

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081918\  
 Data File : VW004742.D  
 Acq On : 17 Aug 2018 19:21  
 Operator : SY/AP  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW081918

Quant Time: Aug 18 01:52:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 18 01:49:53 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   | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.781  | 2.4   | 101   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.621  | 2.8   | 107   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.435  | 3.1#  | 102   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.744  | 2.5   | 104   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.390  | 1.2   | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.710  | 4.6   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.819  | -1.6  | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.659  | 2.7   | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.921  | 0.2   | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 278.729 | -11.5 | 114   | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.034  | 1.9#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 246.734 | 1.3   | 103   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.817  | -1.6  | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 268.099 | -7.2  | 104   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 253.048 | -1.2  | 104   | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.161  | 1.7   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.153  | -8.3  | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.341  | -8.7  | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.579  | -1.2  | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.259  | -0.5  | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.031  | -6.1  | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 276.537 | -10.6 | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.131  | -0.3  | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 266.894 | -6.8  | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.353  | 7.3   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.758  | -1.5  | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.855  | -5.7  | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 279.163 | -11.7 | 106   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.758  | 0.5#  | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.908  | 2.2   | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.263  | 1.5   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.618  | -1.2  | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.341  | -0.7  | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.248  | 1.5   | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.153  | -6.3  | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.592  | 2.8   | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.508  | -3.0  | 100   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.473  | 1.1   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.397  | -6.8  | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.572  | -1.1  | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.599  | -9.2  | 108   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.762  | 2.5   | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.907  | 0.2#  | 101   | 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   | 49.626   | 0.7   | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.337   | -0.7  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.560   | -11.1 | 108   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1116.318 | -11.6 | 108   | 0.02     |
| 50 S  | Toluene-d8                  | 50.000   | 50.294   | -0.6  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 277.082  | -10.8 | 107   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.931   | 0.1#  | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.079   | -4.2  | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.610   | -3.2  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.921   | -1.8  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.996   | -2.0  | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.668   | -3.3  | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 281.837  | -12.7 | 108   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 280.452  | -12.2 | 107   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.290   | -2.6  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.123   | -2.2  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.348   | -2.7  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.662   | 0.7   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.333   | 1.3   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.568   | 0.9   | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.899   | -1.8# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.137  | -2.1  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.201   | -4.4  | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.329   | -4.7  | 100   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.057   | -4.1  | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.782   | -3.6  | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.888   | 0.2   | 110   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.650   | -3.3  | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 57.568   | -15.1 | 124   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.794   | 0.4   | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.755   | -3.5  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.879   | -1.8  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.031   | -4.1  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.855   | -5.7  | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.474   | -0.9  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.384   | -4.8  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.371   | -4.7  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.693   | -3.4  | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.266   | -4.5  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.136   | -0.3  | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.772   | 0.5   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.442   | -4.9  | 101   | 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 | 50.120 | -0.2 | 102   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.312 | -0.6 | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.817 | -9.6 | 110   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.153 | -6.3 | 106   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.344 | -0.7 | 102   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.032 | -2.1 | 110   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.249 | -6.5 | 106   | 0.00     |

(#) = Out of Range

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