

FCC ID: 2BFOV-KB616

RF Exposure evaluation

According to 447498 D01 and 47CRF 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:

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

For BLE

Frequency	Max power	Max power	Min. distance	Calculation	Threshold
(MHz)	(dBm)	(mW)	(mm)	Value	Value
2402	1.09	1.53	5	0.47	3.0

For 2.4G

Fre. (GHz)	E (dBuV/m)	EIRP (dBm)	Max ERP (dBm)	Max ERP (mW)	Separation distance (mm)	Calculation Value	Threshol d Value
2.480	97.37	2.17	0.02	1	5	0.31	3.0

- 1. EIRP(dBm) = E(dBuV/m)-95.2=97.37 (dBuV/m)-95.2=2.17dBm
- 2. ERP= EIRP(dBm)-2.15

So SAR test is not required