# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062619\
Data File : VL033987.D
Acq On : 27 Jun 2019 9:44
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**LabSampleId :** VSTDCCC010

Quant Time: Jun 27 14:33:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 82 | -0.02 |
| 2 | T | Dichlorodifluoromethane | 1.623 | 1.276 | 21.4 | 76 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.177 | 1.243 | -5.6 | 91 | 0.00 |
| 4 | | Chloromethane | 0.671 | 0.671 | 0.0 | 85 | 0.00 |
| 5 | T | Vinyl Chloride | 0.623 | 0.700 | -12.4 | 89 | -0.01 |
| 6 | T | Bromomethane | 0.414 | 0.449 | -8.5 | 88 | -0.01 |
| 7 | | Chloroethane | 0.246 | 0.265 | -7.7 | 89 | -0.01 |
| 8 | T | Dichlorotetrafluoroethane | 1.734 | 1.870 | -7.8 | 89 | -0.01 |
| 9 | T | Propene | 0.440 | 0.479 | -8.9 | 87 | -0.01 |
| 10 | T | Heptane | 1.113 | 1.378 | -23.8 | 90 | -0.01 |
| 11 | T | Trichlorofluoromethane | 2.094 | 2.493 | -19.1 | 99 | -0.01 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.415 | 1.655 | -17.0 | 97 | -0.01 |
| 13 | | Ethanol | 0.143 | 0.114 | 20.3 | 85 | 0.00 |
| 14 | T | Bromoethene | 0.527 | 0.606 | -15.0 | 89 | -0.01 |
| 15 | T | Acetone | 1.458 | 1.573 | -7.9 | 103 | -0.01 |
| 16 | T | 1,3-Butadiene | 0.555 | 0.647 | -16.6 | 92 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.140 | 1.346 | -18.1 | 83 | -0.01 |
| 18 | T | 1,1-Dichloroethene | 0.598 | 0.710 | -18.7 | 95 | -0.01 |
| 19 | T | Isopropyl Alcohol | 0.833 | 0.985 | -18.2 | 85 | -0.01 |
| 20 | T | Methylene Chloride | 0.569 | 0.612 | -7.6 | 97 | 0.00 |
| 21 | T | Allyl Chloride | 0.828 | 1.019 | -23.1 | 95 | -0.01 |
| 22 | T | trans-1,2-Dichloroethene | 0.630 | 0.745 | -18.3 | 94 | -0.01 |
| 23 | T | Vinyl Acetate | 1.695 | 1.965 | -15.9 | 87 | -0.01 |
| 24 | T | 1,1-Dichloroethane | 1.319 | 1.436 | -8.9 | 89 | -0.02 |
| 25 | T | Ethyl Acetate | 2.221 | 2.522 | -13.6 | 91 | -0.01 |
| 26 | T | Hexane | 1.011 | 1.099 | -8.7 | 91 | -0.01 |
| 27 | T | Carbon Disulfide | 1.405 | 1.809 | -28.8 | 96 | -0.01 |
| 28 | T | Methyl tert-Butyl Ether | 1.529 | 1.780 | -16.4 | 83 | -0.01 |
| 29 | T | Chloroform | 1.732 | 1.953 | -12.8 | 92 | -0.01 |
| 30 | T | Cyclohexane | 0.715 | 0.891 | -24.6 | 88 | -0.01 |
| 31 | T | cis-1,2-Dichloroethene | 0.887 | 1.097 | -23.7 | 89 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.671 | 2.053 | -22.9 | 91 | -0.02 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 80 | -0.01 |
| 34 | T | 2-Butanone | 0.564 | 0.680 | -20.6 | 89 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.773 | 0.975 | -26.1 | 94 | -0.01 |
| 36 | T | Benzene | 0.764 | 0.930 | -21.7 | 88 | -0.02 |
| 37 | T | 1,2-Dichloroethane | 0.565 | 0.665 | -17.7 | 90 | -0.02 |
| 38 | T | Trichloroethene | 0.297 | 0.412 | -38.7# | 89 | -0.02 |
| 39 | T | 1,2-Dichloropropane | 0.295 | 0.351 | -19.0 | 87 | -0.01 |
| 40 | T | 1,4-Dioxane | 0.120 | 0.131 | -9.2 | 73 | -0.01 |
| 41 | T | Tetrahydrofuran | 0.286 | 0.364 | -27.3 | 87 | -0.02 |
| 42 | T | Bromodichloromethane | 0.755 | 0.933 | -23.6 | 92 | -0.01 |
| 43 | | Methyl Methacrylate | 0.286 | 0.384 | -34.3# | 88 | -0.02 |
| 44 | T | 2,2,4-Trimethylpentane | 1.358 | 1.661 | -22.3 | 90 | -0.02 |
| 45 | T | t-1,3-Dichloropropene | 0.375 | 0.534 | -42.4# | 87 | -0.02 |

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**LabSampleId :** VSTDCCC010

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Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | cis-1,3-Dichloropropene | 0.429 | 0.601 | -40.1# | 88 | -0.02 |
| 47 | T | 1,1,2-Trichloroethane | 0.351 | 0.414 | -17.9 | 88 | 0.00 |
| 48 | T | Dibromochloromethane | 0.632 | 0.820 | -29.7 | 91 | -0.01 |
| 49 | T | Bromoform | 0.558 | 0.811 | -45.3# | 99 | -0.02 |
| 50 | T | 4-Methyl-2-Pentanone | 0.841 | 1.062 | -26.3 | 89 | 0.00 |
| 51 | T | 2-Hexanone | 0.657 | 0.869 | -32.3# | 88 | -0.02 |
| 52 | T | Tetrachloroethene | 0.269 | 0.381 | -41.6# | 88 | -0.01 |
| 53 | T | Toluene | 0.845 | 1.136 | -34.4# | 87 | -0.02 |
| 54 | T | 1,2-Dibromoethane | 0.530 | 0.664 | -25.3 | 89 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 84 | -0.02 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.437 | 0.492 | -12.6 | 93 | -0.02 |
| 57 | T | Chlorobenzene | 0.749 | 0.819 | -9.3 | 90 | -0.02 |
| 58 | T | Ethyl Benzene | 1.127 | 1.549 | -37.4# | 97 | -0.01 |
| 59 | T | m/p-Xylene | 1.025 | 1.343 | -31.0# | 98 | -0.01 |
| 60 | T | o-Xylene | 1.059 | 1.373 | -29.7 | 96 | -0.01 |
| 61 | T | Styrene | 0.685 | 0.963 | -40.6# | 94 | -0.02 |
| 62 | | Isopropylbenzene | 1.427 | 1.820 | -27.5 | 95 | -0.02 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.797 | 0.968 | -21.5 | 96 | -0.01 |
| 64 | | n-propylbenzene | 0.365 | 0.478 | -31.0# | 97 | -0.01 |
| 65 | | tert-Butylbenzene | 1.320 | 1.741 | -31.9# | 98 | -0.02 |
| 66 | T | Benzyl Chloride | 0.669 | 0.921 | -37.7# | 92 | -0.02 |
| 67 | | sec-Butylbenzene | 1.852 | 2.409 | -30.1# | 98 | -0.01 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.821 | 0.835 | -1.7 | 88 | -0.02 |
| 69 | | p-Isopropyltoluene | 1.541 | 2.015 | -30.8# | 96 | -0.01 |
| 70 | | n-Butylbenzene | 1.688 | 2.116 | -25.4 | 95 | -0.02 |
| 71 | | 2-Chlorotoluene | 1.051 | 1.398 | -33.0# | 97 | -0.02 |
| 72 | T | 4-Ethyltoluene | 1.205 | 1.631 | -35.4# | 96 | -0.02 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.187 | 1.583 | -33.4# | 98 | -0.01 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.368 | 1.694 | -23.8 | 97 | -0.02 |
| 75 | T | 1,3-Dichlorobenzene | 0.856 | 0.973 | -13.7 | 95 | -0.02 |
| 76 | T | 1,4-Dichlorobenzene | 0.786 | 0.946 | -20.4 | 94 | -0.02 |
| 77 | T | 1,2-Dichlorobenzene | 0.790 | 0.931 | -17.8 | 94 | -0.02 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.617 | 0.657 | -6.5 | 101 | -0.02 |
| 79 | T | Naphthalene | 1.093 | 1.188 | -8.7 | 78 | -0.02 |
| 80 | T | Naphthalene,2-methyl- | 0.436 | 0.432 | 0.9 | 79 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.690 | 0.716 | -3.8 | 79 | -0.02 |

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