

## RF Exposure Report

**Report No.:** SA160825E02

**FCC ID:** NKR-JAW301

**Test Model:** WFB100S

**Received Date:** Aug. 25, 2016

**Test Date:** Sep. 19, 2016

**Issued Date:** Oct. 05, 2016

**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  
Hsin Chu Laboratory

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### Release Control Record

Issue No.	Description	Date Issued
SA160825E02	Original release.	Oct. 05, 2016

## 1 Certificate of Conformity

**Product:** WiFi PSE adaptor

**Brand:** AT&T

**Test Model:** WFB100S

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Wistron NeWeb Corp.

**Test Date:** Sep. 19 , 2016

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment 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 :** Nico Liu , **Date:** Oct. 05, 2016  
Nico Liu / Specialist

**Approved by :** May Chen , **Date:** Oct. 05, 2016  
May Chen / 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

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

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 Antenna Gain

Ant. No.	Transmitter Circuit	Brand	Model	Antenna Net Gain(dBi)	Frequency range (MHz to MHz)	Antenna Type	Connector Type	Cable Length
1	Chain (0)	NA	NA	3.49	2.4~2.4835	Loop	Murata	NA
2	Chain (1)	NA	NA	3.96	2.4~2.4835	Dipole	i-pex(MHF)	38mm

## 2.5 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	767.471	6.74	20	0.72076	1

NOTE: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 6.74\text{dBi}$

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