Standalone SAR test exclusion considerations

July 20, 2017

- Device category = ☑ Portable device ☐ Mobile device
- Transmitting mode = ☑ Single Transmitting ☐ Simultaneous Transmitting
- Max. transmitting frequency = 2441 MHz
- Min. test separation distance = 39 mm
- Max. Antenna Gain = 0 dBi
- Max. power with turn-up tolerance = 15.96 dBm = 39.5 mW

Note. Bluetooth

KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1g SAR and ≤ 7.5 for 10g extremity SAR

= [(39.5mW / 39mm)] X [√2.441GHz] = 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.

Standalone SAR test exclusion considerations

July 20, 2017

- Device category = ☑ Portable device ☐ Mobile device
- Transmitting mode = ☑ Single Transmitting ☐ Simultaneous Transmitting
- Max. transmitting frequency = 2440 MHz
- Min. test separation distance = 39 mm
- Max. Antenna Gain = 0 dBi
- Max. power with turn-up tolerance = 3.95 dBm = 2.5 mW

Note. Bluetooth LE

KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1g SAR and ≤ 7.5 for 10g extremity SAR

= [(2.5mW / 39mm)] X [√2.44GHz] = 0.1

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.