# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD121119\
Data File : VD064493.D
Acq On : 11 Dec 2019 11:04
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

Quant Time: Dec 12 03:11:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 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 | 95 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.333 | 1.3 | 98 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.707 | 2.6 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 52.162 | -4.3# | 99 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 45.119 | 9.8 | 90 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.195 | -0.4 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 53.492 | -7.0 | 102 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 45.512 | 9.0 | 87 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 52.970 | -5.9 | 102 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 54.062 | -8.1 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 225.360 | 9.9 | 83 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 51.561 | -3.1# | 98 | 0.00 |
| 13 | T | Acrolein | 250.000 | 239.937 | 4.0 | 96 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 50.825 | -1.7 | 96 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 224.417 | 10.2 | 86 | 0.00 |
| 16 | T | Acetone | 250.000 | 288.630 | -15.5 | 102 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.537 | -1.1 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 42.519 | 15.0 | 83 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 45.714 | 8.6 | 85 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.729 | -3.5 | 93 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.091 | -0.2 | 95 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 48.350 | 3.3 | 90 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 238.658 | 4.5 | 87 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 51.006 | -2.0 | 95 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 234.212 | 6.3 | 87 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 55.399 | -10.8 | 105 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.430 | 3.1 | 91 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 50.241 | -0.5 | 89 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 215.759 | 13.7 | 83 | 0.00 |
| 30 | C | Chloroform | 50.000 | 50.129 | -0.3# | 94 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 57.254 | -14.5 | 101 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 52.353 | -4.7 | 99 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 45.949 | 8.1 | 89 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.055 | 1.9 | 91 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 53.628 | -7.3 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 46.301 | 7.4 | 85 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 55.300 | -10.6 | 101 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 54.389 | -8.8 | 99 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.603 | -3.2 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 48.660 | 2.7 | 78 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.459 | 1.1 | 91 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 45.539 | 8.9 | 82 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.279 | -2.6 | 96 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.363 | -2.7# | 92 | 0.00 |

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**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260
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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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 48.791 | 2.4 | 89 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.315 | -2.6 | 92 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 46.027 | 7.9 | 84 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 886.198 | 11.4 | 85 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.327 | -0.7 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 229.227 | 8.3 | 84 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.865 | -3.7# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.692 | 0.6 | 89 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.843 | -1.7 | 91 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.134 | 3.7 | 89 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 47.017 | 6.0 | 84 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 47.847 | 4.3 | 88 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 218.757 | 12.5 | 85 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 242.749 | 2.9 | 88 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.434 | 3.1 | 88 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 46.812 | 6.4 | 86 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 48.625 | 2.8 | 93 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 53.402 | -6.8 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.578 | -1.2 | 93 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.690 | -3.4 | 93 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.886 | -5.8# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 107.085 | -7.1 | 97 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.702 | -5.4 | 95 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.746 | -3.5 | 94 | 0.00 |
| 71 | P | Bromoform | 50.000 | 47.809 | 4.4 | 88 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 93 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.291 | -6.6 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 46.833 | 6.3 | 84 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 45.555 | 8.9 | 83 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 49.827 | 0.3 | 96 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.692 | -1.4 | 92 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.846 | -7.7 | 99 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.589 | -3.2 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.532 | -5.1 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 48.708 | 2.6 | 88 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.196 | -4.4 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.952 | -7.9 | 99 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.578 | -3.2 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.263 | -8.5 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 53.886 | -7.8 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.969 | -1.9 | 94 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.088 | -0.2 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.476 | -9.0 | 99 | 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 | 52.935 | -5.9 | 97 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 49.702 | 0.6 | 90 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.368 | -0.7 | 88 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 48.804 | 2.4 | 90 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 52.387 | -4.8 | 94 | 0.00 |
| 95 T | Naphthalene | 50.000 | 45.530 | 8.9 | 83 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.468 | 3.1 | 87 | 0.00 |

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