

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091018\  
 Data File : VW005246.D  
 Acq On : 10 Sep 2018 17:30  
 Operator : SY/AP  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW091018

Quant Time: Sep 11 04:00:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 03:48:23 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   | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.370  | 7.3   | 105   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.233  | -0.5  | 109   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.797  | -1.6# | 110   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 57.095  | -14.2 | 114   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.645  | -3.3  | 111   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.507  | 1.0   | 111   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.941  | -1.9  | 112   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.215  | 1.6   | 108   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.005  | 2.0   | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 257.460 | -3.0  | 115   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.841  | 0.3#  | 108   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 253.640 | -1.5  | 112   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.697  | -5.4  | 114   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 269.519 | -7.8  | 114   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 262.751 | -5.1  | 114   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.543  | -5.1  | 112   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.773  | -7.5  | 117   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.480  | -7.0  | 113   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.141  | -4.3  | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.049  | -0.1  | 111   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 56.218  | -12.4 | 116   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 278.988 | -11.6 | 117   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.913  | -3.8  | 115   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 271.260 | -8.5  | 117   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.444  | -0.9  | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.359  | -2.7  | 112   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.857  | -3.7  | 110   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 271.130 | -8.5  | 114   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.941  | -1.9# | 110   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.749  | -5.5  | 111   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.889  | -3.8  | 109   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.496  | -1.0  | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.942  | 0.1   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.103  | -4.2  | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.417  | -4.8  | 117   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.291  | -0.6  | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.555  | -5.1  | 109   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.706  | -5.4  | 109   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.915  | -9.8  | 111   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.684  | 0.6   | 110   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.372  | -8.7  | 115   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.535  | -1.1  | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.788  | -5.6# | 111   | 0.00     |

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 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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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   | 48.691   | 2.6   | 108   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.122   | -2.2  | 109   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.462   | -4.9  | 106   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1108.889 | -10.9 | 109   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.214   | -0.4  | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 270.667  | -8.3  | 112   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.832   | -1.7# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.061   | -4.1  | 110   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.034   | -4.1  | 110   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.433   | 1.1   | 108   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.141   | -8.3  | 110   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.292   | -2.6  | 111   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 276.164  | -10.5 | 117   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 271.504  | -8.6  | 112   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.225   | -2.5  | 109   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.821   | -1.6  | 109   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.280   | -0.6  | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.855   | -1.7  | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.594   | -3.2  | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.891   | -1.8  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.643   | -5.3# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.361  | -4.4  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.399   | -4.8  | 105   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.083   | -6.2  | 106   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.130   | -4.3  | 108   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.673   | -7.3  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 57.483   | -15.0 | 113   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.751   | -9.5  | 111   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.609   | -5.2  | 112   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.835   | -5.7  | 108   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.308   | -8.6  | 109   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.459   | -6.9  | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.614   | -7.2  | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.383   | -10.8 | 110   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.338   | -6.7  | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.311   | -8.6  | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.118   | -8.2  | 110   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.909   | -7.8  | 108   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.128   | -8.3  | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.401   | -4.8  | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.806   | -3.6  | 108   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.907   | -7.8  | 107   | 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 | 53.463 | -6.9  | 109   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.689 | -5.4  | 109   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 56.104 | -12.2 | 113   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.287 | -6.6  | 109   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.796 | -3.6  | 105   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 56.557 | -13.1 | 111   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.673 | -7.3  | 108   | 0.00     |

(#) = Out of Range

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