

RF EXPOSURE REPORT

REPORT NO.: SA120531E03

MODEL NO.: RV215W

FCC ID: N89-RV215W

RECEIVED: Apr. 26, 2012

TESTED: June 11, 2012

ISSUED: July 25, 2012

APPLICANT: CyberTAN Technology, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd.,
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120531E03	Original release	July 25, 2012

1. CERTIFICATION

PRODUCT: Wireless-N VPN Firewall
BRAND NAME: CISCO
MODEL NO.: RV215W
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: CyberTAN Technology, Inc.
TESTED DATE: June 11, 2012
STANDARDS: FCC Part 2: 2011, (Section 2.1091)
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (Model: RV215W) 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:** July 25, 2012
(Elsie Hsu, Specialist)

APPROVED BY :  , **DATE:** July 25, 2012
(May Chen, Deputy Manager)

2. RF EXPOSURE LIMIT

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

3. MPE CALCULATION FORMULA

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

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

4. 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**.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

For WLAN:

FREQUENCY BAND (MHz)	CONDUCTED POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm ²)	LIMIT (mW/cm ²)
2412-2462	408.348	2	20	0.12875	1.00

For USB Cellular Modem:

DEVICE	MAX EIRP (mW)	MAX EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/ cm ²)	LIMIT (mW/cm ²)
USB Cellular Modem	1995.262	33.00	20	0.397	0.549

This product can operate with a plug-in USB Cellular Modem which has maximum of 2W EIRP output power.

CONCLUSION:

Based on the MPE calculation of the collocated radios listed in this report, it has demonstrated that both the WLAN and USB Cellular Modem can transmit simultaneously and still maintain the minimum user safe distance of 20cm.

The MPE calculation formula is:

$$CPD_1 / LPD_1 + CPD_2 / LPD_2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

Therefore, the worst-case situation is $0.12875 / 1 + 0.397 / 0.549 = 0.852$, which is less than "1". This confirmed that the device comply with FCC 1.1310 MPE limit.

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