

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX120518\  
 Data File : VX006290.D  
 Acq On : 05 Dec 2018 10:20  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 06 00:23:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 30 03:55:33 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 55.319  | -10.6 | 97    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.749  | 4.5   | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.919  | 2.2#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.712  | 10.6  | 90    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.550  | -1.1  | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.771  | -1.5  | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.830  | 0.3   | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.326  | -4.7  | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 39.333  | 21.3# | 72    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 219.633 | 12.1  | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.991  | 0.0#  | 97    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 228.813 | 8.5   | 89    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.952  | 6.1   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 233.679 | 6.5   | 88    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 220.029 | 12.0  | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.345  | 7.3   | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.233  | 3.5   | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.794  | 2.4   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.714  | 4.6   | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.711  | 0.6   | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.322  | -2.6  | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 251.022 | -0.4  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.072  | -6.1  | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 235.809 | 5.7   | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.916  | -5.8  | 103   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.539  | -5.1  | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.430  | -6.9  | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 236.328 | 5.5   | 90    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.708  | -3.4# | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.660  | -1.3  | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.544  | -3.1  | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.881  | -3.8  | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.473  | -6.9  | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.708  | -5.4  | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.745  | 4.5   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.132  | -4.3  | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.024  | -8.0  | 103   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.224  | -4.4  | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.264  | 3.5   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.190  | -4.4  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.498  | 3.0   | 93    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.730  | -5.5  | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.032  | -2.1# | 98    | 0.00     |

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Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Fri Nov 30 03:55:33 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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 51.923  | -3.8  | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.734  | -5.5  | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.599  | 2.8   | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 968.789 | 3.1   | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.778  | -3.6  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 240.375 | 3.9   | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.152  | -2.3# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.281  | -0.6  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.225  | -2.5  | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.957  | -3.9  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.911  | 0.2   | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.760  | -3.5  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 250.551 | -0.2  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 234.040 | 6.4   | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.180  | -2.4  | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.712  | -1.4  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.698  | -3.4  | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.774  | -5.5  | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.311  | -6.6  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.279  | -4.6  | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.298  | -6.6# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.355 | -6.4  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.550  | -5.1  | 96    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.889  | -5.8  | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.285  | -0.6  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.351  | -8.7  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.427  | 3.1   | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.825  | -1.7  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.153  | -10.3 | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.633  | -5.3  | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.001  | -10.0 | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.449  | -6.9  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.900  | -7.8  | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.498  | 1.0   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.580  | -7.2  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.722  | -7.4  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.617  | -7.2  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 55.456  | -10.9 | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.318  | -10.6 | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.393  | -6.8  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.637  | -5.3  | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.939  | -11.9 | 101   | 0.00     |

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Quant Title : SW846 8260  
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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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.556 | -7.1  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.079 | -4.2  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.739 | 6.5   | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.404 | -6.8  | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 57.735 | -15.5 | 103   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.852 | -3.7  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.880 | -5.8  | 96    | 0.00     |

(#) = Out of Range

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