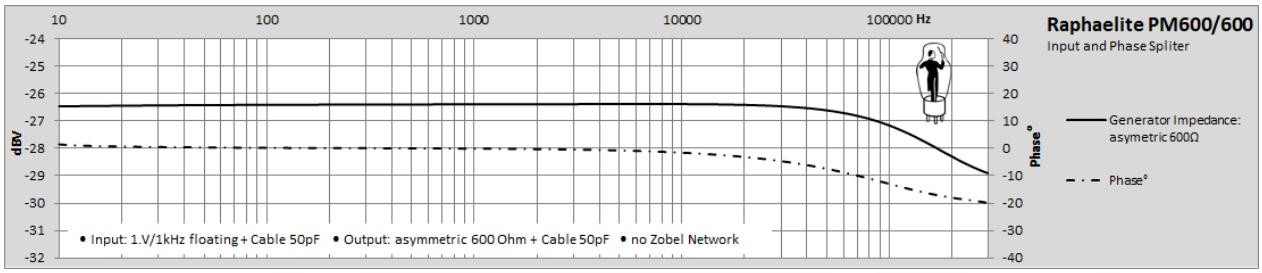
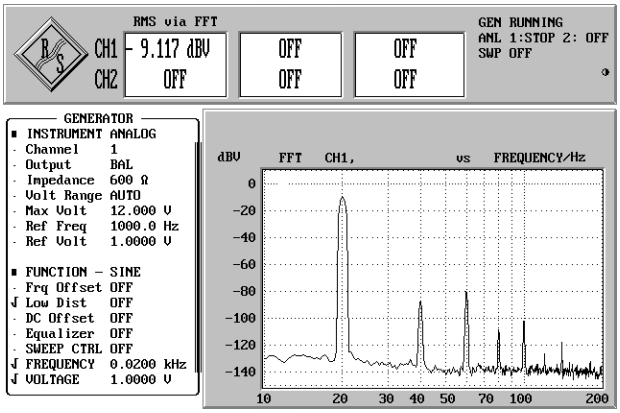
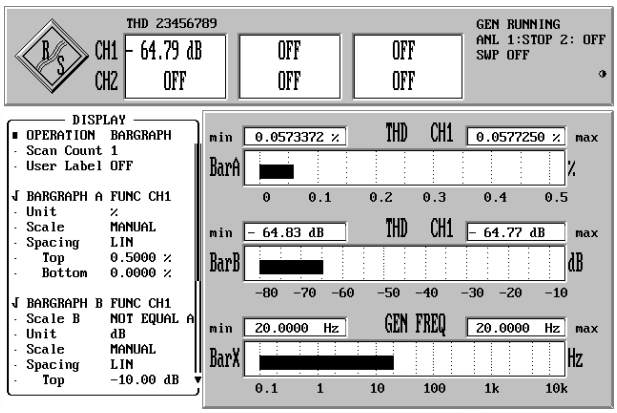
Raphaelite PM600/600 Input Phase Splitter Transformer

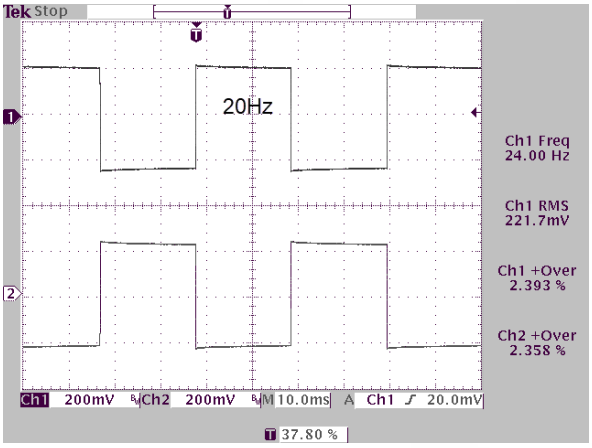
This is not the result of a scientific measurement, just DIY-Information to choose the desired Transformer

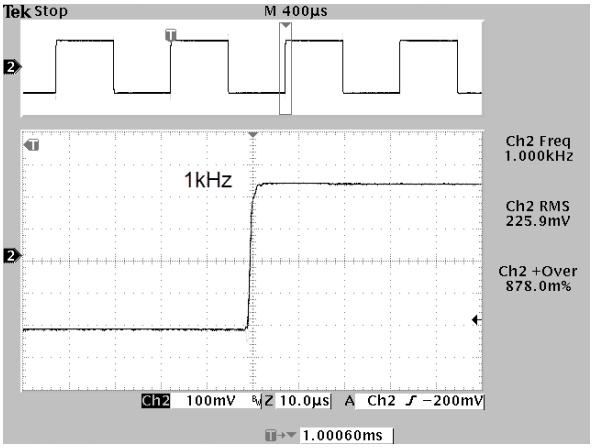






Input: 1.0V_{RMS} / 20Hz Input Load: 600Ω Output Load: 600Ω no Zobel-Network





Input: 1.0V_{RMS} Input Load: asymmetric 600Ω Output Load: 2x asymmetric 600Ω no Zobel-Network

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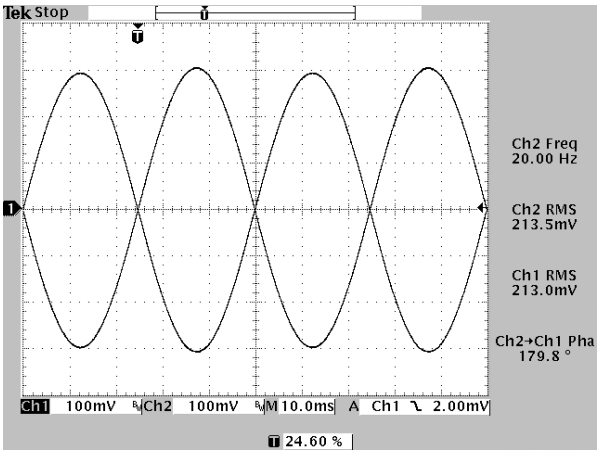
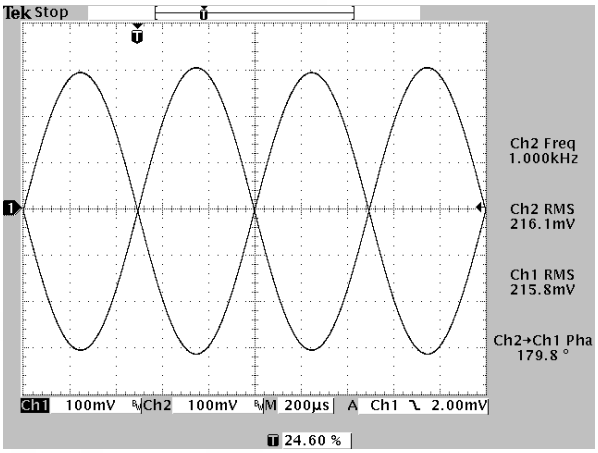
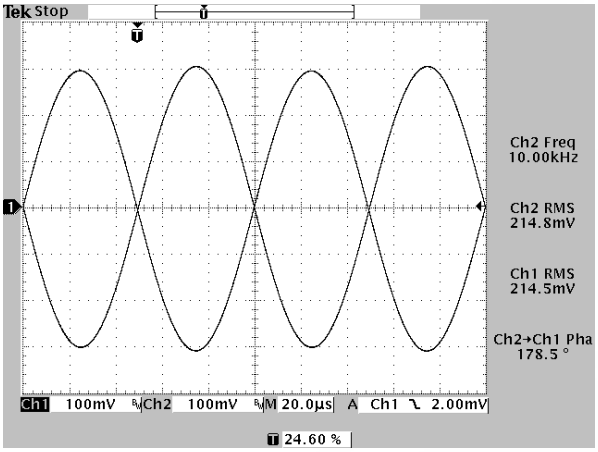
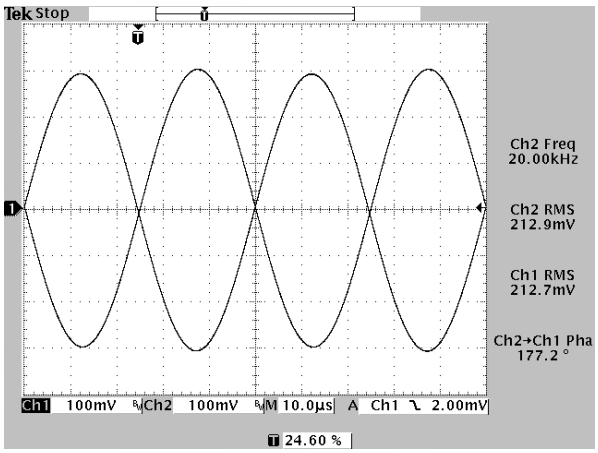
Input->Output phase-split signal test: input 1x asymmetric -> output 2x asymmetric



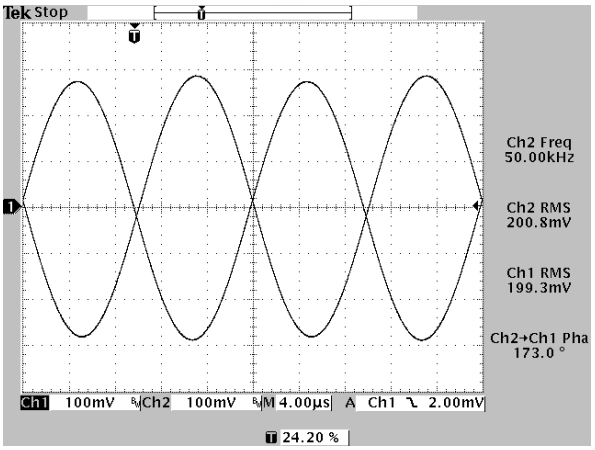


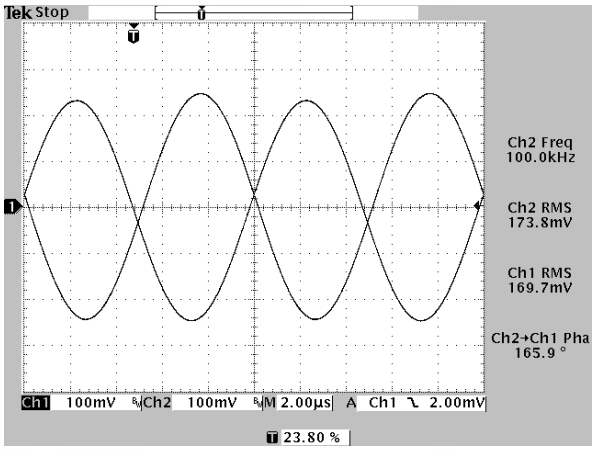
Input: 1.0V_{RMS} Input Load: asymmetric 600Ω Output Load: 2x asymmetric 600Ω no Zobel-Network





Input: 1.0V_{RMS} Input Load: asymmetric 600Ω Output Load: 2x asymmetric 600Ω no Zobel-Network





Input: 1.0 V_{RMS} Input Load: asymmetric 600Ω Output Load: 2x asymmetric 600Ω no Zobel-Network

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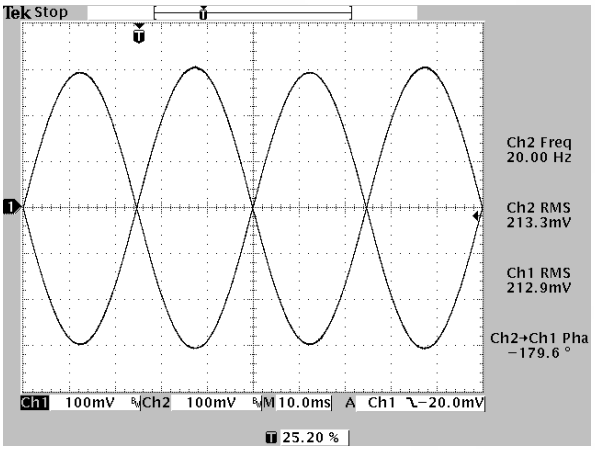
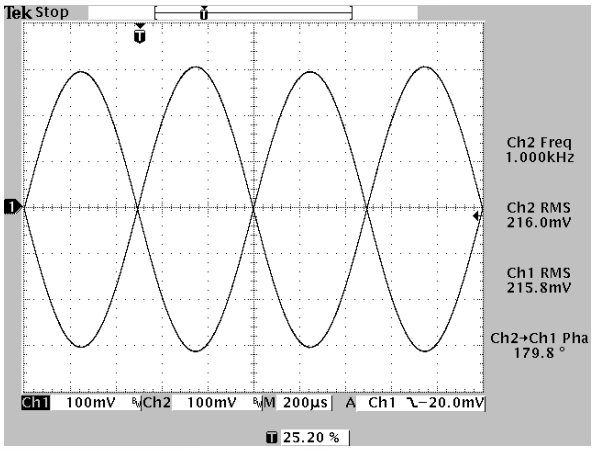
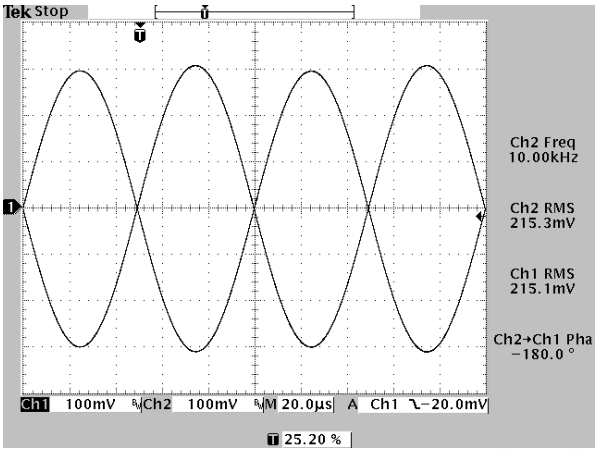
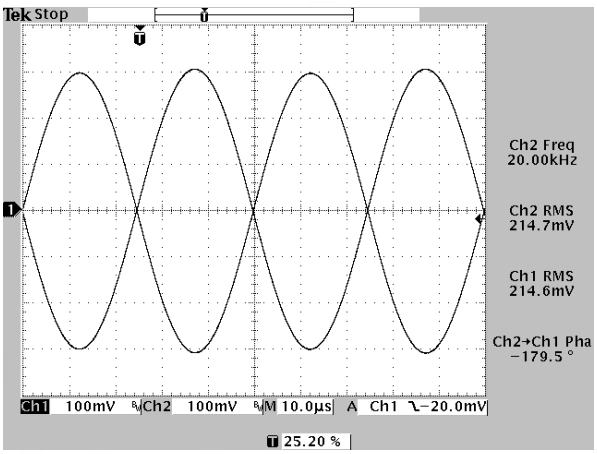
Input->Output phase-split signal test: input 1x symmetric -> output 2x asymmetric



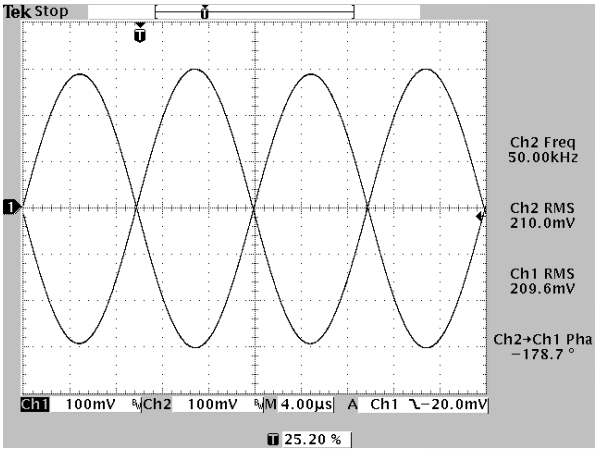


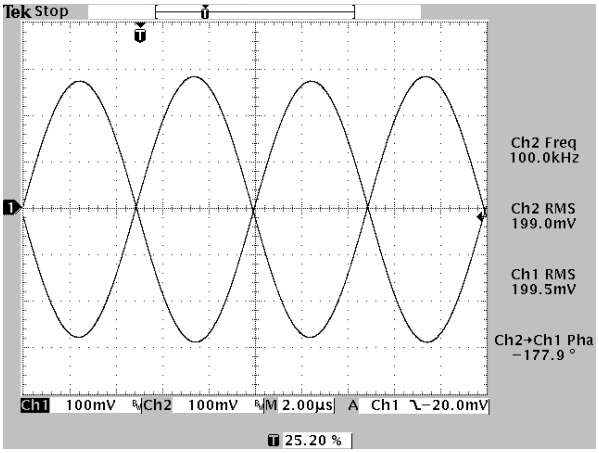
Input: 1.0V_{RMS} Input Load: symmetric 600Ω Output Load: 2x asymmetric 600Ω no Zobel-Network





Input: 1.0V_{RMS} Input Load: symmetric 600Ω Output Load: 2x asymmetric 600Ω no Zobel-Network





Input: 1.0V_{RMS} Input Load: symmetric 600Ω Output Load: 2x asymmetric 600Ω no Zobel-Network

- Turns Ratio = 1+1:1+1

- Prim. Inductance (L_P): CT/-0=10.3H, CT/600=10.3H (100Hz, Output open)

- no Noise-Shield between prim./sec. Windings

- THD: 20Hz ~0.0573
1kHz ~0.0005
10kHz ~0.0003

Equipment: Rohde & Schwarz UPL; Rohde & Schwarz APN62; Tektronix TD3032B; Digilent Discovery 2, UNI-T UT612
Version: 2.5 kurtblum.com