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)}/10^6
d = measurement distance in meters (m)---3m
So pt = (EXd)^2/30 x gt
```

Field strength = 89.75dBuV/m @3m Ant gain =-1.85dBi; so Ant numeric gain= 0.653

So pt={ $[10^{(89.75/20)}/10^6 \text{ x3}]^2/(30x0.653)$ }x1000 mW =0.434mW

```
So (0.434 \text{mW}/5 \text{mm}) \times \sqrt{2.403 \text{GHz}} = 0.13 < 3
```

Then SAR evaluation is not required