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## 7.7 RF Exposure Considerations (KDB 447498 D01)

The 1 g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 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

- 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.
- When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied.

Band	Freq.	Max. Power		Distance Thursday	Test	
	(MHz)	(dBm)	(mW)	(mm)	Threshold	Exclusion
Bluetooth LE	2480	-5.0	0.3	< 5	0.1	YES

The minimum user separation distance was assumed to be 0 mm for the purpose of the SAR exclusion calculations.

## **Conclusion:**

The device for BLE qualifies for the Standalone SAR test exclusion because the computed value is < 3.