



According to 447498 D01 General RF Exposure Guidance

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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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

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eirp = pt x gt = (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<sup>((dBuV/m)/20)</sup>/10<sup>6</sup>

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

So pt = (EXd)^2/30 x gt
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Field strength = 98.05dBuV/m @3m Ant gain =0.00dBi, so Ant numeric gain= 1.00

So pt={ $[10^{(98.05/20)}/10^6 \text{ x } 3]^2/30\text{x}1 \}\text{x}1000 \text{ mW} = 1.915\text{mW}$ So $(1.915\text{mW} /5\text{mm}) \text{ x } \sqrt{2.480} = 0.603 < 3$ So pt={ $[10^{(81.21/20)/10^6 \text{ x } 3]^2/30\text{x}1 }\text{x}1000 \text{ mW} = 0.04 \text{ mW}$ So $(0.04 \text{ mW} /5\text{mm}) \text{ x } \sqrt{0.0747} = 0.0022 < 3$ 0.603 + 0.0022 = 0.6052 < 3

Then SAR evaluation is not required