

RF Exposure Report

Report No.: SABBQZ-WTW-P20080382

FCC ID: PY320200497

Test Model: WAX610

Received Date: Aug. 19, 2020

Test Date: Aug. 27 ~ Sep. 04, 2020

Issued Date: Sep. 11, 2020

Applicant: NETGEAR, INC.

Address: 350 East Plumeria Drive, San Jose, CA 95134, USA

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

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, TAIWAN

FCC Registration / 788550 / TW0003

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
SABBQZ-WTW-P20080382	Original release	Sep. 11, 2020



Certificate of Conformity

Product: WiFi 6 AX1800 Access Point

Brand: NETGEAR

Test Model: WAX610

Sample Status: Engineering sample

Applicant: NETGEAR, INC.

Test Date: Aug. 27 ~ Sep. 04, 2020

Standards: FCC Part 2 (Section 2.1091)

IEEE C95.3 -2002

References Test KDB 447498 D01 General RF Exposure Guidance v06 Guidance:

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 RF characteristics under the conditions specified in this report.

y Chien / Specialist Sep. 11, 2020

Date: Sep. 11, 2020 Approved by:

Bruce Chen / Senior Project Engineer



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**.



3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Directional Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)				
CDD Mode									
2412-2462	26.15	4.13	20	0.212	1				
5180-5240	29.18	5.18	20	0.543	1				
5260-5320	23.39	5.06	20	0.139	1				
5500-5720	23.38	5.08	20	0.140	1				
5745-5825	29.19	5.51	20	0.587	1				
Beamforming Mode									
2412-2462	25.86	4.13	20	0.198	1				
5180-5240	29.18	5.18	20	0.543	1				
5260-5320	23.37	5.06	20	0.139	1				
5500-5720	23.38	5.08	20	0.140	1				
5745-5825	29.19	5.51	20	0.587	1				

Note:

1. 2412 ~ 2462MHz: Directional gain = 4.13dBi

5180 ~ 5240MHz: Directional gain = 5.18dBi

5260 ~ 5320MHz: Directional gain = 5.06dBi

5500 ~ 5720MHz: Directional gain = 5.08dBi

5745 ~ 5825MHz: Directional gain = 5.51dBi

- 2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

Conclusion:

Both of the WLAN 2.4G & WLAN 5G can transmit simultaneously, 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 + 5G = 0.212 / 1 + 0.587 / 1 = 0.799

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

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