# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX062019\
Data File : VX010372.D
Acq On : 20 Jun 2019 21:05
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC050

Quant Time: Jun 21 18:02:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.348 | 0.336 | 3.4 | 97 | 0.00 |
| 3 | P | Chloromethane | 0.405 | 0.372 | 8.1 | 92 | 0.00 |
| 4 | C | Vinyl Chloride | 0.443 | 0.424 | 4.3# | 98 | 0.00 |
| 5 | T | Bromomethane | 0.216 | 0.201 | 6.9 | 96 | 0.00 |
| 6 | T | Chloroethane | 0.262 | 0.255 | 2.7 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.703 | 0.705 | -0.3 | 99 | 0.00 |
| 8 | T | Diethyl Ether | 0.252 | 0.253 | -0.4 | 99 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.426 | 0.417 | 2.1 | 99 | 0.00 |
| 10 | T | Methyl Iodide | 0.608 | 0.449 | 26.2# | 69 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.123 | 0.115 | 6.5 | 95 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.433 | 0.431 | 0.5# | 98 | 0.00 |
| 13 | T | Acrolein | 0.081 | 0.059 | 27.2# | 75 | 0.00 |
| 14 | T | Allyl chloride | 0.615 | 0.620 | -0.8 | 97 | 0.00 |
| 15 | T | Acrylonitrile | 0.243 | 0.247 | -1.6 | 99 | 0.00 |
| 16 | T | Acetone | 0.235 | 0.217 | 7.7 | 85 | 0.00 |
| 17 | T | Carbon Disulfide | 1.163 | 1.117 | 4.0 | 95 | 0.00 |
| 18 | T | Methyl Acetate | 0.468 | 0.472 | -0.9 | 100 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.363 | 1.381 | -1.3 | 100 | 0.00 |
| 20 | T | Methylene Chloride | 0.484 | 0.480 | 0.8 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.466 | 0.458 | 1.7 | 98 | 0.00 |
| 22 | T | Diisopropyl ether | 1.286 | 1.301 | -1.2 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 1.111 | 1.156 | -4.1 | 98 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.744 | 0.750 | -0.8 | 99 | 0.00 |
| 25 | T | 2-Butanone | 0.345 | 0.344 | 0.3 | 94 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.646 | 0.582 | 9.9 | 89 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.539 | 0.540 | -0.2 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 0.356 | 0.332 | 6.7 | 93 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.213 | 0.217 | -1.9 | 99 | 0.00 |
| 30 | C | Chloroform | 0.800 | 0.805 | -0.6# | 100 | 0.00 |
| 31 | T | Cyclohexane | 0.677 | 0.682 | -0.7 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.706 | 0.715 | -1.3 | 98 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.469 | 0.458 | 2.3 | 94 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.306 | 0.299 | 2.3 | 94 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.397 | 0.387 | 2.5 | 98 | 0.00 |
| 37 | T | Ethyl Acetate | 0.409 | 0.422 | -3.2 | 99 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.430 | 0.433 | -0.7 | 98 | 0.00 |
| 39 | T | Methylcyclohexane | 0.522 | 0.508 | 2.7 | 97 | 0.00 |
| 40 | TM | Benzene | 1.238 | 1.235 | 0.2 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 0.224 | 0.224 | 0.0 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.377 | 0.385 | -2.1 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.676 | 0.693 | -2.5 | 100 | 0.00 |
| 44 | TM | Trichloroethene | 0.370 | 0.369 | 0.3 | 98 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.313 | 0.312 | 0.3# | 99 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.224 | 0.225 | -0.4 | 99 | 0.00 |
| 47 | T | Bromodichloromethane | 0.411 | 0.420 | -2.2 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.314 | 0.327 | -4.1 | 99 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.009 | 0.009 | 0.0 | 94 | 0.00 |
| 50 | S | Toluene-d8 | 1.170 | 1.125 | 3.8 | 92 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.433 | 0.441 | -1.8 | 99 | 0.00 |
| 52 | CM | Toluene | 0.815 | 0.805 | 1.2# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.461 | 0.463 | -0.4 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.501 | 0.508 | -1.4 | 97 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.336 | 0.336 | 0.0 | 97 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.509 | 0.524 | -2.9 | 98 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.522 | 0.522 | 0.0 | 98 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.242 | 0.244 | -0.8 | 95 | 0.00 |
| 59 | T | 2-Hexanone | 0.340 | 0.341 | -0.3 | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 0.376 | 0.384 | -2.1 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.363 | 0.368 | -1.4 | 99 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.423 | 0.413 | 2.4 | 94 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 64 | T | Tetrachloroethene | 0.404 | 0.396 | 2.0 | 98 | 0.00 |
| 65 | PM | Chlorobenzene | 1.015 | 1.012 | 0.3 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.370 | 0.384 | -3.8 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 1.714 | 1.732 | -1.1# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 0.664 | 0.672 | -1.2 | 97 | 0.00 |
| 69 | T | o-Xylene | 0.653 | 0.656 | -0.5 | 98 | 0.00 |
| 70 | T | Styrene | 1.095 | 1.127 | -2.9 | 97 | 0.00 |
| 71 | P | Bromoform | 0.322 | 0.343 | -6.5 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 73 | T | Isopropylbenzene | 3.389 | 3.438 | -1.4 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 1.281 | 1.363 | -6.4 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.122 | 1.146 | -2.1 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.911 | 0.937 | -2.9 | 98 | 0.00 |
| 77 | T | Bromobenzene | 0.946 | 0.944 | 0.2 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 3.725 | 3.826 | -2.7 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.218 | 2.226 | -0.4 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.794 | 2.849 | -2.0 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.391 | 0.390 | 0.3 | 93 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.524 | 2.570 | -1.8 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.804 | 2.835 | -1.1 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.807 | 2.869 | -2.2 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.293 | 3.344 | -1.5 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.046 | 3.092 | -1.5 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.652 | 1.647 | 0.3 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.682 | 1.628 | 3.2 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 2.588 | 2.631 | -1.7 | 95 | 0.00 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.527 | 0.567 | -7.6 | 98 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.642 | 1.613 | 1.8 | 96 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.242 | 0.245 | -1.2 | 100 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.139 | 1.135 | 0.4 | 95 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.556 | 0.535 | 3.8 | 92 | 0.00 |
| 95 T | Naphthalene | 3.499 | 3.598 | -2.8 | 96 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.132 | 1.153 | -1.9 | 96 | 0.00 |

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