# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX100719\
Data File : VX012879.D
Acq On : 08 Oct 2019 08:19
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 55 Sample Multiplier: 1

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

Quant Time: Oct 08 13:25:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
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 | 80 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.562 | 0.415 | 26.2# | 63 | 0.00 |
| 3 | P | Chloromethane | 0.646 | 0.469 | 27.4# | 62 | 0.00 |
| 4 | C | Vinyl Chloride | 0.642 | 0.505 | 21.3# | 66 | 0.00 |
| 5 | T | Bromomethane | 0.252 | 0.198 | 21.4# | 72 | 0.00 |
| 6 | T | Chloroethane | 0.433 | 0.345 | 20.3# | 71 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.901 | 0.762 | 15.4 | 72 | 0.00 |
| 8 | T | Diethyl Ether | 0.369 | 0.316 | 14.4 | 73 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.549 | 0.493 | 10.2 | 75 | 0.00 |
| 10 | T | Methyl Iodide | 0.517 | 0.459 | 11.2 | 69 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.182 | 0.165 | 9.3 | 74 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.538 | 0.491 | 8.7# | 74 | 0.00 |
| 13 | T | Acrolein | 0.094 | 0.081 | 13.8 | 67 | 0.00 |
| 14 | T | Allyl chloride | 1.067 | 0.882 | 17.3 | 68 | 0.00 |
| 15 | T | Acrylonitrile | 0.369 | 0.335 | 9.2 | 74 | 0.00 |
| 16 | T | Acetone | 0.386 | 0.282 | 26.9# | 59 | 0.00 |
| 17 | T | Carbon Disulfide | 1.507 | 1.197 | 20.6# | 67 | 0.00 |
| 18 | T | Methyl Acetate | 0.908 | 0.856 | 5.7 | 80 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.035 | 1.877 | 7.8 | 76 | 0.00 |
| 20 | T | Methylene Chloride | 0.652 | 0.577 | 11.5 | 76 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.596 | 0.523 | 12.2 | 73 | 0.00 |
| 22 | T | Diisopropyl ether | 2.061 | 1.849 | 10.3 | 74 | 0.00 |
| 23 | T | Vinyl Acetate | 1.807 | 1.556 | 13.9 | 69 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.120 | 1.023 | 8.7 | 75 | 0.00 |
| 25 | T | 2-Butanone | 0.553 | 0.458 | 17.2 | 67 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.996 | 0.531 | 46.7# | 44# | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.691 | 0.636 | 8.0 | 76 | 0.00 |
| 28 | T | Bromochloromethane | 0.407 | 0.372 | 8.6 | 75 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.337 | 0.292 | 13.4 | 70 | 0.00 |
| 30 | C | Chloroform | 1.146 | 1.033 | 9.9# | 77 | 0.00 |
| 31 | T | Cyclohexane | 1.013 | 0.877 | 13.4 | 72 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.016 | 0.899 | 11.5 | 73 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.728 | 0.648 | 11.0 | 74 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.298 | 0.302 | -1.3 | 81 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.482 | 0.431 | 10.6 | 74 | 0.00 |
| 37 | T | Ethyl Acetate | 0.563 | 0.509 | 9.6 | 71 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.490 | 0.441 | 10.0 | 72 | 0.00 |
| 39 | T | Methylcyclohexane | 0.580 | 0.504 | 13.1 | 72 | 0.00 |
| 40 | TM | Benzene | 1.418 | 1.308 | 7.8 | 75 | 0.00 |
| 41 | T | Methacrylonitrile | 0.316 | 0.292 | 7.6 | 74 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.538 | 0.486 | 9.7 | 73 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.942 | 0.846 | 10.2 | 73 | 0.00 |
| 44 | TM | Trichloroethene | 0.363 | 0.339 | 6.6 | 77 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.363 | 0.347 | 4.4# | 78 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.247 | 0.232 | 6.1 | 77 | 0.00 |
| 47 | T | Bromodichloromethane | 0.494 | 0.465 | 5.9 | 75 | 0.00 |
| 48 | T | Methyl methacrylate | 0.452 | 0.406 | 10.2 | 71 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.009 | 10.0 | 67 | 0.00 |
| 50 | S | Toluene-d8 | 1.147 | 1.115 | 2.8 | 79 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.582 | 0.527 | 9.5 | 72 | 0.00 |
| 52 | CM | Toluene | 0.891 | 0.845 | 5.2# | 76 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.547 | 0.483 | 11.7 | 69 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.597 | 0.526 | 11.9 | 70 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.354 | 0.349 | 1.4 | 79 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.595 | 0.574 | 3.5 | 76 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.620 | 0.584 | 5.8 | 77 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.267 | 0.266 | 0.4 | 75 | 0.00 |
| 59 | T | 2-Hexanone | 0.445 | 0.403 | 9.4 | 70 | 0.00 |
| 60 | T | Dibromochloromethane | 0.359 | 0.357 | 0.6 | 77 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.369 | 0.363 | 1.6 | 78 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.451 | 0.436 | 3.3 | 79 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 78 | 0.00 |
| 64 | T | Tetrachloroethene | 0.349 | 0.357 | -2.3 | 84 | 0.00 |
| 65 | PM | Chlorobenzene | 1.053 | 1.014 | 3.7 | 79 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.381 | 0.376 | 1.3 | 79 | 0.00 |
| 67 | C | Ethyl Benzene | 1.910 | 1.815 | 5.0# | 76 | 0.00 |
| 68 | T | m/p-Xylenes | 0.715 | 0.676 | 5.5 | 76 | 0.00 |
| 69 | T | o-Xylene | 0.692 | 0.671 | 3.0 | 78 | 0.00 |
| 70 | T | Styrene | 1.160 | 1.167 | -0.6 | 78 | 0.00 |
| 71 | P | Bromoform | 0.266 | 0.282 | -6.0 | 82 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 73 | T | Isopropylbenzene | 4.072 | 3.743 | 8.1 | 77 | 0.00 |
| 74 | T | N-amyl acetate | 1.943 | 1.775 | 8.6 | 74 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.349 | 1.310 | 2.9 | 80 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.323 | 1.203 | 9.1 | 74 | 0.00 |
| 77 | T | Bromobenzene | 0.922 | 0.862 | 6.5 | 78 | 0.00 |
| 78 | T | n-propylbenzene | 4.585 | 4.163 | 9.2 | 76 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.860 | 2.604 | 9.0 | 77 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.415 | 3.197 | 6.4 | 78 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.462 | 0.341 | 26.2# | 59 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.260 | 2.962 | 9.1 | 76 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.294 | 3.094 | 6.1 | 79 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.445 | 3.221 | 6.5 | 77 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.832 | 3.656 | 4.6 | 79 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.457 | 3.301 | 4.5 | 77 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.659 | 1.612 | 2.8 | 81 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.676 | 1.632 | 2.6 | 81 | 0.00 |
| 89 | T | n-Butylbenzene | 3.047 | 2.708 | 11.1 | 72 | 0.00 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.616 | 0.569 | 7.6 | 75 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.661 | 1.632 | 1.7 | 81 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.337 | 0.318 | 5.6 | 73 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.013 | 1.018 | -0.5 | 82 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.436 | 0.427 | 2.1 | 81 | 0.00 |
| 95 T | Naphthalene | 3.664 | 3.674 | -0.3 | 77 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.014 | 1.033 | -1.9 | 81 | 0.00 |

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