# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX080918\
Data File : VX003940.D
Acq On : 09 Aug 2018 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Aug 10 01:10:58 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 07:45:48 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 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.507 | 0.517 | -2.0 | 102 | 0.00 |
| 3 | P | Chloromethane | 0.689 | 0.589 | 14.5 | 91 | 0.00 |
| 4 | C | Vinyl Chloride | 0.688 | 0.651 | 5.4# | 99 | 0.00 |
| 5 | T | Bromomethane | 0.438 | 0.313 | 28.5# | 82 | 0.00 |
| 6 | T | Chloroethane | 0.440 | 0.479 | -8.9 | 107 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.908 | 0.904 | 0.4 | 105 | 0.00 |
| 8 | T | Diethyl Ether | 0.408 | 0.402 | 1.5 | 104 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.567 | 0.577 | -1.8 | 110 | 0.00 |
| 10 | T | Methyl Iodide | 0.706 | 0.513 | 27.3# | 73 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.159 | 0.141 | 11.3 | 92 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.537 | 0.531 | 1.1# | 105 | 0.00 |
| 13 | T | Acrolein | 0.088 | 0.065 | 26.1# | 82 | 0.00 |
| 14 | T | Allyl chloride | 1.035 | 1.009 | 2.5 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 0.380 | 0.345 | 9.2 | 95 | 0.00 |
| 16 | T | Acetone | 0.394 | 0.398 | -1.0 | 108 | 0.00 |
| 17 | T | Carbon Disulfide | 1.637 | 1.463 | 10.6 | 101 | 0.00 |
| 18 | T | Methyl Acetate | 0.859 | 0.810 | 5.7 | 99 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.902 | 1.897 | 0.3 | 104 | 0.00 |
| 20 | T | Methylene Chloride | 0.956 | 0.615 | 35.7# | 102 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.609 | 0.584 | 4.1 | 104 | 0.00 |
| 22 | T | Diisopropyl ether | 1.902 | 1.848 | 2.8 | 103 | 0.00 |
| 23 | T | Vinyl Acetate | 1.582 | 1.570 | 0.8 | 102 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.130 | 1.085 | 4.0 | 101 | 0.00 |
| 25 | T | 2-Butanone | 0.593 | 0.580 | 2.2 | 100 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.815 | 0.902 | -10.7 | 118 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.661 | 0.674 | -2.0 | 109 | 0.00 |
| 28 | T | Bromochloromethane | 0.483 | 0.483 | 0.0 | 103 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.305 | 0.283 | 7.2 | 96 | 0.00 |
| 30 | C | Chloroform | 1.063 | 1.071 | -0.8# | 105 | 0.00 |
| 31 | T | Cyclohexane | 0.955 | 0.971 | -1.7 | 105 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.892 | 0.929 | -4.1 | 106 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.663 | 0.632 | 4.7 | 98 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.379 | 0.377 | 0.5 | 97 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.560 | 0.598 | -6.8 | 109 | 0.00 |
| 37 | T | Ethyl Acetate | 0.616 | 0.607 | 1.5 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.533 | 0.566 | -6.2 | 104 | 0.00 |
| 39 | T | Methylcyclohexane | 0.660 | 0.728 | -10.3 | 110 | 0.00 |
| 40 | TM | Benzene | 1.682 | 1.766 | -5.0 | 106 | 0.00 |
| 41 | T | Methacrylonitrile | 0.339 | 0.340 | -0.3 | 100 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.569 | 0.598 | -5.1 | 106 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.927 | 0.970 | -4.6 | 102 | 0.00 |
| 44 | TM | Trichloroethene | 0.460 | 0.481 | -4.6 | 109 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.434 | 0.454 | -4.6# | 105 | 0.00 |

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

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.282 | 0.290 | -2.8 | 104 | 0.00 |
| 47 | T | Bromodichloromethane | 0.531 | 0.570 | -7.3 | 105 | 0.00 |
| 48 | T | Methyl methacrylate | 0.471 | 0.499 | -5.9 | 101 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.011 | 0.011 | 0.0 | 95 | 0.00 |
| 50 | S | Toluene-d8 | 1.473 | 1.459 | 1.0 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.768 | 0.787 | -2.5 | 98 | 0.00 |
| 52 | CM | Toluene | 1.063 | 1.145 | -7.7# | 105 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.600 | 0.665 | -10.8 | 107 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.647 | 0.719 | -11.1 | 106 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.434 | 0.451 | -3.9 | 103 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.630 | 0.703 | -11.6 | 105 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.727 | 0.761 | -4.7 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.310 | 0.314 | -1.3 | 94 | 0.00 |
| 59 | T | 2-Hexanone | 0.574 | 0.611 | -6.4 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 0.405 | 0.464 | -14.6 | 109 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.435 | 0.472 | -8.5 | 108 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.477 | 0.555 | -16.4 | 119 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 64 | T | Tetrachloroethene | 0.492 | 0.486 | 1.2 | 110 | 0.00 |
| 65 | PM | Chlorobenzene | 1.301 | 1.341 | -3.1 | 109 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.447 | 0.477 | -6.7 | 108 | 0.00 |
| 67 | C | Ethyl Benzene | 2.130 | 2.307 | -8.3# | 112 | 0.00 |
| 68 | T | m/p-Xylenes | 0.832 | 0.926 | -11.3 | 115 | 0.00 |
| 69 | T | o-Xylene | 0.786 | 0.893 | -13.6 | 115 | 0.00 |
| 70 | T | Styrene | 1.286 | 1.487 | -15.6 | 117 | 0.00 |
| 71 | P | Bromoform | 0.334 | 0.389 | -16.5 | 116 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 73 | T | Isopropylbenzene | 3.699 | 3.843 | -3.9 | 115 | 0.00 |
| 74 | T | N-amyl acetate | 1.923 | 1.669 | 13.2 | 102 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.268 | 1.211 | 4.5 | 120 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.104 | 1.073 | 2.8 | 119 | 0.00 |
| 77 | T | Bromobenzene | 0.987 | 1.006 | -1.9 | 128 | 0.00 |
| 78 | T | n-propylbenzene | 4.153 | 4.439 | -6.9 | 126 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.532 | 2.545 | -0.5 | 124 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.016 | 3.183 | -5.5 | 125 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.362 | 0.382 | -5.5 | 118 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.967 | 2.988 | -0.7 | 123 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.967 | 3.211 | -8.2 | 126 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.033 | 3.262 | -7.6 | 124 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.502 | 3.793 | -8.3 | 124 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.142 | 3.503 | -11.5 | 127 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.824 | 1.876 | -2.9 | 127 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.892 | 1.863 | 1.5 | 125 | 0.00 |
| 89 | T | n-Butylbenzene | 2.738 | 2.918 | -6.6 | 123 | 0.00 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.510 | 0.514 | -0.8 | 116 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.808 | 1.753 | 3.0 | 118 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.260 | 0.241 | 7.3 | 107 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.300 | 1.317 | -1.3 | 121 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.609 | 0.608 | 0.2 | 126 | 0.00 |
| 95 T | Naphthalene | 3.724 | 4.088 | -9.8 | 120 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.298 | 1.403 | -8.1 | 128 | 0.00 |

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