# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD102518\
Data File : VD060195.D
Acq On : 25 Oct 2018 14:50
Operator : JC/SY
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

Quant Time: Oct 26 10:53:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.02 |
| 2 | T | Dichlorodifluoromethane | 0.470 | 0.458 | 2.6 | 91 | 0.03 |
| 3 | P | Chloromethane | 0.424 | 0.453 | -6.8 | 108 | 0.02 |
| 4 | C | Vinyl Chloride | 0.347 | 0.384 | -10.7# | 109 | 0.03 |
| 5 | T | Bromomethane | 0.044 | 0.055 | -25.0# | 104 | 0.03 |
| 6 | T | Chloroethane | 0.095 | 0.103 | -8.4 | 95 | 0.02 |
| 7 | T | Trichlorofluoromethane | 0.416 | 0.439 | -5.5 | 101 | 0.03 |
| 8 | T | Diethyl Ether | 0.085 | 0.103 | -21.2# | 114 | 0.02 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.259 | 0.309 | -19.3 | 120 | 0.03 |
| 10 | T | Methyl Iodide | 0.275 | 0.326 | -18.5 | 105 | 0.03 |
| 11 | T | Tert butyl alcohol | 0.027 | 0.026 | 3.7 | 88 | 0.03 |
| 12 | CM | 1,1-Dichloroethene | 0.204 | 0.244 | -19.6# | 120 | 0.03 |
| 13 | T | Acrolein | 0.017 | 0.017 | 0.0 | 106 | 0.03 |
| 14 | T | Allyl chloride | 0.424 | 0.502 | -18.4 | 116 | 0.04 |
| 15 | T | Acrylonitrile | 0.113 | 0.124 | -9.7 | 106 | 0.03 |
| 16 | T | Acetone | 0.069 | 0.091 | -31.9# | 132 | 0.02 |
| 17 | T | Carbon Disulfide | 0.686 | 0.739 | -7.7 | 105 | 0.03 |
| 18 | T | Methyl Acetate | 0.148 | 0.222 | -50.0# | 144 | 0.02 |
| 19 | T | Methyl tert-butyl Ether | 0.897 | 0.999 | -11.4 | 106 | 0.03 |
| 20 | T | Methylene Chloride | 0.643 | 0.548 | 14.8 | 96 | 0.03 |
| 21 | T | trans-1,2-Dichloroethene | 0.527 | 0.545 | -3.4 | 98 | 0.04 |
| 22 | T | Diisopropyl ether | 1.892 | 2.074 | -9.6 | 107 | 0.02 |
| 23 | T | Vinyl Acetate | 1.063 | 1.128 | -6.1 | 101 | 0.03 |
| 24 | P | 1,1-Dichloroethane | 0.858 | 0.934 | -8.9 | 104 | 0.04 |
| 25 | T | 2-Butanone | 0.172 | 0.199 | -15.7 | 109 | 0.02 |
| 26 | T | 2,2-Dichloropropane | 0.650 | 0.756 | -16.3 | 114 | 0.03 |
| 27 | T | cis-1,2-Dichloroethene | 0.558 | 0.595 | -6.6 | 103 | 0.03 |
| 28 | T | Bromochloromethane | 0.417 | 0.455 | -9.1 | 108 | 0.03 |
| 29 | | Tetrahydrofuran | 0.100 | 0.101 | -1.0 | 97 | 0.03 |
| 30 | C | Chloroform | 0.868 | 0.937 | -7.9# | 105 | 0.03 |
| 31 | T | Cyclohexane | 0.821 | 0.794 | 3.3 | 98 | 0.03 |
| 32 | T | 1,1,1-Trichloroethane | 0.711 | 0.780 | -9.7 | 107 | 0.02 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.379 | 0.395 | -4.2 | 101 | 0.03 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.02 |
| 35 | S | Dibromofluoromethane | 0.380 | 0.382 | -0.5 | 101 | 0.03 |
| 36 | T | 1,1-Dichloropropene | 0.478 | 0.477 | 0.2 | 105 | 0.03 |
| 37 | T | Ethyl Acetate | 0.317 | 0.329 | -3.8 | 105 | 0.02 |
| 38 | T | Carbon Tetrachloride | 0.434 | 0.445 | -2.5 | 105 | 0.03 |
| 39 | T | Methylcyclohexane | 0.543 | 0.541 | 0.4 | 101 | 0.02 |
| 40 | TM | Benzene | 1.250 | 1.206 | 3.5 | 99 | 0.03 |
| 41 | T | Methacrylonitrile | 0.179 | 0.174 | 2.8 | 90 | 0.02 |
| 42 | TM | 1,2-Dichloroethane | 0.358 | 0.387 | -8.1 | 109 | 0.03 |
| 43 | T | Isopropyl Acetate | 0.417 | 0.434 | -4.1 | 103 | 0.02 |
| 44 | TM | Trichloroethene | 0.387 | 0.377 | 2.6 | 98 | 0.03 |
| 45 | C | 1,2-Dichloropropane | 0.327 | 0.340 | -4.0# | 104 | 0.02 |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.212 | 0.219 | -3.3 | 105 | 0.02 |
| 47 | T | Bromodichloromethane | 0.451 | 0.489 | -8.4 | 109 | 0.02 |
| 48 | T | Methyl methacrylate | 0.238 | 0.254 | -6.7 | 107 | 0.02 |
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 101 | 0.02 |
| 50 | S | Toluene-d8 | 1.083 | 1.105 | -2.0 | 102 | 0.02 |
| 51 | T | 4-Methyl-2-Pentanone | 0.263 | 0.278 | -5.7 | 106 | 0.01 |
| 52 | CM | Toluene | 0.805 | 0.799 | 0.7# | 100 | 0.03 |
| 53 | T | t-1,3-Dichloropropene | 0.409 | 0.446 | -9.0 | 107 | 0.02 |
| 54 | T | cis-1,3-Dichloropropene | 0.504 | 0.530 | -5.2 | 105 | 0.02 |
| 55 | T | 1,1,2-Trichloroethane | 0.263 | 0.272 | -3.4 | 105 | 0.02 |
| 56 | T | Ethyl methacrylate | 0.291 | 0.309 | -6.2 | 103 | 0.01 |
| 57 | T | 1,3-Dichloropropane | 0.401 | 0.422 | -5.2 | 105 | 0.01 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.161 | 0.177 | -9.9 | 117 | 0.02 |
| 59 | T | 2-Hexanone | 0.189 | 0.206 | -9.0 | 109 | 0.02 |
| 60 | T | Dibromochloromethane | 0.323 | 0.348 | -7.7 | 106 | 0.01 |
| 61 | T | 1,2-Dibromoethane | 0.280 | 0.289 | -3.2 | 104 | 0.01 |
| 62 | S | 4-Bromofluorobenzene | 0.405 | 0.425 | -4.9 | 106 | 0.01 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.02 |
| 64 | T | Tetrachloroethene | 0.438 | 0.415 | 5.3 | 99 | 0.02 |
| 65 | PM | Chlorobenzene | 1.082 | 1.096 | -1.3 | 104 | 0.01 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.361 | 0.374 | -3.6 | 106 | 0.01 |
| 67 | C | Ethyl Benzene | 1.753 | 1.788 | -2.0# | 107 | 0.01 |
| 68 | T | m/p-Xylenes | 0.655 | 0.671 | -2.4 | 107 | 0.01 |
| 69 | T | o-Xylene | 0.648 | 0.656 | -1.2 | 104 | 0.01 |
| 70 | T | Styrene | 1.083 | 1.109 | -2.4 | 107 | 0.01 |
| 71 | P | Bromoform | 0.292 | 0.316 | -8.2 | 104 | 0.01 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 106 | 0.01 |
| 73 | T | Isopropylbenzene | 3.299 | 3.450 | -4.6 | 109 | 0.00 |
| 74 | T | N-amyl acetate | 1.208 | 1.246 | -3.1 | 105 | 0.01 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.720 | 0.738 | -2.5 | 105 | 0.01 |
| 76 | T | 1,2,3-Trichloropropane | 0.720 | 0.740 | -2.8 | 106 | 0.01 |
| 77 | T | Bromobenzene | 0.959 | 0.964 | -0.5 | 104 | 0.01 |
| 78 | T | n-propylbenzene | 4.096 | 4.182 | -2.1 | 108 | 0.01 |
| 79 | T | 2-Chlorotoluene | 2.273 | 2.315 | -1.8 | 108 | 0.01 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.553 | 2.584 | -1.2 | 105 | 0.01 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.202 | 0.222 | -9.9 | 107 | 0.01 |
| 82 | T | 4-Chlorotoluene | 2.571 | 2.562 | 0.4 | 109 | 0.01 |
| 83 | T | tert-Butylbenzene | 2.930 | 3.045 | -3.9 | 107 | 0.01 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.691 | 2.776 | -3.2 | 108 | 0.01 |
| 85 | T | sec-Butylbenzene | 3.464 | 3.610 | -4.2 | 112 | 0.01 |
| 86 | T | p-Isopropyltoluene | 2.841 | 2.951 | -3.9 | 108 | 0.01 |
| 87 | T | 1,3-Dichlorobenzene | 1.670 | 1.656 | 0.8 | 103 | 0.01 |
| 88 | T | 1,4-Dichlorobenzene | 1.677 | 1.652 | 1.5 | 102 | 0.01 |
| 89 | T | n-Butylbenzene | 2.772 | 2.851 | -2.8 | 114 | 0.01 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.658 | 0.729 | -10.8 | 108 | 0.01 |
| 91 T | 1,2-Dichlorobenzene | 1.404 | 1.413 | -0.6 | 110 | 0.01 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.096 | 0.100 | -4.2 | 103 | 0.01 |
| 93 T | 1,2,4-Trichlorobenzene | 1.192 | 1.211 | -1.6 | 103 | 0.01 |
| 94 T | Hexachlorobutadiene | 0.792 | 0.818 | -3.3 | 105 | 0.01 |
| 95 T | Naphthalene | 1.767 | 1.777 | -0.6 | 101 | 0.01 |
| 96 T | 1,2,3-Trichlorobenzene | 1.037 | 1.015 | 2.1 | 102 | 0.01 |

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