Wrocław University of Science and Technology

ELECTRIONIC MEASUREMENTS LABORATORY REPORT

Chair of Electronic and Photonic Metrology ELECTRIONIC MEASUREMENTS LABORATORY

Theme of class: MEASUREMET OF VOLTAGE AND CURRENT SOURCE PARAMETERS

Group no: 1

Students: Date of class: 2023-01-09

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1 Introduction

- 1.1 Theory
- 1.2 Equipment

2 Experiment

2.1 Measurement of voltage source parameters

 $V_o = 5.31615\,\mathrm{V}$

$R_L[\Omega]$	V[V]	$\frac{V}{V_o}$	Vp - p[mV]	$I[\mathrm{mA}]$
10000	5.31131	0.99909	19.6	0.53113
9000	5.31236	0.99929	18	0.59026
8000	5.31491	0.99977	18.4	0.66436
7000	5.315501	0.99988	19.2	0.75936
6000	5.31475	0.99974	18.8	0.88579
5000	5.3145	0.99969	18	1.06290
4000	5.31252	0.99932	16.4	1.32813
3000	5.31252	0.99932	20.4	1.77084
2000	5.30828	0.99852	18.8	2.65414
1000	5.31172	0.99917	18	5.31172
900	5.31169	0.99916	19.6	5.90188
800	5.31252	0.99932	17.2	6.64065
700	5.31295	0.99940	19.6	7.58993
600	5.31366	0.99953	15.2	8.85610
500	5.31247	0.99931	17.6	10.62494
400	5.14929	0.96861	50.4	12.87323
300	4.92745	0.92688	100	16.42483

Table 1:

${\bf 2.2}\quad {\bf Measurement\ of\ current\ source\ parameters}$

3 Conclusion