

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121818\  
 Data File : VW007598.D  
 Acq On : 15 Dec 2018 23:03  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 16 02:37:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 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   | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.390  | 7.2   | 91    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 40.706  | 18.6  | 75    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 42.976  | 14.0# | 77    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.615  | 10.8  | 79    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.895  | 10.2  | 76    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.786  | 4.4   | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.195  | -0.4  | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.655  | 4.7   | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.618  | 4.8   | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 237.797 | 4.9   | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.184  | 3.6#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 236.645 | 5.3   | 83    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.715  | 8.6   | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 251.218 | -0.5  | 84    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 250.263 | -0.1  | 83    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.187  | 7.6   | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.997  | 0.0   | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.132  | 1.7   | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.987  | 4.0   | 80    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.391  | 5.2   | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 46.817  | 6.4   | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 243.755 | 2.5   | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.271  | 3.5   | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 258.818 | -3.5  | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.195  | 3.6   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.647  | 2.7   | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.454  | -0.9  | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 250.058 | -0.0  | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.241  | 1.5#  | 83    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.502  | 13.0  | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.359  | 1.3   | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.473  | 5.1   | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 84    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.229  | 3.5   | 77    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.770  | 0.5   | 84    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.350  | 3.3   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.074  | -2.1  | 85    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.044  | -0.1  | 84    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.616  | 0.8   | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.501  | -5.0  | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.410  | -2.8  | 84    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.596  | -1.2  | 82    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.392  | -0.8  | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.146  | 1.7#  | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 51.814   | -3.6  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.240   | -0.5  | 81    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.584   | 0.8   | 80    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1119.494 | -11.9 | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.564   | 4.9   | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 267.498  | -7.0  | 85    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.279   | -0.6# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.852   | -3.7  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.736   | 0.5   | 81    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.816   | -7.6  | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.041   | -6.1  | 84    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.535   | -9.1  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 298.428  | -19.4 | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 279.467  | -11.8 | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.598   | -7.2  | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.271   | -6.5  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.987   | 2.0   | 78    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.747   | 2.5   | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.524   | -1.0  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.803   | -1.6  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.033   | -2.1# | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.518  | -1.5  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.261   | -2.5  | 85    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.547   | -5.1  | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.936   | 0.1   | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.295   | 3.4   | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.640   | 2.7   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.441   | -0.9  | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.753   | -11.5 | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.586   | 0.8   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.003   | -0.0  | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.555   | 2.9   | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.267   | -0.5  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.196   | 5.6   | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.125   | 3.8   | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.379   | 1.2   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.791   | 2.4   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.700   | 0.6   | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.985   | 0.0   | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.025   | 2.0   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.567   | 2.9   | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.630   | 0.7   | 90    | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 49.557 | 0.9  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.612 | 0.8  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.622 | 0.8  | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.451 | 3.1  | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.152 | 1.7  | 90    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.996 | -2.0 | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.323 | 3.4  | 85    | 0.00     |

(#) = Out of Range

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