

RF Exposure Report

Report No.: MFBBQZ-WTW-P22030481

FCC ID: PY322200565

Test Model: A8000

Received Date: Mar. 14, 2022

Test Date: Jul. 08 ~ Jul. 30, 2022

Issued Date: Aug. 09, 2022

Applicant and Manufacturer: 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



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Release Control Record

Issue No.	Description	Date Issued
MFBBQZ-WTW-P22030481	Original release	Aug. 09, 2022

1 Certificate of Conformity

Product: AXE3000 USB3.0 Wireless Adapter

Brand: Netgear

Test Model: A8000

Sample Status: Engineering sample

Applicant and Manufacturer: NETGEAR, INC.

Test Date: Jul. 08 ~ Jul. 30, 2022

FCC Rule Part: FCC Part 2 (Section 2.1091)

Standards: KDB 447498 D01 General RF Exposure Guidance v06

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 : Polly Chien , **Date:** Aug. 09, 2022
Polly Chien / Specialist

Approved by : Jeremy Lin , **Date:** Aug. 09, 2022
Jeremy Lin / Project Engineer

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				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	f/1500	30
1500-100,000	1.0	30

f = Frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	15.99	2.20	20	0.013	1
5180-5240	16.91	2.30	20	0.017	1
5260-5320	16.99	2.80	20	0.019	1
5500-5720	16.98	2.70	20	0.018	1
5745-5825	16.78	2.60	20	0.017	1

Frequency Band (MHz)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
NSS 1				
5955-6415	15.76	20	0.007	1
6435-6525	15.69	20	0.007	1
6525-6875	15.75	20	0.007	1
6875-7115	15.72	20	0.007	1
NSS 2				
5955-6415	16.29	20	0.008	1
6435-6525	16.68	20	0.009	1
6525-6875	16.62	20	0.009	1
6875-7115	16.06	20	0.008	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Detail antenna specification please refer to antenna datasheet.
3. WLAN 2.4GHz, WLAN 5GHz & WLAN 6GHz technology cannot transmit at the same time.

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