# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN071619\
Data File : VN056753.D
Acq On : 16 Jul 2019 8:56
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_N
**LabSampleId :** VSTDCCC050

Quant Time: Jul 17 01:18:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 07:03:34 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.469 | 0.413 | 11.9 | 94 | 0.00 |
| 3 | P | Chloromethane | 0.631 | 0.533 | 15.5 | 91 | 0.00 |
| 4 | C | Vinyl Chloride | 0.608 | 0.543 | 10.7# | 95 | 0.00 |
| 5 | T | Bromomethane | 0.357 | 0.337 | 5.6 | 99 | 0.01 |
| 6 | T | Chloroethane | 0.354 | 0.318 | 10.2 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.780 | 0.703 | 9.9 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 0.304 | 0.275 | 9.5 | 92 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.469 | 0.438 | 6.6 | 98 | 0.00 |
| 10 | T | Methyl Iodide | 0.627 | 0.538 | 14.2 | 85 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.092 | 0.073 | 20.7 | 81 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.470 | 0.431 | 8.3# | 96 | 0.00 |
| 13 | T | Acrolein | 0.033 | 0.027 | 18.2 | 96 | 0.00 |
| 14 | T | Allyl chloride | 0.813 | 0.737 | 9.3 | 93 | 0.00 |
| 15 | T | Acrylonitrile | 0.266 | 0.232 | 12.8 | 88 | 0.00 |
| 16 | T | Acetone | 0.255 | 0.260 | -2.0 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 1.242 | 1.145 | 7.8 | 97 | 0.00 |
| 18 | T | Methyl Acetate | 0.684 | 0.472 | 31.0# | 85 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.498 | 1.345 | 10.2 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 0.557 | 0.492 | 11.7 | 93 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.497 | 0.470 | 5.4 | 97 | 0.00 |
| 22 | T | Diisopropyl ether | 1.604 | 1.495 | 6.8 | 94 | 0.00 |
| 23 | T | Vinyl Acetate | 1.300 | 1.241 | 4.5 | 93 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.930 | 0.851 | 8.5 | 94 | 0.00 |
| 25 | T | 2-Butanone | 0.373 | 0.340 | 8.8 | 92 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.671 | 0.643 | 4.2 | 97 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.572 | 0.538 | 5.9 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 0.437 | 0.373 | 14.6 | 87 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.243 | 0.210 | 13.6 | 87 | 0.00 |
| 30 | C | Chloroform | 0.931 | 0.834 | 10.4# | 95 | 0.00 |
| 31 | T | Cyclohexane | 0.884 | 0.825 | 6.7 | 96 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.736 | 0.689 | 6.4 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.553 | 0.517 | 6.5 | 94 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.311 | 0.310 | 0.3 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.463 | 0.436 | 5.8 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 0.456 | 0.418 | 8.3 | 87 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.434 | 0.409 | 5.8 | 95 | 0.00 |
| 39 | T | Methylcyclohexane | 0.571 | 0.570 | 0.2 | 101 | 0.00 |
| 40 | TM | Benzene | 1.418 | 1.330 | 6.2 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 0.200 | 0.176 | 12.0 | 87 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.448 | 0.418 | 6.7 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.717 | 0.682 | 4.9 | 93 | 0.00 |
| 44 | TM | Trichloroethene | 0.385 | 0.372 | 3.4 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.377 | 0.356 | 5.6# | 95 | 0.00 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.233 | 0.225 | 3.4 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 0.444 | 0.431 | 2.9 | 96 | 0.00 |
| 48 | T | Methyl methacrylate | 0.347 | 0.329 | 5.2 | 91 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.007 | 0.005 | 28.6# | 76 | 0.00 |
| 50 | S | Toluene-d8 | 1.202 | 1.201 | 0.1 | 98 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.464 | 0.420 | 9.5 | 89 | 0.00 |
| 52 | CM | Toluene | 0.842 | 0.825 | 2.0# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.463 | 0.472 | -1.9 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.537 | 0.537 | 0.0 | 97 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.353 | 0.327 | 7.4 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.508 | 0.503 | 1.0 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.577 | 0.548 | 5.0 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.244 | 0.220 | 9.8 | 83 | 0.00 |
| 59 | T | 2-Hexanone | 0.333 | 0.320 | 3.9 | 91 | 0.00 |
| 60 | T | Dibromochloromethane | 0.347 | 0.342 | 1.4 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.351 | 0.341 | 2.8 | 95 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.405 | 0.422 | -4.2 | 101 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 0.431 | 0.405 | 6.0 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 1.022 | 0.981 | 4.0 | 98 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.376 | 0.358 | 4.8 | 95 | 0.00 |
| 67 | C | Ethyl Benzene | 1.797 | 1.758 | 2.2# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 0.671 | 0.662 | 1.3 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.660 | 0.626 | 5.2 | 95 | 0.00 |
| 70 | T | Styrene | 1.067 | 1.091 | -2.2 | 98 | 0.00 |
| 71 | P | Bromoform | 0.286 | 0.281 | 1.7 | 93 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 4.032 | 3.529 | 12.5 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 1.501 | 1.279 | 14.8 | 90 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.356 | 1.059 | 21.9 | 92 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.094 | 0.914 | 16.5 | 91 | 0.00 |
| 77 | T | Bromobenzene | 1.054 | 0.923 | 12.4 | 98 | 0.00 |
| 78 | T | n-propylbenzene | 4.476 | 4.078 | 8.9 | 100 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.769 | 2.368 | 14.5 | 98 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.417 | 3.023 | 11.5 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.354 | 0.315 | 11.0 | 91 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.627 | 2.407 | 8.4 | 100 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.974 | 2.534 | 14.8 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.338 | 3.018 | 9.6 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.797 | 3.436 | 9.5 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.440 | 3.182 | 7.5 | 101 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.728 | 1.596 | 7.6 | 100 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.681 | 1.560 | 7.2 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 2.771 | 2.819 | -1.7 | 106 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.556 | 0.490 | 11.9 | 96 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.767 | 1.557 | 11.9 | 97 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.216 | 0.182 | 15.7 | 89 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.810 | 0.878 | -8.4 | 101 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.629 | 0.545 | 13.4 | 103 | 0.00 |
| 95 T | Naphthalene | 2.171 | 2.162 | 0.4 | 93 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.836 | 0.874 | -4.5 | 101 | 0.00 |

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