# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056439.D
Acq On : 21 Jun 2019 20:20
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** MSVOA_N
**LabSampleId :** VSTDCCC020

Quant Time: Jun 22 03:47:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 114 | 0.00 |
| 2 | M | Dichlorodifluoromethane | 1.687 | 1.771 | -5.0 | 113 | 0.00 |
| 3 | M | Chloromethane | 1.971 | 2.092 | -6.1 | 121 | 0.00 |
| 4 | M | Vinyl Chloride | 2.010 | 2.050 | -2.0 | 113 | 0.00 |
| 5 | M | Bromomethane | 1.263 | 1.222 | 3.2 | 105 | -0.02 |
| 6 | M | Chloroethane | 1.137 | 1.204 | -5.9 | 115 | -0.01 |
| 7 | M | Trichlorofluoromethane | 2.487 | 2.611 | -5.0 | 117 | 0.00 |
| 8 | T | Diethyl Ether | 1.055 | 1.094 | -3.7 | 117 | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 1.535 | 1.594 | -3.8 | 117 | 0.00 |
| 10 | M | 1,1-Dichloroethene | 1.566 | 1.589 | -1.5 | 115 | 0.01 |
| 11 | | Methyl Iodide | 2.471 | 2.133 | 13.7 | 101 | 0.00 |
| 12 | | Methyl Acetate | 1.882 | 2.218 | -17.9 | 136 | 0.00 |
| 13 | M | Acrolein | 0.092 | 0.089 | 3.3 | 115 | 0.00 |
| 14 | M | Acrylonitrile | 0.839 | 0.941 | -12.2 | 129 | 0.00 |
| 15 | M | Acetone | 0.275 | 0.277 | -0.7 | 107 | 0.00 |
| 16 | M | Carbon Disulfide | 3.726 | 3.353 | 10.0 | 110 | 0.00 |
| 17 | | Allyl chloride | 2.426 | 2.611 | -7.6 | 126 | 0.00 |
| 18 | M | Methylene Chloride | 1.813 | 1.900 | -4.8 | 120 | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 1.672 | 1.680 | -0.5 | 113 | 0.00 |
| 20 | T | Diisopropyl ether | 5.027 | 5.538 | -10.2 | 125 | 0.00 |
| 21 | M | 1,1-Dichloroethane | 2.921 | 3.206 | -9.8 | 125 | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 1.951 | 2.008 | -2.9 | 117 | 0.00 |
| 23 | M | tert-Butyl Alcohol | 0.327 | 0.336 | -2.8 | 121 | -0.01 |
| 24 | M | Methyl tert-Butyl Ether | 4.991 | 5.289 | -6.0 | 121 | 0.00 |
| 25 | M | Chloroform | 2.917 | 3.106 | -6.5 | 121 | 0.00 |
| 26 | | Cyclohexane | 2.710 | 2.844 | -4.9 | 120 | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 1.863 | 2.000 | -7.4 | 121 | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 112 | 0.00 |
| 29 | | 1,1-Dichloropropene | 0.406 | 0.433 | -6.7 | 121 | 0.00 |
| 30 | M | 2-Butanone | 0.214 | 0.237 | -10.7 | 123 | 0.00 |
| 31 | | 2,2-Dichloropropane | 0.378 | 0.373 | 1.3 | 112 | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 0.448 | 0.470 | -4.9 | 119 | 0.00 |
| 33 | M | Carbon Tetrachloride | 0.380 | 0.377 | 0.8 | 115 | 0.00 |
| 34 | M | Benzene | 1.293 | 1.363 | -5.4 | 118 | 0.00 |
| 35 | | Methacrylonitrile | 0.180 | 0.181 | -0.6 | 100 | 0.00 |
| 36 | M | 1,2-Dichloroethane | 0.405 | 0.456 | -12.6 | 127 | 0.00 |
| 37 | M | Trichloroethene | 0.362 | 0.372 | -2.8 | 114 | 0.00 |
| 38 | | Methylcyclohexane | 0.514 | 0.525 | -2.1 | 118 | 0.00 |
| 39 | M | 1,2-Dichloropropane | 0.331 | 0.370 | -11.8 | 124 | 0.00 |
| 40 | | Dibromomethane | 0.220 | 0.236 | -7.3 | 121 | 0.00 |
| 41 | M | Bromodichloromethane | 0.393 | 0.405 | -3.1 | 120 | 0.00 |
| 42 | M | Vinyl Acetate | 0.762 | 0.837 | -9.8 | 124 | 0.00 |
| 43 | | Ethyl Acetate | 0.409 | 0.459 | -12.2 | 126 | 0.00 |
| 44 | | Isopropyl Acetate | 0.635 | 0.706 | -11.2 | 130 | 0.00 |
| 45 | T | 1,4-Dioxane | 0.007 | 0.008# | -14.3 | 124 | 0.00 |

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Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | | Methyl methacrylate | 0.315 | 0.339 | -7.6 | 130 | 0.00 |
| 47 | | n-amyl Acetate | 0.525 | 0.561 | -6.9 | 126 | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 0.414 | 0.408 | 1.4 | 120 | 0.00 |
| 49 | T | cis-1,3-Dichloropropene | 0.484 | 0.500 | -3.3 | 120 | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 0.326 | 0.338 | -3.7 | 117 | 0.00 |
| 51 | | Ethyl methacrylate | 0.493 | 0.510 | -3.4 | 121 | 0.00 |
| 52 | | 1,3-Dichloropropane | 0.529 | 0.581 | -9.8 | 123 | 0.00 |
| 53 | M | Dibromochloromethane | 0.319 | 0.307 | 3.8 | 118 | 0.00 |
| 54 | M | 1,2-Dibromoethane | 0.340 | 0.360 | -5.9 | 122 | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 0.173 | 0.164 | 5.2 | 115 | 0.00 |
| 56 | M | Bromoform | 0.231 | 0.206 | 10.8 | 115 | 0.00 |
| 57 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 115 | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 0.454 | 0.508 | -11.9 | 128 | 0.00 |
| 59 | M | 2-Hexanone | 0.325 | 0.365 | -12.3 | 129 | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 0.445 | 0.442 | 0.7 | 117 | 0.00 |
| 61 | M | Tetrachloroethene | 0.418 | 0.412 | 1.4 | 110 | 0.00 |
| 62 | M | Toluene | 1.620 | 1.652 | -2.0 | 116 | 0.00 |
| 63 | S | Toluene-d8 | 1.361 | 1.384 | -1.7 | 114 | 0.00 |
| 64 | M | Chlorobenzene | 0.982 | 1.015 | -3.4 | 119 | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 0.354 | 0.353 | 0.3 | 116 | 0.00 |
| 66 | M | Ethyl Benzene | 1.725 | 1.769 | -2.6 | 117 | 0.00 |
| 67 | M | m/p-Xylenes | 0.660 | 0.661 | -0.2 | 115 | 0.00 |
| 68 | M | o-Xylene | 0.646 | 0.665 | -2.9 | 117 | 0.00 |
| 69 | M | Styrene | 1.050 | 1.040 | 1.0 | 116 | 0.00 |
| 70 | | Isopropylbenzene | 1.689 | 1.732 | -2.5 | 117 | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 0.509 | 0.545 | -7.1 | 121 | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 0.441 | 0.443 | -0.5 | 116 | 0.00 |
| 73 | | Bromobenzene | 0.448 | 0.443 | 1.1 | 115 | 0.00 |
| 74 | | n-propylbenzene | 1.782 | 1.806 | -1.3 | 120 | 0.00 |
| 75 | | 2-Chlorotoluene | 1.105 | 1.150 | -4.1 | 121 | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 1.389 | 1.397 | -0.6 | 116 | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 0.126 | 0.111 | 11.9 | 118 | 0.00 |
| 78 | | 4-Chlorotoluene | 1.032 | 1.024 | 0.8 | 120 | 0.00 |
| 79 | | tert-butylbenzene | 1.231 | 1.286 | -4.5 | 121 | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 1.351 | 1.310 | 3.0 | 113 | 0.00 |
| 81 | | sec-Butylbenzene | 1.557 | 1.590 | -2.1 | 119 | 0.00 |
| 82 | | p-Isopropyltoluene | 1.408 | 1.346 | 4.4 | 113 | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 0.699 | 0.646 | 7.6 | 112 | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 0.665 | 0.597 | 10.2 | 114 | 0.00 |
| 85 | | n-Butylbenzene | 1.051 | 0.916 | 12.8 | 112 | 0.00 |
| 86 | T | Hexachloroethane | 0.219 | 0.207 | 5.5 | 116 | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 0.710 | 0.660 | 7.0 | 112 | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 0.080 | 0.069 | 13.7 | 112 | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 0.346 | 0.236 | 31.8# | 100 | 0.00 |
| 90 | | Hexachlorobutadiene | 0.259 | 0.243 | 6.2 | 111 | 0.00 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 M | Naphthalene | 0.943 | 0.709 | 24.8 | 109 | 0.00 |
| 92 | 1,2,3-Trichlorobenzene | 0.372 | 0.283 | 23.9 | 104 | 0.00 |

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