RF Exposure evaluation

According to 447498 D01 General RF Exposure Guidance v06: 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)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

 $\ensuremath{\mbox{\sc f(GHz)}}$ is the RF channel transmit frequency in GHz.

Power and distance are rounded to the nearest ${\tt mW}$ and ${\tt mm}$ before calculation.

The result is rounded to one decimal place for comparison.

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eirp = p_t x g_t = (E \times d)^2/30 where: p_t = transmitter output power in watts, g_t = 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 p_t = (E \times d)^2/(30 \times g_t)
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Field strength = 70.55 dBuV/m @3m(AV)
Ant gain 0 dBi; so Ant numeric gain=1

So $p_t = \{ [10^{(70.55/20)}/10^6x3]^2/(30x1) \} x1000mW = 0.0034mW$ So $(0.0034mW/5mm) \times \sqrt{2.480GHz} = 0.001 < 3.0$ for 1-g SAR

Then SAR evaluation is not required.