UM-SJTU PHYSICS LABORATORY VP241 DATA SHEET (EXERCISE 5)

Name: Haaming Zhu	Student ID: <u>520021910145</u>			
Group: <u>0</u>	Date:			
NOTICE. Please remember to show the data sheet to your instructor before leaving the laboratory. The data sheet will not be accepted if the data are recorded with pencil or modified by correction fluid/tape. If a mistake is made in recording a datum item, cancel the wrong value by drawing a fine line through it, record the correct value legibly, and ask your instructor to confirm the correction. Please remember to take a record of the precision of the instruments used. You are required to hand in the original data with your lab report, so please keep the data sheet properly.				
$\frac{R \cancel{9}.\cancel{1}\cancel{5}\cancel{N}}{C\cancel{9}\cancel{9}\cancel{9}\cancel{4}\cancel{n}\cancel{1}} \pm \underline{v.v}\cancel{[n]}$ $Table 1. T_{1/2} \text{ measurement}$	$\frac{10}{100}$ $\frac{10}{100}$ $\frac{10}{100}$ $\frac{1000}{100}$			
$\frac{R \cancel{9} \cancel{1} \cancel{5} \cancel{5}}{L \cancel{0} \cancel{0} \cancel{0}} \pm \cancel{0} \cancel{0} \cancel{0} \cancel{0} \cancel{0} \cancel{0} \cancel{0} \cancel{0}$	$\frac{10}{5 \pm 0.00} [EFF E 4.000 V] \pm 0.00 [V]}{T_{1/2} 128.0 [MS] \pm 0.01}$ $\frac{10}{5 \pm 0.00} \pm 0.01$ $\frac{10}{5 \pm 0.00} \pm 0.01$ $\frac{10}{5 \pm 0.00} = 0.01$ $\frac{10}{5 \pm 0.00} = 0.00$			
L D. D $[H] \pm \alpha$ $[H]$, C G	[n], E4,000[V] ± 0.001[V], f 1.000 [KHZ+ 0.00][KHZ+			
U=0.570 20. 100	MS] ± 中 [Mb] なり a critically damped RLC series circuit.			
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. I	Instructor's signature:			

	R	115 [20] ± [20] [2]	LO.01 [H] ±	0 [H], C99-24(nf) + a0 [nf]	
	fo E DIRECT A 2001 (KID & 4,000 (V) + 400 (V)				
		$U_R[V] \pm p.v[V]$	10	f [khz ± 2.00+ [kh] z	
	_1	0.39	21.420	10	
	2	a78	11.120		
	3	1-17	8.600		
	4	1.56	7.420		
	5	1.95	6.730		
	6	234	6.300		
	7	2.73	6.000		
	8	3.12	5.700		
	9	3.5)	5,450		
-	10	3.66	5,340		
	11	5.029 3.90	5.029		
0.94	12	3.66	4.710		
0-9	13	3.51	4. 640		
al	14	3.12	4.430		
27	15 16	2.73	4,230		
26	17	2.4	4.010		
25		1.95	3.7 4 0		
24	18 19	1,5b	3.400		
- 1	20	<u>1,17</u>	2,920		
27	21	0.78	21/80		
21	21	0.89	1.00		

Table 4. Measurement data for the \mathcal{U}_R vs. f dependence for a RLC resonant circuit.

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