# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX083118\
Data File : VX004328.D
Acq On : 31 Aug 2018 15:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Sep 01 04:55:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 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 | 73 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.579 | 0.463 | 20.0# | 54 | 0.00 |
| 3 | P | Chloromethane | 0.675 | 0.610 | 9.6 | 70 | 0.00 |
| 4 | C | Vinyl Chloride | 0.655 | 0.603 | 7.9# | 66 | 0.00 |
| 5 | T | Bromomethane | 0.397 | 0.301 | 24.2# | 66 | 0.00 |
| 6 | T | Chloroethane | 0.476 | 0.425 | 10.7 | 71 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.898 | 0.773 | 13.9 | 62 | 0.00 |
| 8 | T | Diethyl Ether | 0.384 | 0.404 | -5.2 | 78 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.562 | 0.454 | 19.2 | 61 | 0.00 |
| 10 | T | Methyl Iodide | 0.578 | 0.570 | 1.4 | 67 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.139 | 0.154 | -10.8 | 81 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.530 | 0.479 | 9.6# | 68 | 0.00 |
| 13 | T | Acrolein | 0.033 | 0.096 | -190.9# | 216# | 0.00 |
| 14 | T | Allyl chloride | 0.973 | 0.990 | -1.7 | 75 | 0.00 |
| 15 | T | Acrylonitrile | 0.344 | 0.381 | -10.8 | 84 | 0.00 |
| 16 | T | Acetone | 0.310 | 0.305 | 1.6 | 81 | 0.00 |
| 17 | T | Carbon Disulfide | 1.557 | 1.192 | 23.4# | 60 | 0.00 |
| 18 | T | Methyl Acetate | 0.967 | 1.311 | -35.6# | 99 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.746 | 1.857 | -6.4 | 79 | 0.00 |
| 20 | T | Methylene Chloride | 0.627 | 0.626 | 0.2 | 79 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.586 | 0.539 | 8.0 | 71 | 0.00 |
| 22 | T | Diisopropyl ether | 1.817 | 1.884 | -3.7 | 78 | 0.00 |
| 23 | T | Vinyl Acetate | 1.473 | 1.507 | -2.3 | 75 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.059 | 1.094 | -3.3 | 76 | 0.00 |
| 25 | T | 2-Butanone | 0.484 | 0.492 | -1.7 | 82 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.831 | 0.738 | 11.2 | 66 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.665 | 0.658 | 1.1 | 75 | 0.00 |
| 28 | T | Bromochloromethane | 0.469 | 0.523 | -11.5 | 79 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.280 | 0.314 | -12.1 | 82 | 0.00 |
| 30 | C | Chloroform | 1.062 | 1.096 | -3.2# | 77 | 0.00 |
| 31 | T | Cyclohexane | 0.914 | 0.745 | 18.5 | 59 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.885 | 0.858 | 3.1 | 71 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.652 | 0.670 | -2.8 | 79 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 74 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.372 | 0.388 | -4.3 | 80 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.562 | 0.507 | 9.8 | 67 | 0.00 |
| 37 | T | Ethyl Acetate | 0.553 | 0.600 | -8.5 | 80 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.529 | 0.497 | 6.0 | 68 | 0.00 |
| 39 | T | Methylcyclohexane | 0.642 | 0.510 | 20.6# | 58 | 0.00 |
| 40 | TM | Benzene | 1.680 | 1.694 | -0.8 | 74 | 0.00 |
| 41 | T | Methacrylonitrile | 0.320 | 0.356 | -11.2 | 81 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.573 | 0.592 | -3.3 | 77 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.849 | 0.915 | -7.8 | 78 | 0.00 |
| 44 | TM | Trichloroethene | 0.465 | 0.441 | 5.2 | 72 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.420 | 0.445 | -6.0# | 77 | 0.00 |

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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Sep 01 04:55:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.280 | 0.293 | -4.6 | 77 | 0.00 |
| 47 | T | Bromodichloromethane | 0.521 | 0.559 | -7.3 | 77 | 0.00 |
| 48 | T | Methyl methacrylate | 0.455 | 0.508 | -11.6 | 79 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.012 | -20.0 | 86 | 0.00 |
| 50 | S | Toluene-d8 | 1.404 | 1.421 | -1.2 | 75 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.617 | 0.660 | -7.0 | 81 | 0.00 |
| 52 | CM | Toluene | 1.051 | 1.071 | -1.9# | 74 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.575 | 0.609 | -5.9 | 74 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.627 | 0.673 | -7.3 | 75 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.424 | 0.460 | -8.5 | 79 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.578 | 0.646 | -11.8 | 77 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.715 | 0.771 | -7.8 | 79 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.296 | 0.365 | -23.3# | 83 | 0.00 |
| 59 | T | 2-Hexanone | 0.471 | 0.506 | -7.4 | 81 | 0.00 |
| 60 | T | Dibromochloromethane | 0.414 | 0.452 | -9.2 | 77 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.439 | 0.471 | -7.3 | 78 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.524 | 0.539 | -2.9 | 77 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 64 | T | Tetrachloroethene | 0.494 | 0.481 | 2.6 | 77 | 0.00 |
| 65 | PM | Chlorobenzene | 1.255 | 1.228 | 2.2 | 79 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.433 | 0.461 | -6.5 | 82 | 0.00 |
| 67 | C | Ethyl Benzene | 2.038 | 2.080 | -2.1# | 77 | 0.00 |
| 68 | T | m/p-Xylenes | 0.797 | 0.841 | -5.5 | 78 | 0.00 |
| 69 | T | o-Xylene | 0.754 | 0.798 | -5.8 | 77 | 0.00 |
| 70 | T | Styrene | 1.221 | 1.398 | -14.5 | 82 | 0.00 |
| 71 | P | Bromoform | 0.349 | 0.369 | -5.7 | 79 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 73 | T | Isopropylbenzene | 3.284 | 3.298 | -0.4 | 73 | 0.00 |
| 74 | T | N-amyl acetate | 1.264 | 1.308 | -3.5 | 76 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.149 | 1.166 | -1.5 | 79 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.017 | 1.065 | -4.7 | 80 | 0.00 |
| 77 | T | Bromobenzene | 0.921 | 0.924 | -0.3 | 77 | 0.00 |
| 78 | T | n-propylbenzene | 3.777 | 3.786 | -0.2 | 72 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.325 | 2.320 | 0.2 | 76 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.720 | 2.790 | -2.6 | 74 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.313 | 0.323 | -3.2 | 75 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.736 | 2.638 | 3.6 | 73 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.736 | 2.742 | -0.2 | 72 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.792 | 2.955 | -5.8 | 75 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.249 | 3.245 | 0.1 | 73 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.911 | 3.004 | -3.2 | 73 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.734 | 1.687 | 2.7 | 76 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.829 | 1.726 | 5.6 | 76 | 0.00 |
| 89 | T | n-Butylbenzene | 2.367 | 2.504 | -5.8 | 78 | 0.00 |

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**LabSampleId :** VSTDCCC050

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Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 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) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.407 | 0.421 | -3.4 | 77 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.585 | 1.750 | -10.4 | 86 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.202 | 0.216 | -6.9 | 80 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.153 | 1.147 | 0.5 | 77 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.566 | 0.539 | 4.8 | 76 | 0.00 |
| 95 T | Naphthalene | 3.262 | 3.654 | -12.0 | 77 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.221 | 1.259 | -3.1 | 78 | 0.00 |

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