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)] • [ $\sqrt{f(GHz)}$ ]  $\leq$  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  $\ensuremath{\mathtt{mM}}$  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
Sopt = (EXd)^2/30 x gt
```

Ant gain= 1 dBi ; so Ant numeric gain= 1.26

Field strength =93.18dBµV/m @3m

```
So Pt={ [10^{(93.18/20)}/10^6 \text{ x3}]^2/30\text{x1.26} }x1000 mW = 0.5 mW
So ( 0.5 mW/5mm)x \sqrt{2.444} GHz =0.156 < 3
```

Then SAR evaluation is not required