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

 $\ensuremath{\text{f(GHz)}}$ 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

Field strength = 89.76 dBuV/m @3m
Ant gain =-2.0dBi; so Ant numeric gain= 0.631
So pt= {[10<sup>(89.76 /20)</sup>/10<sup>6</sup> x3]²/30x0.631 }x1000 mW =0.45mW
So (0.45mW/5mm)x √2.474GHz = 0.14 <3
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Then SAR evaluation is not required