# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv022420\
Data File : VY001771.D
Acq On : 24 Feb 2020 17:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_Y
**LabSampleId :** VSTDCCC050

Quant Time: Feb 24 18:10:46 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y021720S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 17 12:19:53 2020
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 | 90 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.487 | 0.525 | -7.8 | 90 | 0.00 |
| 3 | P | Chloromethane | 0.656 | 0.660 | -0.6 | 89 | 0.00 |
| 4 | C | Vinyl Chloride | 0.661 | 0.667 | -0.9# | 88 | 0.00 |
| 5 | T | Bromomethane | 0.413 | 0.419 | -1.5 | 90 | 0.00 |
| 6 | T | Chloroethane | 0.407 | 0.414 | -1.7 | 91 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.846 | 0.885 | -4.6 | 94 | 0.00 |
| 8 | T | Diethyl Ether | 0.334 | 0.362 | -8.4 | 99 | -0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.532 | 0.569 | -7.0 | 96 | 0.00 |
| 10 | T | Methyl Iodide | 0.651 | 0.681 | -4.6 | 87 | -0.01 |
| 11 | T | Tert butyl alcohol | 0.075 | 0.070 | 6.7 | 104 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.543 | 0.562 | -3.5# | 94 | 0.00 |
| 13 | T | Acrolein | 0.054 | 0.065 | -20.4 | 113 | 0.00 |
| 14 | T | Allyl chloride | 0.966 | 1.049 | -8.6 | 97 | -0.01 |
| 15 | T | Acrylonitrile | 0.171 | 0.193 | -12.9 | 100 | -0.02 |
| 16 | T | Acetone | 0.186 | 0.174 | 6.5 | 73 | -0.01 |
| 17 | T | Carbon Disulfide | 1.811 | 1.807 | 0.2 | 89 | 0.00 |
| 18 | T | Methyl Acetate | 0.405 | 0.439 | -8.4 | 99 | -0.01 |
| 19 | T | Methyl tert-butyl Ether | 1.510 | 1.627 | -7.7 | 97 | -0.01 |
| 20 | T | Methylene Chloride | 0.661 | 0.667 | -0.9 | 100 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.619 | 0.632 | -2.1 | 93 | -0.01 |
| 22 | T | Diisopropyl ether | 1.983 | 2.159 | -8.9 | 98 | -0.01 |
| 23 | T | Vinyl Acetate | 1.293 | 1.432 | -10.8 | 97 | -0.01 |
| 24 | P | 1,1-Dichloroethane | 1.060 | 1.143 | -7.8 | 97 | -0.01 |
| 25 | T | 2-Butanone | 0.253 | 0.261 | -3.2 | 85 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.922 | 0.941 | -2.1 | 95 | -0.01 |
| 27 | T | cis-1,2-Dichloroethene | 0.683 | 0.716 | -4.8 | 96 | 0.00 |
| 28 | T | Bromochloromethane | 0.441 | 0.522 | -18.4 | 101 | -0.01 |
| 29 | T | Tetrahydrofuran | 0.153 | 0.170 | -11.1 | 97 | -0.01 |
| 30 | C | Chloroform | 1.035 | 1.081 | -4.4# | 96 | -0.01 |
| 31 | T | Cyclohexane | 1.130 | 1.130 | 0.0 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.870 | 0.910 | -4.6 | 94 | -0.01 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.538 | 0.568 | -5.6 | 96 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.286 | 0.285 | 0.3 | 96 | -0.01 |
| 36 | T | 1,1-Dichloropropene | 0.478 | 0.482 | -0.8 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 0.285 | 0.311 | -9.1 | 101 | -0.01 |
| 38 | T | Carbon Tetrachloride | 0.420 | 0.424 | -1.0 | 91 | 0.00 |
| 39 | T | Methylcyclohexane | 0.634 | 0.640 | -0.9 | 93 | 0.00 |
| 40 | TM | Benzene | 1.405 | 1.468 | -4.5 | 96 | -0.01 |
| 41 | T | Methacrylonitrile | 0.143 | 0.158 | -10.5 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.383 | 0.389 | -1.6 | 94 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.541 | 0.586 | -8.3 | 97 | -0.01 |
| 44 | TM | Trichloroethene | 0.351 | 0.353 | -0.6 | 93 | -0.01 |
| 45 | C | 1,2-Dichloropropane | 0.352 | 0.376 | -6.8# | 99 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.184 | 0.192 | -4.3 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 0.444 | 0.463 | -4.3 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.245 | 0.273 | -11.4 | 100 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 98 | 0.00 |
| 50 | S | Toluene-d8 | 1.122 | 1.173 | -4.5 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.278 | 0.303 | -9.0 | 96 | 0.00 |
| 52 | CM | Toluene | 0.876 | 0.889 | -1.5# | 92 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.491 | 0.515 | -4.9 | 93 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.565 | 0.591 | -4.6 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.271 | 0.290 | -7.0 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.407 | 0.438 | -7.6 | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.482 | 0.513 | -6.4 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.170 | 0.140 | 17.6 | 90 | 0.00 |
| 59 | T | 2-Hexanone | 0.209 | 0.215 | -2.9 | 86 | 0.00 |
| 60 | T | Dibromochloromethane | 0.299 | 0.311 | -4.0 | 92 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.257 | 0.270 | -5.1 | 94 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.436 | 0.424 | 2.8 | 93 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 64 | T | Tetrachloroethene | 0.314 | 0.314 | 0.0 | 92 | 0.00 |
| 65 | PM | Chlorobenzene | 0.998 | 1.030 | -3.2 | 93 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.337 | 0.350 | -3.9 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 1.853 | 1.921 | -3.7# | 93 | 0.00 |
| 68 | T | m/p-Xylenes | 0.692 | 0.704 | -1.7 | 91 | 0.00 |
| 69 | T | o-Xylene | 0.658 | 0.670 | -1.8 | 91 | 0.00 |
| 70 | T | Styrene | 1.143 | 1.179 | -3.1 | 91 | 0.00 |
| 71 | P | Bromoform | 0.192 | 0.199 | -3.6 | 88 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 73 | T | Isopropylbenzene | 3.809 | 3.973 | -4.3 | 91 | 0.00 |
| 74 | T | N-amyl acetate | 1.216 | 1.291 | -6.2 | 90 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.813 | 0.894 | -10.0 | 93 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.574 | 0.674 | -17.4 | 112 | 0.00 |
| 77 | T | Bromobenzene | 0.826 | 0.855 | -3.5 | 91 | 0.00 |
| 78 | T | n-propylbenzene | 4.639 | 4.902 | -5.7 | 91 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.602 | 2.715 | -4.3 | 91 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.153 | 3.280 | -4.0 | 89 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.302 | 0.330 | -9.3 | 88 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.744 | 2.882 | -5.0 | 89 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.637 | 2.773 | -5.2 | 90 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.144 | 3.254 | -3.5 | 89 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.879 | 4.040 | -4.2 | 90 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.369 | 3.445 | -2.3 | 88 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.601 | 1.641 | -2.5 | 89 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.619 | 1.633 | -0.9 | 88 | 0.00 |
| 89 | T | n-Butylbenzene | 3.443 | 3.539 | -2.8 | 88 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.635 | 0.659 | -3.8 | 88 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.478 | 1.491 | -0.9 | 88 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.134 | 0.137 | -2.2 | 87 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.979 | 0.932 | 4.8 | 83 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.487 | 0.448 | 8.0 | 83 | 0.00 |
| 95 T | Naphthalene | 2.258 | 2.269 | -0.5 | 86 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.862 | 0.825 | 4.3 | 84 | 0.00 |

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