# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv042820\
Data File : VY002485.D
Acq On : 28 Apr 2020 10:57
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Apr 28 15:14:24 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y042320S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 23 14:11:26 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 | 102 | -0.02 |
| 2 | T | Dichlorodifluoromethane | 0.366 | 0.393 | -7.4 | 111 | 0.00 |
| 3 | P | Chloromethane | 0.466 | 0.454 | 2.6 | 101 | 0.00 |
| 4 | C | Vinyl Chloride | 0.335 | 0.341 | -1.8# | 124 | -0.01 |
| 5 | T | Bromomethane | 0.188 | 0.171 | 9.0 | 101 | -0.01 |
| 6 | T | Chloroethane | 0.176 | 0.144 | 18.2 | 92 | -0.01 |
| 7 | T | Trichlorofluoromethane | 0.607 | 0.530 | 12.7 | 80 | -0.02 |
| 8 | T | Diethyl Ether | 0.250 | 0.141 | 43.6# | 57 | -0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.418 | 0.384 | 8.1 | 89 | -0.02 |
| 10 | T | Methyl Iodide | 0.644 | 0.640 | 0.6 | 98 | -0.02 |
| 11 | T | Tert butyl alcohol | 0.041 | 0.042 | -2.4 | 122 | -0.02 |
| 12 | CM | 1,1-Dichloroethene | 0.428 | 0.359 | 16.1# | 83 | -0.02 |
| 13 | T | Acrolein | 0.033 | 0.026 | 21.2 | 78 | -0.02 |
| 14 | T | Allyl chloride | 0.629 | 0.600 | 4.6 | 99 | -0.02 |
| 15 | T | Acrylonitrile | 0.120 | 0.117 | 2.5 | 105 | -0.02 |
| 16 | T | Acetone | 0.091 | 0.111 | -22.0 | 128 | -0.01 |
| 17 | T | Carbon Disulfide | 1.335 | 1.281 | 4.0 | 97 | -0.02 |
| 18 | T | Methyl Acetate | 0.294 | 0.271 | 7.8 | 105 | -0.02 |
| 19 | T | Methyl tert-butyl Ether | 1.155 | 1.147 | 0.7 | 104 | -0.03 |
| 20 | T | Methylene Chloride | 0.521 | 0.452 | 13.2 | 100 | -0.02 |
| 21 | T | trans-1,2-Dichloroethene | 0.482 | 0.464 | 3.7 | 100 | -0.02 |
| 22 | T | Diisopropyl ether | 1.244 | 1.147 | 7.8 | 99 | -0.02 |
| 23 | T | Vinyl Acetate | 0.790 | 0.762 | 3.5 | 102 | -0.02 |
| 24 | P | 1,1-Dichloroethane | 0.753 | 0.720 | 4.4 | 98 | -0.02 |
| 25 | T | 2-Butanone | 0.140 | 0.138 | 1.4 | 111 | -0.02 |
| 26 | T | 2,2-Dichloropropane | 0.720 | 0.721 | -0.1 | 103 | -0.02 |
| 27 | T | cis-1,2-Dichloroethene | 0.524 | 0.506 | 3.4 | 100 | -0.02 |
| 28 | T | Bromochloromethane | 0.294 | 0.274 | 6.8 | 98 | -0.02 |
| 29 | T | Tetrahydrofuran | 0.093 | 0.089 | 4.3 | 106 | -0.02 |
| 30 | C | Chloroform | 0.802 | 0.777 | 3.1# | 101 | -0.02 |
| 31 | T | Cyclohexane | 0.753 | 0.656 | 12.9 | 96 | -0.02 |
| 32 | T | 1,1,1-Trichloroethane | 0.758 | 0.755 | 0.4 | 101 | -0.02 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.437 | 0.399 | 8.7 | 101 | -0.02 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 95 | -0.01 |
| 35 | S | Dibromofluoromethane | 0.282 | 0.288 | -2.1 | 101 | -0.02 |
| 36 | T | 1,1-Dichloropropene | 0.429 | 0.443 | -3.3 | 99 | -0.02 |
| 37 | T | Ethyl Acetate | 0.215 | 0.224 | -4.2 | 107 | -0.02 |
| 38 | T | Carbon Tetrachloride | 0.493 | 0.542 | -9.9 | 104 | -0.02 |
| 39 | T | Methylcyclohexane | 0.559 | 0.582 | -4.1 | 97 | -0.01 |
| 40 | TM | Benzene | 1.239 | 1.300 | -4.9 | 101 | -0.02 |
| 41 | T | Methacrylonitrile | 0.133 | 0.120 | 9.8 | 92 | -0.02 |
| 42 | TM | 1,2-Dichloroethane | 0.360 | 0.379 | -5.3 | 102 | -0.02 |
| 43 | T | Isopropyl Acetate | 0.403 | 0.420 | -4.2 | 106 | -0.01 |
| 44 | TM | Trichloroethene | 0.387 | 0.412 | -6.5 | 102 | -0.01 |
| 45 | C | 1,2-Dichloropropane | 0.286 | 0.292 | -2.1# | 99 | -0.01 |

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

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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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.167 | 0.176 | -5.4 | 102 | -0.01 |
| 47 | T | Bromodichloromethane | 0.418 | 0.447 | -6.9 | 102 | -0.01 |
| 48 | T | Methyl methacrylate | 0.184 | 0.193 | -4.9 | 105 | -0.01 |
| 49 | T | 1,4-Dioxane | 0.002 | 0.003 | -50.0# | 111 | -0.01 |
| 50 | S | Toluene-d8 | 1.134 | 1.112 | 1.9 | 100 | -0.01 |
| 51 | T | 4-Methyl-2-Pentanone | 0.209 | 0.218 | -4.3 | 106 | -0.01 |
| 52 | CM | Toluene | 0.798 | 0.838 | -5.0# | 100 | -0.01 |
| 53 | T | t-1,3-Dichloropropene | 0.439 | 0.478 | -8.9 | 104 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.502 | 0.540 | -7.6 | 102 | -0.01 |
| 55 | T | 1,1,2-Trichloroethane | 0.247 | 0.259 | -4.9 | 105 | -0.01 |
| 56 | T | Ethyl methacrylate | 0.338 | 0.353 | -4.4 | 103 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.417 | 0.435 | -4.3 | 104 | -0.01 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.163 | 0.164 | -0.6 | 102 | -0.01 |
| 59 | T | 2-Hexanone | 0.146 | 0.152 | -4.1 | 107 | 0.00 |
| 60 | T | Dibromochloromethane | 0.324 | 0.345 | -6.5 | 103 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.245 | 0.250 | -2.0 | 101 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.380 | 0.315 | 17.1 | 86 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 64 | T | Tetrachloroethene | 0.458 | 0.468 | -2.2 | 104 | -0.01 |
| 65 | PM | Chlorobenzene | 0.964 | 0.961 | 0.3 | 101 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.362 | 0.373 | -3.0 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 1.718 | 1.705 | 0.8# | 99 | -0.01 |
| 68 | T | m/p-Xylenes | 0.661 | 0.661 | 0.0 | 101 | -0.01 |
| 69 | T | o-Xylene | 0.612 | 0.574 | 6.2 | 94 | 0.00 |
| 70 | T | Styrene | 1.066 | 0.987 | 7.4 | 92 | -0.01 |
| 71 | P | Bromoform | 0.228 | 0.220 | 3.5 | 100 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 73 | T | Isopropylbenzene | 3.343 | 2.820 | 15.6 | 85 | 0.00 |
| 74 | T | N-amyl acetate | 0.792 | 0.643 | 18.8 | 86 | -0.01 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.513 | 0.485 | 5.5 | 104 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.424 | 0.394 | 7.1 | 96 | 0.00 |
| 77 | T | Bromobenzene | 0.838 | 0.828 | 1.2 | 102 | 0.00 |
| 78 | T | n-propylbenzene | 3.881 | 3.811 | 1.8 | 98 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.124 | 2.085 | 1.8 | 100 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.837 | 2.811 | 0.9 | 100 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.229 | 0.208 | 9.2 | 96 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.195 | 2.195 | 0.0 | 101 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.464 | 2.482 | -0.7 | 100 | -0.01 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.722 | 2.774 | -1.9 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.299 | 3.327 | -0.8 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.146 | 3.189 | -1.4 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.551 | 1.564 | -0.8 | 100 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.542 | 1.550 | -0.5 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 2.902 | 2.814 | 3.0 | 96 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 90 | T | Hexachloroethane | 0.569 | 0.562 | 1.2 | 99 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.335 | 1.379 | -3.3 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.102 | 0.097 | 4.9 | 104 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.054 | 1.003 | 4.8 | 97 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.636 | 0.608 | 4.4 | 95 | 0.00 |
| 95 | T | Naphthalene | 1.955 | 1.851 | 5.3 | 99 | 0.00 |
| 96 | T | 1,2,3-Trichlorobenzene | 0.894 | 0.839 | 6.2 | 96 | 0.00 |

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