

RF Exposure evaluation

According to 447498 D01 General RF Exposure Guidance v06
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:

$$[(\text{max. power of channel, including tune-up tolerance,} \\ \text{mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ 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:

Mode	Max. tune up Power (dBm)	Frequency (MHz)	Result	Limit
BT	4.5	2480	0.89	3.0
BLE	1.5	2480	0.44	3.0
The transmitters cannot transmit signals simultaneously				

the max. tune up power for BT is $4 \pm 0.5 \text{ dBm}$, and for BLE is $1 \pm 0.5 \text{ dBm}$, therefore, the worst evaluation is $0.89 < 3.0$ for 1-g SAR, Then SAR evaluation is not required.