RF Exposure Report

Report No.:	SA160819E01H
FCC ID:	COF-WMBNBM26A
Test Model:	WM-BN-BM-26_A_FF5
Series Model:	WM-BN-BM-26_A, WM-BN-BM-26_A_FF2, WM-BN-BM-26_A_FF3, WM-BN-BM-26_A_FF4
Received Date:	Nov. 21, 2019
Test Date:	Nov. 30, 2019
Issued Date:	Dec. 20, 2019
Applicant:	UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD.
Address:	141, Lane 351, Sec. 1, Taiping Road., Tsaotuen, Nantou 54261, Taiwan
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.
Test Location :	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan.
FCC Registration / Designation Number:	723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
SA160819E01H	Original release.	Dec. 20, 2019

1 Certificate of Conformity

Product:	802.11b/g/n + BT Wireless LAN Module
Brand:	USI
Test Model:	WM-BN-BM-26_A_FF5
Series Model:	WM-BN-BM-26_A, WM-BN-BM-26_A_FF2, WM-BN-BM-26_A_FF3, WM-BN-BM-26_A_FF4
Sample Status:	ENGINEERING SAMPLE
Applicant:	UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD.
Test Date:	Nov. 30, 2019
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.3 -2002

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 : Phoenix Huang , **Date:** Dec. 20, 2019

Phoenix Huang / Specialist

Approved by : , **Date:** Dec. 20, 2019

Clark Lin / Technical Manager

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

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

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 20 cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Brand	Model	Antenna Net Gain(dBi)	Frequency range (GHz to GHz)	Antenna Type	Connector Type
YAGEO	ANT3216LL11R2400A	3.68	2.4~2.4835	Chip	NA

2.5 Calculation Result of Maximum Conducted Power

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WLAN	2437	281.19	3.68	20	0.13054	1
BT-EDR	2441	5.495	3.68	20	0.00255	1
BT-LE	2480	4.92	3.68	20	0.00228	1

Note:
1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. WLAN and BT technology cannot transmit at the same time.
3. The Max. Power = Max. tune up power including tolerance.

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