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)] \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
- $\boldsymbol{\cdot}$ Power and distance are rounded to the nearest mW and mm before calculation
- ${}^{\scriptstyle \bullet}$ 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

So pt = (EXd)^2/30 x gt

Ant gain =1 dBi ;so Ant numeric gain=1.26

Field strength =91.86dBuV/m @3m

So Pt={ [10^{(91.86/20)}/10^6 x3]^2/30x1.26 }x1000 mW = 0.37 mW

So ( 0.37 mW/5mm) x \sqrt{2.402} GHz = 0.115 < 3
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Then SAR evaluation is not required