

Standalone SAR test exclusion considerations

July 7, 2016

- Device category = Portable device Mobile device
- Transmitting mode = Single Transmitting Simultaneous Transmitting
- transmitting frequency range = 2402 MHz ~ 2480 MHz
- Min. test separation distance = 0 mm
- Max. Antenna Gain = 0.75 dBi
- Max. power with turn-up tolerance = -0.50 dBm = 0.9 mW (Typical Power = Max. -0.50 dBm)

Note. LE(1Mbps)

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
= [(0.9mW / 5mm)] X [$\sqrt{2.48\text{GHz}}$] = 0.28

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.***