# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_F\Data\VF122718\
Data File : VF061223.D
Acq On : 27 Dec 2018 22:26
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_F
**LabSampleId :** VSTDCCC050

Quant Time: Dec 28 06:32:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
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 | 93 | -0.02 |
| 2 | T | Dichlorodifluoromethane | 1.111 | 1.026 | 7.7 | 85 | 0.00 |
| 3 | P | Chloromethane | 0.637 | 0.699 | -9.7 | 103 | 0.00 |
| 4 | C | Vinyl Chloride | 0.591 | 0.623 | -5.4# | 96 | 0.00 |
| 5 | T | Bromomethane | 0.410 | 0.411 | -0.2 | 91 | -0.01 |
| 6 | T | Chloroethane | 0.272 | 0.272 | 0.0 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.128 | 1.142 | -1.2 | 89 | -0.01 |
| 8 | T | Diethyl Ether | 0.154 | 0.171 | -11.0 | 101 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.585 | 0.604 | -3.2 | 99 | 0.00 |
| 10 | T | Methyl Iodide | 0.922 | 0.940 | -2.0 | 97 | -0.01 |
| 11 | T | Tert butyl alcohol | 0.026 | 0.027 | -3.8 | 94 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.441 | 0.477 | -8.2# | 99 | 0.00 |
| 13 | T | Acrolein | 0.019 | 0.021 | -10.5 | 119 | 0.00 |
| 14 | T | Allyl chloride | 0.459 | 0.584 | -27.2# | 126 | 0.00 |
| 15 | T | Acrylonitrile | 0.060 | 0.071 | -18.3 | 103 | -0.01 |
| 16 | T | Acetone | 0.129 | 0.102 | 20.9 | 70 | 0.00 |
| 17 | T | Carbon Disulfide | 1.332 | 1.345 | -1.0 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 0.266 | 0.291 | -9.4 | 113 | -0.01 |
| 19 | T | Methyl tert-butyl Ether | 0.978 | 1.013 | -3.6 | 96 | -0.01 |
| 20 | T | Methylene Chloride | 0.477 | 0.492 | -3.1 | 107 | -0.02 |
| 21 | T | trans-1,2-Dichloroethene | 0.471 | 0.489 | -3.8 | 103 | -0.01 |
| 22 | T | Diisopropyl ether | 1.528 | 1.699 | -11.2 | 104 | -0.01 |
| 23 | T | Vinyl Acetate | 0.705 | 0.761 | -7.9 | 99 | -0.01 |
| 24 | P | 1,1-Dichloroethane | 0.905 | 0.986 | -9.0 | 99 | -0.01 |
| 25 | T | 2-Butanone | 0.208 | 0.206 | 1.0 | 92 | -0.01 |
| 26 | T | 2,2-Dichloropropane | 0.519 | 0.534 | -2.9 | 96 | -0.01 |
| 27 | T | cis-1,2-Dichloroethene | 0.722 | 0.783 | -8.4 | 105 | -0.01 |
| 28 | T | Bromochloromethane | 0.459 | 0.513 | -11.8 | 104 | -0.02 |
| 29 | | Tetrahydrofuran | 0.085 | 0.090 | -5.9 | 102 | -0.01 |
| 30 | C | Chloroform | 1.357 | 1.396 | -2.9# | 94 | -0.01 |
| 31 | T | Cyclohexane | 0.939 | 0.997 | -6.2 | 101 | -0.01 |
| 32 | T | 1,1,1-Trichloroethane | 0.814 | 0.950 | -16.7 | 112 | -0.01 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.643 | 0.589 | 8.4 | 90 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 96 | -0.01 |
| 35 | S | Dibromofluoromethane | 0.401 | 0.358 | 10.7 | 92 | -0.01 |
| 36 | T | 1,1-Dichloropropene | 0.604 | 0.581 | 3.8 | 91 | -0.01 |
| 37 | T | Ethyl Acetate | 0.248 | 0.254 | -2.4 | 103 | -0.02 |
| 38 | T | Carbon Tetrachloride | 0.460 | 0.459 | 0.2 | 96 | -0.01 |
| 39 | T | Methylcyclohexane | 0.541 | 0.631 | -16.6 | 106 | -0.01 |
| 40 | TM | Benzene | 1.298 | 1.316 | -1.4 | 98 | -0.01 |
| 41 | T | Methacrylonitrile | 0.127 | 0.133 | -4.7 | 101 | -0.02 |
| 42 | TM | 1,2-Dichloroethane | 0.493 | 0.485 | 1.6 | 93 | -0.02 |
| 43 | T | Isopropyl Acetate | 0.291 | 0.302 | -3.8 | 103 | -0.01 |
| 44 | TM | Trichloroethene | 0.409 | 0.402 | 1.7 | 93 | -0.01 |
| 45 | C | 1,2-Dichloropropane | 0.353 | 0.372 | -5.4# | 102 | -0.01 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.229 | 0.239 | -4.4 | 99 | -0.01 |
| 47 | T | Bromodichloromethane | 0.595 | 0.606 | -1.8 | 93 | -0.01 |
| 48 | T | Methyl methacrylate | 0.203 | 0.238 | -17.2 | 111 | -0.01 |
| 49 | T | 1,4-Dioxane | 0.001 | 0.002 | -100.0# | 103 | -0.01 |
| 50 | S | Toluene-d8 | 1.135 | 1.011 | 10.9 | 88 | -0.02 |
| 51 | T | 4-Methyl-2-Pentanone | 0.200 | 0.200 | 0.0 | 97 | -0.01 |
| 52 | CM | Toluene | 0.859 | 0.800 | 6.9# | 92 | -0.01 |
| 53 | T | t-1,3-Dichloropropene | 0.480 | 0.452 | 5.8 | 92 | -0.01 |
| 54 | T | cis-1,3-Dichloropropene | 0.602 | 0.606 | -0.7 | 98 | -0.01 |
| 55 | T | 1,1,2-Trichloroethane | 0.258 | 0.274 | -6.2 | 108 | -0.02 |
| 56 | T | Ethyl methacrylate | 0.279 | 0.290 | -3.9 | 99 | -0.01 |
| 57 | T | 1,3-Dichloropropane | 0.466 | 0.482 | -3.4 | 102 | -0.01 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.054 | 0.040 | 25.9# | 75 | -0.01 |
| 59 | T | 2-Hexanone | 0.145 | 0.142 | 2.1 | 93 | -0.01 |
| 60 | T | Dibromochloromethane | 0.369 | 0.376 | -1.9 | 94 | -0.02 |
| 61 | T | 1,2-Dibromoethane | 0.275 | 0.288 | -4.7 | 100 | -0.01 |
| 62 | S | 4-Bromofluorobenzene | 0.523 | 0.456 | 12.8 | 90 | -0.01 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 90 | -0.01 |
| 64 | T | Tetrachloroethene | 0.385 | 0.384 | 0.3 | 93 | -0.01 |
| 65 | PM | Chlorobenzene | 1.033 | 1.045 | -1.2 | 96 | -0.01 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.422 | 0.421 | 0.2 | 97 | -0.02 |
| 67 | C | Ethyl Benzene | 1.882 | 1.919 | -2.0# | 97 | -0.01 |
| 68 | T | m/p-Xylenes | 0.662 | 0.644 | 2.7 | 92 | -0.01 |
| 69 | T | o-Xylene | 0.734 | 0.761 | -3.7 | 98 | -0.01 |
| 70 | T | Styrene | 1.022 | 0.994 | 2.7 | 96 | -0.01 |
| 71 | P | Bromoform | 0.195 | 0.197 | -1.0 | 96 | -0.01 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 4.309 | 4.596 | -6.7 | 95 | -0.01 |
| 74 | T | N-amyl acetate | 0.957 | 1.086 | -13.5 | 104 | -0.01 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.715 | 0.787 | -10.1 | 100 | -0.01 |
| 76 | T | 1,2,3-Trichloropropane | 0.532 | 0.579 | -8.8 | 99 | -0.01 |
| 77 | T | Bromobenzene | 0.928 | 0.941 | -1.4 | 92 | -0.01 |
| 78 | T | n-propylbenzene | 5.104 | 5.105 | -0.0 | 91 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.956 | 2.988 | -1.1 | 92 | -0.01 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.548 | 3.535 | 0.4 | 91 | -0.01 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.229 | 0.266 | -16.2 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.058 | 3.087 | -0.9 | 96 | -0.01 |
| 83 | T | tert-Butylbenzene | 3.651 | 3.804 | -4.2 | 95 | -0.01 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.538 | 3.560 | -0.6 | 94 | -0.01 |
| 85 | T | sec-Butylbenzene | 4.764 | 5.111 | -7.3 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.955 | 4.149 | -4.9 | 96 | -0.01 |
| 87 | T | 1,3-Dichlorobenzene | 1.749 | 1.716 | 1.9 | 94 | -0.01 |
| 88 | T | 1,4-Dichlorobenzene | 1.703 | 1.741 | -2.2 | 97 | -0.01 |
| 89 | T | n-Butylbenzene | 4.088 | 4.182 | -2.3 | 94 | -0.01 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.977 | 1.041 | -6.6 | 96 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.658 | 1.702 | -2.7 | 93 | -0.01 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.131 | 0.150 | -14.5 | 99 | -0.01 |
| 93 T | 1,2,4-Trichlorobenzene | 1.176 | 1.144 | 2.7 | 90 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.749 | 0.754 | -0.7 | 91 | 0.00 |
| 95 T | Naphthalene | 2.147 | 2.255 | -5.0 | 92 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.087 | 1.134 | -4.3 | 89 | -0.01 |

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