# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX073120\
Data File : VX017715.D
Acq On : 31 Jul 2020 21:11
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 30 Sample Multiplier: 1

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

Quant Time: Aug 01 04:29:43 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
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 | 70 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.523 | 0.302 | 42.3# | 45# | 0.00 |
| 3 | P | Chloromethane | 0.663 | 0.629 | 5.1 | 71 | 0.00 |
| 4 | C | Vinyl Chloride | 0.629 | 0.536 | 14.8# | 62 | 0.00 |
| 5 | T | Bromomethane | 0.365 | 0.384 | -5.2 | 74 | 0.00 |
| 6 | T | Chloroethane | 0.380 | 0.377 | 0.8 | 73 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.990 | 0.744 | 24.8# | 56 | 0.00 |
| 8 | T | Diethyl Ether | 0.358 | 0.404 | -12.8 | 82 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.543 | 0.335 | 38.3# | 44# | 0.00 |
| 10 | T | Methyl Iodide | 0.695 | 0.726 | -4.5 | 69 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.135 | 0.169 | -25.2# | 80 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.516 | 0.460 | 10.9# | 63 | 0.00 |
| 13 | T | Acrolein | 0.094 | 0.152 | -61.7# | 97 | 0.00 |
| 14 | T | Allyl chloride | 0.943 | 1.049 | -11.2 | 75 | 0.00 |
| 15 | T | Acrylonitrile | 0.292 | 0.391 | -33.9# | 86 | 0.00 |
| 16 | T | Acetone | 0.283 | 0.354 | -25.1# | 86 | 0.00 |
| 17 | T | Carbon Disulfide | 1.570 | 1.323 | 15.7 | 60 | 0.00 |
| 18 | T | Methyl Acetate | 0.666 | 0.912 | -36.9# | 89 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.788 | 2.218 | -24.0# | 84 | 0.00 |
| 20 | T | Methylene Chloride | 0.622 | 0.693 | -11.4 | 82 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.553 | 0.588 | -6.3 | 74 | 0.00 |
| 22 | T | Diisopropyl ether | 1.724 | 2.167 | -25.7# | 90 | 0.00 |
| 23 | T | Vinyl Acetate | 1.537 | 2.010 | -30.8# | 90 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.993 | 1.168 | -17.6 | 87 | 0.00 |
| 25 | T | 2-Butanone | 0.402 | 0.545 | -35.6# | 92 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.889 | 0.899 | -1.1 | 74 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.601 | 0.723 | -20.3# | 87 | 0.00 |
| 28 | T | Bromochloromethane | 0.450 | 0.573 | -27.3# | 92 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.249 | 0.351 | -41.0# | 92 | 0.00 |
| 30 | C | Chloroform | 1.015 | 1.283 | -26.4# | 92 | 0.00 |
| 31 | T | Cyclohexane | 0.792 | 0.566 | 28.5# | 52 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.957 | 1.030 | -7.6 | 78 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.642 | 0.834 | -29.9# | 87 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.334 | 0.376 | -12.6 | 88 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.480 | 0.415 | 13.5 | 72 | 0.00 |
| 37 | T | Ethyl Acetate | 0.525 | 0.604 | -15.0 | 85 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.582 | 0.496 | 14.8 | 71 | 0.00 |
| 39 | T | Methylcyclohexane | 0.560 | 0.283 | 49.5# | 43# | 0.00 |
| 40 | TM | Benzene | 1.375 | 1.399 | -1.7 | 82 | 0.00 |
| 41 | T | Methacrylonitrile | 0.301 | 0.346 | -15.0 | 92 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.562 | 0.619 | -10.1 | 88 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.866 | 0.975 | -12.6 | 80 | 0.00 |
| 44 | TM | Trichloroethene | 0.402 | 0.390 | 3.0 | 80 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.381 | 0.390 | -2.4# | 90 | 0.00 |

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

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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 | 0.269 | 0.287 | -6.7 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 0.542 | 0.588 | -8.5 | 90 | 0.00 |
| 48 | T | Methyl methacrylate | 0.429 | 0.477 | -11.2 | 90 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.008 | 0.010 | -25.0# | 97 | 0.00 |
| 50 | S | Toluene-d8 | 1.206 | 1.210 | -0.3 | 79 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.517 | 0.608 | -17.6 | 88 | 0.00 |
| 52 | CM | Toluene | 0.882 | 0.886 | -0.5# | 83 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.607 | 0.663 | -9.2 | 84 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.619 | 0.666 | -7.6 | 87 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.367 | 0.417 | -13.6 | 89 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.553 | 0.637 | -15.2 | 85 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.605 | 0.676 | -11.7 | 86 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.292 | 0.313 | -7.2 | 81 | 0.00 |
| 59 | T | 2-Hexanone | 0.389 | 0.454 | -16.7 | 84 | 0.00 |
| 60 | T | Dibromochloromethane | 0.467 | 0.515 | -10.3 | 86 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.391 | 0.452 | -15.6 | 87 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.483 | 0.492 | -1.9 | 85 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 64 | T | Tetrachloroethene | 0.449 | 0.381 | 15.1 | 74 | 0.00 |
| 65 | PM | Chlorobenzene | 1.082 | 1.042 | 3.7 | 82 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.437 | 0.455 | -4.1 | 89 | 0.00 |
| 67 | C | Ethyl Benzene | 1.807 | 1.696 | 6.1# | 79 | 0.00 |
| 68 | T | m/p-Xylenes | 0.700 | 0.642 | 8.3 | 76 | 0.00 |
| 69 | T | o-Xylene | 0.673 | 0.642 | 4.6 | 79 | 0.00 |
| 70 | T | Styrene | 1.145 | 1.172 | -2.4 | 81 | 0.00 |
| 71 | P | Bromoform | 0.378 | 0.413 | -9.3 | 88 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 73 | T | Isopropylbenzene | 3.430 | 2.898 | 15.5 | 78 | 0.00 |
| 74 | T | N-amyl acetate | 1.524 | 1.478 | 3.0 | 82 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.071 | 1.049 | 2.1 | 95 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.029 | 1.039 | -1.0 | 92 | 0.00 |
| 77 | T | Bromobenzene | 0.960 | 0.895 | 6.8 | 86 | 0.00 |
| 78 | T | n-propylbenzene | 3.869 | 3.331 | 13.9 | 80 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.396 | 2.232 | 6.8 | 87 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.929 | 2.664 | 9.0 | 81 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.408 | 0.395 | 3.2 | 89 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.827 | 2.665 | 5.7 | 87 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.802 | 2.375 | 15.2 | 76 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.913 | 2.719 | 6.7 | 82 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.264 | 2.603 | 20.3# | 72 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.109 | 2.638 | 15.1 | 76 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.649 | 1.526 | 7.5 | 84 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.708 | 1.603 | 6.1 | 88 | 0.00 |
| 89 | T | n-Butylbenzene | 2.770 | 2.040 | 26.4# | 68 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.613 | 0.530 | 13.5 | 81 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.621 | 1.503 | 7.3 | 88 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.296 | 0.284 | 4.1 | 92 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.106 | 0.995 | 10.0 | 79 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.509 | 0.343 | 32.6# | 60 | 0.00 |
| 95 T | Naphthalene | 3.302 | 3.400 | -3.0 | 85 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.092 | 1.078 | 1.3 | 86 | 0.00 |

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