# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120622\
Data File : VY011720.D
Acq On : 06 Dec 2022 16:23
Operator : KP/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Dec 06 23:46:21 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111822S.M
Quant Title : SW846 8260
QLast Update : Sat Nov 19 22:37:14 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 52.128 | -4.3 | 101 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.291 | 13.4 | 82 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 38.876 | 22.2# | 80 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 40.871 | 18.3 | 79 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 38.609 | 22.8 | 80 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 49.042 | 1.9 | 103 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 51.014 | -2.0 | 104 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.599 | -3.2 | 104 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.263 | -2.5 | 93 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 246.538 | 1.4 | 104 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 50.493 | -1.0# | 101 | 0.00 |
| 13 | T | Acrolein | 250.000 | 173.750 | 30.5# | 107 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 49.586 | 0.8 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 254.748 | -1.9 | 103 | 0.00 |
| 16 | T | Acetone | 250.000 | 266.799 | -6.7 | 107 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 44.827 | 10.3 | 89 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 47.752 | 4.5 | 100 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 53.886 | -7.8 | 104 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.303 | -0.6 | 93 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.237 | -0.5 | 98 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.633 | -1.3 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 258.652 | -3.5 | 94 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.233 | -0.5 | 100 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 244.303 | 2.3 | 98 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.210 | -2.4 | 101 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.702 | -3.4 | 100 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 46.906 | 6.2 | 91 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 237.857 | 4.9 | 94 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.986 | -4.0# | 103 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.704 | 6.6 | 93 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 52.595 | -5.2 | 105 | -0.01 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 47.548 | 4.9 | 104 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.902 | -3.8 | 109 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.387 | -0.8 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 48.250 | 3.5 | 96 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.728 | -5.5 | 104 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.191 | -2.4 | 95 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.396 | -0.8 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 53.235 | -6.5 | 110 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.798 | 0.4 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 48.234 | 3.5 | 94 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.851 | -1.7 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.687 | -1.4# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.183 | 1.6 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.342 | -4.7 | 102 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 49.875 | 0.3 | 95 | 0.00 |

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

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1025.850 | -2.6 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.099 | 3.8 | 101 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 244.718 | 2.1 | 94 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.433 | -2.9# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.645 | -3.3 | 100 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.017 | -4.0 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.576 | -3.2 | 102 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.655 | -7.3 | 101 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.553 | -1.1 | 98 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 264.568 | -5.8 | 98 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 253.965 | -1.6 | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.379 | -4.8 | 103 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.409 | -0.8 | 99 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.001 | -2.0 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 52.871 | -5.7 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 52.555 | -5.1 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 54.256 | -8.5 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.877 | -5.8# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 106.345 | -6.3 | 96 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 54.869 | -9.7 | 98 | 0.00 |
| 70 | T | Styrene | 50.000 | 54.832 | -9.7 | 97 | 0.00 |
| 71 | P | Bromoform | 50.000 | 53.118 | -6.2 | 100 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.901 | -7.8 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.556 | 0.9 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.317 | 1.4 | 97 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 51.293 | -2.6 | 91 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.718 | -3.4 | 98 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.250 | -6.5 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.621 | -5.2 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 53.866 | -7.7 | 97 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 51.102 | -2.2 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.654 | -3.3 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 54.040 | -8.1 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 53.629 | -7.3 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.134 | -8.3 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 53.922 | -7.8 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.477 | -3.0 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.476 | -1.0 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.084 | -8.2 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 51.644 | -3.3 | 100 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 51.602 | -3.2 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.235 | -0.5 | 98 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 56.202 | -12.4 | 106 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 58.021 | -16.0 | 113 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 52.018 | -4.0 | 109 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 56.425 | -12.8 | 108 | 0.00 |

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