	BUREAU				
	VERITAS				
RF Exposure Report					
Report No.:	SA180330E07				
FCC ID:	PY318100409				
Test Model:	C6300v2				
Received Date:	Mar. 30, 2018				
Test Date:	Apr. 19 to May 02, 2018				
Issued Date:	May 11, 2018				
Applicant:	NETGEAR, Inc.				
Address:	350 East Plumeria Drive San Jose, CA 95134				
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory				
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.				
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.				
FCC Registration / Designation Number:	723255 / TW2022				
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Release Control Record				
Issue No.	Description		Date Issued	
SA180330E07	Original release.		May 11, 2018	



1 Certificate of Conformity

Product:	AC 1750 Wireless Cable Gateway	
Brand:	NETGEAR	
Test Model:	C6300v2	
Sample Status:	ENGINEERING SAMPLE	
Applicant:	NETGEAR, Inc.	
Test Date:	Apr. 19 to May 02, 2018	
Standards:	FCC Part 2 (Section 2.1091)	
	KDB 447498 D01 General RF Exposure Guidance v06	
	IEEE C95.1-1992	

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 EMC characteristics under the conditions specified in this report.

Prepared by :	Wondy	, Date:	May 11, 2018
	Wendy Wu / Spe	ecialist	
Approved by :	May Chen / Mar	, Date:	May 11, 2018



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

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

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

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**.

2.4 Antenna Gain

Frequency Range (GHz)	Directional Antenna Gain (dBi)
2.4~2.4835	5.76
5.15~5.25	6.20
5.725~5.85	6.20



2.5 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	993.724	5.76	25	0.47662	1
5180-5240	937.562	6.20	25	0.49763	1
5745-5825	720.127	6.20	25	0.38222	1

NOTE:

2.4GHz: Directional gain = 5.76dBi 5GHz: Directional gain = 6.2dBi

Conclusion:

The formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1 CPD = Calculation power density LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.47662 / 1 + 0.49763 / 1 = 0.97425Therefore the maximum calculations of above situations are less than the "1" limit.

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