

## RF Exposure Report

**Report No.:** SA121031C18K

**FCC ID:** UL9200N

**Test Model:** WAP-200N

**Series Model:** WBS-200N

**Received Date:** Nov. 01, 2012

**Test Date:** Jan. 04 ~ Jan. 11, 2013

**Issued Date:** Aug. 15, 2017

**Applicant:** PLANET Technology Corporation

**Address:** 10F., No.96, Minquan Rd., Xindian Dist., New Taipei City, Taiwan, R.O.C.

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

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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## Table of Contents

<b>Release Control Record</b> .....	<b>3</b>
<b>1 Certificate of Conformity</b> .....	<b>4</b>
<b>2 RF Exposure</b> .....	<b>5</b>
2.1 Limits for Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula .....	5
2.3 Classification .....	5
<b>3 Calculation Result of Maximum Conducted Power</b> .....	<b>5</b>

### Release Control Record

Issue No.	Description	Date Issued
SA121031C18K	Original release.	Aug. 15, 2017

## 1 Certificate of Conformity

**Product:** 300Mbps 802.11n Outdoor Wireless AP, 300Mbps 802.11n Outdoor Wireless CPE

**Brand:** PLANET

**Test Model:** WAP-200N

**Series Model:** WBS-200N

**Sample Status:** Engineering sample

**Applicant:** PLANET Technology Corporation

**Test Date:** Jan. 04 ~ Jan. 11, 2013


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

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

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 :**  , **Date:** Aug. 15, 2017  
Suntee Liu / Specialist

**Approved by :**  , **Date:** Aug. 15, 2017  
Ken Liu / Senior 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

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

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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 21cm away from the body of the user. So, this device is classified as Mobile Device.

## 3 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> )
WLAN 2412~2462 1TX_802.11g	29.18	5	21	0.472	1
WLAN 2412~2462 2TX_802.11n (HT20)	29.02	8.01	21	0.911	1

Note: Directional gain = 5dBi + 10log(2) = 8.01dBi

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