# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111522\
Data File : VY011463.D
Acq On : 15 Nov 2022 17:09
Operator : KP/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

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

Quant Time: Nov 16 00:22:16 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111022S.M
Quant Title : SW846 8260
QLast Update : Thu Nov 10 17:47:26 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 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.350 | 0.256 | 26.9# | 95 | 0.00 |
| 3 | P | Chloromethane | 0.402 | 0.323 | 19.7 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 0.474 | 0.391 | 17.5# | 95 | 0.00 |
| 5 | T | Bromomethane | 0.343 | 0.276 | 19.5 | 88 | 0.00 |
| 6 | T | Chloroethane | 0.315 | 0.269 | 14.6 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.747 | 0.649 | 13.1 | 97 | 0.01 |
| 8 | T | Diethyl Ether | 0.262 | 0.246 | 6.1 | 96 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.453 | 0.411 | 9.3 | 99 | 0.01 |
| 10 | T | Methyl Iodide | 0.604 | 0.554 | 8.3 | 102 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.063 | 0.046 | 27.0# | 86 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.449 | 0.399 | 11.1# | 97 | 0.00 |
| 13 | T | Acrolein | 0.016 | 0.012 | 25.0 | 103 | 0.00 |
| 14 | T | Allyl chloride | 0.605 | 0.556 | 8.1 | 96 | 0.01 |
| 15 | T | Acrylonitrile | 0.125 | 0.126 | -0.8 | 98 | 0.00 |
| 16 | T | Acetone | 0.111 | 0.108 | 2.7 | 91 | 0.00 |
| 17 | T | Carbon Disulfide | 1.336 | 1.072 | 19.8 | 90 | 0.01 |
| 18 | T | Methyl Acetate | 0.328 | 0.297 | 9.5 | 99 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.173 | 1.155 | 1.5 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 0.743 | 0.592 | 20.3 | 93 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.512 | 0.459 | 10.4 | 96 | 0.01 |
| 22 | T | Diisopropyl ether | 1.292 | 1.240 | 4.0 | 98 | 0.01 |
| 23 | T | Vinyl Acetate | 0.756 | 0.760 | -0.5 | 95 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.841 | 0.787 | 6.4 | 98 | 0.00 |
| 25 | T | 2-Butanone | 0.157 | 0.157 | 0.0 | 94 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 0.787 | 0.715 | 9.1 | 97 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.576 | 0.541 | 6.1 | 98 | 0.01 |
| 28 | T | Bromochloromethane | 0.306 | 0.255 | 16.7 | 83 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.095 | 0.097 | -2.1 | 95 | 0.00 |
| 30 | C | Chloroform | 0.890 | 0.836 | 6.1# | 98 | 0.00 |
| 31 | T | Cyclohexane | 0.753 | 0.634 | 15.8 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.805 | 0.735 | 8.7 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.419 | 0.371 | 11.5 | 99 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.280 | 0.266 | 5.0 | 103 | 0.01 |
| 36 | T | 1,1-Dichloropropene | 0.435 | 0.392 | 9.9 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 0.209 | 0.207 | 1.0 | 96 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.473 | 0.431 | 8.9 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 0.531 | 0.478 | 10.0 | 94 | 0.00 |
| 40 | TM | Benzene | 1.299 | 1.184 | 8.9 | 96 | 0.00 |
| 41 | T | Methacrylonitrile | 0.108 | 0.116 | -7.4 | 97 | 0.02 |
| 42 | TM | 1,2-Dichloroethane | 0.340 | 0.319 | 6.2 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.377 | 0.371 | 1.6 | 94 | 0.00 |
| 44 | TM | Trichloroethene | 0.365 | 0.336 | 7.9 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.309 | 0.293 | 5.2# | 99 | 0.00 |
| 46 | T | Dibromomethane | 0.180 | 0.173 | 3.9 | 97 | 0.00 |
| 47 | T | Bromodichloromethane | 0.431 | 0.414 | 3.9 | 99 | 0.00 |
| 48 | T | Methyl methacrylate | 0.169 | 0.167 | 1.2 | 95 | 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 | 0.003 | -50.0# | 97 | 0.00 |
| 50 | S | Toluene-d8 | 1.070 | 0.949 | 11.3 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.203 | 0.211 | -3.9 | 96 | 0.00 |
| 52 | CM | Toluene | 0.829 | 0.762 | 8.1# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.445 | 0.427 | 4.0 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.513 | 0.486 | 5.3 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.261 | 0.255 | 2.3 | 99 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.335 | 0.343 | -2.4 | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.435 | 0.425 | 2.3 | 98 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.155 | 0.161 | -3.9 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 0.144 | 0.149 | -3.5 | 93 | 0.00 |
| 60 | T | Dibromochloromethane | 0.322 | 0.309 | 4.0 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.251 | 0.243 | 3.2 | 96 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.373 | 0.357 | 4.3 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 0.400 | 0.371 | 7.3 | 99 | 0.00 |
| 65 | PM | Chlorobenzene | 1.001 | 0.928 | 7.3 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.374 | 0.354 | 5.3 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 1.749 | 1.624 | 7.1# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 0.686 | 0.639 | 6.9 | 96 | 0.00 |
| 69 | T | o-Xylene | 0.647 | 0.612 | 5.4 | 96 | 0.00 |
| 70 | T | Styrene | 1.087 | 1.045 | 3.9 | 96 | 0.00 |
| 71 | P | Bromoform | 0.232 | 0.227 | 2.2 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 73 | T | Isopropylbenzene | 3.456 | 3.250 | 6.0 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 0.727 | 0.737 | -1.4 | 93 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.664 | 0.655 | 1.4 | 96 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.579 | 0.545 | 5.9 | 90 | 0.00 |
| 77 | T | Bromobenzene | 0.826 | 0.778 | 5.8 | 96 | 0.00 |
| 78 | T | n-propylbenzene | 4.124 | 3.871 | 6.1 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.358 | 2.187 | 7.3 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.915 | 2.730 | 6.3 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.241 | 0.237 | 1.7 | 96 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.448 | 2.247 | 8.2 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.520 | 2.438 | 3.3 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.861 | 2.697 | 5.7 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.710 | 3.484 | 6.1 | 97 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.110 | 2.932 | 5.7 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.650 | 1.505 | 8.8 | 94 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.631 | 1.492 | 8.5 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 2.794 | 2.653 | 5.0 | 97 | 0.00 |
| 90 | T | Hexachloroethane | 0.608 | 0.557 | 8.4 | 97 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.463 | 1.354 | 7.5 | 95 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.108 | 0.110 | -1.9 | 98 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.863 | 0.832 | 3.6 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.510 | 0.486 | 4.7 | 101 | 0.00 |
| 95 | T | Naphthalene | 1.683 | 1.812 | -7.7 | 96 | 0.00 |

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|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.745 | 0.738 | 0.9 | 96 | 0.00 |

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