

RF Exposure Report

Report No.: SA180828C26

FCC ID: RYK-WUBT236ACNBT

Test Model: WUBT-236ACN(BT) [M4W], WUBT-236ACN(BT) [PU]

Series Model: WUBT-236ACN(BT) [P4W], WUBT-236ACN(BT) [MU]

Received Date: Aug. 28, 2018

Test Date: Dec. 05, 2018 ~ Jan. 14, 2019

Issued Date: Jan. 17, 2019

Applicant: SparkLAN Communications, Inc.

Address: 8F., No.257, Sec. 2, Tiding Blvd., Neihu District, Taipei City 11493, 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.

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	Date Issued
SA180828C26	Original release	Jan. 17, 2019



1 Certificate of Conformity

Product: 802.11ac/a/b/g/n 2T2R Wi-Fi + Bluetooth 4.2 USB Module

Brand: SparkLAN

Test Model: WUBT-236ACN(BT) [M4W], WUBT-236ACN(BT) [PU]

Series Model: WUBT-236ACN(BT) [P4W], WUBT-236ACN(BT) [MU]

Sample Status: R&D sample

Applicant: SparkLAN Communications, Inc.

Test Date: Dec. 05, 2018 ~ Jan. 14, 2019

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.

Pettie Chen / Senior Specialist

Approved by: , Date: Jan. 17, 2019

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/cm²)	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/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 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/cm²)	Limit (mW/cm²)
WLAN 2412~2462	17.46	5.0	20	0.035	1
WLAN 5180~5240	16.90	5.8	20	0.037	1
WLAN 5260~5320	16.85	5.8	20	0.037	1
WLAN 5500~5700	16.88	5.8	20	0.037	1
WLAN 5745~5825	16.90	5.8	20	0.037	1
BT LE 2402~2480	3.99	5.0	20	0.002	1
BT EDR 2402~2480	3.82	5.0	20	0.002	1

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