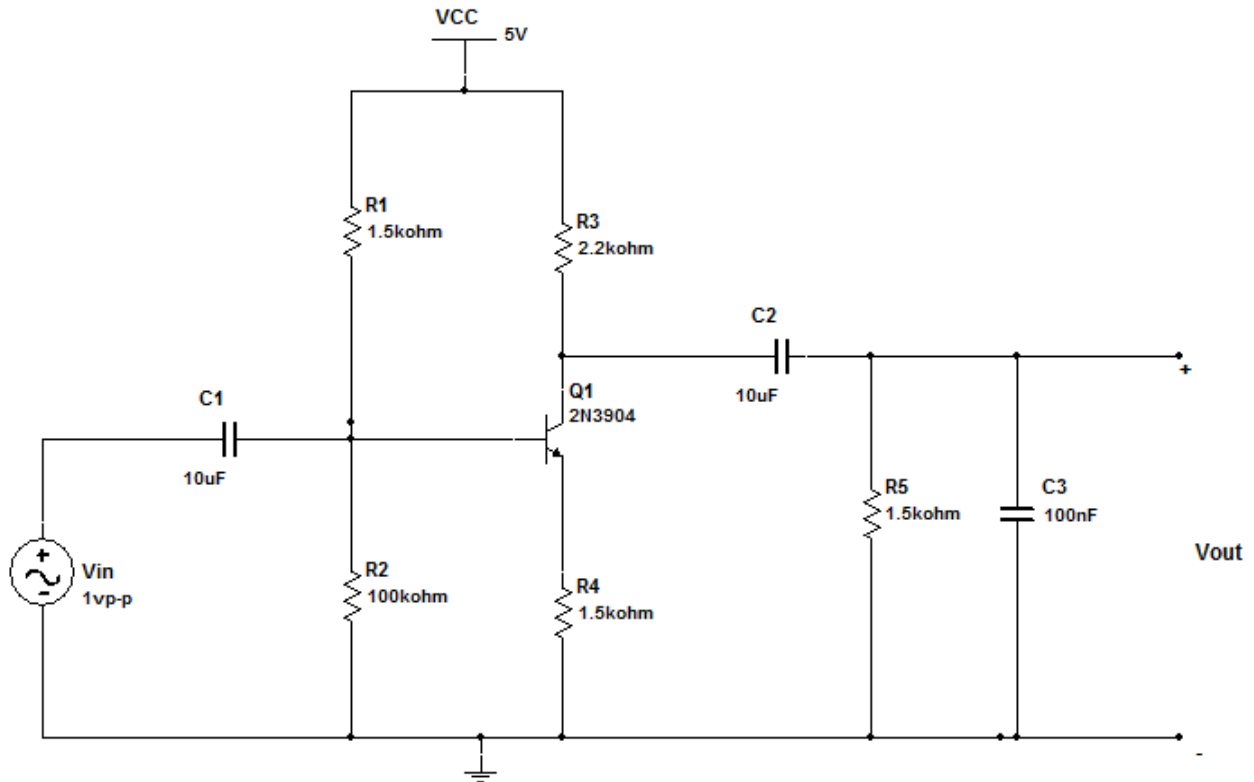


Electronics Lab
Lab Session 5: Frequency response

<i>Students Names</i>	<i>Sandy Ghassan fathi</i>	<i>Rami yahia hasan</i>
<i>ID</i>	<i>1834471</i>	<i>1838264</i>

Assemble the circuit shown below then fill the table:



<i>F</i>	<i>20Hz</i>	<i>40Hz</i>	<i>80Hz</i>	<i>100Hz</i>	<i>300Hz</i>	<i>500Hz</i>	<i>1K</i>	<i>4K</i>	<i>10K</i>	<i>30K</i>
<i>Vout Peak</i>	196.088 mv	323.185 mv	405.321 mv	419.758 mv	451.387 mv	454.707 mv	449.507 mv	401.27 mv	253.301 mv	107.827 mv
<i>Av</i>	196.088 mv	323.185 mv	405.321 mv	419.758 mv	451.387 mv	454.707 mv	449.507 mv	401.27 mv	253.301 mv	107.827 mv

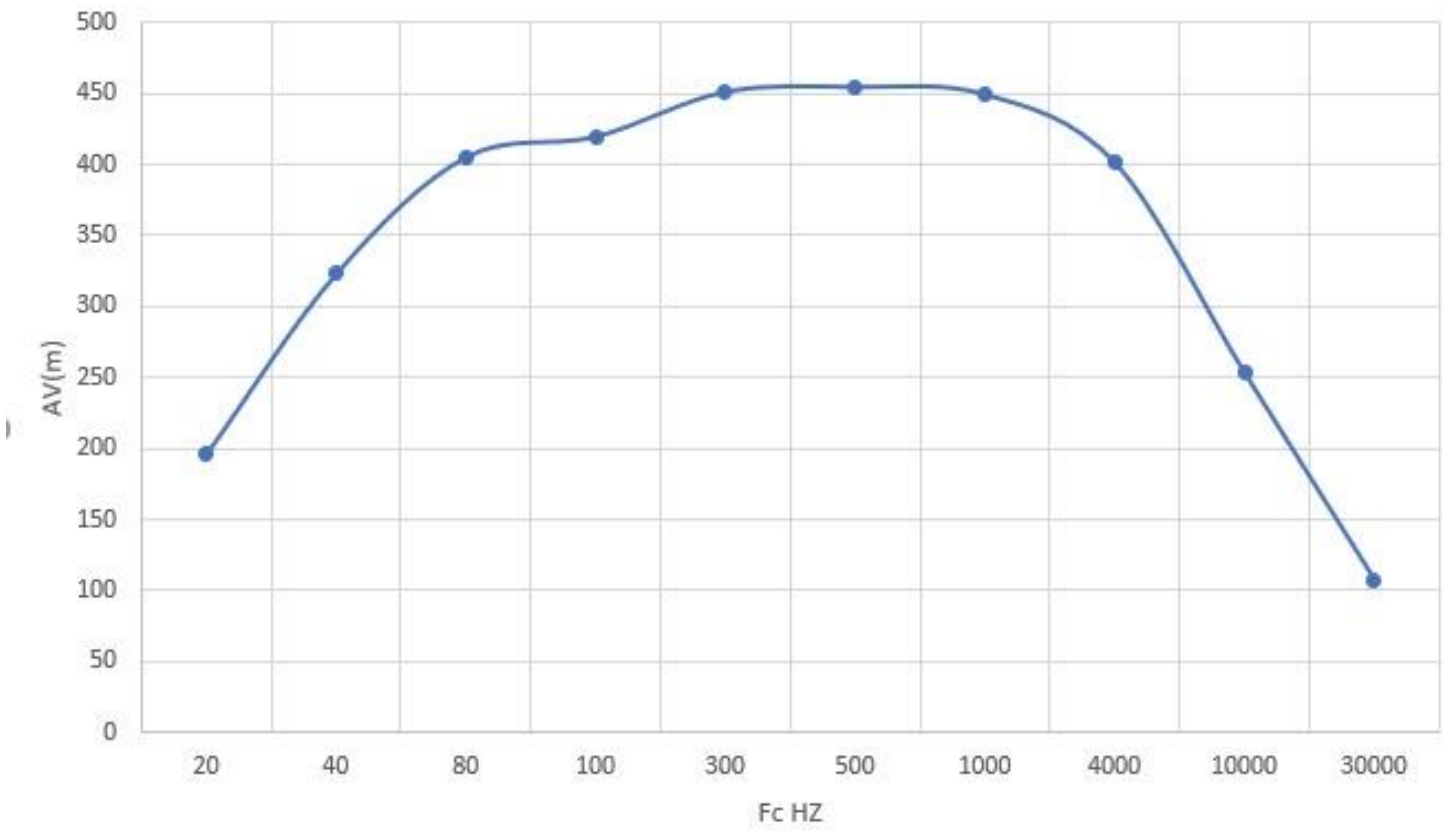
b) Determine the following

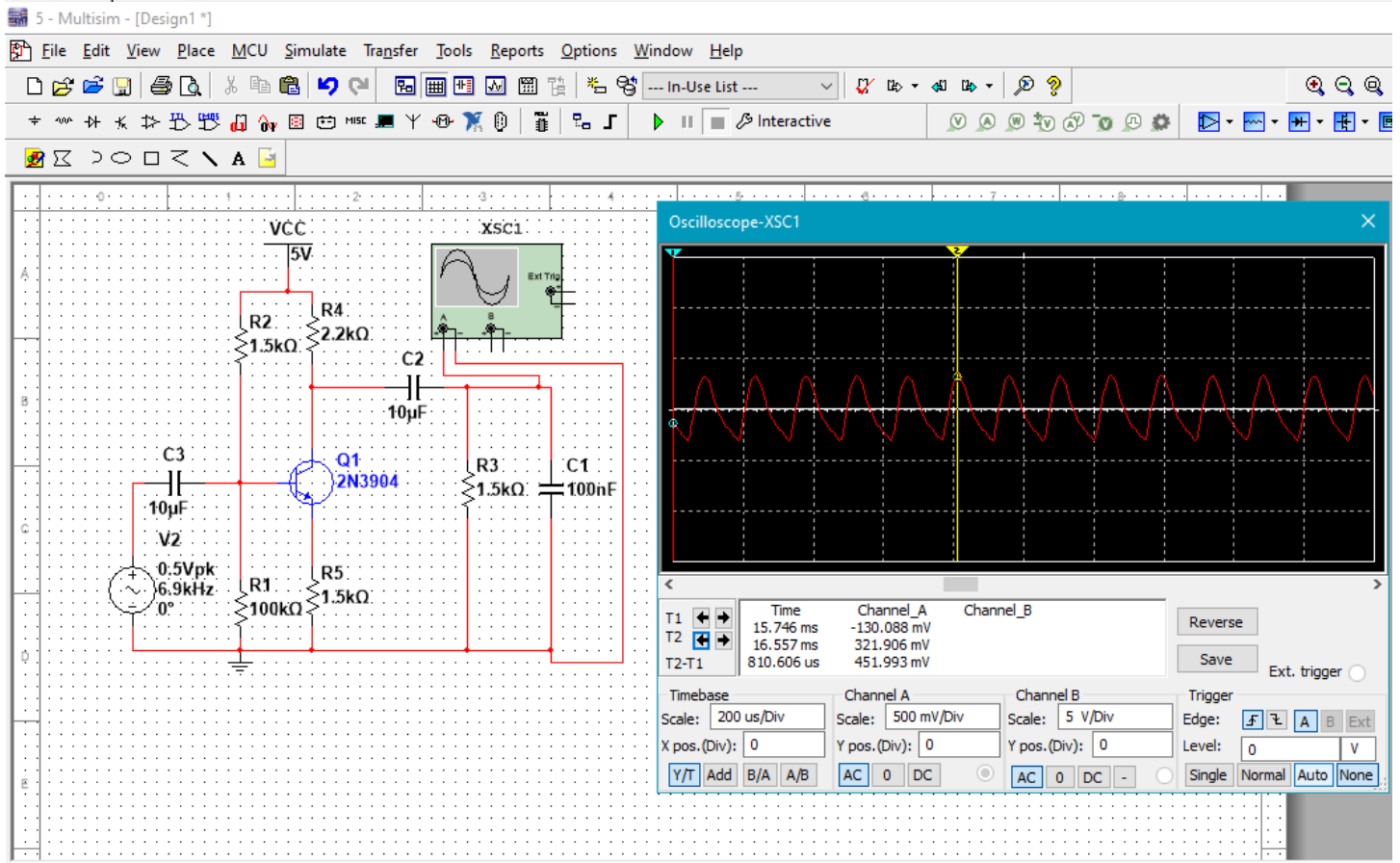
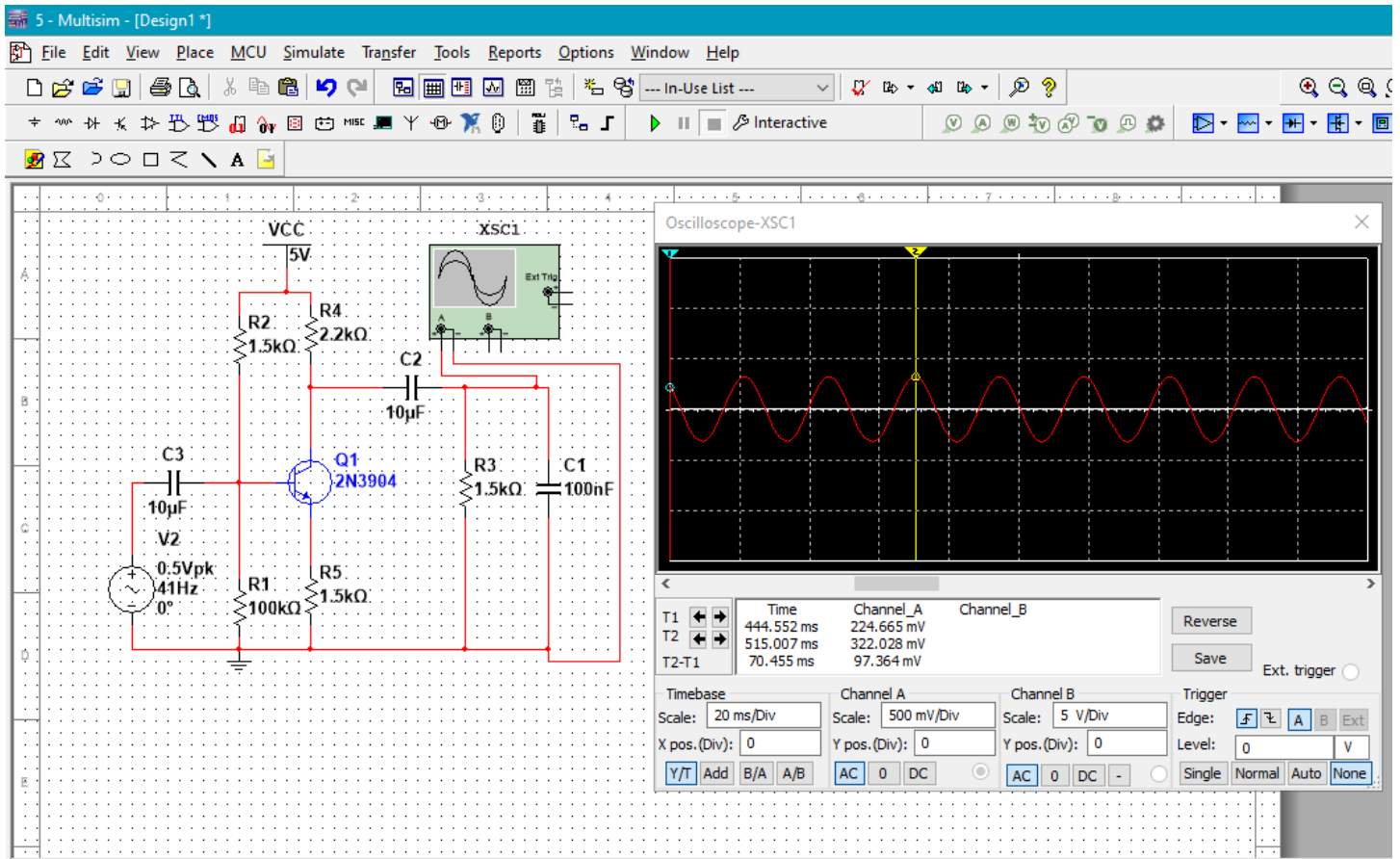
- The lower cut off frequency (FL) = **41 HZ**
- The higher cut off frequency (FH) = **6.9k HZ**

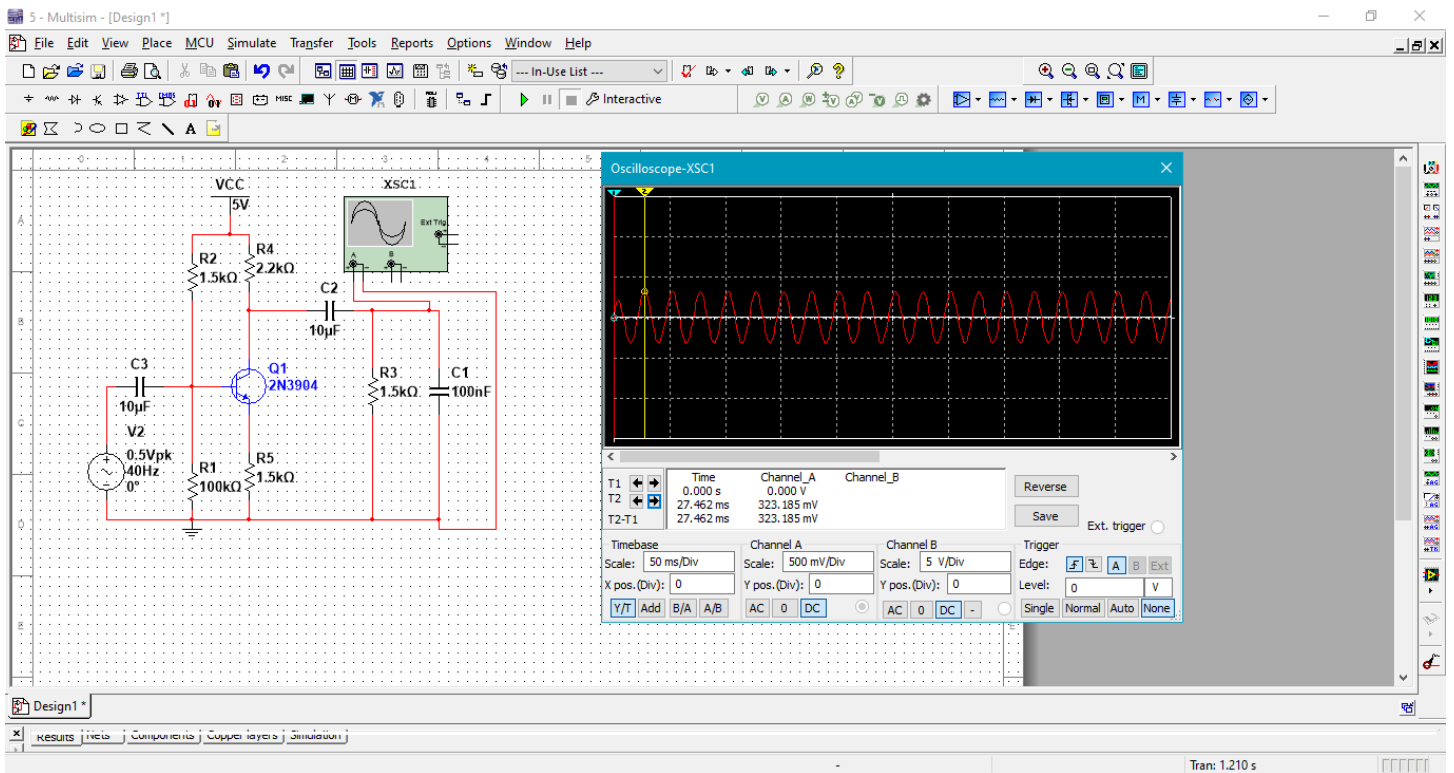
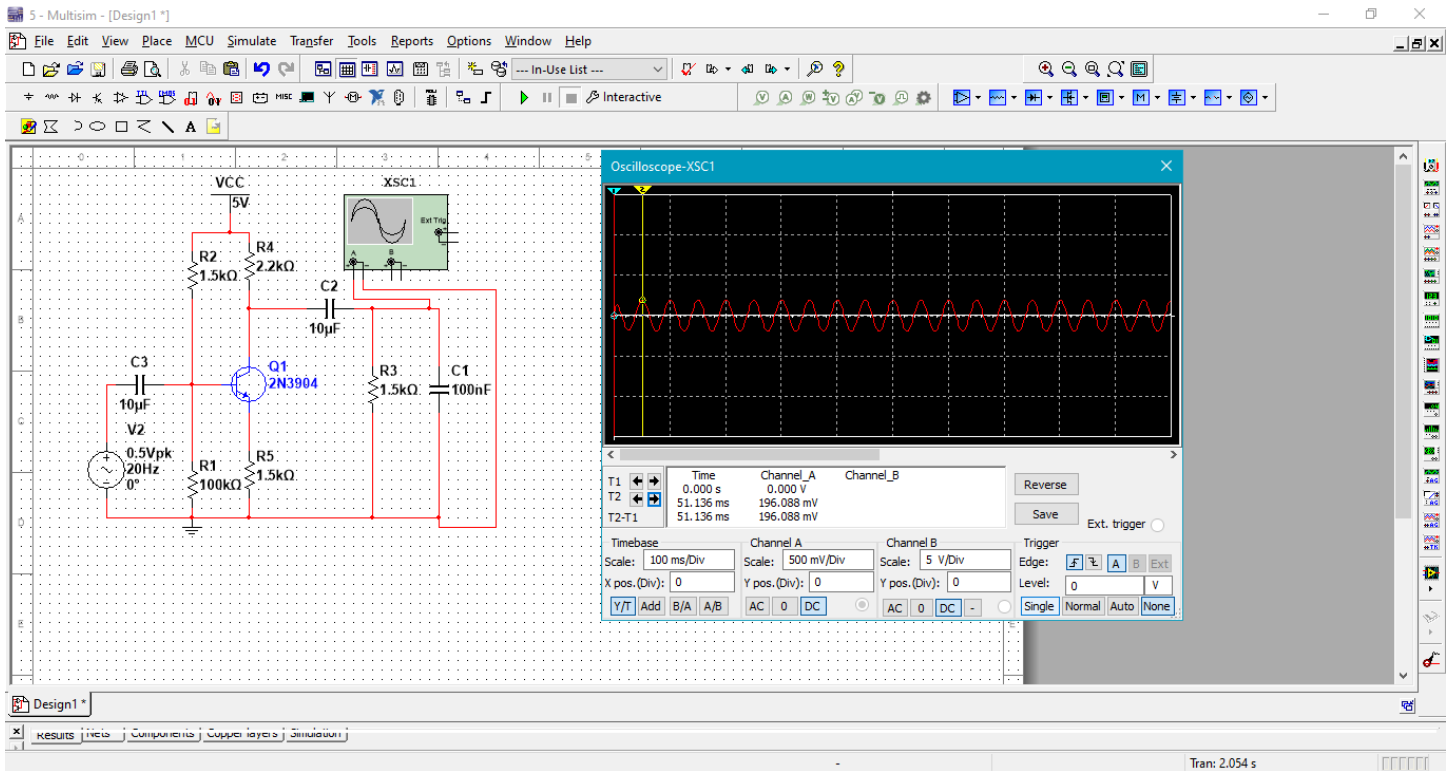
3. The bandwidth of the amplifier = $f_H - f_L = 6859$

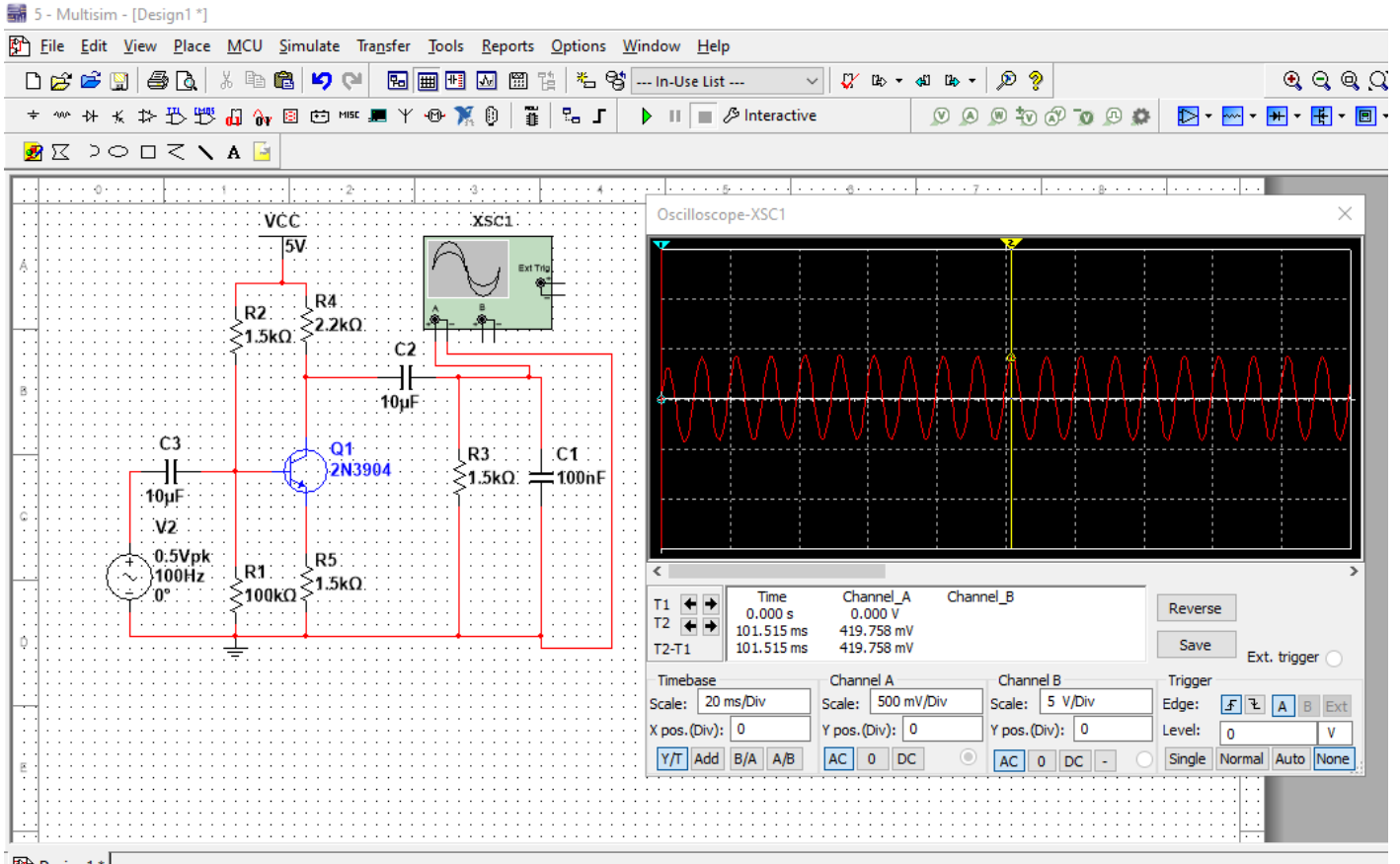
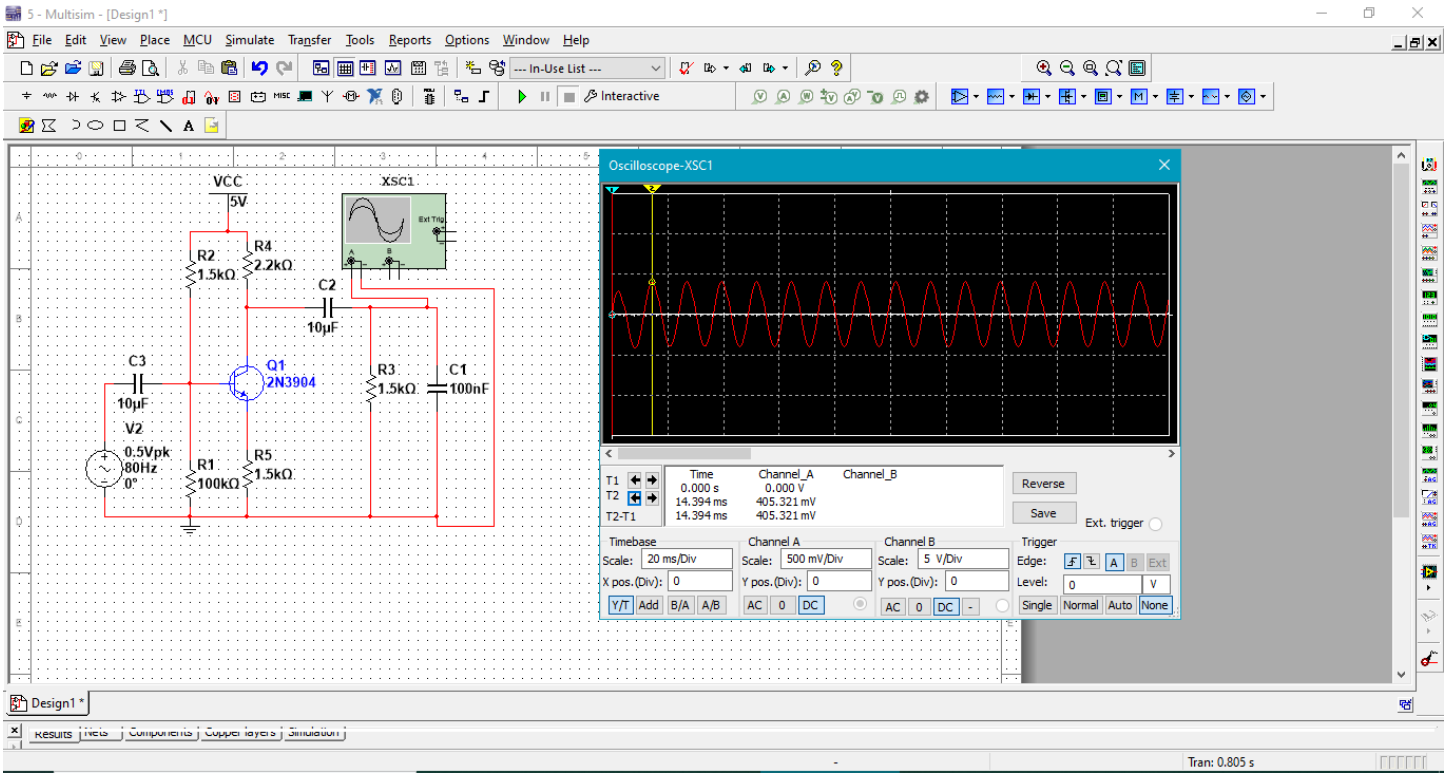
4. The midband gain (highest gain) of the amplifier = **454.707 mv**

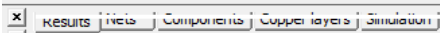
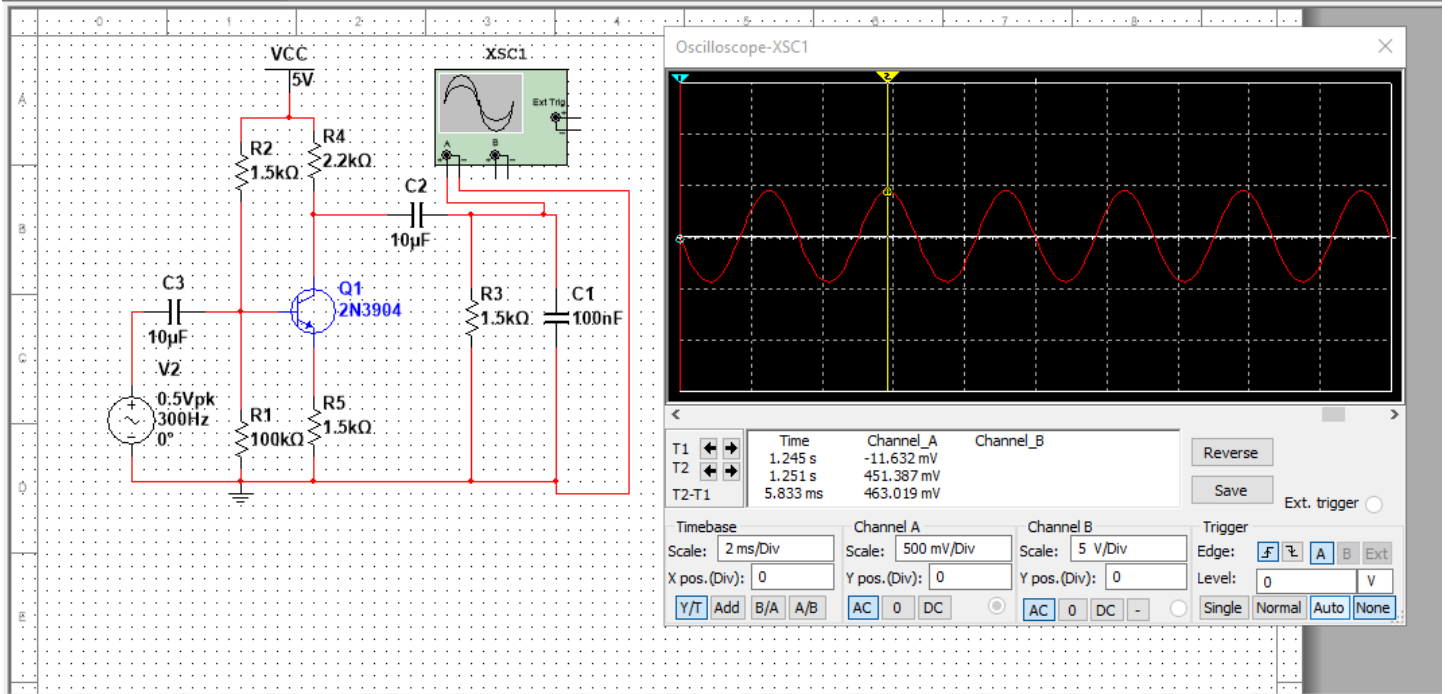
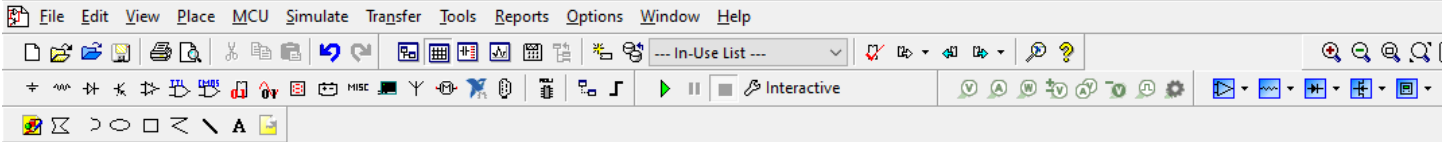
Plot the resulting frequency response (A_v against F) showing the result found in 1 through











For Help, press F1

