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

f(GHz) is the RF channel transmit frequency in GHz.

Power and distance are rounded to the nearest $\ensuremath{\mathtt{mW}}$ and $\ensuremath{\mathtt{mM}}$ before calculation.

The result is rounded to one decimal place for comparison.

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eirp = p_t \ge g_t = (E \ge 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 \ge d)^2/(30 \ge g_t)
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Worse case is as below:

Field strength = $\underline{62.26}$ dBuV/m @3m Ant gain 0 dBi; so Ant numeric gain= $\underline{1}$

So $p_t = \{ [10^{(62.26/20)}/10^6 x3]^2/30 \} \times 1000 \text{mW} = 0.0005 \text{mW} \}$ So $(0.0005 \text{mW}/5 \text{mm}) \times \sqrt{0.43392} \text{ GHz} = 0.00006} < 3.0 \text{ for 1-g} SAR$

Then SAR evaluation is not required.