# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX021020\
Data File : VX014882.D
Acq On : 10 Feb 2020 12:22
Operator : JC/SP
Sample : VSTDICV050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** ICVVX021020

Quant Time: Feb 11 06:57:16 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
Quant Title : SW846 8260
QLast Update : Mon Feb 10 12:09:20 2020
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 | 0.474 | 0.494 | -4.2 | 98 | 0.00 |
| 3 | P | Chloromethane | 0.537 | 0.560 | -4.3 | 105 | 0.00 |
| 4 | C | Vinyl Chloride | 0.578 | 0.569 | 1.6# | 97 | 0.00 |
| 5 | T | Bromomethane | 0.374 | 0.386 | -3.2 | 112 | 0.00 |
| 6 | T | Chloroethane | 0.370 | 0.352 | 4.9 | 95 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.808 | 0.793 | 1.9 | 99 | 0.00 |
| 8 | T | Diethyl Ether | 0.335 | 0.315 | 6.0 | 96 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.469 | 0.455 | 3.0 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 0.451 | 0.475 | -5.3 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.100 | 0.101 | -1.0 | 103 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.458 | 0.447 | 2.4# | 97 | 0.00 |
| 13 | T | Acrolein | 0.076 | 0.073 | 3.9 | 98 | 0.00 |
| 14 | T | Allyl chloride | 0.813 | 0.773 | 4.9 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 0.253 | 0.246 | 2.8 | 96 | 0.00 |
| 16 | T | Acetone | 0.333 | 0.255 | 23.4# | 82 | 0.00 |
| 17 | T | Carbon Disulfide | 1.281 | 1.255 | 2.0 | 98 | 0.00 |
| 18 | T | Methyl Acetate | 0.568 | 0.541 | 4.8 | 95 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.492 | 1.471 | 1.4 | 98 | 0.00 |
| 20 | T | Methylene Chloride | 0.543 | 0.492 | 9.4 | 98 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.506 | 0.478 | 5.5 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 1.552 | 1.517 | 2.3 | 97 | 0.00 |
| 23 | T | Vinyl Acetate | 1.279 | 1.345 | -5.2 | 102 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.876 | 0.847 | 3.3 | 98 | 0.00 |
| 25 | T | 2-Butanone | 0.384 | 0.360 | 6.3 | 92 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.755 | 0.738 | 2.3 | 100 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.565 | 0.544 | 3.7 | 97 | 0.00 |
| 28 | T | Bromochloromethane | 0.339 | 0.335 | 1.2 | 101 | -0.01 |
| 29 | T | Tetrahydrofuran | 0.218 | 0.218 | 0.0 | 96 | 0.00 |
| 30 | C | Chloroform | 0.869 | 0.841 | 3.2# | 97 | 0.00 |
| 31 | T | Cyclohexane | 0.798 | 0.778 | 2.5 | 98 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.760 | 0.743 | 2.2 | 98 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.564 | 0.508 | 9.9 | 97 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.307 | 0.285 | 7.2 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.447 | 0.435 | 2.7 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 0.466 | 0.456 | 2.1 | 96 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.436 | 0.438 | -0.5 | 98 | 0.00 |
| 39 | T | Methylcyclohexane | 0.559 | 0.551 | 1.4 | 99 | 0.00 |
| 40 | TM | Benzene | 1.336 | 1.295 | 3.1 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 0.251 | 0.256 | -2.0 | 97 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.483 | 0.466 | 3.5 | 97 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.770 | 0.770 | 0.0 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 0.388 | 0.369 | 4.9 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.341 | 0.333 | 2.3# | 98 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.233 | 0.224 | 3.9 | 97 | 0.00 |
| 47 | T | Bromodichloromethane | 0.462 | 0.448 | 3.0 | 96 | 0.00 |
| 48 | T | Methyl methacrylate | 0.379 | 0.384 | -1.3 | 98 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.007 | 0.007 | 0.0 | 105 | 0.00 |
| 50 | S | Toluene-d8 | 1.173 | 1.094 | 6.7 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.465 | 0.468 | -0.6 | 98 | 0.00 |
| 52 | CM | Toluene | 0.849 | 0.830 | 2.2# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.506 | 0.506 | 0.0 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.559 | 0.552 | 1.3 | 97 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.343 | 0.330 | 3.8 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.516 | 0.535 | -3.7 | 99 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.578 | 0.552 | 4.5 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.270 | 0.267 | 1.1 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 0.365 | 0.360 | 1.4 | 94 | 0.00 |
| 60 | T | Dibromochloromethane | 0.370 | 0.366 | 1.1 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.371 | 0.354 | 4.6 | 96 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.423 | 0.390 | 7.8 | 97 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 64 | T | Tetrachloroethene | 0.467 | 0.398 | 14.8 | 84 | 0.00 |
| 65 | PM | Chlorobenzene | 1.014 | 0.987 | 2.7 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.368 | 0.368 | 0.0 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 1.725 | 1.741 | -0.9# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 0.664 | 0.671 | -1.1 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.639 | 0.647 | -1.3 | 98 | 0.00 |
| 70 | T | Styrene | 1.080 | 1.101 | -1.9 | 97 | 0.00 |
| 71 | P | Bromoform | 0.307 | 0.317 | -3.3 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 3.136 | 3.261 | -4.0 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 1.303 | 1.418 | -8.8 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.025 | 1.039 | -1.4 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.904 | 0.865 | 4.3 | 98 | 0.00 |
| 77 | T | Bromobenzene | 0.875 | 0.864 | 1.3 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 3.627 | 3.742 | -3.2 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.132 | 2.149 | -0.8 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.620 | 2.741 | -4.6 | 97 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.353 | 0.363 | -2.8 | 96 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.525 | 2.532 | -0.3 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.481 | 2.667 | -7.5 | 103 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.640 | 2.765 | -4.7 | 98 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.082 | 3.177 | -3.1 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.884 | 2.976 | -3.2 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.570 | 1.566 | 0.3 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.603 | 1.560 | 2.7 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 2.583 | 2.602 | -0.7 | 94 | 0.00 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.504 | 0.523 | -3.8 | 98 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.540 | 1.530 | 0.6 | 98 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.240 | 0.230 | 4.2 | 96 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.136 | 1.132 | 0.4 | 96 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.550 | 0.556 | -1.1 | 98 | 0.00 |
| 95 T | Naphthalene | 3.022 | 3.215 | -6.4 | 96 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.098 | 1.090 | 0.7 | 94 | 0.00 |

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