

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD082418\  
 Data File : VD059900.D  
 Acq On : 24 Aug 2018 11:46  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 24 14:50:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 03:03:08 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    | 110   | -0.03    |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.929  | -3.9   | 118   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.127  | -0.3   | 119   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 56.173  | -12.3# | 125   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 54.197  | -8.4   | 138   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.564  | -5.1   | 117   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.612  | -13.2  | 125   | -0.02    |
| 8 T   | Diethyl Ether               | 50.000  | 53.506  | -7.0   | 116   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 57.451  | -14.9  | 131   | -0.02    |
| 10 T  | Methyl Iodide               | 50.000  | 53.443  | -6.9   | 112   | -0.02    |
| 11 T  | Tert butyl alcohol          | 250.000 | 240.070 | 4.0    | 97    | -0.03    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 57.697  | -15.4# | 129   | -0.02    |
| 13 T  | Acrolein                    | 250.000 | 238.034 | 4.8    | 94    | -0.02    |
| 14 T  | Allyl chloride              | 50.000  | 55.445  | -10.9  | 119   | -0.02    |
| 15 T  | Acrylonitrile               | 250.000 | 241.384 | 3.4    | 100   | -0.03    |
| 16 T  | Acetone                     | 250.000 | 293.851 | -17.5  | 120   | -0.02    |
| 17 T  | Carbon Disulfide            | 50.000  | 55.845  | -11.7  | 121   | -0.02    |
| 18 T  | Methyl Acetate              | 50.000  | 50.113  | -0.2   | 107   | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.034  | -0.1   | 104   | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 53.380  | -6.8   | 116   | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.254  | -4.5   | 113   | -0.03    |
| 22 T  | Diisopropyl ether           | 50.000  | 52.539  | -5.1   | 112   | -0.02    |
| 23 T  | Vinyl Acetate               | 250.000 | 257.820 | -3.1   | 107   | -0.03    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.713  | -7.4   | 116   | -0.03    |
| 25 T  | 2-Butanone                  | 250.000 | 263.928 | -5.6   | 104   | -0.02    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.651  | -7.3   | 123   | -0.03    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.174  | -8.3   | 116   | -0.03    |
| 28 T  | Bromochloromethane          | 50.000  | 54.680  | -9.4   | 115   | -0.03    |
| 29    | Tetrahydrofuran             | 250.000 | 248.738 | 0.5    | 103   | -0.03    |
| 30 C  | Chloroform                  | 50.000  | 54.934  | -9.9#  | 119   | -0.03    |
| 31 T  | Cyclohexane                 | 50.000  | 50.571  | -1.1   | 116   | -0.03    |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.354  | -4.7   | 114   | -0.02    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.216  | -0.4   | 107   | -0.03    |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 111   | -0.02    |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.704  | -3.4   | 111   | -0.03    |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.977  | -6.0   | 116   | -0.03    |
| 37 T  | Ethyl Acetate               | 50.000  | 50.091  | -0.2   | 110   | -0.03    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.769  | -3.5   | 117   | -0.02    |
| 39 T  | Methylcyclohexane           | 50.000  | 54.279  | -8.6   | 117   | -0.03    |
| 40 TM | Benzene                     | 50.000  | 52.875  | -5.8   | 116   | -0.03    |
| 41 T  | Methacrylonitrile           | 50.000  | 48.582  | 2.8    | 99    | -0.03    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.504  | -5.0   | 111   | -0.03    |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.009  | -0.0   | 103   | -0.03    |
| 44 TM | Trichloroethene             | 50.000  | 51.730  | -3.5   | 112   | -0.03    |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.980  | -6.0#  | 113   | -0.03    |

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Instrument :  
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 LabSampleId :  
 VSTDCCC050

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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   | 51.990   | -4.0  | 110   | -0.03    |
| 47 T  | Bromodichloromethane        | 50.000   | 53.306   | -6.6  | 115   | -0.03    |
| 48 T  | Methyl methacrylate         | 50.000   | 50.446   | -0.9  | 108   | -0.02    |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1004.836 | -0.5  | 104   | -0.03    |
| 50 S  | Toluene-d8                  | 50.000   | 52.487   | -5.0  | 111   | -0.02    |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 262.295  | -4.9  | 104   | -0.03    |
| 52 CM | Toluene                     | 50.000   | 53.942   | -7.9# | 118   | -0.03    |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.146   | -6.3  | 113   | -0.02    |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.639   | -7.3  | 117   | -0.02    |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.598   | 2.8   | 110   | -0.03    |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.359   | 1.3   | 103   | -0.03    |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.552   | -5.1  | 110   | -0.02    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 246.473  | 1.4   | 110   | -0.03    |
| 59 T  | 2-Hexanone                  | 250.000  | 254.324  | -1.7  | 101   | -0.02    |
| 60 T  | Dibromochloromethane        | 50.000   | 50.652   | -1.3  | 107   | -0.02    |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.742   | 0.5   | 105   | -0.03    |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.793   | -1.6  | 110   | -0.02    |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 108   | -0.02    |
| 64 T  | Tetrachloroethene           | 50.000   | 53.130   | -6.3  | 115   | -0.02    |
| 65 PM | Chlorobenzene               | 50.000   | 53.554   | -7.1  | 113   | -0.02    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.112   | -4.2  | 110   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.665   | -5.3# | 112   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.029  | -7.0  | 116   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.226   | -6.5  | 114   | -0.02    |
| 70 T  | Styrene                     | 50.000   | 52.328   | -4.7  | 112   | -0.02    |
| 71 P  | Bromoform                   | 50.000   | 50.704   | -1.4  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 110   | -0.02    |
| 73 T  | Isopropylbenzene            | 50.000   | 52.941   | -5.9  | 117   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.016   | 6.0   | 101   | -0.02    |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.655   | 0.7   | 109   | -0.02    |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.105   | 1.8   | 104   | -0.02    |
| 77 T  | Bromobenzene                | 50.000   | 54.511   | -9.0  | 117   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.403   | -2.8  | 112   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.045   | -4.1  | 113   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.178   | -6.4  | 117   | -0.02    |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.605   | 2.8   | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.350   | -2.7  | 113   | -0.02    |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.996   | -4.0  | 112   | -0.02    |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.816   | -1.6  | 111   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.439   | -4.9  | 112   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.981   | -4.0  | 113   | -0.02    |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.840   | -3.7  | 113   | -0.02    |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.008   | -4.0  | 114   | -0.02    |
| 89 T  | n-Butylbenzene              | 50.000   | 58.765   | -17.5 | 122   | -0.02    |

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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 | 51.923 | -3.8  | 112   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.612 | -5.2  | 113   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.008 | 4.0   | 101   | -0.02    |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.974 | -3.9  | 109   | -0.02    |
| 94 T | Hexachlorobutadiene         | 50.000 | 55.062 | -10.1 | 118   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.887 | 2.2   | 102   | -0.02    |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.003 | -4.0  | 109   | -0.02    |

(#) = Out of Range

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