# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX051520\
Data File : VX016294.D
Acq On : 15 May 2020 20:21
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

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

Quant Time: May 16 08:23:34 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.529 | 0.534 | -0.9 | 76 | 0.00 |
| 3 | P | Chloromethane | 0.615 | 0.532 | 13.5 | 67 | 0.00 |
| 4 | C | Vinyl Chloride | 0.656 | 0.635 | 3.2# | 76 | 0.00 |
| 5 | T | Bromomethane | 0.331 | 0.183 | 44.7# | 44# | 0.00 |
| 6 | T | Chloroethane | 0.399 | 0.390 | 2.3 | 74 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.861 | 0.845 | 1.9 | 75 | 0.00 |
| 8 | T | Diethyl Ether | 0.363 | 0.360 | 0.8 | 78 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.497 | 0.467 | 6.0 | 72 | 0.00 |
| 10 | T | Methyl Iodide | 0.667 | 0.288 | 56.8# | 32# | 0.00 |
| 11 | T | Tert butyl alcohol | 0.166 | 0.169 | -1.8 | 78 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.520 | 0.494 | 5.0# | 74 | 0.00 |
| 13 | T | Acrolein | 0.104 | 0.128 | -23.1 | 97 | 0.00 |
| 14 | T | Allyl chloride | 0.953 | 0.894 | 6.2 | 73 | 0.00 |
| 15 | T | Acrylonitrile | 0.345 | 0.360 | -4.3 | 81 | 0.00 |
| 16 | T | Acetone | 0.294 | 0.284 | 3.4 | 75 | 0.00 |
| 17 | T | Carbon Disulfide | 1.769 | 1.402 | 20.7 | 69 | 0.00 |
| 18 | T | Methyl Acetate | 0.722 | 0.779 | -7.9 | 84 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.792 | 1.895 | -5.7 | 81 | 0.00 |
| 20 | T | Methylene Chloride | 0.605 | 0.588 | 2.8 | 78 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.579 | 0.558 | 3.6 | 78 | 0.00 |
| 22 | T | Diisopropyl ether | 1.798 | 1.804 | -0.3 | 78 | 0.00 |
| 23 | T | Vinyl Acetate | 1.582 | 1.594 | -0.8 | 76 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.006 | 1.031 | -2.5 | 79 | 0.00 |
| 25 | T | 2-Butanone | 0.473 | 0.493 | -4.2 | 79 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.918 | 0.743 | 19.1 | 64 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.633 | 0.659 | -4.1 | 81 | 0.00 |
| 28 | T | Bromochloromethane | 0.459 | 0.458 | 0.2 | 79 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.313 | 0.321 | -2.6 | 78 | 0.00 |
| 30 | C | Chloroform | 1.001 | 1.046 | -4.5# | 80 | 0.00 |
| 31 | T | Cyclohexane | 0.914 | 0.828 | 9.4 | 69 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.910 | 0.933 | -2.5 | 79 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.658 | 0.630 | 4.3 | 79 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.317 | 0.306 | 3.5 | 82 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.492 | 0.465 | 5.5 | 78 | 0.00 |
| 37 | T | Ethyl Acetate | 0.570 | 0.555 | 2.6 | 78 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.500 | 0.488 | 2.4 | 79 | 0.00 |
| 39 | T | Methylcyclohexane | 0.593 | 0.411 | 30.7# | 56 | 0.00 |
| 40 | TM | Benzene | 1.440 | 1.424 | 1.1 | 81 | 0.00 |
| 41 | T | Methacrylonitrile | 0.308 | 0.303 | 1.6 | 78 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.519 | 0.493 | 5.0 | 78 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.910 | 0.884 | 2.9 | 78 | 0.00 |
| 44 | TM | Trichloroethene | 0.512 | 0.412 | 19.5 | 68 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.364 | 0.370 | -1.6# | 82 | 0.00 |

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Data File : VX016294.D
Acq On : 15 May 2020 20:21
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 27 Sample Multiplier: 1

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

Quant Time: May 16 08:23:34 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.248 | 0.246 | 0.8 | 81 | 0.00 |
| 47 | T | Bromodichloromethane | 0.504 | 0.513 | -1.8 | 81 | 0.00 |
| 48 | T | Methyl methacrylate | 0.431 | 0.419 | 2.8 | 78 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.010 | 0.0 | 77 | 0.00 |
| 50 | S | Toluene-d8 | 1.221 | 1.197 | 2.0 | 82 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.557 | 0.567 | -1.8 | 79 | 0.00 |
| 52 | CM | Toluene | 0.898 | 0.907 | -1.0# | 81 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.601 | 0.587 | 2.3 | 79 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.628 | 0.617 | 1.8 | 79 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.353 | 0.372 | -5.4 | 84 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.576 | 0.617 | -7.1 | 84 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.616 | 0.639 | -3.7 | 83 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.307 | 0.305 | 0.7 | 79 | 0.00 |
| 59 | T | 2-Hexanone | 0.437 | 0.445 | -1.8 | 80 | 0.00 |
| 60 | T | Dibromochloromethane | 0.389 | 0.415 | -6.7 | 83 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.383 | 0.394 | -2.9 | 81 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.464 | 0.458 | 1.3 | 83 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 82 | 0.00 |
| 64 | T | Tetrachloroethene | 0.614 | 0.445 | 27.5# | 61 | 0.00 |
| 65 | PM | Chlorobenzene | 1.047 | 1.030 | 1.6 | 81 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.387 | 0.404 | -4.4 | 84 | 0.00 |
| 67 | C | Ethyl Benzene | 1.868 | 1.792 | 4.1# | 78 | 0.00 |
| 68 | T | m/p-Xylenes | 0.700 | 0.680 | 2.9 | 77 | 0.00 |
| 69 | T | o-Xylene | 0.673 | 0.662 | 1.6 | 79 | 0.00 |
| 70 | T | Styrene | 1.141 | 1.178 | -3.2 | 81 | 0.00 |
| 71 | P | Bromoform | 0.315 | 0.343 | -8.9 | 85 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 78 | 0.00 |
| 73 | T | Isopropylbenzene | 3.637 | 3.430 | 5.7 | 73 | 0.00 |
| 74 | T | N-amyl acetate | 1.696 | 1.723 | -1.6 | 79 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.641 | 1.133 | -76.8# | 125 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.135 | 1.169 | -3.0 | 80 | 0.00 |
| 77 | T | Bromobenzene | 0.939 | 0.936 | 0.3 | 80 | 0.00 |
| 78 | T | n-propylbenzene | 4.231 | 3.847 | 9.1 | 72 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.497 | 2.434 | 2.5 | 78 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.071 | 2.841 | 7.5 | 72 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.476 | 0.464 | 2.5 | 75 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.949 | 2.853 | 3.3 | 77 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.646 | 2.471 | 6.6 | 74 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.104 | 2.864 | 7.7 | 72 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.573 | 2.825 | 20.9 | 62 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.317 | 2.594 | 21.8 | 61 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.685 | 1.558 | 7.5 | 75 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.711 | 1.607 | 6.1 | 76 | 0.00 |
| 89 | T | n-Butylbenzene | 3.030 | 2.130 | 29.7# | 56 | 0.00 |

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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 27 Sample Multiplier: 1

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

Quant Time: May 16 08:23:34 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.570 | 0.468 | 17.9 | 63 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.623 | 1.565 | 3.6 | 78 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.299 | 0.315 | -5.4 | 85 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.202 | 0.955 | 20.5 | 66 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.556 | 0.280 | 49.6# | 42# | 0.00 |
| 95 T | Naphthalene | 3.891 | 3.671 | 5.7 | 75 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.174 | 0.927 | 21.0 | 64 | 0.00 |

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