# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071219\
Data File : VD063073.D
Acq On : 12 Jul 2019 16:38
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Jul 12 17:04:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% 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 | 39.340 | 21.3# | 71 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.015 | 14.0 | 80 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 46.664 | 6.7# | 82 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 40.408 | 19.2 | 63 | -0.01 |
| 6 | T | Chloroethane | 50.000 | 50.029 | -0.1 | 83 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 48.769 | 2.5 | 85 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.681 | -5.4 | 83 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.911 | 2.2 | 88 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 52.397 | -4.8 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 306.794 | -22.7# | 116 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 48.216 | 3.6# | 86 | 0.00 |
| 13 | T | Acrolein | 250.000 | 230.581 | 7.8 | 87 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 56.357 | -12.7 | 96 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 314.931 | -26.0# | 110 | 0.00 |
| 16 | T | Acetone | 250.000 | 317.237 | -26.9# | 112 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 43.026 | 13.9 | 75 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 61.127 | -22.3# | 112 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 59.511 | -19.0 | 99 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 56.606 | -13.2 | 102 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 53.151 | -6.3 | 93 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 62.582 | -25.2# | 110 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 298.497 | -19.4 | 103 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 58.619 | -17.2 | 101 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 324.339 | -29.7# | 113 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 55.043 | -10.1 | 94 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 55.819 | -11.6 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 55.246 | -10.5 | 99 | 0.00 |
| 29 | | Tetrahydrofuran | 250.000 | 308.946 | -23.6# | 110 | 0.00 |
| 30 | C | Chloroform | 50.000 | 57.745 | -15.5# | 100 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 51.380 | -2.8 | 90 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 52.830 | -5.7 | 90 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.896 | 0.2 | 94 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.427 | -0.9 | 102 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.794 | 2.4 | 87 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 52.135 | -4.3 | 96 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 54.055 | -8.1 | 98 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.582 | 0.8 | 89 | 0.00 |
| 40 | TM | Benzene | 50.000 | 56.144 | -12.3 | 100 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 56.721 | -13.4 | 104 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 54.970 | -9.9 | 97 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 62.003 | -24.0# | 108 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 54.783 | -9.6 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 57.518 | -15.0# | 106 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 55.271 | -10.5 | 102 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 54.829 | -9.7 | 94 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 57.175 | -14.3 | 108 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1376.142 | -37.6# | 126 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.468 | -0.9 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 292.869 | -17.1 | 109 | 0.00 |
| 52 | CM | Toluene | 50.000 | 56.220 | -12.4# | 100 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 58.791 | -17.6 | 106 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 58.744 | -17.5 | 105 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 54.178 | -8.4 | 103 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 61.799 | -23.6# | 110 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 56.425 | -12.8 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 239.687 | 4.1 | 89 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 311.133 | -24.5# | 111 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 57.834 | -15.7 | 105 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 56.090 | -12.2 | 102 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 52.076 | -4.2 | 101 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 86 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.387 | -0.8 | 90 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 60.138 | -20.3# | 102 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 56.662 | -13.3 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 55.230 | -10.5# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 109.358 | -9.4 | 93 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 58.572 | -17.1 | 96 | 0.00 |
| 70 | T | Styrene | 50.000 | 56.537 | -13.1 | 96 | 0.00 |
| 71 | P | Bromoform | 50.000 | 58.603 | -17.2 | 100 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 89 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.763 | -3.5 | 93 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 60.234 | -20.5# | 102 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 60.571 | -21.1# | 114 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 60.020 | -20.0# | 107 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 55.423 | -10.8 | 96 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 57.262 | -14.5 | 107 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.902 | -5.8 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 53.827 | -7.7 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 60.478 | -21.0# | 109 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.509 | -5.0 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 56.487 | -13.0 | 101 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.723 | -9.4 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.453 | -8.9 | 101 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 55.303 | -10.6 | 95 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 54.943 | -9.9 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 55.603 | -11.2 | 99 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.966 | -9.9 | 102 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 53.083 | -6.2 | 91 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 57.751 | -15.5 | 104 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 58.707 | -17.4 | 102 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 56.566 | -13.1 | 105 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 54.856 | -9.7 | 99 | 0.00 |
| 95 T | Naphthalene | 50.000 | 61.403 | -22.8# | 107 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 61.537 | -23.1# | 112 | 0.00 |

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