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## Table of Contents

Relea	ase Control Record	3
1	Certificate of Conformity	4
2	RF Exposure	5
2.2	Limits for Maximum Permissible Exposure (MPE) MPE Calculation Formula Classification	5
3	Calculation Result Of Maximum Conducted Power	5



	Re	lease Control Record	Ŀ	
Issue No.	Description			Date Issued
SA150721C05C	Original release			Aug. 30, 2017
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#### 1 Certificate of Conformity

Product:	900Mbps 802.11ac Outdoor Wireless CPE	
Brand:	PLANET	
Test Model:	WBS-502AC	
Sample Status:	Engineering sample	
Applicant:	PLANET Technology Corporation	
Test Date:	Jul. 22 ~ Aug. 11, 2015	
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 :

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**Date:** Aug. 30, 2017

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Date: Aug. 30, 2017

Approved by :

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

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

where

 $Pd = power density in mW/cm^{2}$ 

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 26cm 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> )
5180-5240	20.77	18.51	26	0.997	1
5745-5825	19.08	18.51	26	0.676	1

Note:

5GHz: Directional gain = 15.5dBi +  $10\log(2) = 18.51$ dB.

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