

五、数据记录:

组号: _____ 姓名 _____

1、测定串联电路的谐振曲线

$C =$ _____ $L =$ _____

f / Hz	$R_1 = 100 \Omega$		$R_2 = 200 \Omega$		f / Hz	$R_1 = 100 \Omega$		$R_2 = 200 \Omega$	
	u / mV	i / mA	u / mV	i / mA		u / mV	i / mA	u / mV	i / mA
1600					2400				
1700					2450				
1800					2500				
1900					2550				
2000					2600				
2100					2700				
2150					2800				
2200					2900				
2250					3000				
2300					3100				
2350					3200				

$R_1 = 100 \Omega$ 时:

共振频率的理论值 $f_0 =$ _____; 共振频率的测量值 $f'_0 =$ _____; $U_R =$ _____

达到共振时: $U_L =$ _____ $U_C =$ _____

带宽: $\frac{U_R}{\sqrt{2}} =$ _____ 时, $f_1 =$ _____; $f_2 =$ _____

$R_2 = 200 \Omega$ 时:

共振频率的理论值 $f_0 =$ _____; 共振频率的测量值 $f'_0 =$ _____; $U_R =$ _____

达到共振时: $U_L =$ _____ $U_C =$ _____

带宽: $\frac{U_R}{\sqrt{2}} =$ _____ 时, $f_1 =$ _____; $f_2 =$ _____

