



# RF EXPOSURE REPORT

**REPORT NO.:** SA110304C12

**MODEL NO.:** WNDAP360

**FCC ID:** PY311100154

**ACCORDING:** FCC Guidelines for Human Exposure  
IEEE C95.1

**APPLICANT:** NETGEAR, INC.

**ADDRESS:** 350 East Plumeria Drive San Jose, CA 95134

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

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang,  
Taipei Hsien 244, Taiwan, R.O.C.

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	N/A	Apr. 12, 2011



## 1. CERTIFICATION

**PRODUCT:** ProSafe Dual Band Wireless-N Access Point  
**MODEL NO.:** WNDAP360  
**BRAND:** NETGEAR  
**APPLICANT:** NETGEAR, INC.  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**TESTED:** Mar. 07 ~ Mar. 31, 2011  
**STANDARDS:** **FCC Guidelines for Human Exposure**  
**IEEE C95.1**

The above equipment (Model: WNDAP360) 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 : Apr. 12, 2011  
Joanna Wang / Senior Specialist

APPROVED BY :  , DATE : Apr. 12, 2011  
Gary Chang / 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)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

MODULATION MODE	FREQUENCY BAND (MHz)	MAX CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
802.11b	2412-2462	25.8	8.60	20	0.548	1
802.11g	2412-2462	26.2	8.60	20	0.601	1
802.11n (20MHz)	2412-2462	26.2	5.59	20	0.301	1
802.11n (40MHz)	2422-2452	19.7	5.59	20	0.067	1
802.11a	5180-5240	13.5	9.30	20	0.038	1
802.11n (20MHz)	5180-5240	16.4	6.29	20	0.037	1
802.11n (40MHz)	5180-5240	16.5	6.29	20	0.038	1
802.11a	5745-5825	25.5	9.30	20	0.601	1
802.11n (20MHz)	5745-5825	24.6	6.29	20	0.244	1
802.11n (40MHz)	5745-5825	24.5	6.29	20	0.239	1

**NOTE:**

1. 802.11b/g: Directional gain = 5.59dBi + 10log(2) = 8.60dBi
2. 802.11a: Directional gain = 6.29dBi + 10log(2) = 9.30dBi