# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072518\
Data File : VX003668.D
Acq On : 25 Jul 2018 19:57
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Jul 27 04:27:54 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072418W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 27 02:16:51 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 | 92 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.569 | 0.559 | 1.8 | 100 | 0.00 |
| 3 | P | Chloromethane | 0.750 | 0.800 | -6.7 | 105 | 0.00 |
| 4 | C | Vinyl Chloride | 0.767 | 0.855 | -11.5# | 105 | 0.00 |
| 5 | T | Bromomethane | 0.370 | 0.474 | -28.1# | 121 | 0.00 |
| 6 | T | Chloroethane | 0.468 | 0.573 | -22.4# | 111 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.988 | 1.096 | -10.9 | 105 | 0.00 |
| 8 | T | Diethyl Ether | 0.433 | 0.479 | -10.6 | 105 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.608 | 0.672 | -10.5 | 106 | 0.00 |
| 10 | T | Methyl Iodide | 0.753 | 0.955 | -26.8# | 114 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.177 | 0.202 | -14.1 | 107 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.578 | 0.646 | -11.8# | 107 | 0.00 |
| 13 | T | Acrolein | 0.082 | 0.084 | -2.4 | 82 | 0.00 |
| 14 | T | Allyl chloride | 1.206 | 1.323 | -9.7 | 102 | 0.00 |
| 15 | T | Acrylonitrile | 0.428 | 0.484 | -13.1 | 108 | 0.00 |
| 16 | T | Acetone | 0.348 | 0.390 | -12.1 | 108 | 0.00 |
| 17 | T | Carbon Disulfide | 1.664 | 1.783 | -7.2 | 103 | 0.00 |
| 18 | T | Methyl Acetate | 1.051 | 1.209 | -15.0 | 110 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.043 | 2.373 | -16.2 | 109 | 0.00 |
| 20 | T | Methylene Chloride | 0.689 | 0.770 | -11.8 | 106 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.622 | 0.713 | -14.6 | 108 | 0.00 |
| 22 | T | Diisopropyl ether | 2.201 | 2.572 | -16.9 | 109 | 0.00 |
| 23 | T | Vinyl Acetate | 1.886 | 2.189 | -16.1 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.241 | 1.380 | -11.2 | 107 | 0.00 |
| 25 | T | 2-Butanone | 0.538 | 0.596 | -10.8 | 104 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.784 | 0.821 | -4.7 | 97 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.675 | 0.765 | -13.3 | 106 | 0.00 |
| 28 | T | Bromochloromethane | 0.498 | 0.523 | -5.0 | 103 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.350 | 0.364 | -4.0 | 94 | 0.00 |
| 30 | C | Chloroform | 1.125 | 1.168 | -3.8# | 98 | 0.00 |
| 31 | T | Cyclohexane | 0.996 | 0.966 | 3.0 | 89 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.935 | 0.969 | -3.6 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.741 | 0.756 | -2.0 | 96 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.409 | 0.434 | -6.1 | 95 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.584 | 0.574 | 1.7 | 91 | 0.00 |
| 37 | T | Ethyl Acetate | 0.703 | 0.778 | -10.7 | 103 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.563 | 0.568 | -0.9 | 92 | 0.00 |
| 39 | T | Methylcyclohexane | 0.643 | 0.651 | -1.2 | 88 | 0.00 |
| 40 | TM | Benzene | 1.730 | 1.694 | 2.1 | 88 | 0.00 |
| 41 | T | Methacrylonitrile | 0.389 | 0.424 | -9.0 | 100 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.609 | 0.619 | -1.6 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.025 | 1.027 | -0.2 | 88 | 0.00 |
| 44 | TM | Trichloroethene | 0.464 | 0.448 | 3.4 | 88 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.447 | 0.449 | -0.4# | 89 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.287 | 0.290 | -1.0 | 91 | 0.00 |
| 47 | T | Bromodichloromethane | 0.538 | 0.557 | -3.5 | 91 | 0.00 |
| 48 | T | Methyl methacrylate | 0.520 | 0.571 | -9.8 | 95 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.012 | 0.012 | 0.0 | 86 | 0.00 |
| 50 | S | Toluene-d8 | 1.560 | 1.601 | -2.6 | 92 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.692 | 0.717 | -3.6 | 91 | 0.00 |
| 52 | CM | Toluene | 1.075 | 1.088 | -1.2# | 90 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.596 | 0.656 | -10.1 | 95 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.656 | 0.681 | -3.8 | 90 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.439 | 0.469 | -6.8 | 94 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.654 | 0.745 | -13.9 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.738 | 0.753 | -2.0 | 91 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.329 | 0.351 | -6.7 | 90 | 0.00 |
| 59 | T | 2-Hexanone | 0.531 | 0.559 | -5.3 | 91 | 0.00 |
| 60 | T | Dibromochloromethane | 0.417 | 0.448 | -7.4 | 91 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.458 | 0.481 | -5.0 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.569 | 0.604 | -6.2 | 94 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 108 | 0.00 |
| 64 | T | Tetrachloroethene | 0.457 | 0.357 | 21.9# | 87 | 0.00 |
| 65 | PM | Chlorobenzene | 1.258 | 1.220 | 3.0 | 107 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.437 | 0.428 | 2.1 | 105 | 0.00 |
| 67 | C | Ethyl Benzene | 2.106 | 2.075 | 1.5# | 105 | 0.00 |
| 68 | T | m/p-Xylenes | 0.808 | 0.775 | 4.1 | 100 | 0.00 |
| 69 | T | o-Xylene | 0.778 | 0.690 | 11.3 | 93 | 0.00 |
| 70 | T | Styrene | 1.307 | 1.167 | 10.7 | 92 | 0.00 |
| 71 | P | Bromoform | 0.346 | 0.296 | 14.5 | 89 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 3.416 | 3.280 | 4.0 | 91 | 0.00 |
| 74 | T | N-amyl acetate | 1.782 | 1.587 | 10.9 | 88 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.262 | 1.170 | 7.3 | 94 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.049 | 1.135 | -8.2 | 107 | 0.00 |
| 77 | T | Bromobenzene | 0.928 | 0.850 | 8.4 | 91 | 0.00 |
| 78 | T | n-propylbenzene | 3.945 | 4.151 | -5.2 | 99 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.398 | 2.272 | 5.3 | 92 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.890 | 2.788 | 3.5 | 91 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.338 | 0.333 | 1.5 | 91 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.824 | 2.655 | 6.0 | 91 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.828 | 3.045 | -7.7 | 103 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.970 | 3.004 | -1.1 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.376 | 3.332 | 1.3 | 93 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.030 | 3.043 | -0.4 | 94 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.728 | 1.580 | 8.6 | 91 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.797 | 1.621 | 9.8 | 91 | 0.00 |
| 89 | T | n-Butylbenzene | 2.731 | 2.716 | 0.5 | 96 | 0.00 |

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

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.459 | 0.468 | -2.0 | 101 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.765 | 1.700 | 3.7 | 96 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.263 | 0.253 | 3.8 | 93 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.260 | 1.160 | 7.9 | 90 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.583 | 0.607 | -4.1 | 106 | 0.00 |
| 95 T | Naphthalene | 3.810 | 4.224 | -10.9 | 103 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.280 | 1.169 | 8.7 | 88 | 0.00 |

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