

RF Exposure Report

Report No.: SA200312C06

FCC ID: PY320100481

Test Model: CAX25

Received Date: Jan. 08, 2020

Test Date: Jan. 08 ~ Apr. 29, 2020

Jun. 15 ~ Jun. 17, 2020

Issued Date: Jun. 30, 2020

Applicant: NETGEAR, Inc.

Address: 350 East Plumeria Drive San Jose, CA 95134

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
SA200312C06	Original release	Jun. 30, 2020



1 Certificate of Conformity

Product: AX2400 WiFi Cable Modem Router

Brand: Netgear

Test Model: CAX25

Sample Status: Mass product

Applicant: NETGEAR, Inc.

Test Date: Jan. 08 ~ Apr. 29, 2020

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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.

Celine Chou / Senior Specialist

Approved by: , Date: Jun. 30, 2020

Bruce Chen / Senior 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/cm²)	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

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

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 25cm away from the body of the user. So, this device is classified as **Mobile Device**.

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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/cm²)				
CDD Mode									
2412-2462	29.47	5.25	25	0.377	1				
5180-5240	29.40	6.34	25	0.477	1				
5745-5825	29.76	6.79	25	0.575	1				
Beamforming Mode									
2412-2462	29.47	5.25	25	0.377	1				
5180-5240	29.35	6.34	25	0.472	1				
5745-5825	29.11	6.79	25	0.495	1				

Note:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. 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.

2412-2462MHz: Directional gain = 5.25dBi 5180-5240MHz: Directional gain = 6.34dBi 5745-5825MHz: Directional gain = 6.79dBi

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

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

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