

RF Exposure Report

Report No.: SA160411C02A

FCC ID: PY316100335

Test Model: EX6200v2

Received Date: Oct. 17, 2016

Test Date: Oct. 27 ~ Nov. 30, 2016

Issued Date: Nov. 17, 2016

Applicant: NETGEAR, INC.

Address: 350 East Plumeria Drive San Jose, CA 95134

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

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(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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Release Control Record

Issue No.	Description	Date Issued
SA160411C02A	Original release.	Nov. 17, 2016

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Report No.: SA160411C02A Reference No.: 161019C28



1 Certificate of Conformity

Product: AC 1200 WiFi Range Extender

Brand: Netgear

Test Model: EX6200v2

Sample Status: Engineering sample

Applicant: NETGEAR, INC.

Test Date: Oct. 27 ~ Nov. 30, 2016

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 (October 23, 2015)

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: Nov 17 2016

Polly Chien / Specialist

Approved by : , **Date:** Nov. 17, 2016

Ken Liu / Senior Manager



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)			Power Density (mW/cm²)	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/cm²

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**.

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3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)				
(CDD Mode)									
2412-2462	26.57	4.79	20	0.272	1				
5180-5240	28.46	4.87	20	0.428	1				
5260-5320	23.66	4.87	20	0.142	1				
5500-5700	23.75	4.87	20	0.145	1				
5745-5825	28.75	4.87	20	0.458	1				
	(Beamforming Mode)								
2412-2462	25.89	4.79	20	0.233	1				
5180-5240	28.44	4.87	20	0.426	1				
5260-5320	23.66	4.87	20	0.142	1				
5500-5700	23.75	4.87	20	0.145	1				
5745-5825	28.86	4.87	20	0.470	1				

Note:

2.4GHz: Directional gain = 1.78dBi + 10log(2) = 4.79dBi **5.0GHz:** Directional gain = 1.86dBi + 10log(2) = 4.87dBi

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.272 + 0.470 = 0.742

Therefore all the maximum calculations of above situations are less than the "1" limit.

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