

RF Exposure Report

Report No.: SA180823C25

FCC ID: RYK-WPEB263ACNIBT

Test Model: WPEB-263ACNI(BT)

Received Date: Aug. 23, 2018

Test Date: Sep. 16 ~ Oct. 03, 2018

Issued Date: Oct. 18, 2018

Applicant: SparkLAN Communications, Inc.

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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.

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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Table of Contents

Release Control Record	3
1 Certificate of Conformity.....	4
2 RF Exposure.....	5
2.1 Limits for Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula	5
2.3 Classification	5
3 Calculation Result of Maximum Conducted Power.....	5

Release Control Record

Issue No.	Description	Date Issued
SA180823C25	Original release.	Oct. 18, 2018

1 Certificate of Conformity

Product: 802.11ac/a/b/g/n 2T2R Industrial Grade Wi-Fi / Bluetooth 4.1 Combo Half Mini PCIe Module

Brand: SparkLAN

Test Model: WPEB-263ACNI(BT)

Sample Status: R&D sample

Applicant: SparkLAN Communications, Inc.

Test Date: Sep. 16 ~ Oct. 03, 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 RF characteristics under the conditions specified in this report.

Prepared by : Sunt Lee, **Date:** Oct. 18, 2018
Sunt Lee / Specialist

Approved by : Bruce Chen, **Date:** Oct. 18, 2018
Bruce Chen / 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				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 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	18.41	5.0	20	0.044	1
WLAN 5180~5240	16.50	5.8	20	0.034	1
WLAN 5260~5320	16.50	5.8	20	0.034	1
WLAN 5500~5700	16.49	5.8	20	0.034	1
WLAN 5745~5825	16.49	5.8	20	0.034	1
BT LE 2402~2480	4.15	5.0	20	0.002	1
BT EDR 2402~2480	4.14	5.0	20	0.002	1

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