5  | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.696  | -13.4  | 70    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.301  | -2.6   | 70    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 56.007  | -12.0  | 77    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 262.782 | -5.1   | 69    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.034  | -6.1   | 72    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 266.997 | -6.8   | 73    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 39.045  | 21.9#  | 55    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.068  | -4.1   | 71    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.499  | 1.0    | 72    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 280.582 | -12.2  | 74    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.823  | -3.6#  | 76    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 53.466  | -6.9   | 68    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.972  | -5.9   | 74    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.820  | -7.6   | 71    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 73    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 46.436  | 7.1    | 65    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.810  | 4.4    | 72    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.441  | 1.1    | 72    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.459  | 7.1    | 70    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.647  | -3.3   | 77    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.544  | 2.9    | 74    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.330  | -2.7   | 72    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.180  | -0.4   | 76    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.209  | -4.4   | 71    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.994  | -2.0   | 82    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.407  | -6.8#  | 84    | 0.00     |

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 ALS Vial : 80 Sample Multiplier: 1

Instrument :  
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 LabSampleId :  
 VSTDCCC050

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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   | 53.873   | -7.7   | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.001   | -10.0  | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 60.261   | -20.5# | 87    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1074.420 | -7.4   | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.478   | -5.0   | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 299.750  | -19.9  | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.798   | -7.6#  | 79    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.577   | -5.2   | 73    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.540   | -9.1   | 81    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.375   | -4.8   | 77    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.364   | -2.7   | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.872   | -5.7   | 75    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 266.000  | -6.4   | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 284.947  | -14.0  | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.020   | -8.0   | 72    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.966   | -1.9   | 70    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.725   | -9.5   | 85    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 78    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.653   | -1.3   | 78    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.470   | 1.1    | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.466   | -2.9   | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.265   | -4.5#  | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.294  | -4.3   | 79    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.439   | -10.9  | 85    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.561   | -1.1   | 85    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.308   | -6.6   | 82    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.597   | -11.2  | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.765   | -1.5   | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.474   | -0.9   | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.003   | -6.0   | 87    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.543   | -5.1   | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.108   | -10.2  | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.471   | -8.9   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.799   | -3.6   | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 41.642   | 16.7   | 75    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.222   | -8.4   | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 56.367   | -12.7  | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.269   | -4.5   | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.798   | -9.6   | 84    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.540   | -9.1   | 84    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.521   | -3.0   | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.703   | -1.4   | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.699   | -5.4   | 82    | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.258 | -4.5 | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.304 | -0.6 | 85    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.915 | -7.8 | 91    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.955 | -5.9 | 85    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.048 | 5.9  | 82    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.361 | -4.7 | 87    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.680 | -5.4 | 85    | 0.00     |

(#) = Out of Range

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