Standalone SAR test exclusion considerations(Bluetooth)

December 14, 2017

- Device category = ☑ Portable device ☐ Mobile device
- Transmitting mode = ☑ Single Transmitting ☐ Simultaneous Transmitting
- Max. transmitting frequency = 2480 MHz
- Min. test separation distance = 40 mm
- Max. Antenna Gain = 0.52 dBi
- Measured power(Average) = 16.74 dBm
- Max. power with turn-up tolerance = 17.50 dBm = 56.3 mW

Note. Please refer to the operation descriptoin for the max tune-up.

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

= [(56.3mW / 40mm)] X [√2.48GHz] = 2.2

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(Bluetooth LE)

December 14, 2017

- Device category = ☑ Portable device ☐ Mobile device
- Transmitting mode = ☑ Single Transmitting ☐ Simultaneous Transmitting
- Max. transmitting frequency = 2480 MHz
- Min. test separation distance = 40 mm
- Max. Antenna Gain = 0.52 dBi
- Measured power(Average) = 0.46 dBm
- Max. power with turn-up tolerance = 1.50 dBm = 1.50 mW

Note. Please refer to the operation descriptoin for the max tune-up.

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

= [(1.5mW / 40mm)] X [√2.48GHz] = 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.