

	RF Exposure Report			
Report No.:	SA180828C27C			
FCC ID:	RYK-WPEQ261ACNIBT			
Test Model:	WPEQ-261ACNI(BT)			
Received Date:	Aug. 28, 2018			
Test Date:	Oct. 08 ~ Oct. 24, 2018			
Issued Date:	Jun. 12, 2020			
Applicant:	SparkLAN Communications, Inc.			
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Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch			
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	33383, Taiwan			
FCC Registration / Designation Number:	7885507100003			
	Compared and the second			

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Release Control Record					
Issue No.	Description			Dat	te Issued
Issue No. SA180828C27C	Description Original release				te Issued h. 12, 2020
Report No.: SA1808280	:27C	Page No. 3 / 5		Report Forr	mat Version: 6.1.1



1 Certificate of Conformity

Product: 802.11ac/a/b/g/n 2T2R Industrial-graded Wi-Fi / Bluetooth 4.2 Combo Half mini PCIe Module

Brand: SparkLAN

Test Model: WPEQ-261ACNI(BT)

Sample Status: R&D sample

Applicant: SparkLAN Communications, Inc.

Test Date: Oct. 08 ~ Oct. 24, 2018

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.

Prepared by :

lettre

Pettie Chen / Senior Specialist

Date: Jun. 12, 2020

Approved by :

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Date: Jun. 12, 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/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/f²)*	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

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

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 Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2412~2462	18.45	5.0	20	0.044	1
WLAN 5180~5240	16.99	5.8	20	0.038	1
WLAN 5260~5320	16.83	5.8	20	0.036	1
WLAN 5500~5700	16.97	5.8	20	0.038	1
WLAN 5745~5825	16.82	5.8	20	0.036	1
BT LE 2402~2480	2.28	5.0	20	0.001	1
BT EDR 2402~2480	2.21	5.0	20	0.001	1

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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