# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122122\
Data File : VY011961.D
Acq On : 21 Dec 2022 20:51
Operator : KP/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

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

Quant Time: Dec 22 00:15:45 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122022S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 20 12:37:37 2022
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 | 85 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.377 | 0.340 | 9.8 | 65 | 0.00 |
| 3 | P | Chloromethane | 0.445 | 0.385 | 13.5 | 69 | 0.00 |
| 4 | C | Vinyl Chloride | 0.491 | 0.411 | 16.3# | 66 | 0.00 |
| 5 | T | Bromomethane | 0.349 | 0.307 | 12.0 | 73 | 0.00 |
| 6 | T | Chloroethane | 0.321 | 0.276 | 14.0 | 69 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.859 | 0.742 | 13.6 | 70 | 0.00 |
| 8 | T | Diethyl Ether | 0.265 | 0.253 | 4.5 | 78 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.473 | 0.406 | 14.2 | 70 | 0.00 |
| 10 | T | Methyl Iodide | 0.654 | 0.586 | 10.4 | 68 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.065 | 0.048 | 26.2# | 82 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.473 | 0.411 | 13.1# | 70 | 0.00 |
| 13 | T | Acrolein | 0.047 | 0.044 | 6.4 | 87 | 0.00 |
| 14 | T | Allyl chloride | 0.697 | 0.622 | 10.8 | 72 | 0.00 |
| 15 | T | Acrylonitrile | 0.123 | 0.126 | -2.4 | 81 | 0.00 |
| 16 | T | Acetone | 0.137 | 0.112 | 18.2 | 58 | 0.00 |
| 17 | T | Carbon Disulfide | 1.509 | 1.295 | 14.2 | 69 | 0.00 |
| 18 | T | Methyl Acetate | 0.348 | 0.339 | 2.6 | 81 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.214 | 1.219 | -0.4 | 79 | 0.00 |
| 20 | T | Methylene Chloride | 0.701 | 0.560 | 20.1 | 78 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.538 | 0.489 | 9.1 | 73 | 0.00 |
| 22 | T | Diisopropyl ether | 1.372 | 1.338 | 2.5 | 77 | 0.00 |
| 23 | T | Vinyl Acetate | 0.789 | 0.801 | -1.5 | 78 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.892 | 0.814 | 8.7 | 75 | 0.00 |
| 25 | T | 2-Butanone | 0.168 | 0.158 | 6.0 | 71 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.873 | 0.728 | 16.6 | 69 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.581 | 0.544 | 6.4 | 76 | 0.00 |
| 28 | T | Bromochloromethane | 0.245 | 0.258 | -5.3 | 92 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.095 | 0.100 | -5.3 | 81 | 0.00 |
| 30 | C | Chloroform | 0.961 | 0.899 | 6.5# | 77 | 0.00 |
| 31 | T | Cyclohexane | 0.848 | 0.696 | 17.9 | 68 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.914 | 0.814 | 10.9 | 74 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.504 | 0.545 | -8.1 | 91 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.301 | 0.318 | -5.6 | 89 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.483 | 0.418 | 13.5 | 71 | 0.00 |
| 37 | T | Ethyl Acetate | 0.217 | 0.215 | 0.9 | 82 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.558 | 0.485 | 13.1 | 72 | 0.00 |
| 39 | T | Methylcyclohexane | 0.581 | 0.502 | 13.6 | 69 | 0.00 |
| 40 | TM | Benzene | 1.382 | 1.250 | 9.6 | 75 | 0.00 |
| 41 | T | Methacrylonitrile | 0.105 | 0.112 | -6.7 | 82 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.398 | 0.377 | 5.3 | 79 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.396 | 0.396 | 0.0 | 81 | 0.00 |
| 44 | TM | Trichloroethene | 0.389 | 0.347 | 10.8 | 75 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.319 | 0.294 | 7.8# | 77 | 0.00 |
| 46 | T | Dibromomethane | 0.184 | 0.177 | 3.8 | 79 | 0.00 |
| 47 | T | Bromodichloromethane | 0.467 | 0.439 | 6.0 | 77 | 0.00 |
| 48 | T | Methyl methacrylate | 0.183 | 0.186 | -1.6 | 82 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 86 | 0.00 |
| 50 | S | Toluene-d8 | 1.221 | 1.286 | -5.3 | 88 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.211 | 0.222 | -5.2 | 83 | 0.00 |
| 52 | CM | Toluene | 0.880 | 0.814 | 7.5# | 76 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.471 | 0.450 | 4.5 | 78 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.530 | 0.502 | 5.3 | 77 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.261 | 0.250 | 4.2 | 81 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.330 | 0.342 | -3.6 | 81 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.436 | 0.425 | 2.5 | 79 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.127 | 0.139 | -9.4 | 94 | 0.00 |
| 59 | T | 2-Hexanone | 0.155 | 0.157 | -1.3 | 76 | 0.00 |
| 60 | T | Dibromochloromethane | 0.329 | 0.322 | 2.1 | 79 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.244 | 0.240 | 1.6 | 80 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.411 | 0.439 | -6.8 | 90 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 64 | T | Tetrachloroethene | 0.438 | 0.389 | 11.2 | 76 | 0.00 |
| 65 | PM | Chlorobenzene | 1.038 | 0.927 | 10.7 | 77 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.386 | 0.352 | 8.8 | 78 | 0.00 |
| 67 | C | Ethyl Benzene | 1.877 | 1.653 | 11.9# | 74 | 0.00 |
| 68 | T | m/p-Xylenes | 0.730 | 0.654 | 10.4 | 76 | 0.00 |
| 69 | T | o-Xylene | 0.679 | 0.620 | 8.7 | 77 | 0.00 |
| 70 | T | Styrene | 1.140 | 1.055 | 7.5 | 77 | 0.00 |
| 71 | P | Bromoform | 0.229 | 0.222 | 3.1 | 83 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 3.710 | 3.210 | 13.5 | 75 | 0.00 |
| 74 | T | N-amyl acetate | 0.761 | 0.739 | 2.9 | 82 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.619 | 0.583 | 5.8 | 84 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.622 | 0.475 | 23.6 | 67 | 0.00 |
| 77 | T | Bromobenzene | 0.858 | 0.767 | 10.6 | 79 | 0.00 |
| 78 | T | n-propylbenzene | 4.460 | 3.828 | 14.2 | 74 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.507 | 2.195 | 12.4 | 77 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.177 | 2.801 | 11.8 | 76 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.227 | 0.211 | 7.0 | 80 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.594 | 2.277 | 12.2 | 76 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.692 | 2.361 | 12.3 | 75 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.125 | 2.765 | 11.5 | 76 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.020 | 3.469 | 13.7 | 75 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.392 | 2.985 | 12.0 | 75 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.726 | 1.516 | 12.2 | 78 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.716 | 1.496 | 12.8 | 78 | 0.00 |
| 89 | T | n-Butylbenzene | 3.071 | 2.648 | 13.8 | 74 | 0.00 |
| 90 | T | Hexachloroethane | 0.647 | 0.563 | 13.0 | 77 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.505 | 1.352 | 10.2 | 79 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.106 | 0.104 | 1.9 | 84 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.885 | 0.825 | 6.8 | 78 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.572 | 0.503 | 12.1 | 78 | 0.00 |
| 95 | T | Naphthalene | 1.644 | 1.676 | -1.9 | 83 | 0.00 |

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|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.749 | 0.723 | 3.5 | 81 | 0.00 |

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