

RF EXPOSURE REPORT

 REPORT NO.:
 SA120328C18A

 MODEL NO.:
 T600N

 FCC ID:
 W6R-T600N

 RECEIVED:
 Mar. 28, 2012

 TESTED:
 Mar. 31 ~ Dec. 03, 2012

 ISSUED:
 Dec. 06, 2012

APPLICANT: Rosewill Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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- **TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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TABLE OF CONTENTS

RELEA	ASE CONTROL RECORD	3
1.	CERTIFICATION	4
2.	RF EXPOSURE	5
2.1	LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	5
2.2	MPE CALCULATION FORMULA	5
2.3	CLASSIFICATION	5
2.4	CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	6



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120328C18A	Original release	Dec. 06, 2012



1. CERTIFICATION

PRODUCT:802.11abgn RouterMODEL NO.:T600NBRAND:RosewillAPPLICANT:Rosewill Inc.TESTED:Mar. 31 ~ Dec. 03, 2012TEST SAMPLE:ENGINEERING SAMPLESTANDARDS:FCC Part 2 (Section 2.1091)FCC OET Bulletin 65, Supplement C (01-01)IEEE C95.1

The above equipment (model: T600N) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY	:, DATE :	Dec. 06, 2012
APPROVED BY	: Ken Liu / Manager	Dec. 06, 2012



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCYELECTRIC FIELDRANGE (MHz)STRENGTH (V/m)				AVERAGE TIME (minutes)		
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE						
300-1500			F/1500	30		
1500-100,000			1.0	30		

F = Frequency in MHz

2.2 MPE calculation Formula

 $Pd = (Pout^*G) / (4^*pi^*r^2)$

where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



FREQUENCY BAND (MHz)	MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
	802.11b	18.30	5	20	0.043	1
2412 2462	802.11g	25.65	5	20	0.231	1
2412-2462	802.11n (20MHz)	25.40	5	20	0.218	1
	802.11n (40MHz)	25.90	5	20	0.245	1
	802.11a	13.71	3.5	20	0.010	1
5180-5240	802.11n (20MHz)	14.30	3.5	20	0.012	1
	802.11n (40MHz)	16.20	3.5	20	0.019	1
	802.11a	24.43	3.5	20	0.124	1
5745-5825	802.11n (20MHz)	28.00	3.5	20	0.281	1
	802.11n (40MHz)	28.00	3.5	20	0.281	1

2.4 Calculation result of maximum conducted power

NOTE:

CONCULSION:

Only 2.4 and 5GHz can transmit simultaneously, 2.4 and 2.4GHz does not. The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

1. WLAN 2.4G + WLAN 5.0G = 0.0.245 + 0.281 = 0.526

Therefore, the maximum calculation of this situation is 0.526, which is less than the "1" limit.