

According to 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(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

$$\text{eirp} = \text{pt} \times \text{gt} = (\text{EXd})^2/30$$

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{((\text{dBuV/m})/20)/10^6}$

d = measurement distance in meters (m) ---3m

$$\text{So pt} = (\text{EXd})^2/30 \times \text{gt}$$

Field strength = 96.77dBuV/m @3m

Ant gain =0dBi, so Ant numeric gain= 1

$$\text{So pt} = \{ [10^{96.77/20}/10^6 \times 3]^2/30 \times 1 \} \times 1000 \text{ mW} = 1.426\text{mW}$$

$$\text{So } (1.426\text{mW} / 5\text{mm}) \times \sqrt{2.480} = 0.449 < 3$$

Then SAR evaluation is not required