# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW071018\
Data File : VW003818.D
Acq On : 10 Jul 2018 11:50
Operator : SY/AP
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Jul 10 13:49:08 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070718S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 07 05:07:25 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 | 97 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.243 | 0.228 | 6.2 | 88 | 0.00 |
| 3 | P | Chloromethane | 0.462 | 0.404 | 12.6 | 90 | 0.00 |
| 4 | C | Vinyl Chloride | 0.609 | 0.578 | 5.1# | 96 | 0.00 |
| 5 | T | Bromomethane | 0.430 | 0.377 | 12.3 | 90 | 0.00 |
| 6 | T | Chloroethane | 0.365 | 0.350 | 4.1 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.246 | 0.250 | -1.6 | 104 | 0.00 |
| 8 | T | Diethyl Ether | 0.252 | 0.249 | 1.2 | 106 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.478 | 0.506 | -5.9 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 0.712 | 0.708 | 0.6 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.035 | 0.031 | 11.4 | 84 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.470 | 0.495 | -5.3# | 100 | 0.00 |
| 13 | T | Acrolein | 0.046 | 0.058 | -26.1# | 118 | 0.00 |
| 14 | T | Allyl chloride | 0.817 | 0.806 | 1.3 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 0.126 | 0.116 | 7.9 | 82 | 0.00 |
| 16 | T | Acetone | 0.113 | 0.135 | -19.5 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 1.540 | 1.502 | 2.5 | 95 | 0.00 |
| 18 | T | Methyl Acetate | 0.320 | 0.289 | 9.7 | 76 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 0.971 | 0.899 | 7.4 | 83 | 0.00 |
| 20 | T | Methylene Chloride | 0.648 | 0.522 | 19.4 | 89 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.556 | 0.535 | 3.8 | 93 | 0.00 |
| 22 | T | Diisopropyl ether | 1.795 | 1.710 | 4.7 | 88 | 0.00 |
| 23 | T | Vinyl Acetate | 1.096 | 1.063 | 3.0 | 88 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.086 | 1.014 | 6.6 | 93 | 0.00 |
| 25 | T | 2-Butanone | 0.178 | 0.176 | 1.1 | 88 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.589 | 0.591 | -0.3 | 102 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.615 | 0.575 | 6.5 | 92 | 0.00 |
| 28 | T | Bromochloromethane | 0.484 | 0.416 | 14.0 | 88 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.114 | 0.105 | 7.9 | 81 | 0.00 |
| 30 | C | Chloroform | 1.108 | 1.037 | 6.4# | 93 | 0.00 |
| 31 | T | Cyclohexane | 0.954 | 0.916 | 4.0 | 97 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.843 | 0.807 | 4.3 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.654 | 0.593 | 9.3 | 89 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.350 | 0.344 | 1.7 | 92 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.531 | 0.555 | -4.5 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 0.258 | 0.238 | 7.8 | 82 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.504 | 0.522 | -3.6 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 0.581 | 0.641 | -10.3 | 98 | 0.00 |
| 40 | TM | Benzene | 1.517 | 1.503 | 0.9 | 92 | 0.00 |
| 41 | T | Methacrylonitrile | 0.148 | 0.141 | 4.7 | 83 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.491 | 0.468 | 4.7 | 89 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.489 | 0.461 | 5.7 | 82 | 0.00 |
| 44 | TM | Trichloroethene | 0.382 | 0.382 | 0.0 | 94 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.394 | 0.388 | 1.5# | 92 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.207 | 0.199 | 3.9 | 88 | 0.00 |
| 47 | T | Bromodichloromethane | 0.510 | 0.499 | 2.2 | 90 | 0.00 |
| 48 | T | Methyl methacrylate | 0.233 | 0.226 | 3.0 | 82 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 85 | 0.00 |
| 50 | S | Toluene-d8 | 1.339 | 1.391 | -3.9 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.253 | 0.249 | 1.6 | 82 | 0.00 |
| 52 | CM | Toluene | 0.940 | 0.967 | -2.9# | 94 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.509 | 0.525 | -3.1 | 91 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.575 | 0.587 | -2.1 | 91 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.288 | 0.279 | 3.1 | 88 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.351 | 0.365 | -4.0 | 85 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.502 | 0.485 | 3.4 | 86 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.166 | 0.182 | -9.6 | 85 | 0.00 |
| 59 | T | 2-Hexanone | 0.174 | 0.185 | -6.3 | 87 | 0.00 |
| 60 | T | Dibromochloromethane | 0.336 | 0.335 | 0.3 | 89 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.275 | 0.265 | 3.6 | 86 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.484 | 0.499 | -3.1 | 93 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 0.370 | 0.347 | 6.2 | 86 | 0.00 |
| 65 | PM | Chlorobenzene | 1.102 | 1.113 | -1.0 | 93 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.385 | 0.390 | -1.3 | 92 | 0.00 |
| 67 | C | Ethyl Benzene | 1.885 | 2.038 | -8.1# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.722 | 0.783 | -8.4 | 95 | 0.00 |
| 69 | T | o-Xylene | 0.666 | 0.717 | -7.7 | 93 | 0.00 |
| 70 | T | Styrene | 1.132 | 1.236 | -9.2 | 93 | 0.00 |
| 71 | P | Bromoform | 0.213 | 0.216 | -1.4 | 88 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 3.386 | 3.724 | -10.0 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 0.918 | 0.907 | 1.2 | 84 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.686 | 0.667 | 2.8 | 86 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.491 | 0.447 | 9.0 | 89 | 0.00 |
| 77 | T | Bromobenzene | 0.841 | 0.844 | -0.4 | 92 | 0.00 |
| 78 | T | n-propylbenzene | 4.251 | 4.686 | -10.2 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.442 | 2.567 | -5.1 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.918 | 3.200 | -9.7 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.201 | 0.224 | -11.4 | 94 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.626 | 2.749 | -4.7 | 94 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.407 | 2.690 | -11.8 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.032 | 3.277 | -8.1 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.601 | 4.002 | -11.1 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.146 | 3.522 | -12.0 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.703 | 1.745 | -2.5 | 94 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.713 | 1.704 | 0.5 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 3.095 | 3.519 | -13.7 | 100 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 90 | T | Hexachloroethane | 0.606 | 0.637 | -5.1 | 97 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.533 | 1.529 | 0.3 | 91 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.119 | 0.115 | 3.4 | 84 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.038 | 1.086 | -4.6 | 93 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.594 | 0.647 | -8.9 | 101 | 0.00 |
| 95 | T | Naphthalene | 1.854 | 1.963 | -5.9 | 85 | 0.00 |
| 96 | T | 1,2,3-Trichlorobenzene | 0.929 | 0.962 | -3.6 | 91 | 0.00 |

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