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

 $\ensuremath{\text{f(GHz)}}$ 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^{((dBuV/m)/20)}/10^6

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

Sopt = (EXd)^2/30 x gt

Antenna Gain: 2.92dBi ;so Ant numeric gain= 1.96

Field strength = 92.38 dBuV/m @3m

So Pt={ [10^{(92.38/20)/10^6 \times 3]^2/30 \times 1.96} \times 1000 \text{ mW} = 0.265 \text{ mW}

So ( 0.265 mW/5mm) x \sqrt{2.440} GHz = 0.1 < 3
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Then SAR evaluation is not required