

1 Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard : FCC KDB Publication 447498 v06
FCC Part 2: Section 2.1091
RSS 102 Issue 5

For FCC:

Measurement Record:

The measured maximum specified power of the EUT is 89.79dBuV/m@3m (i.e. -5.44dBm) for Z-Wave and 79.86dBuV/m@3m (i.e. -15.37dBm) for general 2.4GHz, which is belong low power device, hence the EUT is excluded from RF Exposure evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

For IC:

Measurement Record:

Stand-alone transmitting

The measured maximum specified power of the EUT is 89.79dBuV/m@3m (i.e. -5.44dBm) for Z-Wave and 79.86dBuV/m@3m (i.e. -15.37dBm) for general 2.4GHz, which is far below the RF Exposure evaluation exclusion threshold level 16mW for Z-Wave and 4mW for 2.4GHz, hence the EUT is excluded from RF Exposure evaluation according to RSS-102 Issue 5 section 2.5.1.

Simultaneous transmitting:

The separation distance of the EUT should be 5mm. The Sum ratio: $\text{Power1}/\text{limit 1} + \text{power2}/\text{limit2} = 0.3/16 + 0.03/4 < 1$. Thus, simultaneous transmission is not required.