

Standalone SAR test exclusion considerations

| 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) | Power thresholds | SAR test exclusion thresholds |
|--------------|--------|-----------------------------|-------------------------------|----------------|--|--|------------------|-------------------------------|
| Bluetooth LE | 1 Mbps | 2 480.00 | 5.0 | 3.39 | -20.0 | 0.010 0 | 0.003 | 3.00 |
| Bluetooth LE | 2 Mbps | 2 480.00 | 5.0 | 3.39 | -20.0 | 0.010 0 | 0.003 | 3.00 |
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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

$$= [(0.01\text{mW} / 5\text{mm})] \times [\sqrt{2.48\text{GHz}}] = 0.003$$

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