

**Products** 

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# **6 Safety Human Exposure**

## **6.1 Radio Frequency Exposure Compliance**

### **6.1.1 Electromagnetic Fields**

RESULT: Pass

**Test Specification** 

Test standard : CFR47 FCC Part 2: Section 2.1093

FCC KDB Publication 447498 D01 V06

### **FCC** requirements

For 100 MHz to 6 GHz and *test separation distances* ≤ 50 mm, the 1-g and 10-g *SAR test exclusion thresholds* are determined by the following:

(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR,30 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $\leq$  5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

#### **Calculated result**

The maximum peak output power of the transmitter is -6.97dBm and minimum test separation distance is 5mm, SAR test exclusion thresholds=0.06<3.0, so the SAR test is not required.