

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 ppndix A of KDB447498 D01 V05 was used as the guidance. Calculation Result (Worse Case):

WIFI Mode

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})]$.

$[\sqrt{f(\text{GHz})}] = 9.04/5 * \sqrt{2.412} = 2.81$, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BT Mode

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})]$.

$[\sqrt{f(\text{GHz})}] = 1.443/5 * \sqrt{2.480} = 0.455$, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE Mode

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})]$.

$[\sqrt{f(\text{GHz})}] = 0.364/5 * \sqrt{2.480} = 0.115$, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Since BT, BLE and WIFI transmitter can't be in simultaneous transmission mode, thus, simultaneous transmission RF Exposure is not required.

As a result, the SAR measurement is not necessary.

