

RF Exposure Report

Report No.: SA181019C20F

FCC ID: PY318300427

Test Model: SRC60

Series Model: WAC540

Received Date: Oct. 19, 2018

Test Date: Sep. 10 ~ Sep. 11, 2019

Issued Date: Sep. 11, 2019

Applicant: NETGEAR, INC.

Address: 350 East Plumeria Drive San Jose, CA 95134

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

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33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
SA181019C20F	Original release	Sep. 11, 2019

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Report No.: SA181019C20F Reference No.: 190807C42



1 Certificate of Conformity

Product: Orbi Pro AC3000 Tri-band Ceiling Add-on Satellite SRC60,

Insight Managed Smart Cloud Wireless Access Point (WAC540)

Brand: NETGEAR

Test Model: SRC60

Series Model: WAC540

Sample Status: Engineering sample

Applicant: NETGEAR, INC.

Test Date: Sep. 10 ~ Sep. 11, 2019

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.3 -2002

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: , Date: Sep. 11, 2019

Pettie Chen / Senior Specialist

Approved by: , Date: Sep. 11, 2019

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 27cm 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/cm²)	Limit (mW/cm²)				
CDD Mode									
2412-2462	28.59	4.27	27	0.211	1				
5180-5240	28.80	4.42	27	0.229	1				
5260-5320	23.23	4.15	27	0.060	1				
5500-5700	23.34	7.04	27	0.119	1				
5745-5825	29.67	7.09	27	0.518	1				
Beamforming Mode									
2412-2462	28.57	4.27	27	0.210	1				
5180-5240	28.80	4.42	27	0.229	1				
5260-5320	23.15	4.15	27	0.059	1				
5500-5700	22.13	7.04	27	0.090	1				
5745-5825	28.74	7.09	27	0.418	1				

Note:

1. 2412 ~ 2462MHz: Directional gain = 4.27dBi

5180 ~ 5240MHz: Directional gain = 4.42dBi

5260 ~ 5320MHz: Directional gain = 4.15dBi

5500 ~ 5700MHz: Directional gain = 7.04dBi

5745 ~ 5825MHz: Directional gain = 7.09dBi

2. 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:

CPD = Calculation power density

LPD = Limit of power density

$$2.4G + 5G$$
 Band $1 + 5G$ Band $4 = 0.211 / 1 + 0.229 / 1 + 0.518 / 1 = 0.958$

$$2.4G + 5G$$
 Band $2 + 5G$ Band $3 = 0.211 / 1 + 0.060 / 1 + 0.119 / 1 = 0.390$

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

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