

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:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f(\text{GHz})}] = 8.57/5 * 1.57 = 2.69$$
 this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE Mode:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f(\text{GHz})}] = 5.89/5 * 1.55 = 1.83$$
 this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Bluetooth Mode:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f(\text{GHz})}] = 3.23/5 * 1.56 = 1.01$$
 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.

The SAR measurement is not necessary.