## 1 Test summary and result

## **FCC ID: BYM7001**

## **RF Exposure Evaluation – FCC MPE**

**RF Exposure Requirements:** 47 CFR §1.1307(b)

**RF Radiation Exposure Limits:** 47 CFR §1.1310

**RF Radiation Exposure Guidelines:** FCC OST/OET Bulletin Number 65

**EUT Frequency Band:** 2400-2483.5MHz (BLE)

13.56MHz (NFC)

Limits for General Population/Uncontrolled Exposure in the band of: 300 - 1500 MHz,

Power Density Limit: f/1500 mW/cm2

Limits for General Population/Uncontrolled Exposure in the band of: 1500 - 100,000 MHz

Power Density Limit: 1 mW / cm<sup>2</sup>

**Equation:**  $S = PG / 4\pi R^2 \text{ or } R = VPG / 4\pi S$ 

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Radio	Frequency (MHz)	Max Conducted Output Power (dBm)	Antenna Gain (dBi)	Separation distance (cm)	Power Density (mW/ cm²)	MPE Limit (mW/ cm²)
BLE	2402-2480	8.167	3	20	0.0026	1

The above results show that the device complies with the MPE requirement with separation distance of at least 20 cm.