

RF Exposure

Applicable Standard

According to §1.1307(b)(5), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline. This is a Portable device. The **Section 4.3.1 and Appendix A of KDB447498 D01 V05 was used as the guidance.**

Calculation Result (Worse Case):

WIFI Mode:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \left[\sqrt{f(\text{GHz})} \right] = 8.95/5 * 1.57 = 2.81$$
 this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE Mode:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \left[\sqrt{f(\text{GHz})} \right] = 0.476/5 * 1.57 = 0.15$$
 this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Bluetooth Mode:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \left[\sqrt{f(\text{GHz})} \right] = 2.55/5 * 1.57 = 0.80$$
 this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Note: WIFI and Bluetooth can not transmit at the same time. WIFI and Bluetooth use the same antenna.

The SAR measurement is not necessary.