

## 12 RF Exposure

Test Requirement:	FCC Part 1.1307
Evaluation Method	447498 D01 General RF Exposure Guidance v05r02

## 12.1 Requirements

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

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

Freq. (MHz)	conducted power (dBm)	conducted power (mW)	Source-based time-averaged maximum conducted output power (mW)	Minimum test separation distance required for the exposure conditions (mm)	Computed value	SAR Test Exclusion Thresholds
177.00	15.00	31.623	31.623	5	2.661	3
197.70	13.38	21.777	21.777	5	1.937	3
213.74	12.06	16.069	16.069	5	1.486	3

## 12.2 The procedures / limit

Remark: Max. duty factor is 100%

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