## **RF Exposure Evaluation**

According to KDB 447498 V06 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 ≤ 5 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  $\le 7.5$  for 10-g extremity SAR, where

f<sub>(GHz)</sub> 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,

	Mode	Frequency	Max	Target power	Max tune up	Max	Min.	Calc.	limit
		(MHz)	Power	W/ tolerance	power	Power	Distance	thresholds	
			(dBm)	(dBm)	tolerance	(mW)	(mm)		
					(dBm)				
BLE	GFSK	2402	2.83	3±1.0	4	2.5119	5	0.7786	3.0
		2440	3.23	3±1.0	4	2.5119	5	0.7849	3.0
		2480	2.50	3±1.0	4	2.5119	5	0.7911	3.0

So a SAR test is not required