# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\
Data File : VF060885.D
Acq On : 30 Nov 2018 00:28
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Nov 30 06:54:11 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 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 | 101 | -0.03 |
| 2 | T | Dichlorodifluoromethane | 0.748 | 0.709 | 5.2 | 97 | -0.01 |
| 3 | P | Chloromethane | 0.486 | 0.462 | 4.9 | 107 | 0.00 |
| 4 | C | Vinyl Chloride | 0.454 | 0.444 | 2.2# | 102 | -0.01 |
| 5 | T | Bromomethane | 0.320 | 0.319 | 0.3 | 98 | -0.01 |
| 6 | T | Chloroethane | 0.196 | 0.211 | -7.7 | 105 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.974 | 0.974 | 0.0 | 99 | -0.01 |
| 8 | T | Diethyl Ether | 0.140 | 0.139 | 0.7 | 101 | -0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.492 | 0.491 | 0.2 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 0.748 | 0.772 | -3.2 | 104 | -0.01 |
| 11 | T | Tert butyl alcohol | 0.024 | 0.023 | 4.2 | 91 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.396 | 0.388 | 2.0# | 100 | -0.01 |
| 13 | T | Acrolein | 0.023 | 0.020 | 13.0 | 82 | -0.02 |
| 14 | T | Allyl chloride | 0.493 | 0.521 | -5.7 | 95 | -0.02 |
| 15 | T | Acrylonitrile | 0.054 | 0.055 | -1.9 | 102 | -0.03 |
| 16 | T | Acetone | 0.109 | 0.097 | 11.0 | 89 | -0.02 |
| 17 | T | Carbon Disulfide | 1.062 | 1.030 | 3.0 | 102 | -0.01 |
| 18 | T | Methyl Acetate | 0.199 | 0.221 | -11.1 | 125 | -0.02 |
| 19 | T | Methyl tert-butyl Ether | 0.892 | 0.908 | -1.8 | 102 | -0.02 |
| 20 | T | Methylene Chloride | 0.398 | 0.390 | 2.0 | 104 | -0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.382 | 0.404 | -5.8 | 105 | -0.02 |
| 22 | T | Diisopropyl ether | 1.343 | 1.409 | -4.9 | 104 | -0.03 |
| 23 | T | Vinyl Acetate | 0.614 | 0.636 | -3.6 | 103 | -0.02 |
| 24 | P | 1,1-Dichloroethane | 0.799 | 0.851 | -6.5 | 102 | -0.02 |
| 25 | T | 2-Butanone | 0.188 | 0.179 | 4.8 | 94 | -0.03 |
| 26 | T | 2,2-Dichloropropane | 0.518 | 0.458 | 11.6 | 86 | -0.03 |
| 27 | T | cis-1,2-Dichloroethene | 0.621 | 0.605 | 2.6 | 99 | -0.03 |
| 28 | T | Bromochloromethane | 0.384 | 0.376 | 2.1 | 104 | -0.03 |
| 29 | | Tetrahydrofuran | 0.080 | 0.074 | 7.5 | 97 | -0.04 |
| 30 | C | Chloroform | 1.230 | 1.219 | 0.9# | 101 | -0.03 |
| 31 | T | Cyclohexane | 0.829 | 0.785 | 5.3 | 100 | -0.03 |
| 32 | T | 1,1,1-Trichloroethane | 0.853 | 0.749 | 12.2 | 83 | -0.03 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.589 | 0.624 | -5.9 | 103 | -0.03 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 110 | -0.04 |
| 35 | S | Dibromofluoromethane | 0.397 | 0.372 | 6.3 | 99 | -0.03 |
| 36 | T | 1,1-Dichloropropene | 0.555 | 0.530 | 4.5 | 101 | -0.03 |
| 37 | T | Ethyl Acetate | 0.225 | 0.212 | 5.8 | 102 | -0.03 |
| 38 | T | Carbon Tetrachloride | 0.490 | 0.451 | 8.0 | 89 | -0.03 |
| 39 | T | Methylcyclohexane | 0.581 | 0.558 | 4.0 | 102 | -0.03 |
| 40 | TM | Benzene | 1.225 | 1.175 | 4.1 | 104 | -0.03 |
| 41 | T | Methacrylonitrile | 0.133 | 0.120 | 9.8 | 108 | -0.03 |
| 42 | TM | 1,2-Dichloroethane | 0.447 | 0.436 | 2.5 | 98 | -0.03 |
| 43 | T | Isopropyl Acetate | 0.307 | 0.258 | 16.0 | 94 | -0.03 |
| 44 | TM | Trichloroethene | 0.401 | 0.368 | 8.2 | 100 | -0.03 |
| 45 | C | 1,2-Dichloropropane | 0.318 | 0.301 | 5.3# | 95 | -0.03 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.216 | 0.210 | 2.8 | 100 | -0.03 |
| 47 | T | Bromodichloromethane | 0.573 | 0.548 | 4.4 | 98 | -0.03 |
| 48 | T | Methyl methacrylate | 0.204 | 0.176 | 13.7 | 91 | -0.03 |
| 49 | T | 1,4-Dioxane | 0.001 | 0.002 | -100.0# | 97 | -0.03 |
| 50 | S | Toluene-d8 | 1.168 | 1.089 | 6.8 | 99 | -0.03 |
| 51 | T | 4-Methyl-2-Pentanone | 0.208 | 0.190 | 8.7 | 101 | -0.03 |
| 52 | CM | Toluene | 0.861 | 0.757 | 12.1# | 101 | -0.03 |
| 53 | T | t-1,3-Dichloropropene | 0.466 | 0.416 | 10.7 | 95 | -0.03 |
| 54 | T | cis-1,3-Dichloropropene | 0.577 | 0.527 | 8.7 | 94 | -0.03 |
| 55 | T | 1,1,2-Trichloroethane | 0.251 | 0.237 | 5.6 | 101 | -0.03 |
| 56 | T | Ethyl methacrylate | 0.279 | 0.252 | 9.7 | 90 | -0.02 |
| 57 | T | 1,3-Dichloropropane | 0.439 | 0.395 | 10.0 | 92 | -0.04 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.028 | 0.025 | 10.7 | 98 | -0.04 |
| 59 | T | 2-Hexanone | 0.146 | 0.128 | 12.3 | 96 | -0.03 |
| 60 | T | Dibromochloromethane | 0.374 | 0.335 | 10.4 | 92 | -0.02 |
| 61 | T | 1,2-Dibromoethane | 0.271 | 0.238 | 12.2 | 93 | -0.03 |
| 62 | S | 4-Bromofluorobenzene | 0.531 | 0.501 | 5.6 | 100 | -0.02 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 97 | -0.03 |
| 64 | T | Tetrachloroethene | 0.382 | 0.378 | 1.0 | 102 | -0.03 |
| 65 | PM | Chlorobenzene | 0.973 | 0.936 | 3.8 | 89 | -0.03 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.418 | 0.416 | 0.5 | 97 | -0.03 |
| 67 | C | Ethyl Benzene | 1.811 | 1.783 | 1.5# | 95 | -0.02 |
| 68 | T | m/p-Xylenes | 0.651 | 0.623 | 4.3 | 96 | -0.03 |
| 69 | T | o-Xylene | 0.718 | 0.680 | 5.3 | 93 | -0.03 |
| 70 | T | Styrene | 0.996 | 0.951 | 4.5 | 93 | -0.02 |
| 71 | P | Bromoform | 0.202 | 0.193 | 4.5 | 92 | -0.03 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | -0.02 |
| 73 | T | Isopropylbenzene | 3.951 | 4.003 | -1.3 | 97 | -0.02 |
| 74 | T | N-amyl acetate | 0.912 | 0.934 | -2.4 | 99 | -0.02 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.650 | 0.665 | -2.3 | 97 | -0.03 |
| 76 | T | 1,2,3-Trichloropropane | 0.473 | 0.493 | -4.2 | 100 | -0.03 |
| 77 | T | Bromobenzene | 0.866 | 0.867 | -0.1 | 92 | -0.03 |
| 78 | T | n-propylbenzene | 4.627 | 4.669 | -0.9 | 97 | -0.02 |
| 79 | T | 2-Chlorotoluene | 2.653 | 2.603 | 1.9 | 95 | -0.02 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.208 | 3.247 | -1.2 | 98 | -0.03 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.232 | 0.229 | 1.3 | 96 | -0.02 |
| 82 | T | 4-Chlorotoluene | 2.792 | 2.651 | 5.1 | 95 | -0.02 |
| 83 | T | tert-Butylbenzene | 3.267 | 3.428 | -4.9 | 103 | -0.02 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.201 | 3.202 | -0.0 | 94 | -0.02 |
| 85 | T | sec-Butylbenzene | 4.473 | 4.442 | 0.7 | 97 | -0.02 |
| 86 | T | p-Isopropyltoluene | 3.750 | 3.633 | 3.1 | 97 | -0.02 |
| 87 | T | 1,3-Dichlorobenzene | 1.648 | 1.540 | 6.6 | 92 | -0.03 |
| 88 | T | 1,4-Dichlorobenzene | 1.606 | 1.575 | 1.9 | 96 | -0.02 |
| 89 | T | n-Butylbenzene | 3.792 | 3.682 | 2.9 | 93 | -0.02 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.903 | 0.917 | -1.6 | 95 | -0.02 |
| 91 T | 1,2-Dichlorobenzene | 1.560 | 1.528 | 2.1 | 93 | -0.02 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.126 | 0.129 | -2.4 | 97 | -0.02 |
| 93 T | 1,2,4-Trichlorobenzene | 1.090 | 1.121 | -2.8 | 99 | -0.02 |
| 94 T | Hexachlorobutadiene | 0.727 | 0.735 | -1.1 | 99 | -0.02 |
| 95 T | Naphthalene | 2.404 | 2.212 | 8.0 | 99 | -0.02 |
| 96 T | 1,2,3-Trichlorobenzene | 1.012 | 1.066 | -5.3 | 101 | -0.02 |

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