

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092618\  
 Data File : VW005680.D  
 Acq On : 27 Sep 2018 04:02  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 27 07:55:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 09:05:42 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    | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 53.255  | -6.5   | 104   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.609  | 2.8    | 107   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 61.022  | -22.0# | 127   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.940  | -7.9   | 113   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 54.352  | -8.7   | 115   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.598  | 8.8    | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 59.307  | -18.6  | 122   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 56.844  | -13.7  | 119   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 60.079  | -20.2# | 121   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 313.642 | -25.5# | 129   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 59.299  | -18.6# | 123   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 256.407 | -2.6   | 108   | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 58.085  | -16.2  | 116   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 298.813 | -19.5  | 122   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 288.755 | -15.5  | 115   | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 60.844  | -21.7# | 126   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 57.799  | -15.6  | 121   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 59.847  | -19.7  | 117   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 67.120  | -34.2# | 125   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 59.451  | -18.9  | 118   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.771  | -11.5  | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 282.247 | -12.9  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.841  | -7.7   | 107   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 269.797 | -7.9   | 114   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.283  | 9.4    | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 56.822  | -13.6  | 112   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.046  | 1.9    | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 286.216 | -14.5  | 115   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.704  | -11.4# | 110   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 53.321  | -6.6   | 114   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.615  | -5.2   | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.451  | 1.1    | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.720  | -7.4   | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 56.237  | -12.5  | 111   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.200  | -10.4  | 111   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.677  | -5.4   | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.821  | -13.6  | 113   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.990  | -10.0  | 109   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 65.074  | -30.1# | 126   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.066  | -8.1   | 108   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 55.994  | -12.0  | 114   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.926  | -9.9   | 110   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.541  | -9.1#  | 108   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 27 07:55:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 09:05:42 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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 55.188   | -10.4  | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.443   | -6.9   | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 57.734   | -15.5  | 113   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1175.441 | -17.5  | 121   | 0.02     |
| 50 S  | Toluene-d8                  | 50.000   | 56.089   | -12.2  | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 319.243  | -27.7# | 128   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 60.621   | -21.2# | 118   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 58.443   | -16.9  | 113   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 58.871   | -17.7  | 114   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 60.552   | -21.1# | 121   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 65.486   | -31.0# | 124   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 60.587   | -21.2# | 121   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 274.738  | -9.9   | 107   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 310.171  | -24.1# | 122   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 59.589   | -19.2  | 117   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 60.340   | -20.7# | 119   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 56.975   | -14.0  | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 107   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 59.431   | -18.9  | 129   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 55.361   | -10.7  | 117   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.074   | -4.1   | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.003   | -10.0# | 114   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 113.387  | -13.4  | 116   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.524   | -15.0  | 118   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.803   | -15.6  | 117   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.289   | -12.6  | 119   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 59.233   | -18.5  | 118   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 61.248   | -22.5# | 125   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 58.114   | -16.2  | 121   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.896   | -5.8   | 116   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 56.892   | -13.8  | 116   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 58.208   | -16.4  | 115   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 57.425   | -14.8  | 116   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 58.338   | -16.7  | 115   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 56.776   | -13.6  | 118   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 57.448   | -14.9  | 115   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 58.902   | -17.8  | 117   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 56.371   | -12.7  | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.787   | -13.6  | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.853   | -13.7  | 112   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.751   | -9.5   | 112   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.400   | -6.8   | 111   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 57.599   | -15.2  | 115   | 0.00     |

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Sample : VSTDCCC050  
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ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
LabSampleId :  
VSTDCCC050

Quant Time: Sep 27 07:55:47 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 21 09:05:42 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) |
|------|-----------------------------|--------|--------|--------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 56.859 | -13.7  | 117   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 56.015 | -12.0  | 115   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.704 | -9.4   | 122   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 57.209 | -14.4  | 116   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.422 | -8.8   | 114   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 63.174 | -26.3# | 125   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 58.488 | -17.0  | 118   | 0.00     |

(#) = Out of Range

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