RF Exposure evaluation

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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 ≤ 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
\square 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
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 \times qt
Field strength =90.53 dBuV/m @3m
Ant gain 0 dBi; so Ant numeric gain=1
So pt=\{[10^{(90.53/20)}/10^6 \text{ x3}]^2/30\text{x1}\}\text{x1000 mW} = 0.339 \text{ mW}
So (0.339 \text{ mW/5mm}) \times \sqrt{2.453} \text{ GHz} = 0.106 < 3
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Then SAR evaluation is not required