Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101921\
Data File : VY006416.D
Acq On : 19 Oct 2021 09:34
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: Oct 20 03:14:00 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y092821S.M
Quant Title : SW846 8260
QLast Update : Tue Sep 28 17:44:36 2021
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 | 70 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.459 | 9.1 | 65 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 51.644 | -3.3 | 71 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 54.542 | -9.1# | 77 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 50.979 | -2.0 | 77 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 51.457 | -2.9 | 71 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.526 | -3.1 | 73 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 49.433 | 1.1 | 68 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 50.144 | -0.3 | 71 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 47.018 | 6.0 | 62 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 232.853 | 6.9 | 64 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 48.681 | 2.6# | 69 | 0.00 |
| 13 | T | Acrolein | 250.000 | 214.594 | 14.2 | 56 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 48.749 | 2.5 | 67 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 245.157 | 1.9 | 67 | 0.00 |
| 16 | T | Acetone | 250.000 | 280.590 | -12.2 | 67 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 44.099 | 11.8 | 62 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 47.889 | 4.2 | 65 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.732 | -1.5 | 68 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 55.435 | -10.9 | 75 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.455 | -0.9 | 71 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.210 | -4.4 | 72 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 250.352 | -0.1 | 68 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 51.243 | -2.5 | 72 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 252.778 | -1.1 | 64 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 55.446 | -10.9 | 78 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.474 | -4.9 | 73 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 51.051 | -2.1 | 73 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 233.495 | 6.6 | 62 | 0.00 |
| 30 | C | Chloroform | 50.000 | 53.746 | -7.5# | 75 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.528 | 8.9 | 67 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 55.292 | -10.6 | 77 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.734 | 0.5 | 72 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 68 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.884 | -3.8 | 73 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 51.714 | -3.4 | 72 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 48.644 | 2.7 | 65 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 55.819 | -11.6 | 76 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.178 | -0.4 | 68 | 0.00 |
| 40 | TM | Benzene | 50.000 | 53.204 | -6.4 | 72 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 48.020 | 4.0 | 65 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 54.494 | -9.0 | 73 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.234 | -0.5 | 66 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 55.081 | -10.2 | 75 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.834 | -5.7# | 72 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 53.095 | -6.2 | 70 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 55.472 | -10.9 | 74 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 48.113 | 3.8 | 62 | 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 | 1002.251 | -0.2 | 66 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.035 | -0.1 | 70 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 253.014 | -1.2 | 65 | 0.00 |
| 52 | CM | Toluene | 50.000 | 54.752 | -9.5# | 74 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.783 | -7.6 | 72 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.775 | -7.5 | 72 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 53.321 | -6.6 | 70 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 51.322 | -2.6 | 66 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.084 | -4.2 | 69 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 249.168 | 0.3 | 66 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 264.612 | -5.8 | 66 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 55.714 | -11.4 | 74 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.616 | -3.2 | 67 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.461 | -2.9 | 72 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 70 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 60.438 | -20.9 | 86 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 53.942 | -7.9 | 75 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 56.442 | -12.9 | 78 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 54.368 | -8.7# | 75 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 109.758 | -9.8 | 76 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 55.675 | -11.3 | 77 | 0.00 |
| 70 | T | Styrene | 50.000 | 56.141 | -12.3 | 76 | 0.00 |
| 71 | P | Bromoform | 50.000 | 53.529 | -7.1 | 72 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 72 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.734 | -7.5 | 77 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 47.944 | 4.1 | 66 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 45.029 | 9.9 | 64 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.127 | 3.7 | 71 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 53.526 | -7.1 | 77 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.119 | -6.2 | 77 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 53.169 | -6.3 | 77 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 53.480 | -7.0 | 77 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 48.734 | 2.5 | 68 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 53.195 | -6.4 | 77 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 54.776 | -9.6 | 79 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.291 | -8.6 | 78 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 53.945 | -7.9 | 77 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 54.870 | -9.7 | 79 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 54.825 | -9.7 | 80 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 54.133 | -8.3 | 79 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 53.917 | -7.8 | 78 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 53.585 | -7.2 | 77 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 53.881 | -7.8 | 78 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.794 | 4.4 | 69 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.983 | -6.0 | 76 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 54.175 | -8.3 | 79 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 48.104 | 3.8 | 68 | 0.00 |

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|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 51.799 | -3.6 | 75 | 0.00 |

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