

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071219\  
 Data File : VW011219.D  
 Acq On : 11 Jul 2019 10:25  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 12 08:46:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070819S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 11 08:14:17 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    | 104   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.881  | 2.2    | 103   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.492  | 3.0    | 104   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.067  | 1.9#   | 100   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.910  | 0.2    | 101   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.332  | -2.7   | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 54.476  | -9.0   | 110   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.091  | 3.8    | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.611  | -1.2   | 102   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.552  | -1.1   | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 201.127 | 19.5   | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.611  | -1.2#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 342.138 | -36.9# | 140   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.295  | -8.6   | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 225.293 | 9.9    | 92    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 285.119 | -14.0  | 116   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.832  | 0.3    | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 38.177  | 23.6#  | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.889  | 6.2    | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.146  | 1.7    | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.493  | -3.0   | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.304  | -0.6   | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 254.207 | -1.7   | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.728  | -1.5   | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 231.536 | 7.4    | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.996  | -4.0   | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.618  | -1.2   | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.793  | 6.4    | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 216.526 | 13.4   | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.769  | 0.5#   | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.433  | 1.1    | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.974  | -1.9   | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.517  | 7.0    | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.071  | 1.9    | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.135  | -6.3   | 104   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.741  | 8.5    | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.973  | -5.9   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.670  | -7.3   | 103   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.930  | -3.9   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.530  | 8.9    | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.623  | 2.8    | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.493  | 9.0    | 90    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.260  | -4.5   | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.575  | -1.2#  | 99    | 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   | 47.961  | 4.1   | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.450  | -0.9  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.182  | 1.6   | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 896.971 | 10.3  | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.523  | -1.0  | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 224.955 | 10.0  | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.327  | -4.7# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.516  | 1.0   | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.233  | -2.5  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.036  | 3.9   | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.660  | 4.7   | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.616  | 2.8   | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 223.950 | 10.4  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 237.083 | 5.2   | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.208  | 1.6   | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.760  | 4.5   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.658  | 2.7   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.373  | -2.7  | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.273  | -4.5  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.677  | -3.4  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.507  | -7.0# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.153 | -7.2  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.541  | -5.1  | 101   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.195  | -6.4  | 101   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.486  | 7.0   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.904  | -9.8  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.796  | 4.4   | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.853  | 6.3   | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.025  | 12.0  | 93    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.598  | -5.2  | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.399  | -10.8 | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.057  | -8.1  | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.463  | -8.9  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.935  | 10.1  | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.362  | -6.7  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.469  | -10.9 | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.331  | -8.7  | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.894  | -9.8  | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.491  | -11.0 | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.479  | -7.0  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.171  | -4.3  | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.566  | -13.1 | 104   | 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 | 53.416 | -6.8  | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.407 | -2.8  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.707 | 10.6  | 88    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.215 | -8.4  | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 55.640 | -11.3 | 103   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.098 | -2.2  | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.488 | -7.0  | 97    | 0.00     |

(#) = Out of Range

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