

Standalone SAR test exclusion considerations

September 20, 2017

- Device category = Portable device Mobile device
- Transmitting mode = Single Transmitting Simultaneous Transmitting
- Max. transmitting frequency = **2440** MHz
- Min. test separation distance = **5** mm
- Max. Antenna Gain = **1.7** dBi
- Max. power with turn-up tolerance = **-1.50** dBm = **0.8** mW (Typical Power = **Max. -1.50** dBm)

Note. Bluetooth LE

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

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \cdot [$\sqrt{f(\text{GHz})}$] \leq 3.0 for 1g SAR and \leq 7.5 for 10g extremity SAR
= [(**0.8mW / 5mm**)] X [$\sqrt{2.44\text{GHz}}$] = **0.2**

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

→ ***SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.***