

Data File : VD058153.D  
 Acq On : 15 Jun 2018 15:17  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 15 23:27:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 08:57:33 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.967  | 14.1  | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.017  | 12.0  | 94    | -0.01    |
| 4 C   | Vinyl Chloride              | 50.000  | 49.073  | 1.9#  | 99    | -0.01    |
| 5 T   | Bromomethane                | 50.000  | 44.955  | 10.1  | 80    | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 50.433  | -0.9  | 89    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.878  | 4.2   | 91    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 56.290  | -12.6 | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.192  | -0.4  | 94    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 45.836  | 8.3   | 88    | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 295.133 | -18.1 | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.562  | 2.9#  | 93    | -0.01    |
| 13 T  | Acrolein                    | 250.000 | 213.034 | 14.8  | 87    | -0.01    |
| 14 T  | Allyl chloride              | 50.000  | 49.335  | 1.3   | 98    | -0.01    |
| 15 T  | Acrylonitrile               | 250.000 | 199.450 | 20.2# | 80    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 290.119 | -16.0 | 112   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.849  | 2.3   | 94    | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 48.907  | 2.2   | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.669  | -1.3  | 98    | -0.01    |
| 20 T  | Methylene Chloride          | 50.000  | 56.094  | -12.2 | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.790  | 8.4   | 88    | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 45.521  | 9.0   | 87    | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 247.779 | 0.9   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.773  | 6.5   | 92    | -0.01    |
| 25 T  | 2-Butanone                  | 250.000 | 247.694 | 0.9   | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.527  | 0.9   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.034  | 1.9   | 96    | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 50.461  | -0.9  | 97    | -0.01    |
| 29    | Tetrahydrofuran             | 250.000 | 239.316 | 4.3   | 92    | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 48.471  | 3.1#  | 94    | -0.01    |
| 31 T  | Cyclohexane                 | 50.000  | 43.697  | 12.6  | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.895  | 0.2   | 97    | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 44.029  | 11.9  | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 93    | -0.01    |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.138  | 3.7   | 92    | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.157  | -0.3  | 94    | -0.01    |
| 37 T  | Ethyl Acetate               | 50.000  | 52.780  | -5.6  | 99    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.777  | -1.6  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.358  | 1.3   | 90    | -0.01    |
| 40 TM | Benzene                     | 50.000  | 48.943  | 2.1   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.371  | -10.7 | 100   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.336  | -2.7  | 93    | -0.01    |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.173  | -0.3  | 90    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.201  | -6.4  | 96    | -0.01    |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.608  | 2.8#  | 89    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 15 23:27:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 08:57:33 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   | 52.381   | -4.8  | 95    | -0.01    |
| 47 T  | Bromodichloromethane        | 50.000   | 52.392   | -4.8  | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.739   | 0.5   | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1041.621 | -4.2  | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.382   | 7.2   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 251.868  | -0.7  | 91    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.503   | 3.0#  | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.298   | -4.6  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.910   | 0.2   | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.685   | -1.4  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.088   | -2.2  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.953   | -3.9  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 251.591  | -0.6  | 94    | -0.01    |
| 59 T  | 2-Hexanone                  | 250.000  | 263.542  | -5.4  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.306   | -8.6  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.091   | -0.2  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 45.207   | 9.6   | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.650   | -5.3  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.522   | -1.0  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.188   | -4.4  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.000   | 4.0#  | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.916  | -1.9  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.666   | -3.3  | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.113   | -4.2  | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.271   | -16.5 | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.199   | -0.4  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.667   | 0.7   | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.622   | -3.2  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.895   | -3.8  | 96    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.904   | -1.8  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.768   | 2.5   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.060   | -2.1  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.894   | 0.2   | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.260   | -10.5 | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 56.533   | -13.1 | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.866   | 0.3   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.498   | 3.0   | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.761   | 4.5   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.991   | 0.0   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.206   | -0.4  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.417   | 1.2   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.782   | -9.6  | 95    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061518\  
Evaluate Continuing Calibration Report

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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Quant Time: Jun 15 23:27:17 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 07 08:57:33 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 | 52.544 | -5.1  | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.061 | 1.9   | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.800 | -9.6  | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 55.620 | -11.2 | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.801 | -9.6  | 99    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.999 | -4.0  | 97    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.582 | -9.2  | 100   | 0.00     |

(#) = Out of Range

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