

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW110518\  
 Data File : VW006653.D  
 Acq On : 05 Nov 2018 23:52  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 06 03:30:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 01 03:48:08 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    | 73    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 52.613  | -5.2   | 83    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.304  | -0.6   | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.990  | -6.0#  | 81    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.562  | -7.1   | 82    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.017  | -6.0   | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.932  | -5.9   | 81    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.466  | -2.9   | 79    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.734  | -7.5   | 81    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.660  | 0.7    | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 260.742 | -4.3   | 81    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.224  | -4.4#  | 79    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 240.967 | 3.6    | 74    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.270  | -4.5   | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 270.509 | -8.2   | 82    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 256.674 | -2.7   | 79    | -0.01    |
| 17 T  | Carbon Disulfide            | 50.000  | 53.091  | -6.2   | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.611  | -7.2   | 83    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.593  | -3.2   | 78    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.748  | -5.5   | 75    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.973  | -7.9   | 81    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.755  | -7.5   | 80    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 274.269 | -9.7   | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.324  | -6.6   | 80    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 266.023 | -6.4   | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.849  | -5.7   | 82    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.004  | -6.0   | 79    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.842  | -5.7   | 78    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 268.913 | -7.6   | 80    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.831  | -7.7#  | 80    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.247  | 1.5    | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.842  | -7.7   | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.727  | 0.5    | 72    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 71    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.706  | -3.4   | 74    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.129  | -8.3   | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.944  | -9.9   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.277  | -10.6  | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.711  | -7.4   | 79    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.281  | -10.6  | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.627  | -3.3   | 78    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.982  | -8.0   | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.777  | -9.6   | 81    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.135  | -8.3   | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.144  | -10.3# | 81    | 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   | 55.619   | -11.2 | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 57.202   | -14.4 | 82    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.202   | -10.4 | 79    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1108.988 | -10.9 | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.340   | -2.7  | 72    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 279.986  | -12.0 | 82    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.473   | -8.9# | 80    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.044   | -14.1 | 80    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.334   | -12.7 | 81    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.447   | -10.9 | 82    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.819   | -11.6 | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.300   | -10.6 | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 262.295  | -4.9  | 78    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 281.753  | -12.7 | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 58.116   | -16.2 | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.013   | -10.0 | 80    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.962   | -3.9  | 73    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 72    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.689   | -5.4  | 78    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.993   | -8.0  | 80    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.229   | -12.5 | 81    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.555   | -9.1# | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 110.920  | -10.9 | 81    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.663   | -11.3 | 80    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.453   | -12.9 | 80    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.651   | -17.3 | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 74    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.466   | -4.9  | 80    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.282   | -6.6  | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.066   | -8.1  | 84    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.262   | 11.5  | 67    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.788   | -5.6  | 81    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.742   | -7.5  | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.126   | -6.3  | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.145   | -8.3  | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.302   | -4.6  | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.485   | -7.0  | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.371   | -6.7  | 81    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.012   | -8.0  | 81    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.019   | -8.0  | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.431   | -8.9  | 82    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.201   | -8.4  | 83    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.864   | -7.7  | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.046   | -10.1 | 83    | 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 | 56.624 | -13.2 | 83    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.856 | -7.7  | 83    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.347 | -4.7  | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.939 | -7.9  | 82    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.441 | -8.9  | 84    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.613 | -9.2  | 81    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.510 | -9.0  | 83    | 0.00     |

(#) = Out of Range

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