

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW031219\  
 Data File : VW009134.D  
 Acq On : 13 Mar 2019 03:36  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 13 07:06:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 05:22:30 2019  
 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   | 79    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.894  | 18.2  | 72    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.612  | 0.8   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.621  | 8.8#  | 77    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 59.379  | -18.8 | 112   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.617  | -3.2  | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.212  | 9.6   | 76    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.858  | -7.7  | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 44.586  | 10.8  | 77    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.590  | 8.8   | 73    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 261.549 | -4.6  | 91    | 0.04     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.828  | 8.3#  | 76    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 239.814 | 4.1   | 86    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.262  | 1.5   | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 290.656 | -16.3 | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 245.629 | 1.7   | 78    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.576  | 8.8   | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.233  | -18.5 | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.005  | -12.0 | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 54.584  | -9.2  | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.271  | 1.5   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.627  | -11.3 | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 274.197 | -9.7  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.977  | -4.0  | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 272.099 | -8.8  | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 43.515  | 13.0  | 75    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.717  | -1.4  | 85    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 57.161  | -14.3 | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 289.090 | -15.6 | 100   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.132  | -4.3# | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.432  | 15.1  | 75    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.120  | 1.8   | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 56.982  | -14.0 | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.555  | -3.1  | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 44.893  | 10.2  | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.791  | -3.6  | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 45.100  | 9.8   | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.557  | 10.9  | 77    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.349  | 1.3   | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 58.858  | -17.7 | 111   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.837  | -3.7  | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 55.449  | -10.9 | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.433  | 7.1   | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.297  | -2.6# | 92    | 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   | 52.048   | -4.1  | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.234   | -2.5  | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.727   | -11.5 | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1160.305 | -16.0 | 99    | 0.01     |
| 50 S  | Toluene-d8                  | 50.000   | 53.094   | -6.2  | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 291.210  | -16.5 | 102   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.042   | -2.1# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.826   | -3.7  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.962   | 0.1   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.852   | -5.7  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 58.250   | -16.5 | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.495   | -7.0  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 277.620  | -11.0 | 103   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 292.191  | -16.9 | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.286   | -6.6  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.371   | -4.7  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.519   | -5.0  | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.034   | -4.1  | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.146   | -0.3  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.515   | -3.0  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.212   | -0.4# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.432   | 0.6   | 85    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.479   | -1.0  | 87    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.200   | -4.4  | 88    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.214   | -10.4 | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.724   | 0.6   | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 57.540   | -15.1 | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.609   | -9.2  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 56.951   | -13.9 | 98    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.464   | -2.9  | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.297   | 1.4   | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.035   | -2.1  | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.176   | -0.4  | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.105   | -4.2  | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.227   | -0.5  | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.156   | -6.3  | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.907   | -1.8  | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.350   | 1.3   | 83    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.922   | 2.2   | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.016   | -0.0  | 87    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.049   | -0.1  | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.390   | 3.2   | 80    | 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 | 51.721 | -3.4   | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.912 | -3.8   | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 60.088 | -20.2# | 105   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.756 | 0.5    | 84    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.936 | 4.1    | 82    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 57.551 | -15.1  | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.025 | -4.0   | 88    | 0.00     |

(#) = Out of Range

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