

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083019\  
 Data File : VW012362.D  
 Acq On : 30 Aug 2019 20:26  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 31 04:18:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 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    | 82    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.985  | 0.0    | 74    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 55.995  | -12.0  | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.210  | -4.4#  | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.625  | 0.8    | 74    | -0.04    |
| 6 T   | Chloroethane                | 50.000  | 53.655  | -7.3   | 81    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.120  | -10.2  | 83    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 53.998  | -8.0   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.918  | -1.8   | 78    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 53.500  | -7.0   | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 300.717 | -20.3# | 93    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.246  | -4.5#  | 80    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 243.141 | 2.7    | 83    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.235  | -8.5   | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 292.349 | -16.9  | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 255.561 | -2.2   | 71    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.506  | -1.0   | 74    | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 61.468  | -22.9# | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.366  | -12.7  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.822  | -5.6   | 86    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.698  | -7.4   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.644  | -11.3  | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 280.995 | -12.4  | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.330  | -8.7   | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 282.093 | -12.8  | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.097  | -2.2   | 80    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.516  | -9.0   | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.324  | -2.6   | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 303.861 | -21.5# | 91    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.384  | -8.8#  | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.957  | 4.1    | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.197  | -8.4   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.816  | -3.6   | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.943  | 0.1    | 82    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.234  | -4.5   | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.681  | -11.4  | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.816  | -5.6   | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.853  | 0.3    | 76    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.254  | -6.5   | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 59.943  | -19.9  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.517  | -9.0   | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.733  | -13.5  | 88    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.054  | -6.1   | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.685  | -7.4#  | 84    | 0.00     |

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 LabSampleId :  
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 Quant Title : SW846 8260  
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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   | 54.842   | -9.7  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.546   | -9.1  | 84    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 58.079   | -16.2 | 87    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1146.657 | -14.7 | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.409   | 1.2   | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 295.553  | -18.2 | 91    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.579   | -7.2# | 83    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.917   | -9.8  | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.019   | -8.0  | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.649   | -9.3  | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 57.700   | -15.4 | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.351   | -10.7 | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 299.182  | -19.7 | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 287.779  | -15.1 | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.756   | -11.5 | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.562   | -11.1 | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.109   | -0.2  | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 84    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.888   | -5.8  | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.207   | -4.4  | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.073   | -6.1  | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.768   | -5.5# | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.953  | -6.0  | 83    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.569   | -7.1  | 84    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.252   | -8.5  | 84    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.376   | -12.8 | 89    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.167   | -2.3  | 82    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 56.600   | -13.2 | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.408   | -6.8  | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.976   | -2.0  | 84    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.306   | -4.6  | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.313   | -2.6  | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.261   | -4.5  | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.301   | -4.6  | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.458   | -8.9  | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.797   | -3.6  | 84    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.255   | -4.5  | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.244   | -4.5  | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.333   | -2.7  | 83    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.706   | -3.4  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.314   | -2.6  | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.854   | -3.7  | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.027   | -4.1  | 83    | 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 | 51.185 | -2.4  | 82    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.726 | -5.5  | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 57.330 | -14.7 | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.934 | -9.9  | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.322 | -6.6  | 88    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.709 | -5.4  | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 55.103 | -10.2 | 87    | 0.00     |

(#) = Out of Range

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