# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX062118\
Data File : VX002802.D
Acq On : 21 Jun 2018 21:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Jun 22 02:17:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 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 | 97 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.531 | 0.507 | 4.5 | 98 | 0.00 |
| 3 | P | Chloromethane | 0.631 | 0.534 | 15.4 | 88 | 0.00 |
| 4 | C | Vinyl Chloride | 0.655 | 0.582 | 11.1# | 89 | 0.00 |
| 5 | T | Bromomethane | 0.395 | 0.245 | 38.0# | 68 | 0.00 |
| 6 | T | Chloroethane | 0.432 | 0.378 | 12.5 | 89 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.065 | 1.001 | 6.0 | 90 | 0.00 |
| 8 | T | Diethyl Ether | 0.405 | 0.354 | 12.6 | 90 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.595 | 0.570 | 4.2 | 94 | 0.00 |
| 10 | T | Methyl Iodide | 0.733 | 0.530 | 27.7# | 69 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.157 | 0.149 | 5.1 | 99 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.559 | 0.499 | 10.7# | 89 | 0.00 |
| 13 | T | Acrolein | 0.080 | 0.071 | 11.3 | 100 | 0.00 |
| 14 | T | Allyl chloride | 1.109 | 1.000 | 9.8 | 90 | 0.00 |
| 15 | T | Acrylonitrile | 0.343 | 0.321 | 6.4 | 96 | 0.00 |
| 16 | T | Acetone | 0.335 | 0.306 | 8.7 | 96 | 0.00 |
| 17 | T | Carbon Disulfide | 1.325 | 1.305 | 1.5 | 95 | 0.00 |
| 18 | T | Methyl Acetate | 0.893 | 0.919 | -2.9 | 104 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.096 | 1.866 | 11.0 | 90 | 0.00 |
| 20 | T | Methylene Chloride | 0.687 | 0.572 | 16.7 | 91 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.606 | 0.541 | 10.7 | 90 | 0.00 |
| 22 | T | Diisopropyl ether | 2.007 | 1.874 | 6.6 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 1.680 | 1.609 | 4.2 | 97 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.089 | 1.061 | 2.6 | 106 | 0.00 |
| 25 | T | 2-Butanone | 0.440 | 0.452 | -2.7 | 104 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.783 | 0.649 | 17.1 | 81 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.617 | 0.599 | 2.9 | 100 | 0.00 |
| 28 | T | Bromochloromethane | 0.510 | 0.454 | 11.0 | 87 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.289 | 0.292 | -1.0 | 102 | 0.00 |
| 30 | C | Chloroform | 1.050 | 1.068 | -1.7# | 101 | 0.00 |
| 31 | T | Cyclohexane | 0.897 | 0.885 | 1.3 | 96 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.879 | 0.940 | -6.9 | 102 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.760 | 0.679 | 10.7 | 92 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.399 | 0.394 | 1.3 | 95 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.531 | 0.546 | -2.8 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 0.601 | 0.631 | -5.0 | 101 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.529 | 0.616 | -16.4 | 104 | 0.00 |
| 39 | T | Methylcyclohexane | 0.621 | 0.644 | -3.7 | 93 | 0.00 |
| 40 | TM | Benzene | 1.592 | 1.618 | -1.6 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 0.339 | 0.359 | -5.9 | 102 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.616 | 0.646 | -4.9 | 100 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.996 | 1.019 | -2.3 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 0.460 | 0.472 | -2.6 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.419 | 0.436 | -4.1# | 99 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.280 | 0.301 | -7.5 | 101 | 0.00 |
| 47 | T | Bromodichloromethane | 0.494 | 0.575 | -16.4 | 105 | 0.00 |
| 48 | T | Methyl methacrylate | 0.509 | 0.540 | -6.1 | 101 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.011 | -10.0 | 110 | 0.00 |
| 50 | S | Toluene-d8 | 1.515 | 1.405 | 7.3 | 87 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.639 | 0.690 | -8.0 | 101 | 0.00 |
| 52 | CM | Toluene | 1.016 | 1.062 | -4.5# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.582 | 0.640 | -10.0 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.539 | 0.597 | -10.8 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.410 | 0.442 | -7.8 | 101 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.632 | 0.672 | -6.3 | 97 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.694 | 0.729 | -5.0 | 100 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.305 | 0.275 | 9.8 | 84 | 0.00 |
| 59 | T | 2-Hexanone | 0.482 | 0.532 | -10.4 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 0.396 | 0.473 | -19.4 | 105 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.425 | 0.470 | -10.6 | 101 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.574 | 0.560 | 2.4 | 91 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 0.555 | 0.564 | -1.6 | 96 | 0.00 |
| 65 | PM | Chlorobenzene | 1.228 | 1.264 | -2.9 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.419 | 0.478 | -14.1 | 104 | 0.00 |
| 67 | C | Ethyl Benzene | 2.071 | 2.162 | -4.4# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 0.799 | 0.838 | -4.9 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.785 | 0.817 | -4.1 | 98 | 0.00 |
| 70 | T | Styrene | 1.291 | 1.372 | -6.3 | 97 | 0.00 |
| 71 | P | Bromoform | 0.315 | 0.391 | -24.1# | 111 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 3.344 | 3.531 | -5.6 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 1.661 | 1.642 | 1.1 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.988 | 1.085 | -9.8 | 106 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.943 | 1.069 | -13.4 | 115 | 0.00 |
| 77 | T | Bromobenzene | 0.932 | 0.977 | -4.8 | 100 | 0.00 |
| 78 | T | n-propylbenzene | 3.835 | 3.990 | -4.0 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.290 | 2.376 | -3.8 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.826 | 2.974 | -5.2 | 97 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.249 | 0.273 | -9.6 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.702 | 2.820 | -4.4 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.723 | 2.903 | -6.6 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.884 | 3.075 | -6.6 | 98 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.385 | 3.534 | -4.4 | 95 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.063 | 3.220 | -5.1 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.709 | 1.775 | -3.9 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.738 | 1.794 | -3.2 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 2.702 | 2.747 | -1.7 | 92 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 90 | T | Hexachloroethane | 0.423 | 0.489 | -15.6 | 102 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.720 | 1.800 | -4.7 | 100 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.207 | 0.248 | -19.8 | 107 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.248 | 1.307 | -4.7 | 96 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.657 | 0.668 | -1.7 | 91 | 0.00 |
| 95 | T | Naphthalene | 3.358 | 3.730 | -11.1 | 100 | 0.00 |
| 96 | T | 1,2,3-Trichlorobenzene | 1.253 | 1.336 | -6.6 | 99 | 0.00 |

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