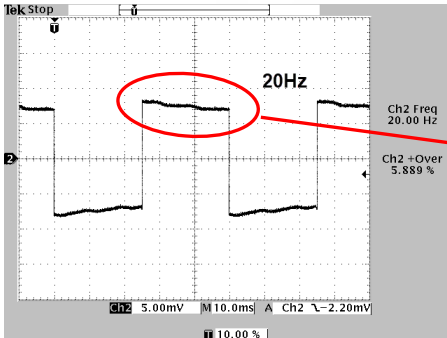
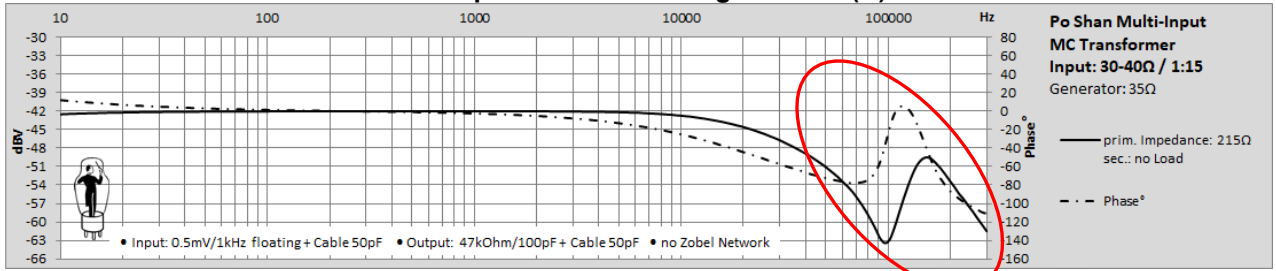


Po Shan Multi-Input MC-Transformer SUT

80% Ni Super-Permalloy Core (Multi-Input) (Magic Box)

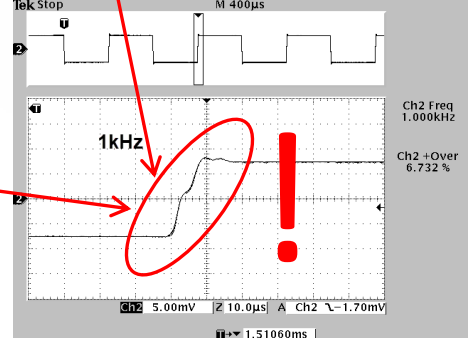
This is not the result of a scientific measurement, just DIY-Information to choose the desired MC-Transformer

Po Shan Input: 30-40Ω Cartridge + Ratio (N): 1:15

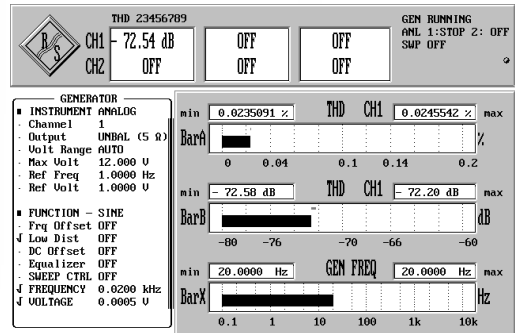
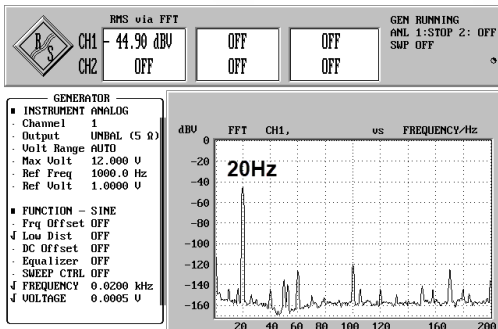


Calculated Load:
 - prim. 215Ω; sec. no Load
 - prim. 350Ω; sec. not possible

Measured:
 - Ratio (N) 1:14.8
 - THD 20Hz~0.023%
 1kHz~0.003%
 10kHz~0.001%
 - Prim. Inductance (L_p)
 1.29H/100Hz (Output open)

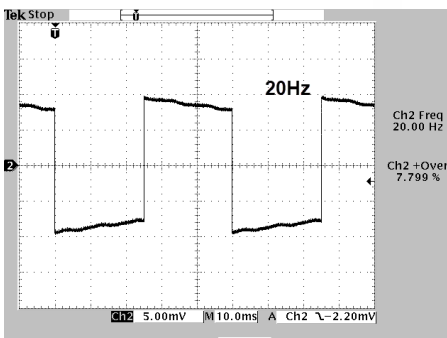
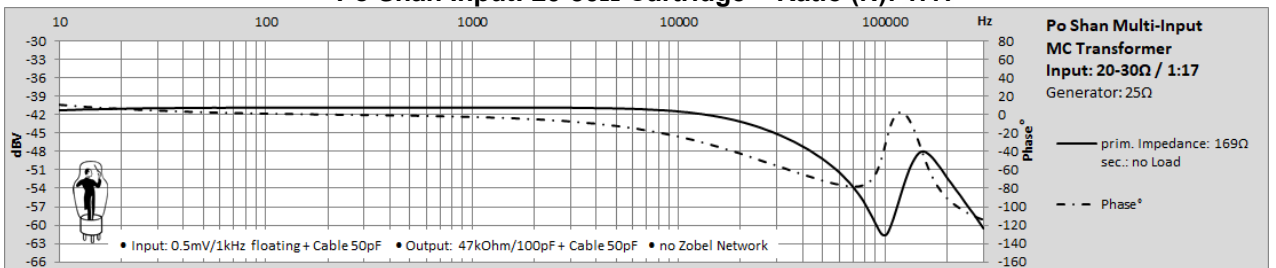


Input: 0.5mV_{RMS}/35Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)



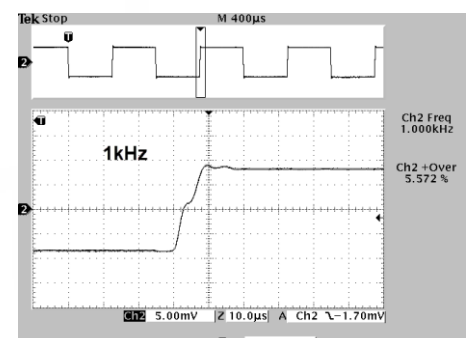
Input: 0.5mV_{RMS}/35Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)

Po Shan Input: 20-30Ω Cartridge + Ratio (N): 1:17

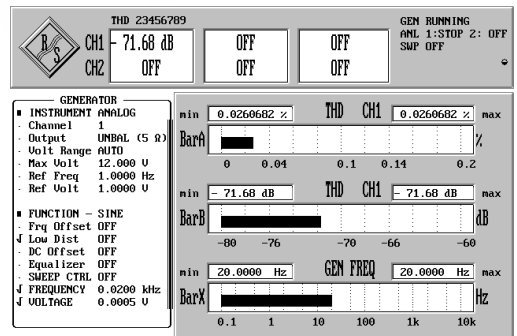
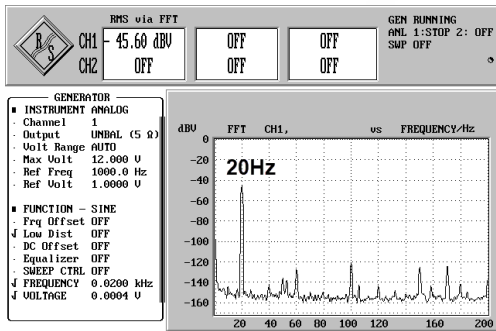


Calculated Load:
 - prim. 169Ω; sec. no Load
 - prim. 250Ω; sec. not possible

Measured:
 - Ratio (N) 1:16.7
 - THD 20Hz~0.026%
 1kHz~0.003%
 10kHz~0.001%
 - Prim. Inductance (L_p)
 568mH/100Hz (Output open)

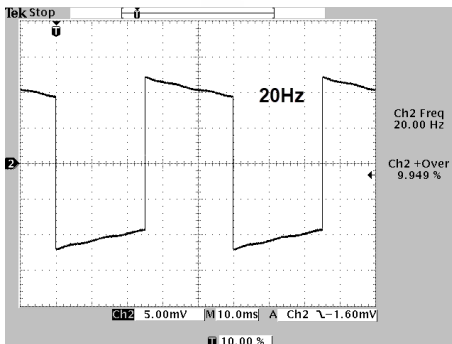
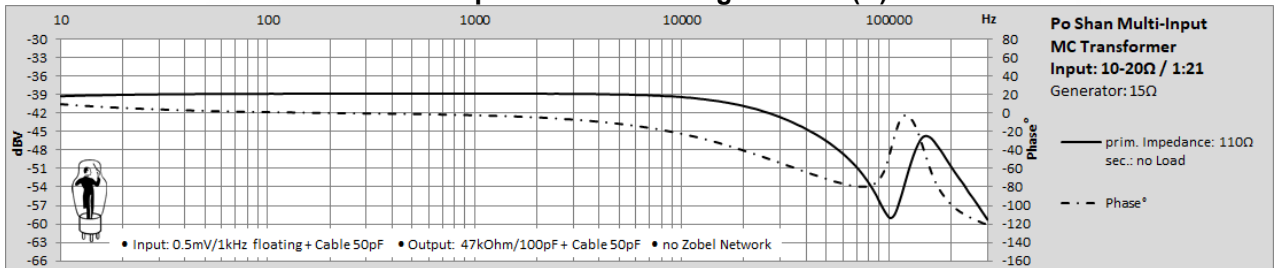


Input: 0.5mV_{RMS}/25Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)



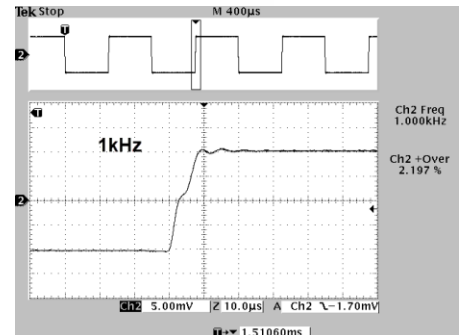
Input: 0.5mV_{RMS}/25Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)

Po Shan Input: 10-20Ω Cartridge + Ratio (N): 1:21

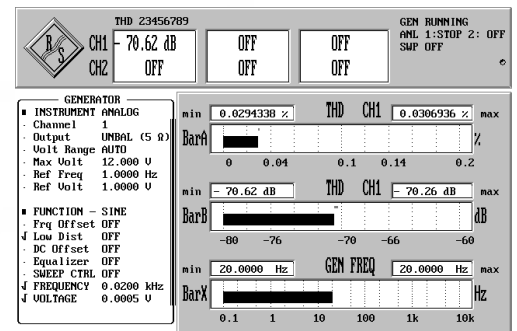
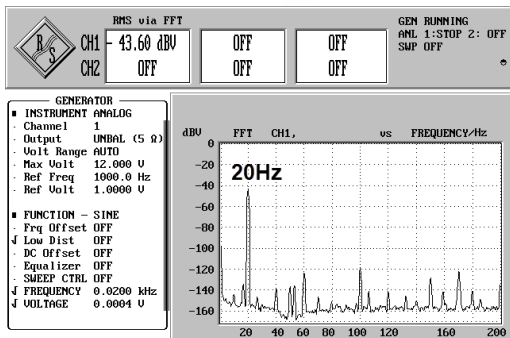


Calculated Load:
- prim. 110Ω; sec. no Load
- prim. 150Ω; sec. not possible

Measured:
- Ratio (N) 1:20.7
- THD 20Hz~0.029%
1kHz~0.003%
10kHz~0.001%
- Prim. Inductance (L_p)
317mH/100Hz (Output open)

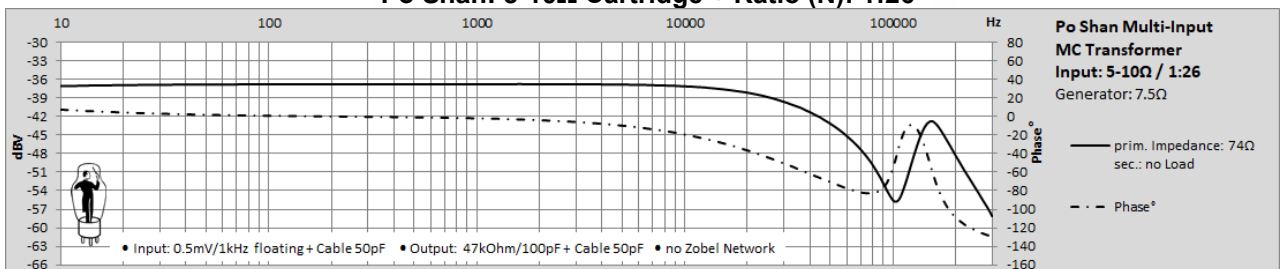


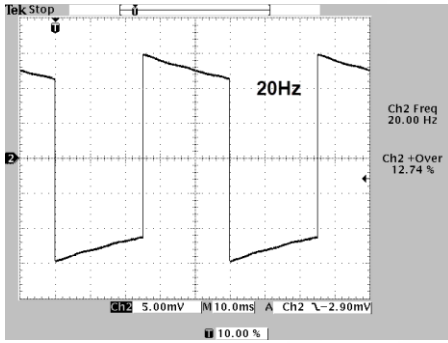
Input: 0.5mV_{RMS}/15Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)



Input: 0.5mV_{RMS}/15Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)

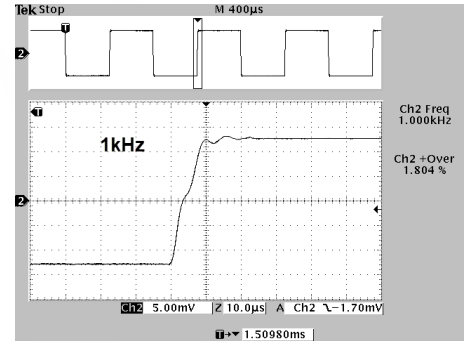
Po Shan: 5-10Ω Cartridge + Ratio (N): 1:26



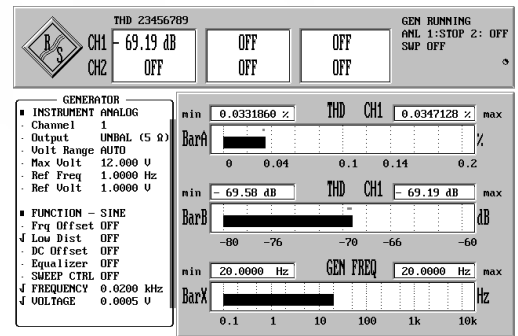
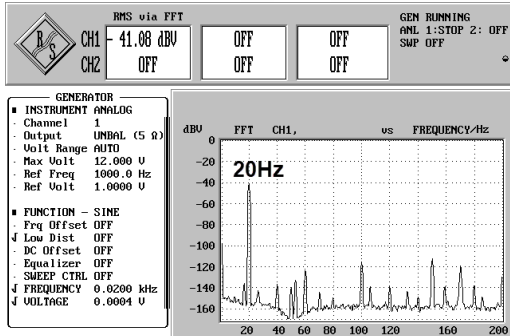


Calculated Load:
 - prim. 74Ω; sec. no Load
 - prim. 75Ω; sec. not possible

Measured:
 - Ratio (N) 1:25.2
 - THD 20Hz~0.033%
 1kHz~0.002%
 10kHz~0.001%
 - Prim. Inductance (L_P)
 140mH/100Hz (Output open)

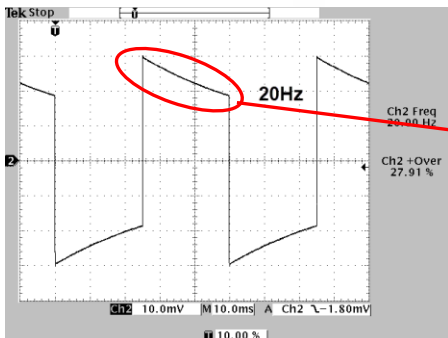
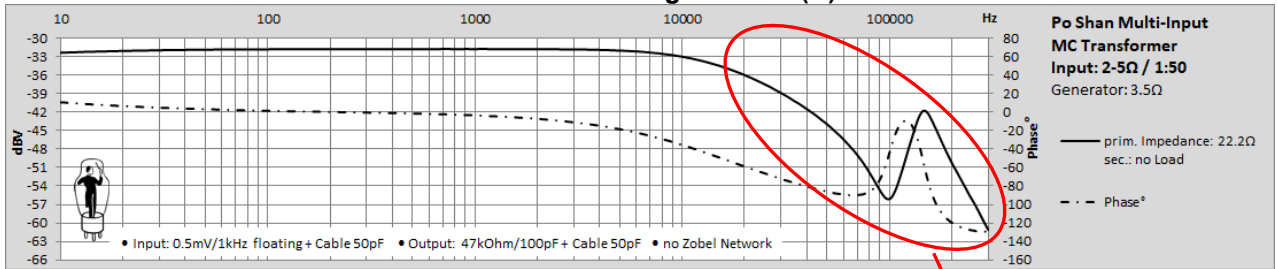


Input: 0.5mV_{RMS}/7.5Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)



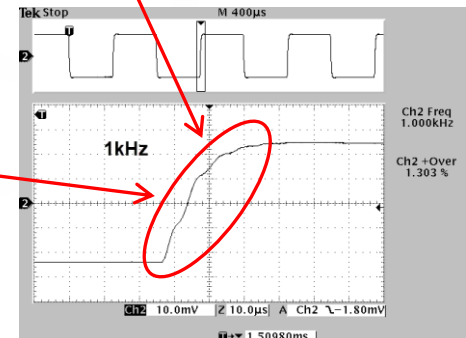
Input: 0.5mV_{RMS}/7.5Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)

Po Shan: 2-5Ω Cartridge + Ratio (N): 1:50

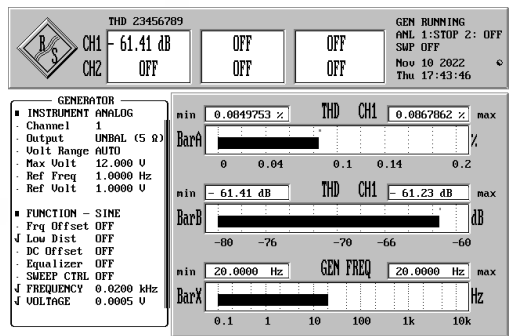
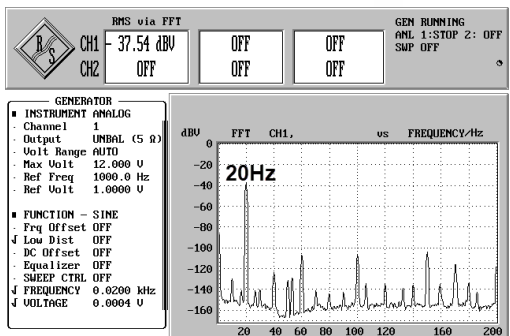


Calculated Load:
 - prim. 22.2Ω; sec. no Load
 - prim. 25Ω; sec. not possible

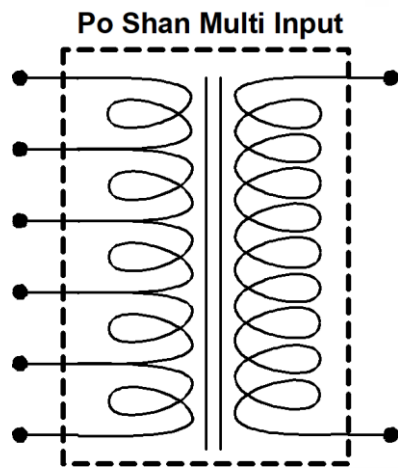
Measured:
 - Ratio (N) 1:46.0
 - THD 20Hz~0.085%
 1kHz~0.002%
 10kHz~0.001%
 - Prim. Inductance (L_P)
 140mH/100Hz (Output open)



Input: 0.5mV_{RMS}/3.5Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)



Input: 0.5mV_{RMS}/3.5Ω + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)



Equipment: Rohde & Schwarz UPL; Rohde & Schwarz APN62; Tektronix TD3032B; Digilent Discovery2; UNI-T; UT61
Version: 4.6 kurtblum.com