
Federal Communications Commission
7435 Oakland Mills Road
Columbia MD 21046

Date: 24 April 2018

Subject: Requesting Class II permissive change for FCC ID: VOB-P2897

Dear Sir / Madam,

The purpose of this letter is to request a Class II Permissive change for FCC ID: VOB-P2897, original granted on 08/29/2016.

A. DESCRIPTION OF PRODUCT CHANGES,

- a. Change one antenna (Antenna 1 in test report), same antenna type (Monopole Antenna), antenna gain change as following table;

Frequency bands	New		Original	
	Antenna Type	Maximum antenna gain (dBi)	Antenna Type	Maximum antenna gain (dBi)
2400 – 2483.5 MHz	Monopole Antenna	2.70	Monopole Antenna	3.88
5150 – 5250 MHz	Monopole Antenna	4.50	Monopole Antenna	4.55
5250 – 5350 MHz	Monopole Antenna	4.31	Monopole Antenna	4.55
5500 – 5700 MHz	Monopole Antenna	4.92	Monopole Antenna	5.32
5725 – 5850 MHz	Monopole Antenna	5.23	Monopole Antenna	5.22

- b. Reduce the Output Power through firmware. (Reduce both Wi-Fi and Bluetooth Output Power).
- c. Software security remains unchanged from the original application.

B. PERFORMANCE DIFFERENCES:

Description	Re-testing item	Remark
BT Classics Report (Report No.: BTL-FCCP-1-1602C038D)	All test items	a. Reduce power at antenna port 1 and change

		<ul style="list-style-type: none"> antenna 1. b. Not change power adapter and EUT Appearance
BT LE Report (Report No.: BTL-FCCP-2-1602C038D)	All test items	<ul style="list-style-type: none"> a. Reduce power at antenna port 1 and change antenna 1. b. Not change power adapter and EUT Appearance
2G4WLAN Report (Report No.: BTL-FCCP-3-1602C038D)	All test items measured at Antenna port 1, no additional testing at Antenna port 2.	<ul style="list-style-type: none"> a. Reduce power at antenna port 1 and change antenna 1, no other change at antenna port 2 and antenna 2. b. Not change power adapter and EUT Appearance
5GWLAN Report (Report No.: BTL-FCCP-4-1602C038D)	All test items measured at Antenna port 1, no additional testing at Antenna port 2.	<ul style="list-style-type: none"> a. Reduce power at antenna port 1 and change antenna 1, no other change at antenna port 2 and antenna 2. b. Not change power adapter and EUT Appearance
DFS Report (Report No.: BTL-FCCP-5-1602C038D)	No need test	<ul style="list-style-type: none"> a. New antenna gain higher than original evaluation again (0dBi)
RF Exposure Evaluation	Need evaluation	<ul style="list-style-type: none"> a. New antenna gain additional at UNII band 3
Internal Photos	Provided	<ul style="list-style-type: none"> a. Add new antenna
Test Setup Photos	Provided	

C. CONCLUSION:

This radio continues to meet all FCC standard requirements, including RF Exposure, thus this change does meet requirements a Class II Permissive Change.

Sincerely,

Best Regards

A handwritten signature in black ink that reads "Mandy Wang". The signature is written in a cursive, flowing style.

Mandy Wang (agent)