# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110220\
Data File : VN064417.D
Acq On : 2 Nov 2020 16:15
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** ICVVN110220

Quant Time: Nov 03 03:14:50 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N110220W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 03 02:03:38 2020
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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 30.000 | 30.000 | 0.0 | 113 | 0.00 |
| 2 | M | Dichlorodifluoromethane | 20.000 | 18.849 | 5.8 | 107 | 0.00 |
| 3 | M | Chloromethane | 20.000 | 18.923 | 5.4 | 113 | 0.00 |
| 4 | M | Vinyl Chloride | 20.000 | 18.091 | 9.5 | 108 | 0.00 |
| 5 | M | Bromomethane | 20.000 | 19.298 | 3.5 | 114 | 0.00 |
| 6 | M | Chloroethane | 20.000 | 17.760 | 11.2 | 104 | 0.00 |
| 7 | M | Trichlorofluoromethane | 20.000 | 18.648 | 6.8 | 106 | 0.00 |
| 8 | T | Diethyl Ether | 20.000 | 18.868 | 5.7 | 114 | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 20.000 | 19.019 | 4.9 | 112 | 0.00 |
| 10 | M | 1,1-Dichloroethene | 20.000 | 18.451 | 7.7 | 112 | 0.00 |
| 11 | | Methyl Iodide | 20.000 | 16.593 | 17.0 | 105 | 0.00 |
| 12 | | Methyl Acetate | 20.000 | 18.573 | 7.1 | 110 | 0.00 |
| 13 | M | Acrolein | 100.000 | 89.060 | 10.9 | 105 | 0.00 |
| 14 | M | Acrylonitrile | 100.000 | 90.458 | 9.5 | 109 | 0.00 |
| 15 | M | Acetone | 100.000 | 79.357 | 20.6 | 80 | 0.00 |
| 16 | M | Carbon Disulfide | 20.000 | 18.382 | 8.1 | 111 | 0.00 |
| 17 | | Allyl chloride | 20.000 | 17.515 | 12.4 | 108 | 0.00 |
| 18 | M | Methylene Chloride | 20.000 | 18.440 | 7.8 | 110 | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 20.000 | 18.485 | 7.6 | 112 | 0.00 |
| 20 | T | Diisopropyl ether | 20.000 | 18.236 | 8.8 | 108 | 0.00 |
| 21 | M | 1,1-Dichloroethane | 20.000 | 18.247 | 8.8 | 108 | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 20.000 | 18.183 | 9.1 | 109 | 0.00 |
| 23 | M | tert-Butyl Alcohol | 100.000 | 95.296 | 4.7 | 111 | 0.00 |
| 24 | M | Methyl tert-Butyl Ether | 20.000 | 18.120 | 9.4 | 109 | 0.00 |
| 25 | M | Chloroform | 20.000 | 17.883 | 10.6 | 105 | 0.00 |
| 26 | | Cyclohexane | 20.000 | 18.296 | 8.5 | 112 | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 30.000 | 30.040 | -0.1 | 108 | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 30.000 | 30.000 | 0.0 | 111 | 0.00 |
| 29 | | 1,1-Dichloropropene | 20.000 | 18.070 | 9.6 | 110 | 0.00 |
| 30 | M | 2-Butanone | 100.000 | 88.075 | 11.9 | 98 | 0.00 |
| 31 | | 2,2-Dichloropropane | 20.000 | 18.170 | 9.1 | 108 | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 20.000 | 18.351 | 8.2 | 108 | 0.00 |
| 33 | M | Carbon Tetrachloride | 20.000 | 18.388 | 8.1 | 108 | 0.00 |
| 34 | M | Benzene | 20.000 | 18.177 | 9.1 | 108 | 0.00 |
| 35 | | Methacrylonitrile | 20.000 | 19.192 | 4.0 | 123 | 0.00 |
| 36 | M | 1,2-Dichloroethane | 20.000 | 18.323 | 8.4 | 105 | 0.00 |
| 37 | M | Trichloroethene | 20.000 | 18.410 | 7.9 | 113 | 0.00 |
| 38 | | Methylcyclohexane | 20.000 | 18.056 | 9.7 | 110 | 0.00 |
| 39 | M | 1,2-Dichloropropane | 20.000 | 18.754 | 6.2 | 112 | 0.00 |
| 40 | | Dibromomethane | 20.000 | 17.727 | 11.4 | 105 | 0.00 |
| 41 | M | Bromodichloromethane | 20.000 | 18.159 | 9.2 | 107 | 0.00 |
| 42 | M | Vinyl Acetate | 100.000 | 92.140 | 7.9 | 110 | 0.00 |
| 43 | | Ethyl Acetate | 20.000 | 19.242 | 3.8 | 129 | 0.00 |
| 44 | | Isopropyl Acetate | 20.000 | 18.921 | 5.4 | 111 | 0.00 |
| 45 | T | 1,4-Dioxane | 400.000 | 402.533 | -0.6 | 121 | 0.00 |

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| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | | Methyl methacrylate | 20.000 | 18.327 | 8.4 | 109 | 0.00 |
| 47 | | n-amyl Acetate | 20.000 | 18.181 | 9.1 | 111 | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 20.000 | 17.690 | 11.5 | 110 | 0.00 |
| 49 | T | cis-1,3-Dichloropropene | 20.000 | 17.900 | 10.5 | 109 | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 20.000 | 17.892 | 10.5 | 106 | 0.00 |
| 51 | | Ethyl methacrylate | 20.000 | 18.086 | 9.6 | 113 | 0.00 |
| 52 | | 1,3-Dichloropropane | 20.000 | 18.306 | 8.5 | 107 | 0.00 |
| 53 | M | Dibromochloromethane | 20.000 | 17.966 | 10.2 | 111 | 0.00 |
| 54 | M | 1,2-Dibromoethane | 20.000 | 17.216 | 13.9 | 103 | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 100.000 | 89.845 | 10.2 | 116 | 0.00 |
| 56 | M | Bromoform | 20.000 | 17.481 | 12.6 | 113 | 0.00 |
| 57 | I | Chlorobenzene-d5 | 30.000 | 30.000 | 0.0 | 108 | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 100.000 | 93.905 | 6.1 | 108 | 0.00 |
| 59 | M | 2-Hexanone | 100.000 | 91.527 | 8.5 | 101 | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 30.000 | 30.444 | -1.5 | 113 | 0.00 |
| 61 | M | Tetrachloroethene | 20.000 | 19.052 | 4.7 | 109 | 0.00 |
| 62 | M | Toluene | 20.000 | 19.162 | 4.2 | 112 | 0.00 |
| 63 | S | Toluene-d8 | 30.000 | 30.371 | -1.2 | 110 | 0.00 |
| 64 | M | Chlorobenzene | 20.000 | 18.670 | 6.6 | 110 | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 20.000 | 19.241 | 3.8 | 110 | 0.00 |
| 66 | M | Ethyl Benzene | 20.000 | 18.440 | 7.8 | 108 | 0.00 |
| 67 | M | m/p-Xylenes | 40.000 | 37.083 | 7.3 | 109 | 0.00 |
| 68 | M | o-Xylene | 20.000 | 18.745 | 6.3 | 111 | 0.00 |
| 69 | M | Styrene | 20.000 | 18.130 | 9.4 | 110 | 0.00 |
| 70 | | Isopropylbenzene | 20.000 | 18.350 | 8.2 | 108 | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 20.000 | 18.679 | 6.6 | 108 | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 20.000 | 17.277 | 13.6 | 103 | 0.00 |
| 73 | | Bromobenzene | 20.000 | 18.783 | 6.1 | 109 | 0.00 |
| 74 | | n-propylbenzene | 20.000 | 18.774 | 6.1 | 111 | 0.00 |
| 75 | | 2-Chlorotoluene | 20.000 | 19.104 | 4.5 | 110 | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 20.000 | 18.934 | 5.3 | 113 | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 20.000 | 18.572 | 7.1 | 113 | 0.00 |
| 78 | | 4-Chlorotoluene | 20.000 | 18.918 | 5.4 | 112 | 0.00 |
| 79 | | tert-butylbenzene | 20.000 | 18.665 | 6.7 | 109 | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 20.000 | 18.284 | 8.6 | 108 | 0.00 |
| 81 | | sec-Butylbenzene | 20.000 | 18.868 | 5.7 | 112 | 0.00 |
| 82 | | p-Isopropyltoluene | 20.000 | 18.771 | 6.1 | 113 | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 20.000 | 18.591 | 7.0 | 113 | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 20.000 | 17.772 | 11.1 | 107 | 0.00 |
| 85 | | n-Butylbenzene | 20.000 | 19.175 | 4.1 | 114 | 0.00 |
| 86 | T | Hexachloroethane | 20.000 | 18.367 | 8.2 | 113 | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 20.000 | 18.167 | 9.2 | 106 | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 20.000 | 19.135 | 4.3 | 116 | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 20.000 | 18.230 | 8.8 | 114 | 0.00 |
| 90 | | Hexachlorobutadiene | 20.000 | 19.867 | 0.7 | 119 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 M | Naphthalene | 20.000 | 17.540 | 12.3 | 116 | 0.00 |
| 92 | 1,2,3-Trichlorobenzene | 20.000 | 18.327 | 8.4 | 120 | 0.00 |

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