

# RF EXPOSURE REPORT

**REPORT NO.:** SA120823C31  
**MODEL NO.:** N6  
**FCC ID:** V7TN6  
**RECEIVED:** Aug. 23, 2012  
**TESTED:** Aug. 29 ~ Nov. 09, 2012  
**ISSUED:** Nov. 12, 2012

**APPLICANT:** SHENZHEN TENDA TECHNOLOGY  
CO.LTD

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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  
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R.O.C.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120823C31	Original release	Nov. 12, 2012

## 1. CERTIFICATION

**PRODUCT:** Wireless-N Dual-Band Router  
**MODEL NO.:** N6  
**BRAND:** Tenda  
**APPLICANT:** SHENZHEN TENDA TECHNOLOGY CO.LTD  
**TESTED:** Aug. 29 ~ Nov. 09, 2012  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**STANDARDS:** **FCC Part 2 (Section 2.1091)**  
**FCC OET Bulletin 65, Supplement C (01-01)**  
**IEEE C95.1**

The above equipment (model: N6) 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** : Jemma Yang , **DATE** : Nov. 12, 2012  
Jemma Yang / Specialist

**APPROVED BY** : Ken Liu , **DATE** : Nov. 12, 2012  
Ken Liu / Manager

## 2. RF EXPOSURE

### 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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**.

### 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	23.78	8.01	20	0.3004	1
5180-5240	15.42	8.01	20	0.0438	1
5745-5825	24.52	8.01	20	0.3563	1