

Standalone SAR test exclusion considerations

January 19, 2017

- Device category = Portable device Mobile device
- Transmitting mode = Single Transmitting Simultaneous Transmitting
- Max. transmitting frequency = 2480 MHz
- Min. test separation distance = 0 mm
- Max. Antenna Gain = 3.3 dBi
- Max. power with turn-up tolerance = -20.50 dBm = 0.009 mW (Typical Power = Max. -20.50 dBm)

Note.

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

$$[\text{max. power of channel, including tune-up tolerance, mW}] / [\text{min. test separation distance, mm}] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1g SAR and } \leq 7.5 \text{ for 10g extremity SAR}$$
$$= [(0.009 \text{mW} / 5 \text{mm})] \times [\sqrt{2.48 \text{GHz}}] = 0$$

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.***