

ECE 443 APPLIED ELECTRONICS - LAB 4 TRANSMITTER POWER

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Abstract—This lab experiment aims to teach students how to measure the transmitter power output.

1. METHODS

Parts: $R = 1k\Omega$, $R = 100k\Omega$, $C=1\mu F$

1. In the oscillator, connect a $R = 1k\Omega$ and $R = 100k\Omega$ resistor at the output (Fig.1).
2. Observe the amplitude of the output waveform and draw it in your

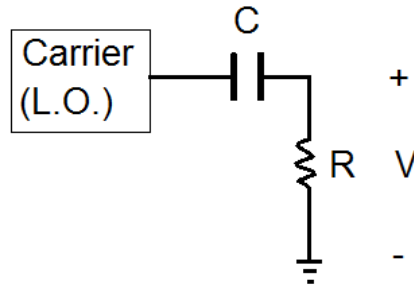


Figure 1. a)Circuit Diagram

lab notebook for each resistor.

3. Calculate the output power from the measurements. Did the resistors heat up ?
4. Use a power amplifier and repeat the previous steps. Make a conclusion.