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RF EXPOSURE REPORT

REPORT NO.: SA990816C22C

MODEL NO.: TEW-658BRM

FCC ID: XU8TEW658BRM

ACCORDING: FCC Guidelines for Human Exposure
IEEE C95.1

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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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Apr. 25, 2011



1. CERTIFICATION

PRODUCT: 300Mbps Wireless N ADSL 2/2+ Modem Router

MODEL: TEW-658BRM

BRAND: TRENDnet

APPLICANT: TRENDNET, Inc.

TESTED: Sep. 01 ~ Sep. 15, 2010 (For test mode A)
Apr. 12 ~ Apr. 14, 2011 (For test mode B)

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Guidelines for Human Exposure
IEEE C95.1

The above equipment (model: TEW-658BRM) 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: Apr. 25, 2011
Pettie Chen / Specialist

APPROVED BY :  , DATE: Apr. 25, 2011
Gary Chang / Assistant Manager

2. RF EXPOSURE LIMIT

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 ²)	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

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 ²)	LIMIT (mW/cm ²)
2412-2462	27.3	2	20	0.170	1.00