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## 13 RF Exposure

Test Requirement: FCC Part 1.1307

Evaluation Method 447498 D01 General RF Exposure Guidance v05r02

## 13.1 Requirements

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [ $\checkmark$  f(GHz)]  $\le$ 3.0 for 1-g SAR and  $\le$ 7.5 for 10-g extremity SAR where

- 1. f(GHz) is the RF channel transmit frequency in GHz
- 2. Power and distance are rounded to the nearest mW and mm before calculation
- 3. The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is <5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

## 13.2 The procedures / limit

Conducted Peak power(dBm)	Conducted Peak power(mW)	Source-based time- averaged maximum conducted output power(mW)	Minimum test separation distance required for the exposure conditions (mm)	SAR Test Exclusion Thresholds(mW)
-0.40	0.912	0.912	5	10

Remark: Max. duty factor is 100%

Calculation formula: Source-based time-averaged maximum conducted output power(mW) = Conducted peak power(mW)\*Duty factor

For frequency in 2.402GHz: SAR Test Exlusion Thresholds  $\leq$  3.0 / [  $\checkmark$  f(GHz)] \*(min. test separation distance, mm)=3.0/(  $\checkmark$  2.402) \*5=9.679 mW $\approx$ 10mW

For frequency in 2.480GHz: SAR Test Exlusion Thresholds  $\leq$  3.0 / [  $\sqrt$  f(GHz)] \*(min. test separation distance, mm)=3.0/(  $\sqrt$  2.480) \*5=9.525 mW $\approx$ 10mW