# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW091218\
Data File : VW005342.D
Acq On : 12 Sep 2018 22:47
Operator : SY/AP
Sample : VSTDCCC050
Misc : 5.02G/5ML/MSVOA W/SOIL
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Sep 13 01:26:04 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091018S.M
Quant Title : SW846 8260
QLast Update : Tue Sep 11 03:48:23 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 | 74 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.431 | 0.391 | 9.3 | 75 | 0.00 |
| 3 | P | Chloromethane | 0.577 | 0.542 | 6.1 | 75 | 0.00 |
| 4 | C | Vinyl Chloride | 0.529 | 0.502 | 5.1# | 75 | 0.00 |
| 5 | T | Bromomethane | 0.360 | 0.355 | 1.4 | 82 | -0.01 |
| 6 | T | Chloroethane | 0.292 | 0.290 | 0.7 | 78 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.599 | 0.573 | 4.3 | 79 | -0.01 |
| 8 | T | Diethyl Ether | 0.213 | 0.213 | 0.0 | 81 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.428 | 0.404 | 5.6 | 76 | 0.00 |
| 10 | T | Methyl Iodide | 0.471 | 0.472 | -0.2 | 67 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.031 | 0.035 | -12.9 | 94 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.394 | 0.373 | 5.3# | 75 | 0.00 |
| 13 | T | Acrolein | 0.030 | 0.028 | 6.7 | 77 | 0.00 |
| 14 | T | Allyl chloride | 0.605 | 0.562 | 7.1 | 74 | 0.00 |
| 15 | T | Acrylonitrile | 0.096 | 0.112 | -16.7 | 91 | 0.00 |
| 16 | T | Acetone | 0.069 | 0.081 | -17.4 | 93 | 0.00 |
| 17 | T | Carbon Disulfide | 1.382 | 1.412 | -2.2 | 80 | 0.00 |
| 18 | T | Methyl Acetate | 0.207 | 0.235 | -13.5 | 91 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 0.938 | 1.015 | -8.2 | 84 | 0.00 |
| 20 | T | Methylene Chloride | 0.587 | 0.567 | 3.4 | 84 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.460 | 0.444 | 3.5 | 79 | 0.00 |
| 22 | T | Diisopropyl ether | 1.218 | 1.261 | -3.5 | 79 | 0.00 |
| 23 | T | Vinyl Acetate | 0.679 | 0.706 | -4.0 | 80 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.750 | 0.736 | 1.9 | 80 | 0.00 |
| 25 | T | 2-Butanone | 0.109 | 0.125 | -14.7 | 90 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.650 | 0.584 | 10.2 | 71 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.492 | 0.496 | -0.8 | 81 | 0.00 |
| 28 | T | Bromochloromethane | 0.277 | 0.288 | -4.0 | 81 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.074 | 0.082 | -10.8 | 87 | 0.00 |
| 30 | C | Chloroform | 0.753 | 0.750 | 0.4# | 79 | 0.00 |
| 31 | T | Cyclohexane | 0.798 | 0.751 | 5.9 | 73 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.680 | 0.680 | 0.0 | 77 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.373 | 0.391 | -4.8 | 79 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 73 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.262 | 0.283 | -8.0 | 78 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.458 | 0.461 | -0.7 | 75 | 0.00 |
| 37 | T | Ethyl Acetate | 0.174 | 0.192 | -10.3 | 87 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.429 | 0.430 | -0.2 | 76 | 0.00 |
| 39 | T | Methylcyclohexane | 0.608 | 0.602 | 1.0 | 72 | 0.00 |
| 40 | TM | Benzene | 1.350 | 1.431 | -6.0 | 78 | 0.00 |
| 41 | T | Methacrylonitrile | 0.089 | 0.123 | -38.2# | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.323 | 0.337 | -4.3 | 82 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.324 | 0.372 | -14.8 | 86 | 0.00 |
| 44 | TM | Trichloroethene | 0.370 | 0.380 | -2.7 | 76 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.324 | 0.337 | -4.0# | 77 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.159 | 0.167 | -5.0 | 83 | 0.00 |
| 47 | T | Bromodichloromethane | 0.388 | 0.402 | -3.6 | 78 | 0.00 |
| 48 | T | Methyl methacrylate | 0.168 | 0.184 | -9.5 | 78 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.003 | 0.004 | -33.3# | 89 | 0.00 |
| 50 | S | Toluene-d8 | 1.324 | 1.410 | -6.5 | 74 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.182 | 0.219 | -20.3# | 88 | 0.00 |
| 52 | CM | Toluene | 0.981 | 1.018 | -3.8# | 77 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.420 | 0.438 | -4.3 | 78 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.503 | 0.517 | -2.8 | 77 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.253 | 0.275 | -8.7 | 84 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.321 | 0.384 | -19.6 | 86 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.420 | 0.455 | -8.3 | 82 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.140 | 0.164 | -17.1 | 88 | 0.00 |
| 59 | T | 2-Hexanone | 0.131 | 0.160 | -22.1# | 89 | 0.00 |
| 60 | T | Dibromochloromethane | 0.281 | 0.313 | -11.4 | 84 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.232 | 0.259 | -11.6 | 85 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.484 | 0.522 | -7.9 | 77 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 75 | 0.00 |
| 64 | T | Tetrachloroethene | 0.371 | 0.426 | -14.8 | 86 | 0.00 |
| 65 | PM | Chlorobenzene | 1.095 | 1.159 | -5.8 | 80 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.327 | 0.349 | -6.7 | 81 | 0.00 |
| 67 | C | Ethyl Benzene | 1.907 | 1.994 | -4.6# | 77 | 0.00 |
| 68 | T | m/p-Xylenes | 0.769 | 0.804 | -4.6 | 78 | 0.00 |
| 69 | T | o-Xylene | 0.715 | 0.760 | -6.3 | 77 | 0.00 |
| 70 | T | Styrene | 1.167 | 1.277 | -9.4 | 79 | 0.00 |
| 71 | P | Bromoform | 0.177 | 0.211 | -19.2 | 89 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 76 | 0.00 |
| 73 | T | Isopropylbenzene | 3.533 | 3.656 | -3.5 | 76 | 0.00 |
| 74 | T | N-amyl acetate | 0.672 | 0.780 | -16.1 | 86 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.531 | 0.606 | -14.1 | 87 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.385 | 0.408 | -6.0 | 85 | 0.00 |
| 77 | T | Bromobenzene | 0.832 | 0.896 | -7.7 | 82 | 0.00 |
| 78 | T | n-propylbenzene | 4.243 | 4.353 | -2.6 | 78 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.433 | 2.511 | -3.2 | 78 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.008 | 3.152 | -4.8 | 79 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.164 | 0.179 | -9.1 | 81 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.557 | 2.653 | -3.8 | 79 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.631 | 2.711 | -3.0 | 78 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.023 | 3.215 | -6.4 | 81 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.781 | 3.928 | -3.9 | 78 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.347 | 3.494 | -4.4 | 78 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.748 | 1.821 | -4.2 | 80 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.716 | 1.811 | -5.5 | 83 | 0.00 |
| 89 | T | n-Butylbenzene | 3.147 | 3.259 | -3.6 | 77 | 0.00 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.536 | 0.562 | -4.9 | 80 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.536 | 1.669 | -8.7 | 85 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.088 | 0.108 | -22.7# | 93 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.087 | 1.178 | -8.4 | 83 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.696 | 0.741 | -6.5 | 81 | 0.00 |
| 95 T | Naphthalene | 1.762 | 2.185 | -24.0# | 92 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.935 | 1.061 | -13.5 | 86 | 0.00 |

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