



# RF EXPOSURE REPORT

**REPORT NO.:** SA140624C24

**MODEL NO.:** TEW-722BRM

**FCC ID:** XU8TEW722BRM

**RECEIVED:** Jun. 24, 2014

**TESTED:** Jun. 20 ~ Jul. 17, 2014

**ISSUED:** Jul. 18, 2014

**APPLICANT:** TRENDNET, Inc.

**ADDRESS:** 20675 Manhattan Place, Torrance, CA 90501,  
USA

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

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New Taipei City, Taiwan, R.O.C.

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140624C24	Original release.	Jul. 18, 2014



## 1. CERTIFICATION

**PRODUCT:** N300 Wireless ADSL 2+ Modem Router  
**MODEL:** TEW-722BRM  
**BRAND:** TRENDnet  
**APPLICANT:** TRENDNET, Inc.  
**TESTED:** Jun. 20 ~ Jul. 17, 2014  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**STANDARDS:** **FCC Part 2 (Section 2.1091)**  
**KDB 447498 D03**  
**IEEE C95.1**

The above equipment (model: TEW-722BRM) 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 : Suntee Liu , DATE : Jul. 18, 2014  
Suntee Liu / Specialist

APPROVED BY : Ken Liu , DATE : Jul. 18, 2014  
Ken Liu / Senior 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)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE CALCULATION FORMULA

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

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

MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
26.71	7.01	20	0.469	1

**Note:** Directional gain = 4dBi + 10log(2) = 7.01dBi

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