

# **RF Exposure Report**

Report No.: SA980827L04G

FCC ID: PY309200110

Test Model: WNDAP350

Received Date: Jul. 13, 2015

Test Date: Aug. 06 ~ Sep. 02, 2015

Issued Date: Sep. 04, 2015

Applicant: NETGEAR INC.

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

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33383, TAIWAN (R.O.C.)





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# **Release Control Record**

Issue No.	Description	Date Issued
SA 980827L04G	Original release.	Sep. 04, 2015

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# 1 Certificate of Conformity

Product: ProSafe Dual Band(a,b,g) Wireless Access Point

**Brand: NETGEAR** 

Test Model: WNDAP350

Sample Status: Engineering sample

Applicant: NETGEAR INC.

**Test Date:** Aug. 06 ~ Sep. 02, 2015

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03

**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: Sep. 04, 2015

Pettie Chen / Senior Specialist

Approved by: Sep. 04, 2015

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<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 28cm 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/cm²)
2412-2462	29.89	8.6	28	0.717	1
5180-5240	16.36	9.3	28	0.037	1
5745-5825	24.21	9.3	28	0.228	1

Note:

2412-2462MHz: Directional gain =  $5.59 + 10\log(2) = 8.6dBi$  5180-5240MHz: Directional gain =  $6.29 + 10\log(2) = 9.3dBi$  5745-5825MHz: Directional gain =  $6.29 + 10\log(2) = 9.3dBi$ 

#### Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4G + WLAN 5.0G = 0.717 + 0.228 = 0.945

Therefore, the maximum calculation of this situation is 0.945, which is less than the "1" limit.

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