

Standalone SAR test exclusion considerations: Bluetooth LE

RF feature	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm) ^{NOTE1}	Max. power with tune-up tolerance (mW) ^{NOTE1}	Power thresholds	SAR test exclusion thresholds
Bluetooth LE	LE	2480.00	5.00	-1.00	0.00	1.0000	0.31	3.00

Note1. Please refer to the operation description for Max.tune-up power.

KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm

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

Sample Calculation

$$= [(1\text{mW} / 5\text{mm})] \times [\sqrt{2.48\text{GHz}}] = 0.31$$

Note. The calculation result was rounded to two decimal place for comparison.

Conclusion : SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required