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)] • [$\sqrt{f(GHz)}$] ≤ 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 ${\tt mW}$ and ${\tt mm}$ 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

So pt = (EXd)^2/30 x gt
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Field strength =77.11 dBuV/m @3m
Ant gain 0 dBi; so Ant numeric gain=1

So pt={ $[10^{(77.11/20)}/10^6 \text{ x3}]^2/30\text{x1}$ }x1000 mW =0.015 mW So (0.015 mW/5mm)x $\sqrt{0.434}$ GHz = 0.002 <3

Then SAR evaluation is not required