# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF072018\
Data File : VF059588.D
Acq On : 20 Jul 2018 17:45
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 82 Sample Multiplier: 1

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

Quant Time: Jul 20 23:41:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 04:09:10 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 | 96 | -0.02 |
| 2 | T | Dichlorodifluoromethane | 0.613 | 0.574 | 6.4 | 103 | 0.00 |
| 3 | P | Chloromethane | 0.337 | 0.286 | 15.1 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 0.340 | 0.345 | -1.5# | 108 | 0.00 |
| 5 | T | Bromomethane | 0.236 | 0.259 | -9.7 | 123 | 0.00 |
| 6 | T | Chloroethane | 0.171 | 0.190 | -11.1 | 119 | -0.02 |
| 7 | T | Trichlorofluoromethane | 0.832 | 0.757 | 9.0 | 95 | -0.06 |
| 8 | T | Diethyl Ether | 0.160 | 0.149 | 6.9 | 91 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.352 | 0.458 | -30.1# | 148 | 0.00 |
| 10 | T | Methyl Iodide | 0.615 | 0.783 | -27.3# | 137 | -0.02 |
| 11 | T | Tert butyl alcohol | 0.036 | 0.036 | 0.0 | 96 | -0.02 |
| 12 | CM | 1,1-Dichloroethene | 0.374 | 0.365 | 2.4# | 112 | -0.02 |
| 13 | T | Acrolein | 0.018 | 0.016 | 11.1 | 102 | -0.02 |
| 14 | T | Allyl chloride | 0.467 | 0.622 | -33.2# | 144 | -0.02 |
| 15 | T | Acrylonitrile | 0.065 | 0.067 | -3.1 | 98 | 0.00 |
| 16 | T | Acetone | 0.130 | 0.173 | -33.1# | 124 | -0.02 |
| 17 | T | Carbon Disulfide | 0.958 | 0.875 | 8.7 | 100 | -0.05 |
| 18 | T | Methyl Acetate | 0.271 | 0.209 | 22.9 | 76 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.173 | 1.134 | 3.3 | 91 | -0.02 |
| 20 | T | Methylene Chloride | 0.435 | 0.357 | 17.9 | 100 | -0.08 |
| 21 | T | trans-1,2-Dichloroethene | 0.346 | 0.349 | -0.9 | 106 | 0.00 |
| 22 | T | Diisopropyl ether | 1.311 | 1.239 | 5.5 | 91 | -0.02 |
| 23 | T | Vinyl Acetate | 0.766 | 0.760 | 0.8 | 96 | -0.03 |
| 24 | P | 1,1-Dichloroethane | 0.810 | 0.841 | -3.8 | 106 | -0.03 |
| 25 | T | 2-Butanone | 0.181 | 0.177 | 2.2 | 92 | -0.04 |
| 26 | T | 2,2-Dichloropropane | 0.536 | 0.664 | -23.9 | 121 | -0.02 |
| 27 | T | cis-1,2-Dichloroethene | 0.402 | 0.445 | -10.7 | 106 | -0.02 |
| 28 | T | Bromochloromethane | 0.356 | 0.322 | 9.6 | 82 | -0.03 |
| 29 | | Tetrahydrofuran | 0.082 | 0.075 | 8.5 | 91 | -0.04 |
| 30 | C | Chloroform | 1.170 | 1.153 | 1.5# | 97 | -0.03 |
| 31 | T | Cyclohexane | 0.419 | 0.459 | -9.5 | 118 | -0.02 |
| 32 | T | 1,1,1-Trichloroethane | 0.760 | 0.958 | -26.1# | 126 | -0.02 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.778 | 0.769 | 1.2 | 94 | -0.03 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 96 | -0.03 |
| 35 | S | Dibromofluoromethane | 0.433 | 0.434 | -0.2 | 93 | -0.03 |
| 36 | T | 1,1-Dichloropropene | 0.500 | 0.481 | 3.8 | 97 | -0.03 |
| 37 | T | Ethyl Acetate | 0.304 | 0.262 | 13.8 | 84 | -0.05 |
| 38 | T | Carbon Tetrachloride | 0.574 | 0.694 | -20.9 | 127 | -0.02 |
| 39 | T | Methylcyclohexane | 0.380 | 0.395 | -3.9 | 109 | -0.02 |
| 40 | TM | Benzene | 0.971 | 0.902 | 7.1 | 94 | -0.02 |
| 41 | T | Methacrylonitrile | 0.144 | 0.132 | 8.3 | 91 | -0.05 |
| 42 | TM | 1,2-Dichloroethane | 0.638 | 0.602 | 5.6 | 93 | -0.02 |
| 43 | T | Isopropyl Acetate | 0.360 | 0.350 | 2.8 | 95 | -0.03 |
| 44 | TM | Trichloroethene | 0.359 | 0.335 | 6.7 | 95 | -0.02 |
| 45 | C | 1,2-Dichloropropane | 0.269 | 0.251 | 6.7# | 91 | -0.02 |

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

Quant Time: Jul 20 23:41:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 04:09:10 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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.245 | 0.241 | 1.6 | 96 | -0.03 |
| 47 | T | Bromodichloromethane | 0.632 | 0.617 | 2.4 | 94 | -0.03 |
| 48 | T | Methyl methacrylate | 0.257 | 0.232 | 9.7 | 86 | -0.03 |
| 49 | T | 1,4-Dioxane | 0.001 | 0.001 | 0.0 | 115 | -0.05 |
| 50 | S | Toluene-d8 | 1.091 | 1.055 | 3.3 | 90 | -0.03 |
| 51 | T | 4-Methyl-2-Pentanone | 0.255 | 0.253 | 0.8 | 94 | -0.03 |
| 52 | CM | Toluene | 0.704 | 0.691 | 1.8# | 102 | -0.03 |
| 53 | T | t-1,3-Dichloropropene | 0.581 | 0.577 | 0.7 | 97 | -0.03 |
| 54 | T | cis-1,3-Dichloropropene | 0.579 | 0.574 | 0.9 | 95 | -0.02 |
| 55 | T | 1,1,2-Trichloroethane | 0.273 | 0.285 | -4.4 | 99 | -0.02 |
| 56 | T | Ethyl methacrylate | 0.338 | 0.342 | -1.2 | 95 | -0.02 |
| 57 | T | 1,3-Dichloropropane | 0.482 | 0.470 | 2.5 | 98 | -0.03 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.030 | 0.030 | 0.0 | 100 | -0.03 |
| 59 | T | 2-Hexanone | 0.193 | 0.193 | 0.0 | 92 | -0.03 |
| 60 | T | Dibromochloromethane | 0.460 | 0.471 | -2.4 | 97 | -0.03 |
| 61 | T | 1,2-Dibromoethane | 0.339 | 0.345 | -1.8 | 102 | -0.03 |
| 62 | S | 4-Bromofluorobenzene | 0.572 | 0.606 | -5.9 | 102 | -0.02 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 97 | -0.03 |
| 64 | T | Tetrachloroethene | 0.372 | 0.342 | 8.1 | 97 | -0.02 |
| 65 | PM | Chlorobenzene | 0.938 | 0.925 | 1.4 | 103 | -0.02 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.427 | 0.403 | 5.6 | 98 | -0.02 |
| 67 | C | Ethyl Benzene | 1.669 | 1.558 | 6.7# | 99 | -0.02 |
| 68 | T | m/p-Xylenes | 0.589 | 0.575 | 2.4 | 103 | -0.02 |
| 69 | T | o-Xylene | 0.627 | 0.633 | -1.0 | 106 | -0.02 |
| 70 | T | Styrene | 0.964 | 0.953 | 1.1 | 104 | -0.02 |
| 71 | P | Bromoform | 0.297 | 0.295 | 0.7 | 97 | -0.02 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | -0.02 |
| 73 | T | Isopropylbenzene | 3.155 | 3.105 | 1.6 | 105 | -0.02 |
| 74 | T | N-amyl acetate | 1.010 | 0.905 | 10.4 | 93 | -0.02 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.688 | 0.680 | 1.2 | 103 | -0.02 |
| 76 | T | 1,2,3-Trichloropropane | 0.562 | 0.533 | 5.2 | 102 | -0.02 |
| 77 | T | Bromobenzene | 0.884 | 0.856 | 3.2 | 103 | -0.02 |
| 78 | T | n-propylbenzene | 3.619 | 3.552 | 1.9 | 107 | -0.02 |
| 79 | T | 2-Chlorotoluene | 2.229 | 2.206 | 1.0 | 109 | -0.02 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.644 | 2.714 | -2.6 | 111 | -0.02 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.257 | 0.262 | -1.9 | 112 | -0.02 |
| 82 | T | 4-Chlorotoluene | 2.498 | 2.423 | 3.0 | 104 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.537 | 2.623 | -3.4 | 109 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.720 | 2.776 | -2.1 | 110 | -0.02 |
| 85 | T | sec-Butylbenzene | 3.227 | 3.401 | -5.4 | 112 | -0.02 |
| 86 | T | p-Isopropyltoluene | 2.808 | 2.985 | -6.3 | 114 | -0.02 |
| 87 | T | 1,3-Dichlorobenzene | 1.517 | 1.493 | 1.6 | 106 | -0.02 |
| 88 | T | 1,4-Dichlorobenzene | 1.495 | 1.472 | 1.5 | 108 | -0.02 |
| 89 | T | n-Butylbenzene | 2.628 | 2.930 | -11.5 | 118 | -0.02 |

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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) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.638 | 0.728 | -14.1 | 128 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.451 | 1.454 | -0.2 | 109 | -0.02 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.156 | 0.153 | 1.9 | 103 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.882 | 1.069 | -21.2 | 129 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.452 | 0.683 | -51.1# | 168# | 0.00 |
| 95 T | Naphthalene | 1.832 | 2.203 | -20.3 | 125 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.797 | 1.028 | -29.0# | 142 | 0.00 |

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