

## RF Exposure Report

**Report No.:** SA171005D05

**FCC ID:** PY317300390

**Test Model:** R6260

**Received Date:** Oct. 5, 2017

**Test Date:** Oct. 16 ~ Nov. 21, 2017

**Issued Date:** Nov. 22, 2017

**Applicant:** NETGEAR INC.

**Address:** 350 East Plumeria Drive, San Jose, CA 95134, USA

**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.



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### Release Control Record

Issue No.	Description	Date Issued
SA171005D05	Original release.	Nov. 22, 2017

## 1 Certificate of Conformity

**Product:** AC1600 Smart WiFi Router

**Brand:** NETGEAR

**Test Model:** R6260

**Sample Status:** Engineering sample

**Applicant:** NETGEAR INC.

**Test Date:** Oct. 16 ~ Nov. 21, 2017

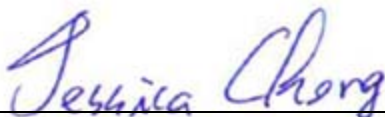
**Standards:** FCC Part 2 (Section 2.1091)

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 :**



**Date:**

Nov. 22, 2017

Jessica Cheng / Senior Specialist

**Approved by :**



**Date:**

Nov. 22, 2017

Rex Lai / Assistant 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 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	27.56	5.89	20	0.4403	1
5180-5240	26.65	7.22	20	0.4850	1
5745-5825	25.39	6.98	20	0.3433	1

### NOTE:

2.4GHz: Directional gain = 5.89dBi

5180-5240MHz: Directional gain = 7.22dBi

5745-5825MHz: Directional gain = 6.98dBi

### Conclusion:

The formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.4403 + 0.4850 = 0.9253

**Therefore the maximum calculations of above situations are less than the “1” limit.**