



# RF EXPOSURE REPORT

**REPORT NO.:** SA110609C01

**MODEL NO.:** DNUA-93S

**FCC ID:** NKR-DNUA93S

**ACCORDING:** FCC Guidelines for Human Exposure

IEEE C95.1

**APPLICANT:** Wistron NeWeb Corp.

**ADDRESS:** 20 Park Avenue II, Hsinchu Science Park, Hsinchu  
308, Taiwan, R.O.C.

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

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou  
Hsiang, Taipei Hsien 244, Taiwan, R.O.C.

**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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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Jun. 24, 2011



## 1. CERTIFICATION

**PRODUCT:** WLAN 802.11 b/g/n USB Module

**MODEL:** DNUA-93S

**BRAND:** WNC

**APPLICANT:** Wistron NeWeb Corp.

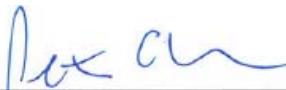
**TESTED:** May 27 ~ Jun. 13, 2011

**TEST SAMPLE:** ENGINEERING SAMPLE

**STANDARDS:** FCC Guidelines for Human Exposure

IEEE C95.1

The above equipment (Model: DNUA-93S) 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: Jun. 24, 2011  
Pettie Chen / Specialist

**APPROVED BY** :  , DATE: Jun. 24, 2011  
Gary Chang / Assistant Manager



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## 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

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

where

Pd = power density in mW/cm<sup>2</sup>

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**.

### 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	26.9	3.31	20	0.209	1