

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX111318\  
 Data File : VX005965.D  
 Acq On : 13 Nov 2018 22:34  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 14 04:52:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X110718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 07 14:40:53 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    | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.267  | -0.5   | 83    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.704  | 8.6    | 79    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.362  | -0.7#  | 82    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.342  | 15.3   | 72    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.934  | 6.1    | 79    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.387  | 1.2    | 81    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.246  | 1.5    | 86    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.084  | 3.8    | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.426  | 5.1    | 74    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 239.709 | 4.1    | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.104  | 9.8#   | 77    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 305.515 | -22.2# | 109   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.469  | 5.1    | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 257.685 | -3.1   | 84    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 247.462 | 1.0    | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.446  | 9.1    | 75    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 56.065  | -12.1  | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.322  | -2.6   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.288  | 3.4    | 85    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.001  | 6.0    | 77    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.354  | 1.3    | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 256.658 | -2.7   | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.629  | 0.7    | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 264.682 | -5.9   | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.699  | 10.6   | 73    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.954  | 2.1    | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.243  | -12.5  | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 254.177 | -1.7   | 79    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.466  | 3.1#   | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.150  | -0.3   | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.228  | -6.5   | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.729  | -9.5   | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 80    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.902  | -7.8   | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.561  | -3.1   | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.148  | -4.3   | 81    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.613  | -7.2   | 84    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.002  | -8.0   | 82    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.413  | -10.8  | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.424  | -8.8   | 84    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.927  | -9.9   | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.913  | -5.8   | 80    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.532  | -5.1   | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.420  | -10.8# | 89    | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Wed Nov 07 14:40:53 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   | 57.850   | -15.7  | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 59.856   | -19.7  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 60.508   | -21.0# | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1180.292 | -18.0  | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 57.476   | -15.0  | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 294.080  | -17.6  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 57.346   | -14.7# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.129   | -8.3   | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 58.537   | -17.1  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.995   | -4.0   | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.613   | -7.2   | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.486   | -5.0   | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 279.862  | -11.9  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 267.501  | -7.0   | 80    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.974   | -1.9   | 76    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.285   | 1.4    | 78    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 61.674   | -23.3# | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.730   | 0.5    | 74    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.683   | -1.4   | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.690   | -9.4   | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.126   | -10.3# | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 111.784  | -11.8  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 60.155   | -20.3# | 94    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 61.267   | -22.5# | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.198   | -14.4  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.862   | -9.7   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.752   | 0.5    | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.694   | -5.4   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.985   | -6.0   | 94    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.074   | -2.1   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.080   | -8.2   | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.341   | -6.7   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.553   | -11.1  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.858   | -1.7   | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.989   | -8.0   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.710   | -5.4   | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.108   | -4.2   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.468   | -6.9   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.455   | -8.9   | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.373   | 1.3    | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.039   | 1.9    | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.281   | -2.6   | 90    | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.226 | -2.5 | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.586 | 0.8  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.865 | -3.7 | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.353 | -0.7 | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.704 | 6.6  | 85    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.136 | 3.7  | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.675 | -1.3 | 88    | 0.00     |

(#) = Out of Range

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