Ch 3: Input from fast pulser. "T" at oscilloscope input
Ch 4: Output from transformer. Active probe.

143W || transformer input : 95.3W on transformer output.
Transformer turns ratio (p:s) 18:19 because of the way the connector
is located in the middle of the toroid, and the way the shield terminates
on the connector pins (effectively unwinding one turn).
The implied impedance reflected to the input of this transformer is
about 77W. The predicted input impedance is about 85W. The real world
matches theory rather poorly... (10%).

The spike on the incident edge of the pulse indicates that the transformer
has some inductive reactance. This inductive reactance is often due to
leakage inductance. TR = 5E-9 x 50 = 250nH. The primary inductance
is about 2.6 mH. 0.01% leakage inductance is quite good.

This transformer configuration is not what the DOM system design calls
for, nevertheless, it is an interesting exercise.