# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX080718\
Data File : VX003895.D
Acq On : 07 Aug 2018 22:19
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC020

Quant Time: Aug 08 04:22:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 27 16:17:43 2018
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 | 296# | 0.00 |
| 2 | M | Dichlorodifluoromethane | 1.585 | 2.165 | -36.6# | 448# | 0.00 |
| 3 | M | Chloromethane | 2.133 | 2.189 | -2.6 | 336# | 0.00 |
| 4 | M | Vinyl Chloride | 2.243 | 2.221 | 1.0 | 324# | 0.00 |
| 5 | M | Bromomethane | 1.341 | 1.318 | 1.7 | 342# | 0.00 |
| 6 | M | Chloroethane | 1.468 | 1.482 | -1.0 | 328# | 0.00 |
| 7 | M | Trichlorofluoromethane | 3.017 | 2.866 | 5.0 | 315# | 0.00 |
| 8 | T | Diethyl Ether | 1.293 | 1.249 | 3.4 | 320# | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 1.829 | 1.752 | 4.2 | 313# | 0.00 |
| 10 | M | 1,1-Dichloroethene | 1.720 | 1.634 | 5.0 | 313# | 0.00 |
| 11 | | Methyl Iodide | 2.384 | 2.057 | 13.7 | 287# | 0.00 |
| 12 | | Methyl Acetate | 3.182 | 3.446 | -8.3 | 343# | 0.00 |
| 13 | M | Acrolein | 0.248 | 0.314 | -26.6 | 367# | 0.00 |
| 14 | M | Acrylonitrile | 1.254 | 1.132 | 9.7 | 291# | 0.00 |
| 15 | M | Acetone | 0.340 | 0.317 | 6.8 | 300# | 0.00 |
| 16 | M | Carbon Disulfide | 4.776 | 4.368 | 8.5 | 306# | 0.00 |
| 17 | | Allyl chloride | 3.560 | 3.138 | 11.9 | 290# | 0.00 |
| 18 | M | Methylene Chloride | 2.037 | 1.997 | 2.0 | 317# | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 1.859 | 1.769 | 4.8 | 309# | 0.00 |
| 20 | T | Diisopropyl ether | 6.537 | 5.631 | 13.9 | 275# | 0.00 |
| 21 | M | 1,1-Dichloroethane | 3.701 | 3.446 | 6.9 | 303# | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 1.877 | 1.965 | -4.7 | 319# | 0.00 |
| 23 | M | tert-Butyl Alcohol | 0.527 | 0.505 | 4.2 | 306# | 0.00 |
| 24 | M | Methyl tert-Butyl Ether | 6.169 | 5.767 | 6.5 | 308# | 0.00 |
| 25 | M | Chloroform | 3.205 | 3.267 | -1.9 | 308# | 0.00 |
| 26 | | Cyclohexane | 2.780 | 2.757 | 0.8 | 309# | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 2.202 | 2.086 | 5.3 | 294# | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 310# | 0.00 |
| 29 | | 1,1-Dichloropropene | 0.443 | 0.446 | -0.7 | 317# | 0.00 |
| 30 | M | 2-Butanone | 0.283 | 0.266 | 6.0 | 283# | 0.00 |
| 31 | | 2,2-Dichloropropane | 0.429 | 0.349 | 18.6 | 252# | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 0.507 | 0.499 | 1.6 | 310# | 0.00 |
| 33 | M | Carbon Tetrachloride | 0.440 | 0.429 | 2.5 | 302# | 0.00 |
| 34 | M | Benzene | 1.361 | 1.386 | -1.8 | 313# | 0.00 |
| 35 | | Methacrylonitrile | 0.294 | 0.275 | 6.5 | 292# | 0.00 |
| 36 | M | 1,2-Dichloroethane | 0.489 | 0.478 | 2.2 | 306# | 0.00 |
| 37 | M | Trichloroethene | 0.355 | 0.362 | -2.0 | 319# | 0.00 |
| 38 | | Methylcyclohexane | 0.503 | 0.495 | 1.6 | 315# | 0.00 |
| 39 | M | 1,2-Dichloropropane | 0.360 | 0.346 | 3.9 | 301# | 0.00 |
| 40 | | Dibromomethane | 0.233 | 0.227 | 2.6 | 303# | 0.00 |
| 41 | M | Bromodichloromethane | 0.445 | 0.426 | 4.3 | 308# | 0.00 |
| 42 | M | Vinyl Acetate | 1.087 | 0.824 | 24.2 | 255# | 0.00 |
| 43 | | Ethyl Acetate | 0.528 | 0.482 | 8.7 | 280# | 0.00 |
| 44 | | Isopropyl Acetate | 0.811 | 0.739 | 8.9 | 289# | 0.00 |
| 45 | T | 1,4-Dioxane | 0.009 | 0.009# | 0.0 | 310# | 0.00 |

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**LabSampleId :** VSTDCCC020

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
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Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | | Methyl methacrylate | 0.418 | 0.396 | 5.3 | 301# | 0.00 |
| 47 | | n-amyl Acetate | 0.765 | 0.626 | 18.2 | 281# | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 0.540 | 0.499 | 7.6 | 298# | 0.00 |
| 49 | T | cis-1,3-Dichloropropene | 0.506 | 0.448 | 11.5 | 304# | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 0.370 | 0.355 | 4.1 | 314# | 0.00 |
| 51 | | Ethyl methacrylate | 0.556 | 0.492 | 11.5 | 304# | 0.00 |
| 52 | | 1,3-Dichloropropane | 0.615 | 0.603 | 2.0 | 325# | 0.00 |
| 53 | M | Dibromochloromethane | 0.363 | 0.337 | 7.2 | 317# | 0.00 |
| 54 | M | 1,2-Dibromoethane | 0.386 | 0.368 | 4.7 | 319# | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 0.287 | 0.256 | 10.8 | 289# | 0.00 |
| 56 | M | Bromoform | 0.282 | 0.253 | 10.3 | 316# | 0.00 |
| 57 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 314# | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 0.566 | 0.553 | 2.3 | 289# | 0.00 |
| 59 | M | 2-Hexanone | 0.451 | 0.424 | 6.0 | 290# | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 0.483 | 0.470 | 2.7 | 308# | 0.00 |
| 61 | M | Tetrachloroethene | 0.349 | 0.377 | -8.0 | 347# | 0.00 |
| 62 | M | Toluene | 1.557 | 1.606 | -3.1 | 314# | 0.00 |
| 63 | S | Toluene-d8 | 1.351 | 1.335 | 1.2 | 298# | 0.00 |
| 64 | M | Chlorobenzene | 1.006 | 1.043 | -3.7 | 322# | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 0.356 | 0.368 | -3.4 | 323# | 0.00 |
| 66 | M | Ethyl Benzene | 1.713 | 1.713 | 0.0 | 316# | 0.00 |
| 67 | M | m/p-Xylenes | 0.660 | 0.688 | -4.2 | 325# | 0.00 |
| 68 | M | o-Xylene | 0.631 | 0.654 | -3.6 | 326# | 0.00 |
| 69 | M | Styrene | 1.069 | 1.067 | 0.2 | 313# | 0.00 |
| 70 | | Isopropylbenzene | 1.738 | 1.744 | -0.3 | 320# | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 0.621 | 0.595 | 4.2 | 303# | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 0.516 | 0.521 | -1.0 | 318# | 0.00 |
| 73 | | Bromobenzene | 0.468 | 0.463 | 1.1 | 323# | 0.00 |
| 74 | | n-propylbenzene | 2.048 | 1.995 | 2.6 | 311# | 0.00 |
| 75 | | 2-Chlorotoluene | 1.207 | 1.203 | 0.3 | 314# | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 1.475 | 1.438 | 2.5 | 312# | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 0.176 | 0.145 | 17.6 | 277# | 0.00 |
| 78 | | 4-Chlorotoluene | 1.412 | 1.367 | 3.2 | 308# | 0.00 |
| 79 | | tert-butylbenzene | 1.518 | 1.407 | 7.3 | 296# | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 1.510 | 1.484 | 1.7 | 312# | 0.00 |
| 81 | | sec-Butylbenzene | 1.718 | 1.680 | 2.2 | 315# | 0.00 |
| 82 | | p-Isopropyltoluene | 1.518 | 1.407 | 7.3 | 296# | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 0.856 | 0.789 | 7.8 | 294# | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 0.861 | 0.806 | 6.4 | 297# | 0.00 |
| 85 | | n-Butylbenzene | 1.347 | 1.094 | 18.8 | 269# | 0.00 |
| 86 | T | Hexachloroethane | 0.245 | 0.198 | 19.2 | 266# | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 0.859 | 0.759 | 11.6 | 281# | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 0.131 | 0.103 | 21.4 | 262# | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 0.603 | 0.582 | 3.5 | 317# | 0.00 |
| 90 | | Hexachlorobutadiene | 0.273 | 0.267 | 2.2 | 311# | 0.00 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 M | Naphthalene | 1.843 | 1.829 | 0.8 | 317# | 0.00 |
| 92 | 1,2,3-Trichlorobenzene | 0.614 | 0.621 | -1.1 | 320# | 0.00 |

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