

**RF EXPOSURE EVALUATION METHOD
(447498 D01 GENERAL RF EXPOSURE GUIDANCE V05)**

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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.

Maximum measured transmitter power(WIFI).

frequency	Maximum Peak Conducted Output Power	Maximum Average Conducted Output Power
GHz	dBm	dBm
2.412	12.83	9.53

Remark: $9.53 \text{ dbm} = 8.97 \text{ mW}$

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 8.97 / 5 * \sqrt{2.412} = 2.78 \leq 3.0$

Threshold at which no SAR required is 10mw and ≤ 3.0 for 1-g SAR, Separation distance is 5mm.

Maximum measured transmitter power(BT).

frequency	Maximum Peak Conducted Output Power
GHz	dBm
2.412	0.768

Remark: $0.768 \text{ dbm} = 1.19 \text{ mW}$

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 1.19 / 5 * \sqrt{2.402} = 0.39 \leq 3.0$

Threshold at which no SAR required is 10mw and ≤ 3.0 for 1-g SAR, Separation distance is 5mm.

Conclusion: No SAR is required.