

## - 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)	Max. tune up power (dBm)	Max. tune up power (mW)	Min. Test Separation Distance (mm)	SAR Test Exclusion Thresholds ≤ 3.0 for 1-g SAR
Bluetooth Low Energy Lowest	2.50	1.78	5.00	0.55

1. SAR test exclusion thresholds  
$$= [(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$
$$= [(1.78) / (5)] \cdot [\sqrt{2.405}] = 0.55$$

### 1.2 RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.