# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040722\
Data File : VL038867.D
Acq On : 8 Apr 2022 9:46
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Apr 11 01:12:45 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
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 | 64 | 0.03 |
| 2 | T | Dichlorodifluoromethane | 1.418 | 2.219 | -56.5# | 111 | 0.02 |
| 3 | | Chlorodifluoromethane | 1.220 | 1.399 | -14.7 | 79 | 0.02 |
| 4 | | Chloromethane | 0.632 | 0.694 | -9.8 | 74 | 0.02 |
| 5 | T | Vinyl Chloride | 0.584 | 0.652 | -11.6 | 75 | 0.02 |
| 6 | T | Bromomethane | 0.283 | 0.330 | -16.6 | 79 | 0.03 |
| 7 | | Chloroethane | 0.195 | 0.215 | -10.3 | 71 | 0.02 |
| 8 | T | Dichlorotetrafluoroethane | 1.325 | 1.542 | -16.4 | 81 | 0.02 |
| 9 | T | Propene | 0.646 | 0.681 | -5.4 | 71 | 0.02 |
| 10 | T | Heptane | 1.626 | 1.785 | -9.8 | 75 | 0.03 |
| 11 | T | Trichlorofluoromethane | 1.140 | 1.440 | -26.3 | 84 | 0.02 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 0.873 | 1.072 | -22.8 | 83 | 0.02 |
| 13 | | Ethanol | 0.039 | 0.060 | -53.8# | 114 | 0.03 |
| 14 | T | Bromoethene | 0.384 | 0.461 | -20.1 | 83 | 0.02 |
| 15 | T | Acetone | 0.996 | 1.107 | -11.1 | 80 | 0.02 |
| 16 | T | 1,3-Butadiene | 0.569 | 0.637 | -12.0 | 75 | 0.02 |
| 17 | | tert-Butyl alcohol | 0.893 | 0.797 | 10.8 | 57 | 0.02 |
| 18 | T | 1,1-Dichloroethene | 0.398 | 0.480 | -20.6 | 84 | 0.03 |
| 19 | T | Isopropyl Alcohol | 0.509 | 0.506 | 0.6 | 65 | 0.03 |
| 20 | T | Methylene Chloride | 0.361 | 0.396 | -9.7 | 77 | 0.02 |
| 21 | T | Allyl Chloride | 0.745 | 0.838 | -12.5 | 77 | 0.02 |
| 22 | T | trans-1,2-Dichloroethene | 0.403 | 0.522 | -29.5 | 82 | 0.03 |
| 23 | T | Vinyl Acetate | 0.970 | 1.129 | -16.4 | 77 | 0.03 |
| 24 | T | 1,1-Dichloroethane | 0.876 | 1.017 | -16.1 | 76 | 0.03 |
| 25 | T | Ethyl Acetate | 2.526 | 2.913 | -15.3 | 76 | 0.03 |
| 26 | T | Hexane | 1.150 | 1.281 | -11.4 | 77 | 0.03 |
| 27 | T | Carbon Disulfide | 1.054 | 1.293 | -22.7 | 78 | 0.03 |
| 28 | T | Methyl tert-Butyl Ether | 0.888 | 0.980 | -10.4 | 72 | 0.03 |
| 29 | T | Chloroform | 1.609 | 1.929 | -19.9 | 81 | 0.03 |
| 30 | T | Cyclohexane | 1.013 | 1.098 | -8.4 | 76 | 0.03 |
| 31 | T | cis-1,2-Dichloroethene | 1.057 | 1.239 | -17.2 | 79 | 0.03 |
| 32 | T | 1,1,1-Trichloroethane | 1.621 | 1.883 | -16.2 | 79 | 0.03 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 64 | 0.03 |
| 34 | T | 2-Butanone | 0.395 | 0.454 | -14.9 | 75 | 0.02 |
| 35 | T | Carbon Tetrachloride | 0.600 | 0.694 | -15.7 | 78 | 0.03 |
| 36 | T | Benzene | 0.910 | 0.996 | -9.5 | 76 | 0.03 |
| 37 | T | 1,2-Dichloroethane | 0.416 | 0.523 | -25.7 | 82 | 0.03 |
| 38 | T | Trichloroethene | 0.373 | 0.392 | -5.1 | 74 | 0.03 |
| 39 | T | 1,2-Dichloropropane | 0.348 | 0.387 | -11.2 | 76 | 0.03 |
| 40 | T | 1,4-Dioxane | 0.118 | 0.123 | -4.2 | 78 | 0.03 |
| 41 | T | Tetrahydrofuran | 0.375 | 0.424 | -13.1 | 76 | 0.03 |
| 42 | T | Bromodichloromethane | 0.657 | 0.782 | -19.0 | 80 | 0.03 |
| 43 | | Methyl Methacrylate | 0.348 | 0.416 | -19.5 | 77 | 0.03 |
| 44 | T | 2,2,4-Trimethylpentane | 1.540 | 1.650 | -7.1 | 76 | 0.03 |
| 45 | T | t-1,3-Dichloropropene | 0.364 | 0.421 | -15.7 | 68 | 0.03 |
| 46 | T | cis-1,3-Dichloropropene | 0.480 | 0.540 | -12.5 | 70 | 0.03 |
| 47 | T | 1,1,2-Trichloroethane | 0.357 | 0.403 | -12.9 | 77 | 0.03 |
| 48 | T | Dibromochloromethane | 0.559 | 0.651 | -16.5 | 75 | 0.03 |

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Acq On : 8 Apr 2022 9:46
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Apr 11 01:12:45 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
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) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.443 | 0.523 | -18.1 | 76 | 0.03 |
| 50 | T | 4-Methyl-2-Pentanone | 0.889 | 1.037 | -16.6 | 75 | 0.03 |
| 51 | T | 2-Hexanone | 0.670 | 0.793 | -18.4 | 74 | 0.03 |
| 52 | T | Tetrachloroethene | 0.318 | 0.328 | -3.1 | 74 | 0.03 |
| 53 | T | Toluene | 1.050 | 1.146 | -9.1 | 76 | 0.03 |
| 54 | T | 1,2-Dibromoethane | 0.495 | 0.574 | -16.0 | 77 | 0.03 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 69 | 0.03 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.438 | 0.471 | -7.5 | 77 | 0.04 |
| 57 | T | Chlorobenzene | 0.819 | 0.837 | -2.2 | 75 | 0.03 |
| 58 | T | Ethyl Benzene | 1.494 | 1.618 | -8.3 | 79 | 0.03 |
| 59 | T | m/p-Xylene | 1.255 | 1.331 | -6.1 | 80 | 0.03 |
| 60 | T | o-Xylene | 1.175 | 1.254 | -6.7 | 80 | 0.03 |
| 61 | T | Styrene | 0.716 | 0.786 | -9.8 | 76 | 0.03 |
| 62 | | Isopropylbenzene | 1.763 | 1.817 | -3.1 | 77 | 0.03 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.744 | 0.788 | -5.9 | 79 | 0.03 |
| 64 | | n-propylbenzene | 0.458 | 0.472 | -3.1 | 74 | 0.03 |
| 65 | | tert-Butylbenzene | 1.564 | 1.538 | 1.7 | 75 | 0.03 |
| 66 | T | Benzyl Chloride | 0.318 | 0.219 | 31.1# | 39 | 0.03 |
| 67 | | sec-Butylbenzene | 2.195 | 2.262 | -3.1 | 78 | 0.03 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.759 | 0.773 | -1.8 | 70 | 0.03 |
| 69 | | p-Isopropyltoluene | 1.802 | 1.856 | -3.0 | 76 | 0.03 |
| 70 | | n-Butylbenzene | 1.816 | 2.025 | -11.5 | 81 | 0.03 |
| 71 | | 2-Chlorotoluene | 1.326 | 1.436 | -8.3 | 79 | 0.03 |
| 72 | T | 4-Ethyltoluene | 1.403 | 1.527 | -8.8 | 77 | 0.03 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.260 | 1.361 | -8.0 | 77 | 0.03 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.332 | 1.402 | -5.3 | 78 | 0.03 |
| 75 | T | 1,3-Dichlorobenzene | 0.773 | 0.805 | -4.1 | 75 | 0.03 |
| 76 | T | 1,4-Dichlorobenzene | 0.762 | 0.776 | -1.8 | 73 | 0.03 |
| 77 | T | 1,2-Dichlorobenzene | 0.762 | 0.780 | -2.4 | 73 | 0.03 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.602 | 0.551 | 8.5 | 75 | 0.03 |
| 79 | T | Naphthalene | 0.996 | 1.077 | -8.1 | 69 | 0.04 |
| 80 | T | Naphthalene,2-methyl- | 0.246 | 0.219 | 11.0 | 51 | 0.02 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.583 | 0.599 | -2.7 | 72 | 0.03 |

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