RF Exposure evaluation

According to KDB 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 ≤ 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 $\mathsf{m}\mathsf{W}$ and $\mathsf{m}\mathsf{m}$ before calculation

• The result is rounded to one decimal place for comparison

Worse case is as below: [2480 MHz 3.323 dBm (2.15mW) output power]

 $(2.15 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.480} (\text{GHz})] = 0.68 < 3.0 \text{ for } 1-\text{g SAR}$ Then SAR evaluation is not required