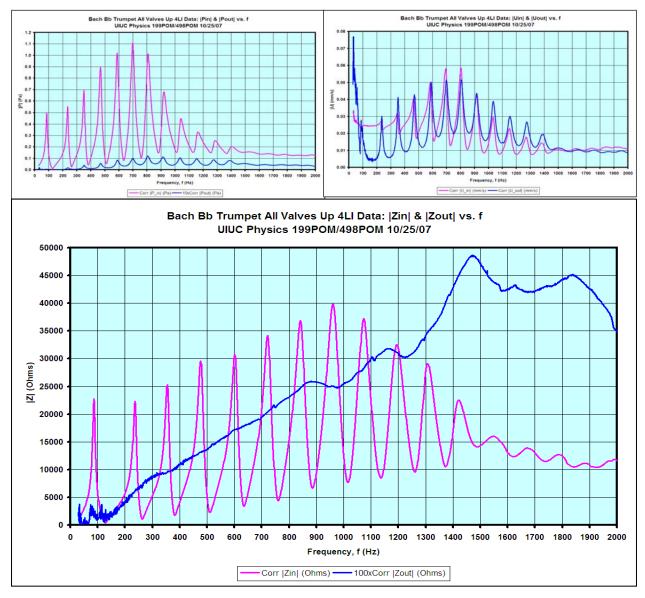
The sensitivities of the p- and u-mics $S_{p\text{-}mic}$ and $S_{u\text{-}mic}$ are measured/absolutely calibrated in an $SPL = 94 \ dB$ free-field sound field, frequency-dependent p- and u-mic phase corrections are also applied to the raw complex p- and u-mic data taken for such musical instrument measurements. The complex z_{in} and z_{out} are computed, along with complex I_{in} and I_{out} , resulting in more than 40 individual plots of the real, imaginary, magnitude, phase, cosine of the phase, complex plane associated with complex input/output pressure, complex particle velocity, complex longitudinal specific acoustic impedance and complex longitudinal acoustic intensity.

In the figures below, we show a few of these plots – absolutely calibrated, fully-corrected input (pink) output (blue) $|\tilde{p}(f)|$, $|\tilde{u}_{\parallel}(f)|$ and $|\tilde{z}_{\parallel}(f)|$ data for the Bach B_b trumpet:



The (pink) input impedance peaks enable a player to play those notes on the trumpet. The lowest *playable* note is actually the 2^{nd} peak – the output impedance on the 1^{st} peak is a dead short!