

## RF Exposure Report

**Report No.:** SA170221E06

**FCC ID:** XCNUBC1307

**Test Model:** UBC1307

**Received Date:** Feb. 21, 2017

**Test Date:** Mar. 06, 2017

**Issued Date:** May. 23, 2016

**Applicant:** Ubee Interactive Corp.

**Address:** 10F-1, No. 5, Taiyuan 1st St. Jhubei Ci, Hsinchu County 302, Taiwan,  
R.O.C.

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
Taiwan R.O.C.

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### Release Control Record

Issue No.	Description	Date Issued
SA170221E06	Original release.	May. 23, 2016

## 1 Certificate of Conformity

**Product:** Wireless eMTA, Cable Modem

**Brand:** Ubee

**Test Model:** UBC1307

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Ubee Interactive Corp.

**Test Date:** Mar. 06, 2017

**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 :** Cindy Hsin , **Date:** May. 23, 2016  
Cindy Hsin / Specialist

**Approved by :** May Chen , **Date:** May. 23, 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

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

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 Antenna Gain Table

Antenna No	Brand	Model	Antenna Net Gain (dBi)	Frequency range (GHz)	Antenna Type	Connector Type
1	NA	NA	3.41	2.4~2.4835	PCB(Printing)	none (like solder)
2	NA	NA	3.48	2.4~2.4835	PCB(Printing)	none (like solder)

### 3 Calculation Result of Conducted Power

Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	703.137	6.46	20	0.61911	1

Note: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 6.46\text{dBi}$

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