# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD100520\
Data File : VD067072.D
Acq On : 05 Oct 2020 09:48
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: Oct 06 07:27:50 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 15:19:17 2020
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 | 107 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 50.727 | -1.5 | 102 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 42.041 | 15.9 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 42.954 | 14.1# | 94 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 48.292 | 3.4 | 97 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 43.061 | 13.9 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 44.778 | 10.4 | 99 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 47.018 | 6.0 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 46.309 | 7.4 | 102 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 45.984 | 8.0 | 95 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 194.121 | 22.4# | 89 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 45.794 | 8.4# | 100 | 0.00 |
| 13 | T | Acrolein | 250.000 | 194.448 | 22.2# | 89 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 48.157 | 3.7 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 224.117 | 10.4 | 94 | 0.00 |
| 16 | T | Acetone | 250.000 | 289.335 | -15.7 | 120 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 46.194 | 7.6 | 100 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 45.022 | 10.0 | 95 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 47.724 | 4.6 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.070 | 5.9 | 96 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 47.790 | 4.4 | 102 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 47.596 | 4.8 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 244.064 | 2.4 | 95 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 45.756 | 8.5 | 98 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 216.436 | 13.4 | 93 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 50.369 | -0.7 | 101 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 47.264 | 5.5 | 100 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 46.421 | 7.2 | 93 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 225.394 | 9.8 | 91 | 0.00 |
| 30 | C | Chloroform | 50.000 | 46.490 | 7.0# | 101 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.080 | 9.8 | 100 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 46.458 | 7.1 | 101 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 45.816 | 8.4 | 95 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 105 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.426 | -0.9 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.950 | 4.1 | 99 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 44.953 | 10.1 | 93 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.969 | 2.1 | 100 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.474 | -0.9 | 98 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.759 | 2.5 | 100 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 43.578 | 12.8 | 83 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.024 | 8.0 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 45.204 | 9.6 | 90 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.617 | 0.8 | 103 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 48.545 | 2.9# | 97 | 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 | 48.559 | 2.9 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.450 | 3.1 | 99 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 43.276 | 13.4 | 81 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 976.099 | 2.4 | 99 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 51.332 | -2.7 | 98 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 231.943 | 7.2 | 89 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.054 | -0.1# | 99 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 48.907 | 2.2 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.589 | 2.8 | 98 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 47.108 | 5.8 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 52.103 | -4.2 | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 47.812 | 4.4 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 265.276 | -6.1 | 100 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 249.397 | 0.2 | 94 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.311 | 3.4 | 96 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 47.596 | 4.8 | 94 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.802 | -3.6 | 101 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.321 | 1.4 | 101 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.558 | 0.9 | 100 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.983 | 2.0 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.111 | -4.2# | 101 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.764 | -1.8 | 99 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.773 | -3.5 | 98 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.197 | -4.4 | 98 | 0.00 |
| 71 | P | Bromoform | 50.000 | 49.014 | 2.0 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 105 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.652 | -3.3 | 100 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 47.340 | 5.3 | 93 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 46.145 | 7.7 | 94 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 40.333 | 19.3 | 80 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.846 | 0.3 | 102 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.685 | -1.4 | 99 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.820 | 0.4 | 100 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.250 | -2.5 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.073 | 1.9 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.713 | 0.6 | 101 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.744 | -3.5 | 102 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 50.774 | -1.5 | 100 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.008 | -2.0 | 100 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.831 | -1.7 | 100 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.747 | 2.5 | 101 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.001 | 4.0 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.624 | -3.2 | 101 | 0.00 |

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

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 49.343 | 1.3 | 100 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 48.984 | 2.0 | 101 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.669 | 10.7 | 91 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 51.333 | -2.7 | 100 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 51.242 | -2.5 | 105 | 0.00 |
| 95 T | Naphthalene | 50.000 | 51.596 | -3.2 | 96 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 50.470 | -0.9 | 97 | 0.00 |

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