# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW091619\
Data File : VW013056.D
Acq On : 16 Sep 2019 22:26
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Sep 17 08:06:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 17:26:01 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 | 117 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 48.674 | 2.7 | 113 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 53.571 | -7.1 | 121 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.539 | 8.9# | 113 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 46.565 | 6.9 | 116 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 49.882 | 0.2 | 119 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 40.797 | 18.4 | 94 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 51.616 | -3.2 | 122 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.562 | 2.9 | 115 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 53.230 | -6.5 | 123 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 288.616 | -15.4 | 127 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.549 | 0.9# | 117 | 0.00 |
| 13 | T | Acrolein | 250.000 | 291.232 | -16.5 | 128 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 57.259 | -14.5 | 132 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 286.081 | -14.4 | 132 | -0.01 |
| 16 | T | Acetone | 250.000 | 248.541 | 0.6 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 49.036 | 1.9 | 119 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 57.379 | -14.8 | 142 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 56.426 | -12.9 | 128 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 59.137 | -18.3 | 129 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 52.522 | -5.0 | 122 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 58.396 | -16.8 | 133 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 287.412 | -15.0 | 128 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 53.287 | -6.6 | 125 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 268.301 | -7.3 | 125 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.013 | -4.0 | 113 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 54.612 | -9.2 | 128 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 58.288 | -16.6 | 135 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 289.341 | -15.7 | 132 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.088 | -2.2# | 120 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 53.752 | -7.5 | 120 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.506 | -1.0 | 118 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.546 | 0.9 | 111 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 126 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.546 | 0.9 | 120 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.360 | 3.3 | 121 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.869 | -1.7 | 128 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 46.206 | 7.6 | 114 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 47.953 | 4.1 | 121 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.976 | 0.0 | 124 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 50.939 | -1.9 | 127 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.954 | 6.1 | 116 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.385 | -4.8 | 128 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 48.204 | 3.6 | 121 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.906 | -5.8# | 129 | 0.00 |

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ALS Vial : 29 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 17:26:01 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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 50.485 | -1.0 | 124 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.448 | -2.9 | 124 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 53.854 | -7.7 | 132 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 989.389 | 1.1 | 119 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.631 | -1.3 | 118 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 270.939 | -8.4 | 132 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.170 | -2.3# | 125 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.744 | 0.5 | 119 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.254 | -4.5 | 126 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 52.094 | -4.2 | 129 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.587 | -7.2 | 127 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 53.122 | -6.2 | 129 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 269.729 | -7.9 | 132 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 263.093 | -5.2 | 126 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.230 | -2.5 | 122 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.752 | -5.5 | 128 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 49.287 | 1.4 | 119 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 120 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 53.032 | -6.1 | 127 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 51.148 | -2.3 | 123 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.017 | -2.0 | 119 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.850 | -3.7# | 120 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 103.947 | -3.9 | 120 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 54.334 | -8.7 | 126 | 0.00 |
| 70 | T | Styrene | 50.000 | 54.630 | -9.3 | 126 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.276 | -8.6 | 123 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 120 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.005 | -6.0 | 123 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 56.641 | -13.3 | 131 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 54.305 | -8.6 | 126 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.966 | 4.1 | 129 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 52.609 | -5.2 | 125 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.578 | -5.2 | 121 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.516 | -5.0 | 123 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.986 | -4.0 | 122 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 54.865 | -9.7 | 127 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.716 | -3.4 | 120 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 52.036 | -4.1 | 121 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 52.362 | -4.7 | 122 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 52.085 | -4.2 | 121 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 52.580 | -5.2 | 122 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.867 | -3.7 | 124 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 51.721 | -3.4 | 122 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.060 | -4.1 | 120 | 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 | 51.199 | -2.4 | 121 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 52.371 | -4.7 | 125 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.733 | -1.5 | 124 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 54.036 | -8.1 | 127 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 50.971 | -1.9 | 124 | 0.00 |
| 95 T | Naphthalene | 50.000 | 59.475 | -19.0 | 133 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 54.898 | -9.8 | 130 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6