# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092922\
Data File : VX031788.D
Acq On : 29 Sep 2022 21:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

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

Quant Time: Sep 30 04:41:37 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X092622W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 27 01:44:18 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 124 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.609 | 0.591 | 3.0 | 129 | 0.00 |
| 3 | P | Chloromethane | 0.667 | 0.498 | 25.3# | 109 | 0.00 |
| 4 | C | Vinyl Chloride | 0.837 | 0.703 | 16.0# | 113 | 0.00 |
| 5 | T | Bromomethane | 0.931 | 0.539 | 42.1# | 83 | 0.00 |
| 6 | T | Chloroethane | 1.174 | 0.701 | 40.3# | 88 | 0.00 |
| 7 | T | Trichlorofluoromethane | 2.287 | 1.609 | 29.6# | 101 | 0.00 |
| 8 | T | Diethyl Ether | 0.723 | 0.535 | 26.0# | 103 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.665 | 0.695 | -4.5 | 145 | 0.00 |
| 10 | T | Methyl Iodide | 0.651 | 0.550 | 15.5 | 99 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.167 | 0.140 | 16.2 | 119 | 0.02 |
| 12 | CM | 1,1-Dichloroethene | 0.629 | 0.613 | 2.5# | 143 | 0.00 |
| 13 | T | Acrolein | 0.080 | 0.056 | 30.0# | 102 | 0.00 |
| 14 | T | Allyl chloride | 0.874 | 0.805 | 7.9 | 122 | 0.00 |
| 15 | T | Acrylonitrile | 0.368 | 0.339 | 7.9 | 119 | 0.00 |
| 16 | T | Acetone | 0.309 | 0.274 | 11.3 | 125 | 0.00 |
| 17 | T | Carbon Disulfide | 1.303 | 1.127 | 13.5 | 126 | 0.00 |
| 18 | T | Methyl Acetate | 0.954 | 0.890 | 6.7 | 126 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.360 | 2.399 | -1.7 | 128 | 0.00 |
| 20 | T | Methylene Chloride | 0.803 | 0.744 | 7.3 | 139 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.735 | 0.723 | 1.6 | 132 | 0.00 |
| 22 | T | Diisopropyl ether | 2.251 | 2.000 | 11.2 | 104 | 0.00 |
| 23 | T | Vinyl Acetate | 1.780 | 1.608 | 9.7 | 103 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.297 | 1.238 | 4.5 | 125 | 0.00 |
| 25 | T | 2-Butanone | 0.507 | 0.448 | 11.6 | 108 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.053 | 0.937 | 11.0 | 107 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.900 | 0.924 | -2.7 | 131 | 0.00 |
| 28 | T | Bromochloromethane | 0.607 | 0.479 | 21.1 | 93 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.318 | 0.284 | 10.7 | 103 | 0.00 |
| 30 | C | Chloroform | 1.596 | 1.560 | 2.3# | 118 | 0.00 |
| 31 | T | Cyclohexane | 1.009 | 0.918 | 9.0 | 110 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.322 | 1.402 | -6.1 | 123 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 1.061 | 0.958 | 9.7 | 112 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 123 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.596 | 0.595 | 0.2 | 126 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.684 | 0.673 | 1.6 | 120 | 0.00 |
| 37 | T | Ethyl Acetate | 0.690 | 0.609 | 11.7 | 104 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.771 | 0.834 | -8.2 | 128 | 0.00 |
| 39 | T | Methylcyclohexane | 0.780 | 0.766 | 1.8 | 124 | 0.00 |
| 40 | TM | Benzene | 2.101 | 2.013 | 4.2 | 117 | 0.00 |
| 41 | T | Methacrylonitrile | 0.351 | 0.318 | 9.4 | 107 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.813 | 0.754 | 7.3 | 108 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.086 | 0.982 | 9.6 | 102 | 0.00 |
| 44 | TM | Trichloroethene | 0.594 | 0.635 | -6.9 | 135 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.510 | 0.489 | 4.1# | 118 | 0.00 |
| 46 | T | Dibromomethane | 0.410 | 0.415 | -1.2 | 125 | 0.00 |
| 47 | T | Bromodichloromethane | 0.739 | 0.787 | -6.5 | 122 | 0.00 |
| 48 | T | Methyl methacrylate | 0.478 | 0.460 | 3.8 | 108 | 0.00 |

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**Instrument :**
MSVOA_X
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VSTDCCC050

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.012 | 0.014 | -16.7 | 129 | 0.02 |
| 50 | S | Toluene-d8 | 2.160 | 2.160 | 0.0 | 117 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.688 | 0.641 | 6.8 | 103 | 0.00 |
| 52 | CM | Toluene | 1.401 | 1.462 | -4.4# | 118 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.710 | 0.783 | -10.3 | 109 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.768 | 0.817 | -6.4 | 116 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.603 | 0.624 | -3.5 | 118 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.772 | 0.837 | -8.4 | 113 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.955 | 0.948 | 0.7 | 114 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.380 | 0.385 | -1.3 | 114 | 0.00 |
| 59 | T | 2-Hexanone | 0.513 | 0.475 | 7.4 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 0.606 | 0.715 | -18.0 | 120 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.612 | 0.692 | -13.1 | 119 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.792 | 0.856 | -8.1 | 115 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 113 | 0.00 |
| 64 | T | Tetrachloroethene | 0.534 | 0.561 | -5.1 | 127 | 0.00 |
| 65 | PM | Chlorobenzene | 1.393 | 1.491 | -7.0 | 121 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.501 | 0.585 | -16.8 | 125 | 0.00 |
| 67 | C | Ethyl Benzene | 2.370 | 2.474 | -4.4# | 117 | 0.00 |
| 68 | T | m/p-Xylenes | 0.952 | 1.056 | -10.9 | 119 | 0.00 |
| 69 | T | o-Xylene | 0.931 | 1.044 | -12.1 | 119 | 0.00 |
| 70 | T | Styrene | 1.515 | 1.742 | -15.0 | 120 | 0.00 |
| 71 | P | Bromoform | 0.357 | 0.452 | -26.6# | 122 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 114 | 0.00 |
| 73 | T | Isopropylbenzene | 3.234 | 3.320 | -2.7 | 119 | 0.00 |
| 74 | T | N-amyl acetate | 1.049 | 0.941 | 10.3 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.027 | 0.964 | 6.1 | 109 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.906 | 0.848 | 6.4 | 107 | 0.00 |
| 77 | T | Bromobenzene | 0.822 | 0.892 | -8.5 | 131 | 0.00 |
| 78 | T | n-propylbenzene | 3.598 | 3.609 | -0.3 | 111 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.222 | 2.174 | 2.2 | 114 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.741 | 2.860 | -4.3 | 116 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.227 | 0.233 | -2.6 | 100 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.567 | 2.552 | 0.6 | 112 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.643 | 2.945 | -11.4 | 123 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.713 | 2.856 | -5.3 | 116 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.359 | 3.508 | -4.4 | 117 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.897 | 3.128 | -8.0 | 119 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.594 | 1.723 | -8.1 | 124 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.668 | 1.751 | -5.0 | 124 | 0.00 |
| 89 | T | n-Butylbenzene | 2.366 | 2.382 | -0.7 | 111 | 0.00 |
| 90 | T | Hexachloroethane | 0.465 | 0.490 | -5.4 | 113 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.596 | 1.762 | -10.4 | 125 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.206 | 0.202 | 1.9 | 101 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.933 | 1.052 | -12.8 | 128 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.364 | 0.398 | -9.3 | 135 | 0.00 |
| 95 | T | Naphthalene | 3.117 | 3.589 | -15.1 | 124 | 0.00 |

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|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.958 | 1.059 | -10.5 | 127 | 0.00 |

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