# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD042220\
Data File : VD065669.D
Acq On : 22 Apr 2020 18:19
Operator : VA/SY
Sample : VSTDICV050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** ICVVD042220

Quant Time: Apr 23 04:18:39 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042220S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 23 04:14:32 2020
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 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 56.811 | -13.6 | 116 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 53.741 | -7.5 | 117 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.566 | -3.1# | 115 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 53.861 | -7.7 | 129 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 52.182 | -4.4 | 119 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.712 | -1.4 | 115 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 63.513 | -27.0# | 124 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 62.512 | -25.0# | 122 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 70.359 | -40.7# | 154 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 288.743 | -15.5 | 118 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 63.870 | -27.7# | 125 | 0.00 |
| 13 | T | Acrolein | 250.000 | 323.304 | -29.3# | 120 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 77.555 | -55.1# | 149 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 297.865 | -19.1 | 126 | 0.00 |
| 16 | T | Acetone | 250.000 | 285.782 | -14.3 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 80.740 | -61.5# | 171 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 78.568 | -57.1# | 146 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 61.883 | -23.8# | 128 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.463 | -0.9 | 126 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 59.114 | -18.2 | 125 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 61.513 | -23.0# | 127 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 318.768 | -27.5# | 128 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 57.075 | -14.2 | 126 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 280.492 | -12.2 | 123 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.398 | -2.8 | 120 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 57.928 | -15.9 | 135 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.863 | 0.3 | 95 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 299.776 | -19.9 | 126 | 0.00 |
| 30 | C | Chloroform | 50.000 | 54.684 | -9.4# | 129 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 52.154 | -4.3 | 121 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 53.274 | -6.5 | 124 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 47.363 | 5.3 | 93 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 106 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 46.070 | 7.9 | 96 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 53.208 | -6.4 | 122 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 53.075 | -6.2 | 122 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 51.124 | -2.2 | 123 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 55.410 | -10.8 | 125 | 0.00 |
| 40 | TM | Benzene | 50.000 | 54.485 | -9.0 | 126 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 59.005 | -18.0 | 127 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 54.465 | -8.9 | 127 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 55.908 | -11.8 | 126 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 53.301 | -6.6 | 127 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 54.631 | -9.3# | 126 | 0.00 |

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Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** ICVVD042220

Quant Time: Apr 23 04:18:39 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042220S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 23 04:14:32 2020
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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 53.949 | -7.9 | 124 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 53.303 | -6.6 | 126 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 58.172 | -16.3 | 128 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1170.670 | -17.1 | 128 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 46.277 | 7.4 | 92 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 287.760 | -15.1 | 125 | 0.00 |
| 52 | CM | Toluene | 50.000 | 54.972 | -9.9# | 124 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 55.762 | -11.5 | 131 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.316 | -6.6 | 121 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 53.727 | -7.5 | 130 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 52.990 | -6.0 | 146 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 55.169 | -10.3 | 132 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 239.156 | 4.3 | 95 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 289.527 | -15.8 | 124 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 53.569 | -7.1 | 123 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 54.151 | -8.3 | 125 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 45.812 | 8.4 | 92 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 85 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 62.295 | -24.6# | 130 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 59.077 | -18.2 | 118 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 62.941 | -25.9# | 126 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 65.259 | -30.5# | 125 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 131.708 | -31.7# | 125 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 68.955 | -37.9# | 131 | 0.00 |
| 70 | T | Styrene | 50.000 | 68.821 | -37.6# | 128 | 0.00 |
| 71 | P | Bromoform | 50.000 | 61.996 | -24.0# | 123 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 55.131 | -10.3 | 121 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 57.913 | -15.8 | 124 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 50.525 | -1.0 | 116 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 49.273 | 1.5 | 112 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 53.682 | -7.4 | 123 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 55.640 | -11.3 | 122 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 56.759 | -13.5 | 126 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 58.942 | -17.9 | 126 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 52.019 | -4.0 | 113 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 56.307 | -12.6 | 124 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 58.826 | -17.7 | 128 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 58.829 | -17.7 | 127 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 57.029 | -14.1 | 124 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 58.644 | -17.3 | 124 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 55.601 | -11.2 | 125 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 54.105 | -8.2 | 125 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 57.640 | -15.3 | 123 | 0.00 |

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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) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 48.085 | 3.8 | 111 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 55.569 | -11.1 | 126 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.906 | 2.2 | 111 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 54.247 | -8.5 | 121 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 53.275 | -6.5 | 122 | 0.00 |
| 95 T | Naphthalene | 50.000 | 53.194 | -6.4 | 129 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 57.790 | -15.6 | 127 | 0.00 |

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