# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD043019\
Data File : VD062082.D
Acq On : 30 Apr 2019 12:28
Operator : FY/SY
Sample : VSTDCCC050
Misc : 5.00gm/5mL/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: May 01 01:20:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 23 14:52:55 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 | 86 | -0.02 |
| 2 | T | Dichlorodifluoromethane | 0.446 | 0.460 | -3.1 | 87 | -0.01 |
| 3 | P | Chloromethane | 0.379 | 0.342 | 9.8 | 84 | 0.00 |
| 4 | C | Vinyl Chloride | 0.344 | 0.317 | 7.8# | 83 | 0.00 |
| 5 | T | Bromomethane | 0.098 | 0.098 | 0.0 | 88 | -0.01 |
| 6 | T | Chloroethane | 0.124 | 0.127 | -2.4 | 86 | -0.01 |
| 7 | T | Trichlorofluoromethane | 0.520 | 0.570 | -9.6 | 98 | -0.01 |
| 8 | T | Diethyl Ether | 0.139 | 0.135 | 2.9 | 89 | -0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.479 | 0.497 | -3.8 | 93 | -0.02 |
| 10 | T | Methyl Iodide | 0.598 | 0.691 | -15.6 | 87 | -0.02 |
| 11 | T | Tert butyl alcohol | 0.022 | 0.023 | -4.5 | 93 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.408 | 0.398 | 2.5# | 87 | -0.02 |
| 13 | T | Acrolein | 0.023 | 0.023 | 0.0 | 102 | -0.02 |
| 14 | T | Allyl chloride | 0.557 | 0.529 | 5.0 | 87 | -0.02 |
| 15 | T | Acrylonitrile | 0.068 | 0.066 | 2.9 | 87 | -0.03 |
| 16 | T | Acetone | 0.093 | 0.107 | -15.1 | 100 | -0.01 |
| 17 | T | Carbon Disulfide | 1.178 | 1.080 | 8.3 | 82 | -0.02 |
| 18 | T | Methyl Acetate | 0.188 | 0.160 | 14.9 | 90 | -0.02 |
| 19 | T | Methyl tert-butyl Ether | 0.809 | 0.741 | 8.4 | 83 | -0.02 |
| 20 | T | Methylene Chloride | 0.518 | 0.448 | 13.5 | 87 | -0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.468 | 0.412 | 12.0 | 77 | -0.02 |
| 22 | T | Diisopropyl ether | 1.299 | 1.228 | 5.5 | 86 | -0.02 |
| 23 | T | Vinyl Acetate | 0.677 | 0.667 | 1.5 | 87 | -0.02 |
| 24 | P | 1,1-Dichloroethane | 0.785 | 0.738 | 6.0 | 87 | -0.02 |
| 25 | T | 2-Butanone | 0.113 | 0.109 | 3.5 | 88 | -0.02 |
| 26 | T | 2,2-Dichloropropane | 0.685 | 0.710 | -3.6 | 96 | -0.02 |
| 27 | T | cis-1,2-Dichloroethene | 0.532 | 0.510 | 4.1 | 90 | -0.03 |
| 28 | T | Bromochloromethane | 0.300 | 0.300 | 0.0 | 92 | -0.02 |
| 29 | | Tetrahydrofuran | 0.056 | 0.052 | 7.1 | 81 | -0.02 |
| 30 | C | Chloroform | 0.892 | 0.861 | 3.5# | 83 | -0.03 |
| 31 | T | Cyclohexane | 0.583 | 0.542 | 7.0 | 77 | -0.01 |
| 32 | T | 1,1,1-Trichloroethane | 0.776 | 0.756 | 2.6 | 80 | -0.01 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.391 | 0.416 | -6.4 | 101 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 81 | -0.02 |
| 35 | S | Dibromofluoromethane | 0.346 | 0.384 | -11.0 | 93 | -0.02 |
| 36 | T | 1,1-Dichloropropene | 0.390 | 0.399 | -2.3 | 83 | -0.02 |
| 37 | T | Ethyl Acetate | 0.166 | 0.166 | 0.0 | 90 | -0.02 |
| 38 | T | Carbon Tetrachloride | 0.494 | 0.512 | -3.6 | 78 | -0.02 |
| 39 | T | Methylcyclohexane | 0.384 | 0.445 | -15.9 | 95 | -0.02 |
| 40 | TM | Benzene | 0.964 | 0.962 | 0.2 | 82 | -0.02 |
| 41 | T | Methacrylonitrile | 0.194 | 0.194 | 0.0 | 78 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.327 | 0.357 | -9.2 | 93 | -0.02 |
| 43 | T | Isopropyl Acetate | 0.243 | 0.243 | 0.0 | 86 | -0.02 |
| 44 | TM | Trichloroethene | 0.374 | 0.405 | -8.3 | 88 | -0.02 |
| 45 | C | 1,2-Dichloropropane | 0.245 | 0.258 | -5.3# | 88 | -0.02 |

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

Quant Time: May 01 01:20:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 23 14:52:55 2019
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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 | 0.176 | 0.184 | -4.5 | 86 | -0.02 |
| 47 | T | Bromodichloromethane | 0.416 | 0.442 | -6.3 | 90 | -0.02 |
| 48 | T | Methyl methacrylate | 0.138 | 0.133 | 3.6 | 85 | -0.02 |
| 49 | T | 1,4-Dioxane | 0.001 | 0.002 | -100.0# | 84 | -0.01 |
| 50 | S | Toluene-d8 | 0.823 | 0.923 | -12.2 | 97 | -0.02 |
| 51 | T | 4-Methyl-2-Pentanone | 0.148 | 0.161 | -8.8 | 92 | -0.01 |
| 52 | CM | Toluene | 0.615 | 0.646 | -5.0# | 93 | -0.02 |
| 53 | T | t-1,3-Dichloropropene | 0.349 | 0.411 | -17.8 | 94 | -0.02 |
| 54 | T | cis-1,3-Dichloropropene | 0.425 | 0.488 | -14.8 | 96 | -0.02 |
| 55 | T | 1,1,2-Trichloroethane | 0.206 | 0.228 | -10.7 | 93 | -0.02 |
| 56 | T | Ethyl methacrylate | 0.229 | 0.238 | -3.9 | 89 | -0.02 |
| 57 | T | 1,3-Dichloropropane | 0.319 | 0.347 | -8.8 | 95 | -0.02 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.106 | 0.117 | -10.4 | 100 | -0.02 |
| 59 | T | 2-Hexanone | 0.111 | 0.127 | -14.4 | 96 | -0.01 |
| 60 | T | Dibromochloromethane | 0.342 | 0.356 | -4.1 | 88 | -0.01 |
| 61 | T | 1,2-Dibromoethane | 0.245 | 0.264 | -7.8 | 97 | -0.01 |
| 62 | S | 4-Bromofluorobenzene | 0.330 | 0.384 | -16.4 | 101 | -0.01 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 89 | -0.01 |
| 64 | T | Tetrachloroethene | 0.357 | 0.347 | 2.8 | 89 | -0.02 |
| 65 | PM | Chlorobenzene | 0.945 | 0.879 | 7.0 | 86 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.401 | 0.408 | -1.7 | 93 | -0.01 |
| 67 | C | Ethyl Benzene | 1.542 | 1.485 | 3.7# | 90 | -0.01 |
| 68 | T | m/p-Xylenes | 0.557 | 0.562 | -0.9 | 97 | 0.00 |
| 69 | T | o-Xylene | 0.510 | 0.494 | 3.1 | 93 | -0.01 |
| 70 | T | Styrene | 0.881 | 0.864 | 1.9 | 92 | -0.01 |
| 71 | P | Bromoform | 0.228 | 0.242 | -6.1 | 97 | -0.01 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 94 | -0.01 |
| 73 | T | Isopropylbenzene | 3.335 | 3.157 | 5.3 | 94 | 0.00 |
| 74 | T | N-amyl acetate | 0.859 | 0.736 | 14.3 | 84 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.654 | 0.629 | 3.8 | 93 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.635 | 0.598 | 5.8 | 89 | -0.01 |
| 77 | T | Bromobenzene | 0.957 | 0.889 | 7.1 | 92 | 0.00 |
| 78 | T | n-propylbenzene | 3.818 | 3.777 | 1.1 | 101 | -0.01 |
| 79 | T | 2-Chlorotoluene | 2.313 | 2.102 | 9.1 | 91 | -0.01 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.659 | 2.402 | 9.7 | 91 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.192 | 0.191 | 0.5 | 99 | -0.01 |
| 82 | T | 4-Chlorotoluene | 2.547 | 2.316 | 9.1 | 90 | -0.01 |
| 83 | T | tert-Butylbenzene | 3.081 | 3.077 | 0.1 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.539 | 2.569 | -1.2 | 91 | -0.01 |
| 85 | T | sec-Butylbenzene | 3.329 | 3.376 | -1.4 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.979 | 2.582 | 13.3 | 79 | -0.01 |
| 87 | T | 1,3-Dichlorobenzene | 1.676 | 1.546 | 7.8 | 91 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.567 | 1.465 | 6.5 | 89 | -0.01 |
| 89 | T | n-Butylbenzene | 2.675 | 2.639 | 1.3 | 97 | -0.01 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.806 | 0.820 | -1.7 | 94 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.382 | 1.328 | 3.9 | 97 | -0.01 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.087 | 0.080 | 8.0 | 87 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.746 | 0.687 | 7.9 | 84 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.552 | 0.526 | 4.7 | 84 | -0.01 |
| 95 T | Naphthalene | 1.204 | 1.098 | 8.8 | 88 | -0.01 |
| 96 T | 1,2,3-Trichlorobenzene | 0.423 | 0.395 | 6.6 | 82 | 0.00 |

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