

Standalone SAR test exclusion considerations

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- Device category = □ Portable device □ Mobile device

- Transmitting mode = □ Single Transmitting □ Simultaneous Transmitting

- Max. transmitting frequency = □ 919 MHz

- Min. test separation distance = □ 200 mm

- Max. Antenna Gain = □ -0.2 dBi

- Max. power with turn-up tolerance = □ 15.50 dBm = □ 35.5 mW (Typical Power = □ Max. □ 15.50 dBm )
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Note. The max power includes a correction factor of 10log(0.4) to cover an operational duty factor of 40% as the device will transmit a maximum of 3 transmit packets of 223ms each followed by 1000ms in receive only mode

KDB 447498 D01 clasue 4.3.1 Step 2-1) SAR test exclusion thresholds for 100MHz to 1500MHz at test separation distances > 50 mm [Threshold at 50 mm + (test separation distance - 50 mm) X (f(MHz) / 150)] mW = [0.17 + (200mm - 50mm) X (919MHz / 150)] = 919.2

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.

Maximum Permissible Exposure(MPE) evaluation for mobile device

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S = P G / (4 R^2 \pi), mW/cm<sup>2</sup>
S = Maximum power density
P = Maximum power with turn-up tolerance
G = Numeric power gain of the antenna R = Distance from transmitting antenna
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Conclusion: The exposure condition of this device is compliant with FCC rules.

The limit for maximum permissible exposure = 0.612666 mW/cm² (f/1500)