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

Power and distance are rounded to the nearest $\ensuremath{\mathtt{mW}}$ and $\ensuremath{\mathtt{mW}}$ 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)}/10⁶ d = measurement distance in meters (m)---3m So pt = (EXd)²/30 x gt

Field strength = 89.13dBuV/m @3m
Ant gain =2.0dBi; so Ant numeric gain= 1.585

```
So pt= {[10^{(89.13/20)}/10^6 \text{ x3}]^2/30\text{x1.585}}x1000 mW =0.389 mW
So (0.389 mW/5mm)x \sqrt{2.410}GHz = 0.12 <3
```

Then SAR evaluation is not required