

FCC ID: A3LEIT5600

According to KDB 447498 D01 General RF Exposure Guidance v06.

At 100 MHz to 6 GHz and for test separation distances ≤ 50 mm, the SAR test exclusion threshold is determined according to the following.

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \times \sqrt{f(\text{GHz})} \right] \leq 3.0$$

1. SAR test exclusion threshold

1.1. Frequency: 2 480 MHz (min. separation distances = 0 mm)

SAR test exclusion thresholds(5 mm) = $3 \times 5 / (\sqrt{2.480}) = 9.525$ mW

Max. tune-up tolerance (mW)	SAR Test Exclusion Thresholds (5 mm) (mW)
7.943	9.525

Calculation value: $7.943 \text{ (mW)} / 5 \text{ (mm)} \times \sqrt{2.480} = 2.50$

So, Calculation value ≤ 3.0

Remark;

- Max. tolerance power of EUT (9 dBm).
- Max. tolerance power of EUT is 7.943(mW).
- When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- Tune up power procedure / tolerance
1M PHY : 8.0 dBm (-1.5 dBm ~ + 1.0 dBm)

1.2. Frequency : 6.5 GHz (UWB)

- Maximum Allowed E.I.R.P. : -41.3 dBm (0.000 074 mW)
- The Maximum allowed RF output power of UWB is less than 1 mW. Per November 2019 TCB Workshop Notes, RF Exposure test is not required based on 1 mW exclusion for frequency over 6 GHz.

2. Simultaneous transmission of RF Exposure test exclusion Configuration.

- Bluetooth LE: the ratio is 2.5 / 3
- UWB: the ratio is 0.000 074 / 1

Confirm the sum result of individual RF Exposure ratio is ≤ 1.0 ;
Bluetooth LE + UWB: $(2.5 / 3) + (0.000 074 / 1) = 0.833 407 \leq 1.0$

3. Conclusion: No SAR is required.