# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012323\
Data File : VY012307.D
Acq On : 23 Jan 2023 12:09
Operator : KP/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Jan 23 15:08:58 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y011623S.M
Quant Title : SW846 8260
QLast Update : Tue Jan 17 04:31:47 2023
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 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.437 | 0.387 | 11.4 | 98 | 0.00 |
| 3 | P | Chloromethane | 0.403 | 0.377 | 6.5 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 0.471 | 0.462 | 1.9# | 100 | 0.00 |
| 5 | T | Bromomethane | 0.364 | 0.354 | 2.7 | 100 | 0.00 |
| 6 | T | Chloroethane | 0.307 | 0.305 | 0.7 | 100 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.919 | 0.884 | 3.8 | 99 | 0.00 |
| 8 | T | Diethyl Ether | 0.273 | 0.258 | 5.5 | 93 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.447 | 0.440 | 1.6 | 102 | 0.00 |
| 10 | T | Methyl Iodide | 0.680 | 0.616 | 9.4 | 85 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.057 | 0.041 | 28.1# | 83 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.459 | 0.454 | 1.1# | 97 | 0.00 |
| 13 | T | Acrolein | 0.023 | 0.020 | 13.0 | 117 | 0.00 |
| 14 | T | Allyl chloride | 0.568 | 0.573 | -0.9 | 99 | 0.00 |
| 15 | T | Acrylonitrile | 0.119 | 0.113 | 5.0 | 91 | 0.00 |
| 16 | T | Acetone | 0.139 | 0.146 | -5.0 | 89 | 0.00 |
| 17 | T | Carbon Disulfide | 1.420 | 1.365 | 3.9 | 95 | 0.00 |
| 18 | T | Methyl Acetate | 0.312 | 0.292 | 6.4 | 91 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.280 | 1.242 | 3.0 | 91 | 0.00 |
| 20 | T | Methylene Chloride | 0.762 | 0.518 | 32.0# | 85 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.512 | 0.505 | 1.4 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 1.132 | 1.137 | -0.4 | 97 | 0.00 |
| 23 | T | Vinyl Acetate | 0.705 | 0.676 | 4.1 | 90 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.785 | 0.778 | 0.9 | 96 | 0.00 |
| 25 | T | 2-Butanone | 0.154 | 0.146 | 5.2 | 87 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.852 | 0.830 | 2.6 | 96 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.563 | 0.548 | 2.7 | 94 | 0.00 |
| 28 | T | Bromochloromethane | 0.171 | 0.159 | 7.0 | 94 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.084 | 0.078 | 7.1 | 86 | 0.00 |
| 30 | C | Chloroform | 0.927 | 0.919 | 0.9# | 96 | 0.00 |
| 31 | T | Cyclohexane | 0.729 | 0.682 | 6.4 | 101 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.918 | 0.900 | 2.0 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.465 | 0.425 | 8.6 | 98 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.265 | 0.258 | 2.6 | 99 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.450 | 0.449 | 0.2 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 0.198 | 0.182 | 8.1 | 86 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.581 | 0.569 | 2.1 | 95 | 0.00 |
| 39 | T | Methylcyclohexane | 0.550 | 0.560 | -1.8 | 100 | 0.00 |
| 40 | TM | Benzene | 1.299 | 1.299 | 0.0 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 0.117 | 0.096 | 17.9 | 74 | -0.02 |
| 42 | TM | 1,2-Dichloroethane | 0.413 | 0.406 | 1.7 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.369 | 0.348 | 5.7 | 87 | 0.00 |
| 44 | TM | Trichloroethene | 0.388 | 0.383 | 1.3 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.271 | 0.274 | -1.1# | 97 | 0.00 |
| 46 | T | Dibromomethane | 0.181 | 0.175 | 3.3 | 90 | 0.00 |
| 47 | T | Bromodichloromethane | 0.457 | 0.456 | 0.2 | 94 | 0.00 |
| 48 | T | Methyl methacrylate | 0.170 | 0.161 | 5.3 | 85 | 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 | 84 | 0.00 |
| 50 | S | Toluene-d8 | 1.044 | 0.958 | 8.2 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.197 | 0.186 | 5.6 | 86 | 0.00 |
| 52 | CM | Toluene | 0.865 | 0.875 | -1.2# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.478 | 0.466 | 2.5 | 90 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.514 | 0.511 | 0.6 | 93 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.258 | 0.247 | 4.3 | 89 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.338 | 0.334 | 1.2 | 89 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.421 | 0.416 | 1.2 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.112 | 0.105 | 6.3 | 89 | 0.00 |
| 59 | T | 2-Hexanone | 0.150 | 0.147 | 2.0 | 86 | 0.00 |
| 60 | T | Dibromochloromethane | 0.342 | 0.329 | 3.8 | 88 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.249 | 0.239 | 4.0 | 89 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.373 | 0.357 | 4.3 | 99 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 0.456 | 0.461 | -1.1 | 94 | 0.00 |
| 65 | PM | Chlorobenzene | 1.023 | 1.005 | 1.8 | 93 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.386 | 0.383 | 0.8 | 91 | 0.00 |
| 67 | C | Ethyl Benzene | 1.828 | 1.852 | -1.3# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.723 | 0.728 | -0.7 | 94 | 0.00 |
| 69 | T | o-Xylene | 0.690 | 0.693 | -0.4 | 94 | 0.00 |
| 70 | T | Styrene | 1.154 | 1.171 | -1.5 | 94 | 0.00 |
| 71 | P | Bromoform | 0.247 | 0.234 | 5.3 | 86 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 73 | T | Isopropylbenzene | 3.605 | 3.679 | -2.1 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 0.707 | 0.658 | 6.9 | 84 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.568 | 0.540 | 4.9 | 87 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.460 | 0.423 | 8.0 | 76 | 0.00 |
| 77 | T | Bromobenzene | 0.868 | 0.842 | 3.0 | 90 | 0.00 |
| 78 | T | n-propylbenzene | 4.219 | 4.299 | -1.9 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.385 | 2.390 | -0.2 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.134 | 3.199 | -2.1 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.223 | 0.215 | 3.6 | 87 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.506 | 2.507 | -0.0 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.732 | 2.754 | -0.8 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.091 | 3.115 | -0.8 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.889 | 3.978 | -2.3 | 97 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.398 | 3.467 | -2.0 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.725 | 1.693 | 1.9 | 92 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.721 | 1.678 | 2.5 | 93 | 0.00 |
| 89 | T | n-Butylbenzene | 2.945 | 3.010 | -2.2 | 98 | 0.00 |
| 90 | T | Hexachloroethane | 0.613 | 0.604 | 1.5 | 94 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.540 | 1.496 | 2.9 | 91 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.117 | 0.110 | 6.0 | 86 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.987 | 0.948 | 4.0 | 92 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.594 | 0.579 | 2.5 | 96 | 0.00 |
| 95 | T | Naphthalene | 1.947 | 1.851 | 4.9 | 87 | 0.00 |

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|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.849 | 0.816 | 3.9 | 93 | 0.00 |

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