RF Exposure evaluation

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 \leq 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- ${}^{\bullet}$ 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^{((dBuV/m)/20)}/10^6

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

So pt = (EXd)^2/30 x gt
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Field strength = 94.01dBuV/m @3m
Ant gain 0dBi; so Ant numeric gain=1
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So pt={[10^{(94.01/20)}/10^6x3]^2/(30x1)}x1000mW = 0.76mW
So (0.76mW/5mm)x \sqrt{2.452GHz} = 0.24<3
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Then SAR evaluation is not required