# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX100318\
Data File : VX004949.D
Acq On : 03 Oct 2018 05:17
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 30 Sample Multiplier: 1

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

Quant Time: Oct 03 08:42:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
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 | 79 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.682 | 0.723 | -6.0 | 71 | 0.00 |
| 3 | P | Chloromethane | 0.827 | 0.822 | 0.6 | 73 | 0.00 |
| 4 | C | Vinyl Chloride | 0.776 | 0.785 | -1.2# | 74 | 0.00 |
| 5 | T | Bromomethane | 0.460 | 0.465 | -1.1 | 77 | 0.00 |
| 6 | T | Chloroethane | 0.495 | 0.435 | 12.1 | 75 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.960 | 0.998 | -4.0 | 74 | 0.00 |
| 8 | T | Diethyl Ether | 0.417 | 0.406 | 2.6 | 79 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.547 | 0.567 | -3.7 | 84 | 0.00 |
| 10 | T | Methyl Iodide | 0.732 | 0.550 | 24.9# | 50 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.200 | 0.206 | -3.0 | 80 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.542 | 0.527 | 2.8# | 79 | 0.00 |
| 13 | T | Acrolein | 0.142 | 0.098 | 31.0# | 55 | 0.00 |
| 14 | T | Allyl chloride | 1.182 | 1.195 | -1.1 | 77 | 0.00 |
| 15 | T | Acrylonitrile | 0.440 | 0.456 | -3.6 | 78 | 0.00 |
| 16 | T | Acetone | 0.417 | 0.412 | 1.2 | 75 | 0.00 |
| 17 | T | Carbon Disulfide | 1.628 | 1.539 | 5.5 | 72 | 0.00 |
| 18 | T | Methyl Acetate | 1.056 | 1.263 | -19.6 | 94 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.869 | 1.974 | -5.6 | 84 | 0.00 |
| 20 | T | Methylene Chloride | 0.670 | 0.626 | 6.6 | 72 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.593 | 0.566 | 4.6 | 72 | 0.00 |
| 22 | T | Diisopropyl ether | 1.991 | 2.156 | -8.3 | 83 | 0.00 |
| 23 | T | Vinyl Acetate | 1.822 | 1.782 | 2.2 | 72 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.187 | 1.128 | 5.0 | 72 | 0.00 |
| 25 | T | 2-Butanone | 0.615 | 0.639 | -3.9 | 80 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.827 | 0.522 | 36.9# | 50# | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.663 | 0.644 | 2.9 | 74 | 0.00 |
| 28 | T | Bromochloromethane | 0.559 | 0.553 | 1.1 | 80 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.382 | 0.414 | -8.4 | 80 | 0.00 |
| 30 | C | Chloroform | 1.122 | 1.082 | 3.6# | 79 | 0.00 |
| 31 | T | Cyclohexane | 0.909 | 0.923 | -1.5 | 72 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.916 | 0.900 | 1.7 | 77 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.714 | 0.684 | 4.2 | 71 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 78 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.424 | 0.390 | 8.0 | 68 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.578 | 0.534 | 7.6 | 74 | 0.00 |
| 37 | T | Ethyl Acetate | 0.767 | 0.772 | -0.7 | 78 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.608 | 0.554 | 8.9 | 72 | 0.00 |
| 39 | T | Methylcyclohexane | 0.590 | 0.602 | -2.0 | 81 | 0.00 |
| 40 | TM | Benzene | 1.810 | 1.745 | 3.6 | 78 | 0.00 |
| 41 | T | Methacrylonitrile | 0.426 | 0.434 | -1.9 | 76 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.640 | 0.610 | 4.7 | 76 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.108 | 1.120 | -1.1 | 73 | 0.00 |
| 44 | TM | Trichloroethene | 0.445 | 0.439 | 1.3 | 85 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.444 | 0.447 | -0.7# | 84 | 0.00 |

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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 30 Sample Multiplier: 1

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

Quant Time: Oct 03 08:42:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.279 | 0.285 | -2.2 | 86 | 0.00 |
| 47 | T | Bromodichloromethane | 0.522 | 0.550 | -5.4 | 86 | 0.00 |
| 48 | T | Methyl methacrylate | 0.503 | 0.569 | -13.1 | 87 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.012 | 0.013 | -8.3 | 79 | 0.00 |
| 50 | S | Toluene-d8 | 1.409 | 1.431 | -1.6 | 84 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.697 | 0.789 | -13.2 | 87 | 0.00 |
| 52 | CM | Toluene | 0.995 | 1.013 | -1.8# | 79 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.590 | 0.569 | 3.6 | 71 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.618 | 0.621 | -0.5 | 79 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.436 | 0.431 | 1.1 | 77 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.628 | 0.678 | -8.0 | 80 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.725 | 0.720 | 0.7 | 75 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.331 | 0.386 | -16.6 | 85 | 0.00 |
| 59 | T | 2-Hexanone | 0.581 | 0.628 | -8.1 | 78 | 0.00 |
| 60 | T | Dibromochloromethane | 0.436 | 0.445 | -2.1 | 73 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.467 | 0.449 | 3.9 | 71 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.508 | 0.533 | -4.9 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 64 | T | Tetrachloroethene | 0.492 | 0.497 | -1.0 | 83 | 0.00 |
| 65 | PM | Chlorobenzene | 1.282 | 1.181 | 7.9 | 78 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.451 | 0.436 | 3.3 | 83 | 0.00 |
| 67 | C | Ethyl Benzene | 2.036 | 2.011 | 1.2# | 84 | 0.00 |
| 68 | T | m/p-Xylenes | 0.795 | 0.792 | 0.4 | 80 | 0.00 |
| 69 | T | o-Xylene | 0.731 | 0.754 | -3.1 | 85 | 0.00 |
| 70 | T | Styrene | 1.227 | 1.283 | -4.6 | 84 | 0.00 |
| 71 | P | Bromoform | 0.386 | 0.388 | -0.5 | 82 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 3.152 | 3.277 | -4.0 | 86 | 0.00 |
| 74 | T | N-amyl acetate | 1.531 | 1.650 | -7.8 | 88 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.283 | 1.203 | 6.2 | 87 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.121 | 1.092 | 2.6 | 86 | 0.00 |
| 77 | T | Bromobenzene | 0.915 | 0.882 | 3.6 | 85 | 0.00 |
| 78 | T | n-propylbenzene | 3.616 | 3.771 | -4.3 | 85 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.254 | 2.288 | -1.5 | 86 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.664 | 2.807 | -5.4 | 85 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.367 | 0.310 | 15.5 | 74 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.653 | 2.683 | -1.1 | 85 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.595 | 2.684 | -3.4 | 85 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.728 | 2.903 | -6.4 | 85 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.161 | 3.294 | -4.2 | 86 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.863 | 2.975 | -3.9 | 86 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.709 | 1.623 | 5.0 | 84 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.765 | 1.661 | 5.9 | 85 | 0.00 |
| 89 | T | n-Butylbenzene | 2.601 | 2.621 | -0.8 | 84 | 0.00 |

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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 30 Sample Multiplier: 1

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

Quant Time: Oct 03 08:42:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
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) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.477 | 0.464 | 2.7 | 89 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.786 | 1.664 | 6.8 | 84 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.282 | 0.289 | -2.5 | 93 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.253 | 1.229 | 1.9 | 85 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.650 | 0.599 | 7.8 | 86 | 0.00 |
| 95 T | Naphthalene | 3.727 | 4.089 | -9.7 | 88 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.294 | 1.300 | -0.5 | 87 | 0.00 |

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