

# Standalone SAR test exclusion considerations

April 5, 2016

- 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 = 3.29 dBi
- Max. power with turn-up tolerance = 7.00 dBm = 5.1 mW ( Typical Power = Max. 7.00 dBm )

Note. BT 1Mbps / 2Mbps / 3Mbps (Worst Case: 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

$$\left[ \left( \text{max. power of channel, including tune-up tolerance, mW} \right) / \left( \text{min. test separation distance, mm} \right) \right] \cdot \left[ \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1g SAR and } \leq 7.5 \text{ for 10g extremity SAR}$$
$$= \left[ \left( 5.1\text{mW} / 5\text{mm} \right) \right] \times \left[ \sqrt{2.48\text{GHz}} \right] = 1.6$$

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.**