

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW112718\  
 Data File : VW007082.D  
 Acq On : 27 Nov 2018 12:36  
 Operator : VAY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 28 00:39:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 03:23:02 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  | 49.000  | 2.0   | 93    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.782  | -1.6  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.286  | -2.6# | 92    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 57.478  | -15.0 | 96    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.286  | -4.6  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.123  | -0.2  | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.918  | 4.2   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.771  | 2.5   | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.078  | 3.8   | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 240.811 | 3.7   | 96    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.822  | 0.4#  | 95    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 231.466 | 7.4   | 93    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.363  | 1.3   | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 253.555 | -1.4  | 90    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 249.119 | 0.4   | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.915  | 0.2   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.811  | 6.4   | 93    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.772  | 2.5   | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.781  | 6.4   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.264  | 1.5   | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.242  | 3.5   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 252.432 | -1.0  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.073  | 3.9   | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 244.564 | 2.2   | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.398  | -0.8  | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.663  | 2.7   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.551  | -5.1  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 239.859 | 4.1   | 88    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.797  | 4.4#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.284  | 5.4   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.719  | -1.4  | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.873  | 0.3   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.242  | -6.5  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.175  | -4.3  | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.962  | 2.1   | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.084  | -8.2  | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.051  | -2.1  | 92    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.579  | -3.2  | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.954  | -1.9  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.283  | 1.4   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.851  | -1.7  | 90    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.284  | -2.6  | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.613  | -1.2# | 91    | 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   | 50.030   | -0.1  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.016   | 2.0   | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.679   | 0.6   | 87    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1129.814 | -13.0 | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.788   | -7.6  | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 236.605  | 5.4   | 83    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.046   | -6.1# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.669   | -3.3  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.523   | -1.0  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.360   | 1.3   | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.347   | -4.7  | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.807   | 0.4   | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 232.923  | 6.8   | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 249.218  | 0.3   | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.870   | -1.7  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.117   | -0.2  | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.412   | -2.8  | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.905   | -5.8  | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.359   | -8.7  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.683   | -9.4  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.379   | -8.8# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.264  | -7.3  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.175   | -4.3  | 87    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.001   | -6.0  | 88    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.786   | -7.6  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.815   | -5.6  | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.313   | -6.6  | 85    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.842   | 0.3   | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.763   | -3.5  | 104   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.108   | -6.2  | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.109   | -4.2  | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.165   | -6.3  | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.919   | -5.8  | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.481   | -3.0  | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.295   | -6.6  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.576   | -7.2  | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.431   | -6.9  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.825   | -5.7  | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.765   | -5.5  | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.707   | -5.4  | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.004   | -8.0  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.498   | -9.0  | 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 | 55.605 | -11.2 | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.412 | -4.8  | 87    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.670 | -9.3  | 91    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.012 | -0.0  | 83    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.927 | -7.9  | 90    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.494 | 1.0   | 81    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.735 | -1.5  | 84    | 0.00     |

(#) = Out of Range

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