



RF Exposure evaluation

According to 447498 and part 2.1093

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where } f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

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

The result is rounded to one decimal place for comparison

Here,

| Frequency (MHz) | Max power (dBm) | Max power (mW) | Min. distance (mm) | Calculation Value | Threshold Value |
|-----------------|-----------------|----------------|--------------------|-------------------|-----------------|
| 2480 | 9.13 | 8.18 | 5 | 2.58 | 3.0 |

So a SAR test is not required