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)] \bullet [$\sqrt{f(\text{GHz})}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

 $\ensuremath{\text{f(GHz)}}$ 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 x gt

Field strength = 76.7dBuV/m @3m
Ant gain 0dBi ; so Ant numeric gain=1

So pt = \{[10^{(76.7 /20)}/10^6 \text{ x3}]^2/30\text{x1}\}\text{x1000 mW} = 0.014 \text{ mW}
So (0.014 \text{ mW/5mm}) x \sqrt{0.43392} GHz = 0.002 <3
```

Then SAR evaluation is not required