# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012419\
Data File : VW008403.D
Acq On : 24 Jan 2019 18:43
Operator : SY/VA
Sample : VSTDICV050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** ICVVW012419

Quant Time: Jan 25 11:19:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 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 | 87 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 51.777 | -3.6 | 88 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 53.252 | -6.5 | 90 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 54.718 | -9.4# | 87 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 56.173 | -12.3 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 55.960 | -11.9 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.408 | 5.2 | 84 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.960 | -5.9 | 88 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 53.506 | -7.0 | 86 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 55.132 | -10.3 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 255.095 | -2.0 | 88 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 53.151 | -6.3# | 87 | 0.00 |
| 13 | T | Acrolein | 250.000 | 246.691 | 1.3 | 95 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 52.571 | -5.1 | 85 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 258.808 | -3.5 | 84 | 0.00 |
| 16 | T | Acetone | 250.000 | 241.394 | 3.4 | 82 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 53.385 | -6.8 | 86 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.486 | -1.0 | 82 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 53.529 | -7.1 | 87 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.116 | -0.2 | 89 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 53.169 | -6.3 | 88 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.696 | -5.4 | 87 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 260.664 | -4.3 | 85 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 53.137 | -6.3 | 87 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 254.912 | -2.0 | 83 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.777 | -3.6 | 86 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 54.124 | -8.2 | 90 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 50.308 | -0.6 | 92 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 257.205 | -2.9 | 83 | 0.00 |
| 30 | C | Chloroform | 50.000 | 53.384 | -6.8# | 87 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 49.475 | 1.0 | 85 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 53.110 | -6.2 | 87 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 56.123 | -12.2 | 97 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 87 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 56.018 | -12.0 | 96 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 53.200 | -6.4 | 85 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.595 | -1.2 | 80 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 53.561 | -7.1 | 87 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 52.612 | -5.2 | 84 | 0.00 |
| 40 | TM | Benzene | 50.000 | 53.535 | -7.1 | 87 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.136 | -4.3 | 83 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 53.224 | -6.4 | 87 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.177 | -4.4 | 83 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 53.629 | -7.3 | 88 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 53.560 | -7.1# | 87 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 52.874 | -5.7 | 87 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 53.391 | -6.8 | 87 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 50.970 | -1.9 | 84 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1078.288 | -7.8 | 87 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 56.539 | -13.1 | 97 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 257.683 | -3.1 | 84 | 0.00 |
| 52 | CM | Toluene | 50.000 | 52.854 | -5.7# | 86 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.140 | -6.3 | 86 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.305 | -6.6 | 87 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 53.176 | -6.4 | 87 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 52.213 | -4.4 | 85 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.871 | -5.7 | 87 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 245.249 | 1.9 | 90 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 259.001 | -3.6 | 83 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 53.470 | -6.9 | 87 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.039 | -6.1 | 87 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 55.521 | -11.0 | 97 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 87 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 54.155 | -8.3 | 89 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 53.968 | -7.9 | 88 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 54.002 | -8.0 | 88 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 53.637 | -7.3# | 87 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 105.882 | -5.9 | 86 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 53.705 | -7.4 | 88 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.310 | -6.6 | 87 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.841 | -5.7 | 86 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 88 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.795 | -3.6 | 86 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 51.640 | -3.3 | 85 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.360 | -2.7 | 85 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 50.866 | -1.7 | 85 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 52.673 | -5.3 | 88 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.435 | -4.9 | 86 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.576 | -5.2 | 87 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.711 | -5.4 | 86 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 50.829 | -1.7 | 83 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.721 | -5.4 | 87 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 52.905 | -5.8 | 87 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 53.090 | -6.2 | 87 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 52.671 | -5.3 | 86 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 53.222 | -6.4 | 87 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 53.635 | -7.3 | 88 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 53.363 | -6.7 | 88 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.491 | -5.0 | 85 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 53.281 | -6.6 | 87 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 53.338 | -6.7 | 88 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.941 | -1.9 | 86 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 52.931 | -5.9 | 88 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 52.727 | -5.5 | 88 | 0.00 |
| 95 T | Naphthalene | 50.000 | 53.460 | -6.9 | 87 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.286 | -4.6 | 86 | 0.00 |

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