

RF Power Output Measurements

The equipment was configured as below shown in Figure 1. The loss through the directional coupler was calibrated at the channel center frequency of 201 MHz. Average power was read on the Agilent E4418B Power Meter.

Setup for Output Power and Spurs and Harmonics Measurements

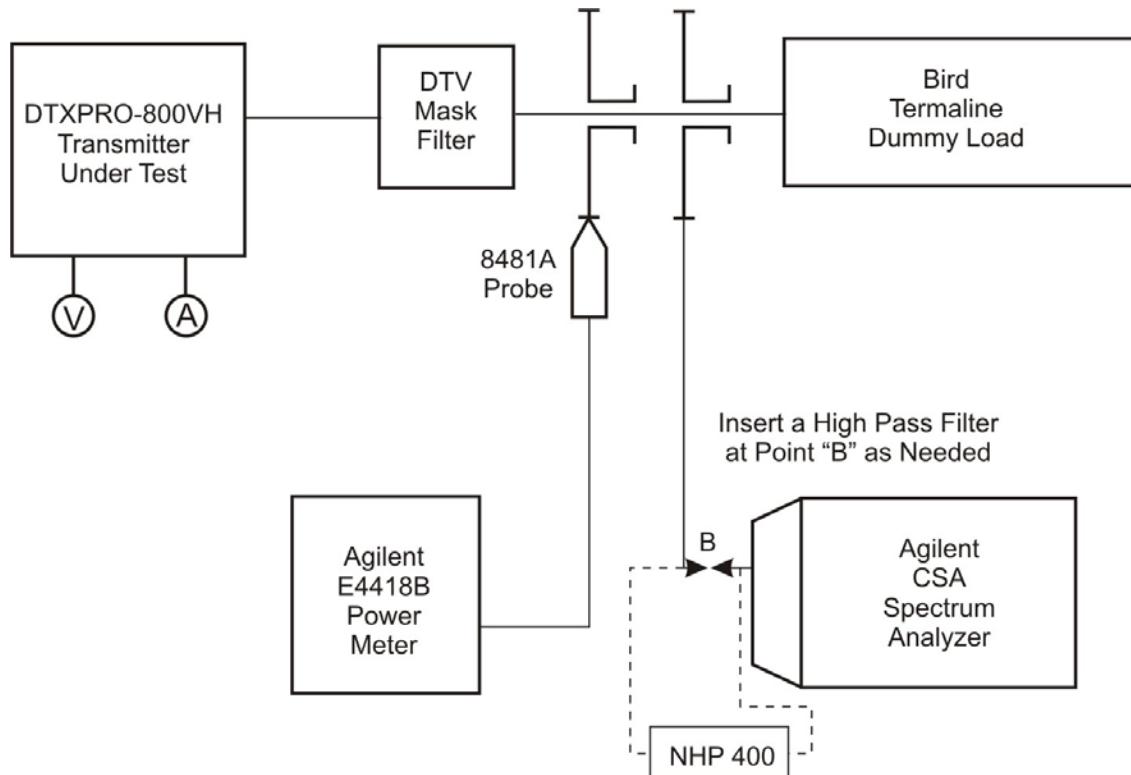


FIGURE 1

The loss of the directional coupler was calibrated to be 52 dB.

Measurement Of Nominal Transmitter Power

The transmitter was energized in the test configuration above and the power was read on the Agilent E4418B Power Meter. The indicated reading is shown below.



Calculation of Output Power: An offset of 52dB, equal to the directional coupler loss, entered into the E4418B allows direct display of output power in watts average power. Measured transmitter final voltage is 50VDC and final current is 60 amps.

Low Power Operation

The transmitter was energized in the test configuration above and the power was read on the Agilent E4418B power meter. The indicated reading is shown next.



Calculation of Output Power: An offset of 52dB, equal to the directional coupler loss, entered into the E4418B allows direct display of output power in watts average power. Measured transmitter final voltage is 50VDC and final current is 45 amps.