# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX110818\
Data File : VX005839.D
Acq On : 08 Nov 2018 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Nov 08 12:09:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 07 14:40:53 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 | 0.451 | 0.486 | -7.8 | 109 | 0.00 |
| 3 | P | Chloromethane | 0.592 | 0.559 | 5.6 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 0.594 | 0.589 | 0.8# | 99 | 0.00 |
| 5 | T | Bromomethane | 0.363 | 0.323 | 11.0 | 93 | 0.00 |
| 6 | T | Chloroethane | 0.354 | 0.350 | 1.1 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.788 | 0.777 | 1.4 | 99 | 0.00 |
| 8 | T | Diethyl Ether | 0.309 | 0.324 | -4.9 | 111 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.453 | 0.484 | -6.8 | 112 | 0.00 |
| 10 | T | Methyl Iodide | 0.550 | 0.426 | 22.5# | 74 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.165 | 0.147 | 10.9 | 95 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.442 | 0.433 | 2.0# | 102 | 0.00 |
| 13 | T | Acrolein | 0.070 | 0.071 | -1.4 | 97 | 0.00 |
| 14 | T | Allyl chloride | 0.987 | 0.999 | -1.2 | 103 | 0.00 |
| 15 | T | Acrylonitrile | 0.341 | 0.334 | 2.1 | 98 | 0.00 |
| 16 | T | Acetone | 0.309 | 0.325 | -5.2 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 1.318 | 1.384 | -5.0 | 106 | 0.00 |
| 18 | T | Methyl Acetate | 0.921 | 0.848 | 7.9 | 102 | -0.01 |
| 19 | T | Methyl tert-butyl Ether | 1.508 | 1.580 | -4.8 | 106 | 0.00 |
| 20 | T | Methylene Chloride | 0.508 | 0.491 | 3.3 | 104 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.466 | 0.464 | 0.4 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 1.729 | 1.782 | -3.1 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 1.483 | 1.602 | -8.0 | 108 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.922 | 0.942 | -2.2 | 107 | 0.00 |
| 25 | T | 2-Butanone | 0.487 | 0.490 | -0.6 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.677 | 0.750 | -10.8 | 111 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.515 | 0.524 | -1.7 | 102 | 0.00 |
| 28 | T | Bromochloromethane | 0.412 | 0.469 | -13.8 | 104 | -0.01 |
| 29 | T | Tetrahydrofuran | 0.312 | 0.309 | 1.0 | 94 | -0.01 |
| 30 | C | Chloroform | 0.890 | 0.901 | -1.2# | 103 | 0.00 |
| 31 | T | Cyclohexane | 0.801 | 0.864 | -7.9 | 106 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.742 | 0.772 | -4.0 | 102 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.575 | 0.593 | -3.1 | 104 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.340 | 0.346 | -1.8 | 107 | -0.01 |
| 36 | T | 1,1-Dichloropropene | 0.482 | 0.461 | 4.4 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 0.634 | 0.605 | 4.6 | 100 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.476 | 1.4 | 105 | 0.00 |
| 39 | T | Methylcyclohexane | 0.489 | 0.501 | -2.5 | 105 | 0.00 |
| 40 | TM | Benzene | 1.405 | 1.284 | 8.6 | 96 | 0.00 |
| 41 | T | Methacrylonitrile | 0.343 | 0.342 | 0.3 | 104 | 0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.503 | 0.475 | 5.6 | 101 | 0.01 |
| 43 | T | Isopropyl Acetate | 0.918 | 0.860 | 6.3 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 0.357 | 0.331 | 7.3 | 101 | 0.01 |
| 45 | C | 1,2-Dichloropropane | 0.341 | 0.306 | 10.3# | 98 | 0.00 |

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

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Quant Title : SW846 8260
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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.214 | 0.197 | 7.9 | 101 | 0.00 |
| 47 | T | Bromodichloromethane | 0.404 | 0.392 | 3.0 | 104 | 0.00 |
| 48 | T | Methyl methacrylate | 0.412 | 0.402 | 2.4 | 100 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.009 | 0.008 | 11.1 | 101 | 0.00 |
| 50 | S | Toluene-d8 | 1.131 | 1.098 | 2.9 | 104 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.579 | 0.537 | 7.3 | 101 | 0.00 |
| 52 | CM | Toluene | 0.785 | 0.712 | 9.3# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.477 | 0.450 | 5.7 | 93 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.486 | 0.480 | 1.2 | 105 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.350 | 0.291 | 16.9 | 94 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.524 | 0.466 | 11.1 | 91 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.588 | 0.491 | 16.5 | 89 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.257 | 0.261 | -1.6 | 102 | 0.00 |
| 59 | T | 2-Hexanone | 0.510 | 0.427 | 16.3 | 85 | 0.00 |
| 60 | T | Dibromochloromethane | 0.378 | 0.321 | 15.1 | 86 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.387 | 0.307 | 20.7# | 85 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.406 | 0.416 | -2.5 | 108 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 64 | T | Tetrachloroethene | 0.426 | 0.412 | 3.3 | 81 | 0.00 |
| 65 | PM | Chlorobenzene | 1.002 | 1.025 | -2.3 | 89 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.348 | 0.377 | -8.3 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 1.606 | 1.797 | -11.9# | 94 | 0.00 |
| 68 | T | m/p-Xylenes | 0.613 | 0.701 | -14.4 | 103 | 0.00 |
| 69 | T | o-Xylene | 0.549 | 0.654 | -19.1 | 104 | 0.00 |
| 70 | T | Styrene | 0.906 | 1.103 | -21.7# | 104 | 0.00 |
| 71 | P | Bromoform | 0.292 | 0.340 | -16.4 | 105 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 2.891 | 3.171 | -9.7 | 105 | 0.00 |
| 74 | T | N-amyl acetate | 1.473 | 1.568 | -6.4 | 104 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.061 | 1.042 | 1.8 | 101 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.018 | 1.047 | -2.8 | 103 | 0.00 |
| 77 | T | Bromobenzene | 0.815 | 0.828 | -1.6 | 104 | 0.00 |
| 78 | T | n-propylbenzene | 3.408 | 3.766 | -10.5 | 106 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.060 | 2.186 | -6.1 | 105 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.457 | 2.733 | -11.2 | 105 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.319 | 0.333 | -4.4 | 104 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.427 | 2.625 | -8.2 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.486 | 2.668 | -7.3 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.543 | 2.824 | -11.0 | 105 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.040 | 3.297 | -8.5 | 106 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.693 | 3.014 | -11.9 | 107 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.564 | 1.561 | 0.2 | 105 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.601 | 1.590 | 0.7 | 105 | 0.00 |
| 89 | T | n-Butylbenzene | 2.495 | 2.745 | -10.0 | 108 | 0.00 |

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Response via : Initial Calibration

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.450 | 0.492 | -9.3 | 109 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.567 | 1.560 | 0.4 | 104 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.259 | 0.269 | -3.9 | 100 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.103 | 1.211 | -9.8 | 107 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.579 | 0.611 | -5.5 | 108 | 0.00 |
| 95 T | Naphthalene | 3.195 | 3.587 | -12.3 | 103 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.124 | 1.220 | -8.5 | 106 | 0.00 |

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