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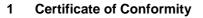


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Release Control Record				
Issue No.	Description	Date Issued		
SA160930C19	Original release.	Nov. 08, 2016		



Product:	ProSAFE Dual Band Wireless AC Access Poin		
Brand:	NETGEAR		
Test Model:	WAC510		
Sample Status:	Engineering sample		
Applicant:	NETGEAR, INC.		
Test Date:	Sep. 23 ~ Nov. 04, 2016		
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.

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1.1

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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

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^{2}$

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**.



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/cm ²)	
CDD Mode						
2412-2462	26.69	5.74	20	0.348	1	
5180-5240	26.69	7.68	20	0.544	1	
5745-5825	26.77	8.04	20	0.602	1	
Beamforming Mode						
2412-2462	26.66	5.74	20	0.346	1	
5180-5240	26.69	7.68	20	0.544	1	
5745-5825	26.71	8.04	20	0.594	1	

NOTE:

2.4GHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N] = 5.75dB$ 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N] = 7.68dBi$ 5745-5825MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N] = 8.04dBi$

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 = 0.348 + 0.602 = 0.950 Therefore the maximum calculations of above situations are less than the "1" limit.

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