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)] • [$\sqrt{f(\text{GHz})}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

 $\ensuremath{\text{f}}\xspace(\ensuremath{\text{GHz}}\xspace)$ 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
Sopt = (EXd)²/30 x gt

Ant gain=0dBi ;so Ant numeric gain=1

Field strength =71.70dBuV/m @3m
So Pt={ [10<sup>(71.70/20)</sup>/10<sup>6</sup> x3]²/30x1 }x1000 mW = 0.0044 mW
So (0.0044 mW/5mm)x √0.31385 GHz =0.0005 < 3</pre>
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Then SAR evaluation is not required