

Standalone SAR test exclusion considerations

December 18, 2017

- Device category = Portable device Mobile device
- Transmitting mode = Single Transmitting Simultaneous Transmitting
- Max. transmitting frequency = 2480 MHz
- Min. test separation distance = 5 mm
- Max. Antenna Gain = 1.99 dBi
- Max. power with turn-up tolerance = 0.00 dBm = 1.000 mW (Typical Power = Range: -1.00 dBm ± 1.00 dB

Note. Bluetooth (BDR)

KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation 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
= [(**1mW / 5mm**)] X [**√2.48GHz**] = **0.315**

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.

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- Min. test separation distance = 5 mm
- Max. Antenna Gain = 1.99 dBi
- Max. power with turn-up tolerance = -3.50 dBm = 0.447 mW (Typical Power = Range: -4.50 dBm ± 1.00 dB

Note. Bluetooth (EDR)

KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation 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
 = [(0.447mW / 5mm)] X [√2.48GHz] = 0.141

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- Min. test separation distance = 5 mm
- Max. Antenna Gain = 1.99 dBi
- Max. power with turn-up tolerance = 0.50 dBm = 1.123 mW (Typical Power = Range: -0.50 dBm ± 1.00 dB

Note. Bluetooth LE

KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation 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
= [(1.123mW / 5mm)] X [√2.48GHz] = 0.354

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.