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 \leqslant 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

 $\ensuremath{\mbox{f(GHz)}}$ is the RF channel transmit frequency in $\ensuremath{\mbox{GHz}}$

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison $% \left(1\right) =\left(1\right) \left(1\right) \left($

Worse case is as below: [2402 MHz 4dBm (2.5 mW) output power]

 $(2.5 \text{ mW} / 5\text{mm}) \cdot [\sqrt{2.402} (\text{GHz})] = 0.8 < 3.0 \text{ for } 1-\text{g SAR}$

Then SAR evaluation is not required