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FCC ID:	YZKECWO5211L
Test Model:	ECWO5213-L
Received Date:	Sep. 27, 2018
Test Date:	Oct. 12 ~ Oct. 27, 2018
Issued Date:	Nov. 09, 2018
Applicant:	Edgecore Networks Corporation
Address:	No.1, Creation 3rd Rd., Hsinchu Science Park, East Dist., Hsinchu City 30077, Taiwan, R.O.C.
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)
FCC Registration /	788550 / TW0003
Designation Number:	



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Release Control Record							
Issue No.	Description			Da	te Issued		
Issue No. SA171215C04G	Description Original release.				ate Issued pv. 09, 2018		
Report No.: SA1712150	C04G	Page No. 3 / 6		Report For	rmat Version: 6.1.1		



1Certificate of ConformityProduct:CONCURRENT DUAL-BAND 11AC WAVE 2 APBrand:EdgecoreTest Model:ECWO5213-LSample Status:Engineering sampleApplicant:Edgecore Networks CorporationTest Date:Oct. 12 ~ Oct. 27, 2018Standards:FCC Part 2 (Section 2.1091)KDB 447498 D01 General RF Exposure Guidance v06IEEE 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 RF characteristics under the conditions specified in this report.

Prepared by :

Suntee Liu / Specialist

Date: Nov.

Nov. 09, 2018

Approved by :

Bruce Chen

Date: Nov. 09, 2018

Bruce Chen / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)			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

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

2.3 Classification

The antenna of this product, under normal use condition, is at least 31cm away from the body of the user. So, this device is classified as Mobile Device.



3 Calculation Result of Maximum Conducted Power

For WLAN

Frequency Band (MHz)	Mode	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2412~2462	-	21.71	14.41	31	0.339	1
	Master	22.93	13.51	31	0.365	1
WLAN 5180~5240	Client	19.14	13.51	31	0.152	1
WLAN 5720~5825	-	25.42	13.51	31	0.647	1

Note:

2412~2462MHz Max. Gain = 11.4dBi + 10log(2) = 14.41 dBi 5180~5825MHz Max. Gain = 10.5dBi + 10log(2) = 13.51dBi

For BT-LE (FCC ID: RC6-M2-TBT)

Frequency Band (MHz)	Mode	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
BT LE 2402~2480	-	1.059	3.88	31	0.0003	1

Conclusion:

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

Worst case: WLAN 2.4GHz + WLAN 5GHz + BT = 0.339/1 + 0.647/1 + 0.0003/1 = 0.9863 < 1

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