AC current through coil: 0.08 Amps

Amplitude of B-field: 4.13E-3

We use the actual voltage throughout our calculations

Expected B-field inside outer: 3.77E-3, bit off from measured B-field

As the inner coil was inserted the voltage increased

Induced voltage on inner coil: at 50Hz is 0.029 Volts, at 100Hz is 0.058 Volts