	BUREAU VERITAS			
	RF Exposure Report			
Report No.:	Report No.: SA200315C01			
FCC ID:	PY320200497			
Test Model:	WAX610			
Received Date:	Mar. 15, 2020			
Test Date:	Mar. 19 ~ Apr. 21, 2020			
Issued Date:	Apr. 22, 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 / Designation Number:	788550 / TW0003			
	BC-MRA Taff Taff Testing Laboratory 2021			
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# **Release Control Record**

Issue No.	Description	Date Issued
SA200315C01	Original release	Apr. 22, 2020

#### 1 **Certificate of Conformity**

Product: WiFi 6 AX1800 Access Point Brand: NETGEAR Test Model: WAX610 Sample Status: Engineering sample Applicant: NETGEAR, INC.

Test Date: Mar. 19 ~ Apr. 21, 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.

Prepared by :

Approved by :

Polly Chien / Specialist

**Date:** Apr. 22, 2020

Bruce Chen / Senior Project Engineer



## 2 RF Exposure

#### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)			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

 $\begin{array}{l} Pd = (Pout^{*}G) \ / \ (4^{*}pi^{*}r^{2}) \\ \text{where} \\ Pd = power \ density \ in \ mW/cm^{2} \\ Pout = output \ power \ to \ antenna \ in \ mW \\ G = gain \ of \ antenna \ in \ linear \ scale \\ pi = 3.1416 \\ r = distance \ between \ observation \ point \ and \ center \ of \ the \ radiator \ in \ cm \end{array}$ 

#### 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**.



Frequency Band (MHz)	Max Power (dBm)	Directional Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
CDD Mode					
2412-2462	26.15	4.13	20	0.212	1
5180-5240	29.18	5.18	20	0.543	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
5745-5825	29.19	5.51	20	0.587	1

### 3 Calculation Result of Maximum Conducted Power

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

#### 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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