

RF Exposure Evaluation

According to KDB 447498 and part 2.1093, Unless specifically required by the *published RF exposure KDB procedures*, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding *SAR Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR, and ≤ 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

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For BLE

Test Mode	Channel Frequency(MHz)	Peak Power Output(dBm)
BLE 1M	2402	-10.755
	2442	-9.975
	2480	-9.511
BLE 2M	2402	-10.709
	2442	-9.937
	2480	-9.477

Test Mode	Channel Frequency (MHz)	Tune up tolerance(dBm)	Max tune up conducted power(dBm)	Output Peak power (mW)	Calculation Result	Limits
	2402	-10±1	-9	0.13	0.0390	3
BLE 1M	2442	-9±1	-8	0.16	0.0495	3
	2480	-9±1	-8	0.16	0.0499	3
	2402	-10±1	-9	0.13	0.0390	3
BLE 2M	2442	-9±1	-8	0.16	0.0495	3
	2480	-9±1	-8	0.16	0.0499	3

So a SAR test is not required