# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU083119\
Data File : VU034112.D
Acq On : 30 Aug 2019 20:33
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**LabSampleId :** VSTDCCC050

Quant Time: Aug 31 04:47:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
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 | 105 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.503 | 0.496 | 1.4 | 90 | 0.00 |
| 3 | P | Chloromethane | 0.749 | 0.593 | 20.8# | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 0.669 | 0.640 | 4.3# | 92 | 0.00 |
| 5 | T | Bromomethane | 0.351 | 0.318 | 9.4 | 92 | 0.01 |
| 6 | T | Chloroethane | 0.409 | 0.386 | 5.6 | 95 | 0.01 |
| 7 | T | Trichlorofluoromethane | 0.775 | 0.755 | 2.6 | 94 | 0.00 |
| 8 | T | Diethyl Ether | 0.332 | 0.335 | -0.9 | 99 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.491 | 0.474 | 3.5 | 94 | 0.00 |
| 10 | T | Methyl Iodide | 0.697 | 0.416 | 40.3# | 56 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.148 | 0.144 | 2.7 | 96 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.501 | 0.491 | 2.0# | 96 | 0.00 |
| 13 | T | Acrolein | 0.062 | 0.039 | 37.1# | 63 | 0.00 |
| 14 | T | Allyl chloride | 0.941 | 0.939 | 0.2 | 97 | 0.00 |
| 15 | T | Acrylonitrile | 0.339 | 0.348 | -2.7 | 97 | 0.00 |
| 16 | T | Acetone | 0.327 | 0.285 | 12.8 | 85 | 0.00 |
| 17 | T | Carbon Disulfide | 1.584 | 1.402 | 11.5 | 88 | 0.00 |
| 18 | T | Methyl Acetate | 0.845 | 0.815 | 3.6 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.640 | 1.750 | -6.7 | 100 | 0.00 |
| 20 | T | Methylene Chloride | 0.619 | 0.598 | 3.4 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.543 | 0.539 | 0.7 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 1.725 | 1.812 | -5.0 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 1.481 | 1.563 | -5.5 | 97 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.018 | 1.023 | -0.5 | 97 | 0.00 |
| 25 | T | 2-Butanone | 0.455 | 0.463 | -1.8 | 93 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.828 | 0.773 | 6.6 | 90 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.610 | 0.622 | -2.0 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 0.502 | 0.505 | -0.6 | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.280 | 0.297 | -6.1 | 98 | 0.00 |
| 30 | C | Chloroform | 1.016 | 0.981 | 3.4# | 97 | 0.00 |
| 31 | T | Cyclohexane | 0.957 | 0.881 | 7.9 | 92 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.832 | 0.827 | 0.6 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.641 | 0.626 | 2.3 | 98 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.347 | 0.325 | 6.3 | 99 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.473 | 0.452 | 4.4 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 0.530 | 0.515 | 2.8 | 96 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.457 | 0.431 | 5.7 | 96 | 0.00 |
| 39 | T | Methylcyclohexane | 0.557 | 0.482 | 13.5 | 85 | 0.00 |
| 40 | TM | Benzene | 1.431 | 1.383 | 3.4 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 0.272 | 0.280 | -2.9 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.494 | 0.464 | 6.1 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.806 | 0.811 | -0.6 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 0.376 | 0.373 | 0.8 | 102 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.394 | 0.384 | 2.5# | 97 | 0.00 |

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ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_U
**LabSampleId :** VSTDCCC050

Quant Time: Aug 31 04:47:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.254 | 0.245 | 3.5 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 0.496 | 0.477 | 3.8 | 97 | 0.00 |
| 48 | T | Methyl methacrylate | 0.389 | 0.392 | -0.8 | 96 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.009 | 10.0 | 90 | 0.00 |
| 50 | S | Toluene-d8 | 1.299 | 1.280 | 1.5 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.556 | 0.542 | 2.5 | 96 | 0.00 |
| 52 | CM | Toluene | 0.881 | 0.882 | -0.1# | 99 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.551 | 0.536 | 2.7 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.602 | 0.595 | 1.2 | 98 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.373 | 0.349 | 6.4 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.557 | 0.572 | -2.7 | 99 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.633 | 0.615 | 2.8 | 99 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.206 | 0.211 | -2.4 | 89 | 0.00 |
| 59 | T | 2-Hexanone | 0.420 | 0.414 | 1.4 | 95 | 0.00 |
| 60 | T | Dibromochloromethane | 0.400 | 0.383 | 4.3 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.393 | 0.377 | 4.1 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.505 | 0.492 | 2.6 | 103 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 108 | 0.00 |
| 64 | T | Tetrachloroethene | 0.336 | 0.337 | -0.3 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 1.029 | 1.014 | 1.5 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.373 | 0.361 | 3.2 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 1.744 | 1.773 | -1.7# | 99 | 0.00 |
| 68 | T | m/p-Xylenes | 0.663 | 0.678 | -2.3 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.636 | 0.648 | -1.9 | 97 | 0.00 |
| 70 | T | Styrene | 1.091 | 1.159 | -6.2 | 100 | 0.00 |
| 71 | P | Bromoform | 0.324 | 0.308 | 4.9 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 110 | 0.00 |
| 73 | T | Isopropylbenzene | 3.358 | 3.245 | 3.4 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 1.413 | 1.472 | -4.2 | 99 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.285 | 1.178 | 8.3 | 97 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.127 | 1.026 | 9.0 | 92 | 0.00 |
| 77 | T | Bromobenzene | 0.903 | 0.862 | 4.5 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 3.911 | 3.737 | 4.4 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.346 | 2.246 | 4.3 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.847 | 2.728 | 4.2 | 93 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.335 | 0.298 | 11.0 | 92 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.698 | 2.629 | 2.6 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.802 | 2.573 | 8.2 | 92 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.827 | 2.766 | 2.2 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.359 | 2.983 | 11.2 | 88 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.038 | 2.782 | 8.4 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.599 | 1.544 | 3.4 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.618 | 1.549 | 4.3 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 2.678 | 2.418 | 9.7 | 86 | 0.00 |

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**LabSampleId :** VSTDCCC050

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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) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.525 | 0.404 | 23.0# | 79 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.532 | 1.506 | 1.7 | 99 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.256 | 0.251 | 2.0 | 98 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.937 | 1.007 | -7.5 | 96 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.599 | 0.439 | 26.7# | 75 | 0.00 |
| 95 T | Naphthalene | 2.584 | 3.218 | -24.5# | 108 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.981 | 0.993 | -1.2 | 96 | 0.00 |

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