# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120722\
Data File : VN075635.D
Acq On : 08 Dec 2022 02:45
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 39 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 08 06:45:18 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112122W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 23 00:18:03 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 | 89 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.034 | 9.9 | 81 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 55.981 | -12.0 | 108 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.192 | -2.4# | 94 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 62.127 | -24.3 | 105 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 56.112 | -12.2 | 107 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 43.797 | 12.4 | 80 | -0.01 |
| 8 | T | Diethyl Ether | 50.000 | 72.385 | -44.8# | 124 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 45.542 | 8.9 | 82 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 63.911 | -27.8# | 114 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 323.593 | -29.4# | 126 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 50.658 | -1.3# | 91 | 0.00 |
| 13 | T | Acrolein | 250.000 | 343.760 | -37.5# | 128 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 59.247 | -18.5 | 114 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 319.646 | -27.9# | 116 | 0.00 |
| 16 | T | Acetone | 250.000 | 259.793 | -3.9 | 100 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 48.936 | 2.1 | 88 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 70.861 | -41.7# | 123 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 68.296 | -36.6# | 125 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 68.717 | -37.4# | 119 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 54.395 | -8.8 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 66.632 | -33.3# | 118 | 0.01 |
| 23 | T | Vinyl Acetate | 250.000 | 345.270 | -38.1# | 119 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 60.978 | -22.0 | 108 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 297.210 | -18.9 | 111 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 38.249 | 23.5 | 69 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 63.486 | -27.0# | 110 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 68.104 | -36.2# | 124 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 322.375 | -28.9# | 115 | 0.00 |
| 30 | C | Chloroform | 50.000 | 60.924 | -21.8# | 113 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 38.920 | 22.2 | 74 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 52.176 | -4.4 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 63.839 | -27.7# | 115 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 62.250 | -24.5 | 114 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 45.461 | 9.1 | 86 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 61.129 | -22.3 | 112 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.094 | 3.8 | 89 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 41.872 | 16.3 | 78 | 0.00 |
| 40 | TM | Benzene | 50.000 | 54.267 | -8.5 | 104 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 62.375 | -24.8 | 121 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 61.315 | -22.6 | 119 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 80.139 | -60.3# | 149 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.041 | -0.1 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 58.912 | -17.8# | 113 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 62.024 | -24.0 | 119 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 61.641 | -23.3 | 116 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 63.364 | -26.7# | 119 | 0.00 |

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ALS Vial : 39 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 08 06:45:18 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112122W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 23 00:18:03 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) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1218.302 | -21.8 | 111 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 51.321 | -2.6 | 93 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 317.465 | -27.0# | 120 | 0.00 |
| 52 | CM | Toluene | 50.000 | 53.153 | -6.3# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 62.179 | -24.4 | 109 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 59.155 | -18.3 | 107 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 61.987 | -24.0 | 121 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 68.100 | -36.2# | 120 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 60.870 | -21.7 | 117 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 296.069 | -18.4 | 102 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 316.522 | -26.6# | 117 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 68.036 | -36.1# | 117 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 62.697 | -25.4# | 117 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 54.650 | -9.3 | 97 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 41.328 | 17.3 | 82 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 53.594 | -7.2 | 101 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 58.916 | -17.8 | 109 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.586 | -1.2# | 91 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.996 | -2.0 | 93 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.818 | -5.6 | 99 | 0.00 |
| 70 | T | Styrene | 50.000 | 56.522 | -13.0 | 100 | 0.00 |
| 71 | P | Bromoform | 50.000 | 68.807 | -37.6# | 118 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 47.250 | 5.5 | 89 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 68.147 | -36.3# | 122 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 61.170 | -22.3 | 119 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 55.543 | -11.1 | 109 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 55.303 | -10.6 | 106 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 47.054 | 5.9 | 86 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.786 | 0.4 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.284 | -0.6 | 91 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 56.897 | -13.8 | 100 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.786 | 0.4 | 94 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 46.702 | 6.6 | 87 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.029 | -2.1 | 92 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 47.162 | 5.7 | 84 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 49.242 | 1.5 | 86 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.026 | -2.1 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.250 | -0.5 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 45.555 | 8.9 | 81 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.065 | 1.9 | 85 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 54.794 | -9.6 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 62.692 | -25.4# | 110 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 53.351 | -6.7 | 90 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.879 | 2.2 | 85 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 58.191 | -16.4 | 99 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 54.268 | -8.5 | 95 | 0.00 |

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