# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122118\
Data File : VF061118.D
Acq On : 21 Dec 2018 11:10
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_F
**LabSampleId :** VSTDCCC050

Quant Time: Dec 21 15:13:36 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 106 | 0.03 |
| 2 | T | Dichlorodifluoromethane | 1.111 | 0.919 | 17.3 | 87 | 0.02 |
| 3 | P | Chloromethane | 0.637 | 0.581 | 8.8 | 98 | 0.02 |
| 4 | C | Vinyl Chloride | 0.591 | 0.538 | 9.0# | 95 | 0.02 |
| 5 | T | Bromomethane | 0.410 | 0.381 | 7.1 | 96 | 0.03 |
| 6 | T | Chloroethane | 0.272 | 0.271 | 0.4 | 106 | 0.02 |
| 7 | T | Trichlorofluoromethane | 1.128 | 1.025 | 9.1 | 92 | 0.00 |
| 8 | T | Diethyl Ether | 0.154 | 0.158 | -2.6 | 107 | 0.02 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.585 | 0.533 | 8.9 | 100 | 0.03 |
| 10 | T | Methyl Iodide | 0.922 | 0.837 | 9.2 | 99 | 0.02 |
| 11 | T | Tert butyl alcohol | 0.026 | 0.028 | -7.7 | 110 | 0.04 |
| 12 | CM | 1,1-Dichloroethene | 0.441 | 0.415 | 5.9# | 98 | 0.02 |
| 13 | T | Acrolein | 0.019 | 0.024 | -26.3# | 156# | 0.01 |
| 14 | T | Allyl chloride | 0.459 | 0.304 | 33.8# | 75 | 0.02 |
| 15 | T | Acrylonitrile | 0.060 | 0.063 | -5.0 | 105 | 0.03 |
| 16 | T | Acetone | 0.129 | 0.137 | -6.2 | 107 | 0.02 |
| 17 | T | Carbon Disulfide | 1.332 | 1.271 | 4.6 | 102 | 0.02 |
| 18 | T | Methyl Acetate | 0.266 | 0.282 | -6.0 | 126 | 0.02 |
| 19 | T | Methyl tert-butyl Ether | 0.978 | 0.882 | 9.8 | 96 | 0.02 |
| 20 | T | Methylene Chloride | 0.477 | 0.403 | 15.5 | 101 | 0.03 |
| 21 | T | trans-1,2-Dichloroethene | 0.471 | 0.422 | 10.4 | 102 | 0.02 |
| 22 | T | Diisopropyl ether | 1.528 | 1.424 | 6.8 | 100 | 0.02 |
| 23 | T | Vinyl Acetate | 0.705 | 0.738 | -4.7 | 110 | 0.03 |
| 24 | P | 1,1-Dichloroethane | 0.905 | 0.774 | 14.5 | 89 | 0.02 |
| 25 | T | 2-Butanone | 0.208 | 0.234 | -12.5 | 119 | 0.04 |
| 26 | T | 2,2-Dichloropropane | 0.519 | 0.472 | 9.1 | 97 | 0.04 |
| 27 | T | cis-1,2-Dichloroethene | 0.722 | 0.704 | 2.5 | 108 | 0.03 |
| 28 | T | Bromochloromethane | 0.459 | 0.463 | -0.9 | 108 | 0.03 |
| 29 | | Tetrahydrofuran | 0.085 | 0.087 | -2.4 | 112 | 0.04 |
| 30 | C | Chloroform | 1.357 | 1.237 | 8.8# | 96 | 0.03 |
| 31 | T | Cyclohexane | 0.939 | 0.952 | -1.4 | 111 | 0.03 |
| 32 | T | 1,1,1-Trichloroethane | 0.814 | 0.908 | -11.5 | 123 | 0.04 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.643 | 0.583 | 9.3 | 102 | 0.03 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 106 | 0.03 |
| 35 | S | Dibromofluoromethane | 0.401 | 0.386 | 3.7 | 110 | 0.03 |
| 36 | T | 1,1-Dichloropropene | 0.604 | 0.577 | 4.5 | 100 | 0.04 |
| 37 | T | Ethyl Acetate | 0.248 | 0.231 | 6.9 | 104 | 0.04 |
| 38 | T | Carbon Tetrachloride | 0.460 | 0.398 | 13.5 | 91 | 0.04 |
| 39 | T | Methylcyclohexane | 0.541 | 0.482 | 10.9 | 89 | 0.04 |
| 40 | TM | Benzene | 1.298 | 1.283 | 1.2 | 106 | 0.04 |
| 41 | T | Methacrylonitrile | 0.127 | 0.122 | 3.9 | 102 | 0.04 |
| 42 | TM | 1,2-Dichloroethane | 0.493 | 0.452 | 8.3 | 96 | 0.03 |
| 43 | T | Isopropyl Acetate | 0.291 | 0.328 | -12.7 | 123 | 0.04 |
| 44 | TM | Trichloroethene | 0.409 | 0.403 | 1.5 | 103 | 0.03 |
| 45 | C | 1,2-Dichloropropane | 0.353 | 0.334 | 5.4# | 101 | 0.03 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.229 | 0.218 | 4.8 | 99 | 0.03 |
| 47 | T | Bromodichloromethane | 0.595 | 0.564 | 5.2 | 96 | 0.03 |
| 48 | T | Methyl methacrylate | 0.203 | 0.214 | -5.4 | 109 | 0.03 |
| 49 | T | 1,4-Dioxane | 0.001 | 0.002 | -100.0# | 109 | 0.04 |
| 50 | S | Toluene-d8 | 1.135 | 1.168 | -2.9 | 112 | 0.03 |
| 51 | T | 4-Methyl-2-Pentanone | 0.200 | 0.200 | 0.0 | 107 | 0.03 |
| 52 | CM | Toluene | 0.859 | 0.793 | 7.7# | 101 | 0.03 |
| 53 | T | t-1,3-Dichloropropene | 0.480 | 0.463 | 3.5 | 105 | 0.03 |
| 54 | T | cis-1,3-Dichloropropene | 0.602 | 0.580 | 3.7 | 104 | 0.03 |
| 55 | T | 1,1,2-Trichloroethane | 0.258 | 0.255 | 1.2 | 111 | 0.03 |
| 56 | T | Ethyl methacrylate | 0.279 | 0.289 | -3.6 | 109 | 0.03 |
| 57 | T | 1,3-Dichloropropane | 0.466 | 0.451 | 3.2 | 105 | 0.04 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.054 | 0.061 | -13.0 | 125 | 0.04 |
| 59 | T | 2-Hexanone | 0.145 | 0.170 | -17.2 | 123 | 0.03 |
| 60 | T | Dibromochloromethane | 0.369 | 0.358 | 3.0 | 99 | 0.03 |
| 61 | T | 1,2-Dibromoethane | 0.275 | 0.268 | 2.5 | 102 | 0.03 |
| 62 | S | 4-Bromofluorobenzene | 0.523 | 0.492 | 5.9 | 107 | 0.02 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 101 | 0.03 |
| 64 | T | Tetrachloroethene | 0.385 | 0.385 | 0.0 | 105 | 0.04 |
| 65 | PM | Chlorobenzene | 1.033 | 0.991 | 4.1 | 102 | 0.04 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.422 | 0.398 | 5.7 | 103 | 0.03 |
| 67 | C | Ethyl Benzene | 1.882 | 1.805 | 4.1# | 102 | 0.04 |
| 68 | T | m/p-Xylenes | 0.662 | 0.646 | 2.4 | 104 | 0.03 |
| 69 | T | o-Xylene | 0.734 | 0.664 | 9.5 | 96 | 0.03 |
| 70 | T | Styrene | 1.022 | 0.958 | 6.3 | 104 | 0.02 |
| 71 | P | Bromoform | 0.195 | 0.189 | 3.1 | 103 | 0.03 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.03 |
| 73 | T | Isopropylbenzene | 4.309 | 4.219 | 2.1 | 98 | 0.02 |
| 74 | T | N-amyl acetate | 0.957 | 1.044 | -9.1 | 112 | 0.02 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.715 | 0.692 | 3.2 | 99 | 0.02 |
| 76 | T | 1,2,3-Trichloropropane | 0.532 | 0.511 | 3.9 | 98 | 0.02 |
| 77 | T | Bromobenzene | 0.928 | 0.881 | 5.1 | 97 | 0.03 |
| 78 | T | n-propylbenzene | 5.104 | 4.777 | 6.4 | 95 | 0.03 |
| 79 | T | 2-Chlorotoluene | 2.956 | 2.768 | 6.4 | 96 | 0.02 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.548 | 3.420 | 3.6 | 99 | 0.02 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.229 | 0.219 | 4.4 | 96 | 0.02 |
| 82 | T | 4-Chlorotoluene | 3.058 | 2.797 | 8.5 | 97 | 0.03 |
| 83 | T | tert-Butylbenzene | 3.651 | 3.341 | 8.5 | 94 | 0.02 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.538 | 3.304 | 6.6 | 98 | 0.03 |
| 85 | T | sec-Butylbenzene | 4.764 | 4.529 | 4.9 | 98 | 0.03 |
| 86 | T | p-Isopropyltoluene | 3.955 | 3.888 | 1.7 | 101 | 0.02 |
| 87 | T | 1,3-Dichlorobenzene | 1.749 | 1.659 | 5.1 | 102 | 0.02 |
| 88 | T | 1,4-Dichlorobenzene | 1.703 | 1.600 | 6.0 | 100 | 0.02 |
| 89 | T | n-Butylbenzene | 4.088 | 3.871 | 5.3 | 98 | 0.02 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.977 | 0.923 | 5.5 | 96 | 0.03 |
| 91 T | 1,2-Dichlorobenzene | 1.658 | 1.527 | 7.9 | 94 | 0.02 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.131 | 0.138 | -5.3 | 102 | 0.02 |
| 93 T | 1,2,4-Trichlorobenzene | 1.176 | 1.127 | 4.2 | 100 | 0.03 |
| 94 T | Hexachlorobutadiene | 0.749 | 0.749 | 0.0 | 102 | 0.03 |
| 95 T | Naphthalene | 2.147 | 2.147 | 0.0 | 98 | 0.03 |
| 96 T | 1,2,3-Trichlorobenzene | 1.087 | 1.014 | 6.7 | 90 | 0.03 |

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