# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF061219\
Data File : VF062939.D
Acq On : 12 Jun 2019 20:36
Operator : FY/SY
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Jun 13 09:14:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
Quant Title : SW846 8260
QLast Update : Fri May 31 04:18:30 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 | 68 | -0.02 |
| 2 | T | Dichlorodifluoromethane | 0.649 | 0.521 | 19.7 | 60 | 0.00 |
| 3 | P | Chloromethane | 0.517 | 0.505 | 2.3 | 68 | 0.00 |
| 4 | C | Vinyl Chloride | 0.514 | 0.558 | -8.6# | 75 | 0.00 |
| 5 | T | Bromomethane | 0.293 | 0.323 | -10.2 | 68 | 0.00 |
| 6 | T | Chloroethane | 0.192 | 0.212 | -10.4 | 67 | -0.02 |
| 7 | T | Trichlorofluoromethane | 0.728 | 0.823 | -13.0 | 73 | -0.01 |
| 8 | T | Diethyl Ether | 0.143 | 0.142 | 0.7 | 63 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.458 | 0.549 | -19.9 | 81 | -0.02 |
| 10 | T | Methyl Iodide | 0.917 | 1.035 | -12.9 | 76 | -0.03 |
| 11 | T | Tert butyl alcohol | 0.021 | 0.028 | -33.3# | 94 | -0.02 |
| 12 | CM | 1,1-Dichloroethene | 0.416 | 0.436 | -4.8# | 71 | -0.01 |
| 13 | T | Acrolein | 0.009 | 0.010 | -11.1 | 81 | -0.01 |
| 14 | T | Allyl chloride | 0.322 | 0.497 | -54.3# | 90 | -0.01 |
| 15 | T | Acrylonitrile | 0.079 | 0.073 | 7.6 | 60 | -0.02 |
| 16 | T | Acetone | 0.079 | 0.091 | -15.2 | 71 | -0.01 |
| 17 | T | Carbon Disulfide | 1.214 | 1.289 | -6.2 | 71 | -0.01 |
| 18 | T | Methyl Acetate | 0.138 | 0.180 | -30.4# | 89 | -0.02 |
| 19 | T | Methyl tert-butyl Ether | 0.753 | 0.965 | -28.2# | 88 | -0.01 |
| 20 | T | Methylene Chloride | 0.442 | 0.458 | -3.6 | 73 | -0.02 |
| 21 | T | trans-1,2-Dichloroethene | 0.417 | 0.470 | -12.7 | 70 | -0.01 |
| 22 | T | Diisopropyl ether | 0.916 | 0.996 | -8.7 | 73 | -0.01 |
| 23 | T | Vinyl Acetate | 0.627 | 0.762 | -21.5 | 79 | -0.03 |
| 24 | P | 1,1-Dichloroethane | 0.684 | 0.914 | -33.6# | 87 | -0.02 |
| 25 | T | 2-Butanone | 0.184 | 0.225 | -22.3 | 83 | -0.03 |
| 26 | T | 2,2-Dichloropropane | 0.388 | 0.522 | -34.5# | 89 | -0.02 |
| 27 | T | cis-1,2-Dichloroethene | 0.700 | 0.782 | -11.7 | 71 | -0.02 |
| 28 | T | Bromochloromethane | 0.372 | 0.425 | -14.2 | 74 | -0.03 |
| 29 | | Tetrahydrofuran | 0.070 | 0.091 | -30.0# | 85 | -0.02 |
| 30 | C | Chloroform | 0.964 | 1.305 | -35.4# | 88 | -0.02 |
| 31 | T | Cyclohexane | 0.926 | 1.045 | -12.9 | 73 | -0.02 |
| 32 | T | 1,1,1-Trichloroethane | 0.561 | 0.833 | -48.5# | 108 | -0.02 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.346 | 0.434 | -25.4# | 78 | -0.02 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 34# | -0.01 |
| 35 | S | Dibromofluoromethane | 0.378 | 0.958 | -153.4# | 80 | -0.02 |
| 36 | T | 1,1-Dichloropropene | 0.460 | 1.044 | -127.0# | 73 | -0.02 |
| 37 | T | Ethyl Acetate | 0.176 | 0.483 | -174.4# | 88 | -0.03 |
| 38 | T | Carbon Tetrachloride | 0.311 | 0.901 | -189.7# | 95 | -0.01 |
| 39 | T | Methylcyclohexane | 0.573 | 1.043 | -82.0# | 58 | -0.02 |
| 40 | TM | Benzene | 1.340 | 3.150 | -135.1# | 73 | -0.02 |
| 41 | T | Methacrylonitrile | 0.098 | 0.256 | -161.2# | 88 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.255 | 0.711 | -178.8# | 89 | -0.02 |
| 43 | T | Isopropyl Acetate | 0.232 | 0.563 | -142.7# | 81 | -0.02 |
| 44 | TM | Trichloroethene | 0.378 | 0.523 | -38.4# | 45# | -0.01 |
| 45 | C | 1,2-Dichloropropane | 0.336 | 0.788 | -134.5# | 74 | -0.02 |

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ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Jun 13 09:14:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
Quant Title : SW846 8260
QLast Update : Fri May 31 04:18:30 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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.196 | 0.273 | -39.3# | 46# | -0.03 |
| 47 | T | Bromodichloromethane | 0.400 | 0.896 | -124.0# | 73 | -0.03 |
| 48 | T | Methyl methacrylate | 0.120 | 0.295 | -145.8# | 75 | -0.01 |
| 49 | T | 1,4-Dioxane | 0.002 | 0.001 | 50.0# | 26# | -0.01 |
| 50 | S | Toluene-d8 | 0.955 | 1.043 | -9.2 | 34# | -0.01 |
| 51 | T | 4-Methyl-2-Pentanone | 0.166 | 0.431 | -159.6# | 87 | -0.02 |
| 52 | CM | Toluene | 0.722 | 0.813 | -12.6# | 36# | -0.03 |
| 53 | T | t-1,3-Dichloropropene | 0.331 | 0.767 | -131.7# | 73 | -0.02 |
| 54 | T | cis-1,3-Dichloropropene | 0.479 | 1.132 | -136.3# | 74 | -0.02 |
| 55 | T | 1,1,2-Trichloroethane | 0.216 | 0.377 | -74.5# | 57 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.231 | 0.529 | -129.0# | 73 | -0.03 |
| 57 | T | 1,3-Dichloropropane | 0.352 | 0.827 | -134.9# | 74 | -0.02 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.081 | 0.194 | -139.5# | 78 | -0.02 |
| 59 | T | 2-Hexanone | 0.118 | 0.284 | -140.7# | 81 | -0.01 |
| 60 | T | Dibromochloromethane | 0.267 | 0.500 | -87.3# | 57 | -0.02 |
| 61 | T | 1,2-Dibromoethane | 0.224 | 0.318 | -42.0# | 45# | -0.03 |
| 62 | S | 4-Bromofluorobenzene | 0.344 | 0.645 | -87.5# | 59 | -0.02 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 63 | -0.03 |
| 64 | T | Tetrachloroethene | 0.384 | 0.327 | 14.8 | 50 | -0.02 |
| 65 | PM | Chlorobenzene | 0.966 | 0.643 | 33.4# | 40# | -0.01 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.385 | 0.303 | 21.3 | 49# | -0.02 |
| 67 | C | Ethyl Benzene | 1.657 | 1.196 | 27.8# | 45# | -0.01 |
| 68 | T | m/p-Xylenes | 0.634 | 0.628 | 0.9 | 61 | -0.02 |
| 69 | T | o-Xylene | 0.642 | 0.525 | 18.2 | 48# | -0.02 |
| 70 | T | Styrene | 0.946 | 1.004 | -6.1 | 63 | -0.02 |
| 71 | P | Bromoform | 0.184 | 0.242 | -31.5# | 77 | -0.02 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 50# | -0.01 |
| 73 | T | Isopropylbenzene | 3.489 | 4.185 | -19.9 | 57 | -0.03 |
| 74 | T | N-amyl acetate | 0.983 | 1.553 | -58.0# | 81 | -0.02 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.745 | 1.179 | -58.3# | 76 | -0.02 |
| 76 | T | 1,2,3-Trichloropropane | 0.494 | 0.813 | -64.6# | 82 | -0.02 |
| 77 | T | Bromobenzene | 0.877 | 1.187 | -35.3# | 66 | -0.02 |
| 78 | T | n-propylbenzene | 4.212 | 6.261 | -48.6# | 71 | -0.02 |
| 79 | T | 2-Chlorotoluene | 2.410 | 3.143 | -30.4# | 62 | -0.01 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.853 | 3.265 | -14.4 | 54 | -0.01 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.209 | 0.349 | -67.0# | 78 | -0.02 |
| 82 | T | 4-Chlorotoluene | 2.369 | 2.855 | -20.5 | 58 | -0.02 |
| 83 | T | tert-Butylbenzene | 2.827 | 3.226 | -14.1 | 55 | -0.01 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.705 | 4.063 | -50.2# | 72 | -0.01 |
| 85 | T | sec-Butylbenzene | 3.725 | 3.533 | 5.2 | 44# | -0.02 |
| 86 | T | p-Isopropyltoluene | 3.101 | 4.778 | -54.1# | 75 | -0.02 |
| 87 | T | 1,3-Dichlorobenzene | 1.546 | 1.710 | -10.6 | 56 | -0.01 |
| 88 | T | 1,4-Dichlorobenzene | 1.443 | 0.955 | 33.8# | 33# | -0.01 |
| 89 | T | n-Butylbenzene | 3.119 | 3.211 | -2.9 | 51 | -0.01 |

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Response via : Initial Calibration

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.756 | 1.127 | -49.1# | 68 | -0.02 |
| 91 T | 1,2-Dichlorobenzene | 1.359 | 1.963 | -44.4# | 70 | -0.01 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.081 | 0.140 | -72.8# | 83 | -0.01 |
| 93 T | 1,2,4-Trichlorobenzene | 0.933 | 1.157 | -24.0 | 59 | -0.01 |
| 94 T | Hexachlorobutadiene | 0.645 | 1.021 | -58.3# | 73 | -0.02 |
| 95 T | Naphthalene | 1.529 | 2.218 | -45.1# | 69 | -0.02 |
| 96 T | 1,2,3-Trichlorobenzene | 0.852 | 1.312 | -54.0# | 74 | -0.01 |

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