

## Standalone SAR test exclusion considerations

**December 16, 2014** 

- Device category = 🗌 Portable device 🔄 Movile device
- Transmitting mode = 🛛 Single Transmitting 🔹 🗌 Simultaneous Transmitting
- Max. transmitting frequency = 2480 MHz
- Min. test separation distance = 200 mm
- Max. Antenna Gain = <b>1.61</b> dBi
- Max. power with turn-up tolerance = 5.00 dBm = 3.2 mW (Typical Power = Max. 5.00 dBm )
Note.

KDB 447498 D01 clasue 4.3.1 Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separationn distances > 50 mm

[Threshold at 50 mm + (test separation distance - 50 mm) X 10] mW

 $= [0.03 + (200 \text{ mm} - 50 \text{ mm} \times 10)] = 1500$ 

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

 $\rightarrow$  SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.

## Maximum Permissible Exposure(MPE) evaluation for mobile device

- S = Maximum power density G = Numeric power gain of the antenna  $S = P G / (4 R^2 \pi)$ , mW/cm<sup>2</sup> P = Maximum power with turn-up tolerance
  - 0.000922 mW/cm<sup>2</sup>

- - R = Distance from transmitting antenna

## Conclusion: The exposure condition of this device is compliant with FCC rules.

The limit for maximum permissible exposure = 1.000000 mW/cm<sup>2</sup>