

RF Exposure Report

Report No.: SA160419E08A

FCC ID: PY326200345

Test Model: WAC740

Received Date: June 16, 2016

Test Date: Sep. 14, 2016

Issued Date: Dec. 29, 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
Hsin Chu Laboratory

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Release Control Record

Issue No.	Description	Date Issued
SA160419E08A	Original release.	Dec. 29, 2016

1 Certificate of Conformity

Product: ProSAFE Dual Band Wireless AC Access Point

Brand: NETGEAR

Test Model: WAC740

Sample Status: ENGINEERING SAMPLE

Applicant: NETGEAR, Inc.

Test Date: Sep. 14, 2016

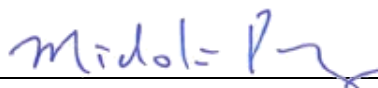
Standards: FCC Part 2 (Section 2.1091)

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 :

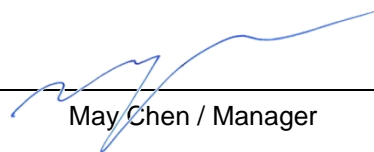


Date:

Dec. 29, 2016

Midoli Peng / Specialist

Approved by :



Date:

Dec. 29, 2016

May Chen / 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 ²)	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

$$Pd = (P_{out} * G) / (4 * \pi * r^2)$$

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 37cm away from the body of the user.

So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Frequency range (GHz)	Directional Antenna Gain (dBi)
5180 ~ 5240	5.98
5260 ~ 5320	5.98
5500 ~ 5700	5.88
5745 ~ 5825	5.88

2.5 Calculation Result Of Maximum Conducted Power

For 2.4GHz and 5GHz (UNII-1 & UNII-3) data were copied from the original test report (Report No.: SA160419E08)

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	970.785	11.02	37	0.71369	1
5180-5240	819.499	5.98	37	0.18877	1
5260-5320	246.234	5.98	37	0.05672	1
5500-5700	245.976	5.88	37	0.05537	1
5745-5825	909.707	5.88	37	0.20478	1

NOTE:

2.4GHz: Directional gain = 5dBi + 10log(4) = 11.02dBi

5GHz:

UNII-1 & UNII-2A: Directional gain = 5.98dBi

UNII-2C & UNII-3: Directional gain = 5.88dBi

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 = $0.71369 / 1 + 0.20478 / 1 = 0.91847$

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

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