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):

802.11b Mode:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] =8.65/5 * 1.57= 2.71, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

802.11g Mode:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] =5.14/5 * 1.57= 1.61, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

802.11n HT20 Mode:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] =5.47/5 * 1.57= 1.72, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

802.11n HT40 Mode:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] =5.45/5 * 1.56= 1.70, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

GFSK Mode:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] =1.5/5 * 1.57= 0.47, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Л/4DQPSK Mode

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] =1.18/5 * 1.57= 0.37, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

8DPSK Mode

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] =1.22/5 * 1.57= 0.38, this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

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

The SAR measurement is not necessary.