

## \* RF Exposure

### 1. Regulation

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this Chapter.

#### **KDB447498 was used as the guidance.**

According to §1.1310 and §2.1093 RF exposure is calculated.

### 1.1 Result

Test frequency (GHz)	Conducted output power (dBm)	Conducted output power (mW)	Min. test separation distance (mm)	SAR test exclusion thresholds ≤ 3.0 for 1-g SAR
2.480	-8	0.16	5	0.05

#### 1. SAR test exclusion thresholds

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

$$= [(0.16)/(5)] \cdot [\sqrt{2.480}] = 0.05$$

Mode	Target power (dBm)	Allowed tolerant (dB)	Max tune up power (dBm)	Measured Average power (dBm)
GFSK	-10	±2.0	-8	-8.67

### 1.2 RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.