# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX101320\
Data File : VX018925.D
Acq On : 13 Oct 2020 12:02
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC050

Quant Time: Oct 14 02:08:19 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 10 06:09:09 2020
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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 126 | -0.01 |
| 2 | T | Dichlorodifluoromethane | 0.519 | 0.575 | -10.8 | 122 | 0.00 |
| 3 | P | Chloromethane | 0.469 | 0.517 | -10.2 | 142 | 0.00 |
| 4 | C | Vinyl Chloride | 0.524 | 0.568 | -8.4# | 139 | 0.00 |
| 5 | T | Bromomethane | 0.292 | 0.325 | -11.3 | 148 | 0.00 |
| 6 | T | Chloroethane | 0.351 | 0.344 | 2.0 | 132 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.033 | 0.935 | 9.5 | 117 | 0.00 |
| 8 | T | Diethyl Ether | 0.307 | 0.282 | 8.1 | 125 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.496 | 0.473 | 4.6 | 125 | 0.00 |
| 10 | T | Methyl Iodide | 0.476 | 0.409 | 14.1 | 103 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.116 | 0.113 | 2.6 | 124 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.498 | 0.457 | 8.2# | 127 | 0.00 |
| 13 | T | Acrolein | 0.097 | 0.090 | 7.2 | 125 | 0.00 |
| 14 | T | Allyl chloride | 0.837 | 0.860 | -2.7 | 134 | 0.00 |
| 15 | T | Acrylonitrile | 0.246 | 0.261 | -6.1 | 136 | 0.00 |
| 16 | T | Acetone | 0.322 | 0.274 | 14.9 | 121 | 0.00 |
| 17 | T | Carbon Disulfide | 1.354 | 1.313 | 3.0 | 126 | 0.00 |
| 18 | T | Methyl Acetate | 0.613 | 0.657 | -7.2 | 145 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.548 | 1.505 | 2.8 | 122 | 0.00 |
| 20 | T | Methylene Chloride | 0.571 | 0.540 | 5.4 | 132 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.536 | 0.520 | 3.0 | 128 | 0.00 |
| 22 | T | Diisopropyl ether | 1.498 | 1.562 | -4.3 | 135 | 0.00 |
| 23 | T | Vinyl Acetate | 1.441 | 1.511 | -4.9 | 128 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.007 | 0.950 | 5.7 | 128 | 0.00 |
| 25 | T | 2-Butanone | 0.399 | 0.384 | 3.8 | 122 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.972 | 0.876 | 9.9 | 120 | -0.01 |
| 27 | T | cis-1,2-Dichloroethene | 0.595 | 0.552 | 7.2 | 122 | 0.00 |
| 28 | T | Bromochloromethane | 0.479 | 0.415 | 13.4 | 126 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.214 | 0.221 | -3.3 | 131 | 0.00 |
| 30 | C | Chloroform | 1.110 | 1.018 | 8.3# | 123 | 0.00 |
| 31 | T | Cyclohexane | 0.689 | 0.693 | -0.6 | 128 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.055 | 0.942 | 10.7 | 119 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.737 | 0.663 | 10.0 | 121 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 114 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.356 | 0.369 | -3.7 | 123 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.526 | 0.540 | -2.7 | 124 | 0.00 |
| 37 | T | Ethyl Acetate | 0.508 | 0.565 | -11.2 | 125 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.652 | 0.659 | -1.1 | 117 | 0.00 |
| 39 | T | Methylcyclohexane | 0.485 | 0.503 | -3.7 | 120 | 0.00 |
| 40 | TM | Benzene | 1.412 | 1.498 | -6.1 | 125 | 0.00 |
| 41 | T | Methacrylonitrile | 0.295 | 0.300 | -1.7 | 122 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.662 | 0.642 | 3.0 | 119 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.844 | 0.879 | -4.1 | 121 | 0.00 |
| 44 | TM | Trichloroethene | 0.424 | 0.422 | 0.5 | 120 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.374 | 0.404 | -8.0# | 130 | 0.00 |

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**LabSampleId :** VSTDCCC050

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.276 | 0.269 | 2.5 | 116 | 0.00 |
| 47 | T | Bromodichloromethane | 0.598 | 0.620 | -3.7 | 122 | 0.00 |
| 48 | T | Methyl methacrylate | 0.428 | 0.460 | -7.5 | 122 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.006 | 0.007 | -16.7 | 143 | 0.00 |
| 50 | S | Toluene-d8 | 1.236 | 1.340 | -8.4 | 127 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.492 | 0.533 | -8.3 | 117 | 0.00 |
| 52 | CM | Toluene | 0.906 | 0.994 | -9.7# | 126 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.620 | 0.661 | -6.6 | 121 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.637 | 0.695 | -9.1 | 127 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.389 | 0.412 | -5.9 | 126 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.512 | 0.588 | -14.8 | 124 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.632 | 0.656 | -3.8 | 120 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.282 | 0.332 | -17.7 | 130 | 0.00 |
| 59 | T | 2-Hexanone | 0.375 | 0.404 | -7.7 | 115 | 0.00 |
| 60 | T | Dibromochloromethane | 0.489 | 0.498 | -1.8 | 121 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.417 | 0.431 | -3.4 | 120 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.493 | 0.511 | -3.7 | 119 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 122 | 0.00 |
| 64 | T | Tetrachloroethene | 0.401 | 0.385 | 4.0 | 126 | 0.00 |
| 65 | PM | Chlorobenzene | 1.081 | 1.097 | -1.5 | 126 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.446 | 0.435 | 2.5 | 124 | 0.00 |
| 67 | C | Ethyl Benzene | 1.823 | 1.864 | -2.2# | 120 | 0.00 |
| 68 | T | m/p-Xylenes | 0.693 | 0.716 | -3.3 | 121 | 0.00 |
| 69 | T | o-Xylene | 0.652 | 0.683 | -4.8 | 123 | 0.00 |
| 70 | T | Styrene | 1.105 | 1.232 | -11.5 | 125 | 0.00 |
| 71 | P | Bromoform | 0.386 | 0.395 | -2.3 | 126 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 123 | 0.00 |
| 73 | T | Isopropylbenzene | 3.271 | 3.272 | -0.0 | 117 | 0.00 |
| 74 | T | N-amyl acetate | 1.294 | 1.449 | -12.0 | 127 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.090 | 1.043 | 4.3 | 123 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.077 | 1.043 | 3.2 | 124 | 0.00 |
| 77 | T | Bromobenzene | 0.898 | 0.925 | -3.0 | 125 | 0.00 |
| 78 | T | n-propylbenzene | 3.727 | 3.971 | -6.5 | 126 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.323 | 2.383 | -2.6 | 124 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.798 | 2.928 | -4.6 | 121 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.380 | 0.367 | 3.4 | 119 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.762 | 2.864 | -3.7 | 124 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.802 | 2.772 | 1.1 | 117 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.844 | 3.025 | -6.4 | 125 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.156 | 3.334 | -5.6 | 124 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.994 | 3.211 | -7.2 | 123 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.650 | 1.618 | 1.9 | 122 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.671 | 1.655 | 1.0 | 127 | 0.00 |
| 89 | T | n-Butylbenzene | 2.602 | 2.773 | -6.6 | 125 | 0.00 |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.557 | 0.527 | 5.4 | 118 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.571 | 1.583 | -0.8 | 125 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.279 | 0.254 | 9.0 | 114 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.008 | 1.072 | -6.3 | 132 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.448 | 0.544 | -21.4 | 157# | 0.00 |
| 95 T | Naphthalene | 2.905 | 2.988 | -2.9 | 112 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.986 | 1.015 | -2.9 | 124 | 0.00 |

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