RF exposure letter

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 [\lor f(GHz)] \le 3.0 for 1-g SAR and \le 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 mW and mm before calculation
- The result is rounded to one decimal place for comparison

Worse case is as below: [2412 MHz 9.50dBm (8.9125 mW) output power]

 $(8.9125 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.412} (\text{GHz})] = 2.7683 < 3.0 \text{ for } 1-\text{g SAR}$

Then SAR evaluation is not required