# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD053122\
Data File : VD073423.D
Acq On : 31 May 2022 14:13
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**LabSampleId :**
VSTDCCC050

Quant Time: May 31 17:41:41 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051922S.M
Quant Title : SW846 8260
QLast Update : Thu May 19 15:13:42 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 | 106 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 53.088 | -6.2 | 128 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 44.516 | 11.0 | 108 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.575 | 8.8# | 104 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 46.690 | 6.6 | 98 | -0.02 |
| 6 | T | Chloroethane | 50.000 | 46.241 | 7.5 | 104 | -0.01 |
| 7 | T | Trichlorofluoromethane | 50.000 | 48.172 | 3.7 | 109 | -0.01 |
| 8 | T | Diethyl Ether | 50.000 | 50.518 | -1.0 | 109 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 49.357 | 1.3 | 113 | -0.01 |
| 10 | T | Methyl Iodide | 50.000 | 46.364 | 7.3 | 99 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 105.629 | 57.7# | 86 | 0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.196 | 1.6# | 108 | 0.00 |
| 13 | T | Acrolein | 250.000 | 190.381 | 23.8 | 85 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 48.495 | 3.0 | 106 | -0.01 |
| 15 | T | Acrylonitrile | 250.000 | 253.984 | -1.6 | 110 | 0.00 |
| 16 | T | Acetone | 250.000 | 244.985 | 2.0 | 120 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 48.241 | 3.5 | 109 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 48.148 | 3.7 | 110 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.952 | 0.1 | 107 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 52.063 | -4.1 | 113 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.278 | 3.4 | 106 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 48.592 | 2.8 | 102 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 249.816 | 0.1 | 105 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 45.871 | 8.3 | 103 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 250.578 | -0.2 | 113 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 45.344 | 9.3 | 102 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 47.415 | 5.2 | 103 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 41.677 | 16.6 | 90 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 259.912 | -4.0 | 113 | 0.00 |
| 30 | C | Chloroform | 50.000 | 44.892 | 10.2# | 100 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.151 | 5.7 | 107 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 46.359 | 7.3 | 103 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 46.522 | 7.0 | 103 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.764 | -3.5 | 104 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.718 | -1.4 | 105 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 53.607 | -7.2 | 113 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.926 | -1.9 | 103 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 55.540 | -11.1 | 110 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.428 | -0.9 | 105 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 53.797 | -7.6 | 127 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.610 | 0.8 | 103 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 54.293 | -8.6 | 111 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.599 | -3.2 | 106 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.607 | 0.8# | 102 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.321 | 1.4 | 103 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.439 | 3.1 | 101 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.209 | -10.4 | 112 | 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 | 1132.095 | -13.2 | 118 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.431 | -4.9 | 104 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 279.541 | -11.8 | 113 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.760 | -3.5# | 103 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.004 | -2.0 | 106 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.721 | -1.4 | 104 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.005 | -2.0 | 106 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 56.765 | -13.5 | 108 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.993 | -2.0 | 103 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 272.312 | -8.9 | 119 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 290.791 | -16.3 | 115 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.825 | -1.7 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.869 | -3.7 | 108 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 56.323 | -12.6 | 114 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 51.665 | -3.3 | 110 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.129 | -0.3 | 106 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.914 | 0.2 | 104 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.607 | -3.2# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 105.188 | -5.2 | 105 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.666 | -5.3 | 106 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.308 | -6.6 | 106 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.718 | -5.4 | 112 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.677 | -3.4 | 106 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 53.423 | -6.8 | 112 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 50.513 | -1.0 | 111 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 46.175 | 7.7 | 100 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.516 | -1.0 | 109 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.848 | -1.7 | 105 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.517 | -1.0 | 107 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.867 | -3.7 | 107 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 53.720 | -7.4 | 113 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.959 | 0.1 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.239 | -2.5 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.649 | -3.3 | 108 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.345 | -2.7 | 107 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 52.286 | -4.6 | 108 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.212 | -0.4 | 108 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.438 | 3.1 | 107 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.702 | -5.4 | 108 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.176 | 1.6 | 107 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.498 | 1.0 | 107 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.727 | -3.5 | 115 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 54.559 | -9.1 | 113 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 52.444 | -4.9 | 117 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 51.542 | -3.1 | 119 | 0.00 |

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|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.812 | -5.6 | 110 | 0.00 |

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