FCC ID: 2BEOA-K30

## **RF Exposure Evaluation**

According to *KDB 447498 D01 General RF Exposure Guidance 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)]  $\cdot$  [ $\sqrt{f_{(GHz)}}$ ]  $\leq$  3.0 for 1-g SAR, and  $\leq$  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	Freque	Max	Target power	Max tune	Max Power	Min.	Calc.	limit
		ncy	Power	W/ tolerance	up power	(mW)	Distance	thresholds	
		(MHz)	(dBm)	(dBm)	tolerance		(mm)		
					(dBm)				
BLE	GFSK	2402	-2.97	-2±1	-1	0.7943	5.00	0.2462	3.0
		2440	-2.39	-2±1	-1	0.7943	5.00	0.2482	3.0
		2480	-2.28	-2±1	-1	0.7943	5.00	0.2502	3.0
Wifi2.4g	802.11b	2412	8.96	8±1	9	6.3096	5.00	1.9598	3.0
		2437	8.68	8±1	9	6.3096	5.00	1.9700	3.0
		2462	8.94	8±1	9	6.3096	5.00	1.9800	3.0
	802.11g	2412	7.60	7±1	8	6.3096	5.00	1.9598	3.0
		2437	7.00	7±1	8	6.3096	5.00	1.9700	3.0
		2462	7.41	7±1	8	6.3096	5.00	1.9800	3.0
	802.11 n20	2412	7.53	7±1	8	6.3096	5.00	1.9598	3.0
		2437	7.97	7±1	8	6.3096	5.00	1.9700	3.0
		2462	7.34	7±1	8	6.3096	5.00	1.9800	3.0
	802.11 n40	2422	7.06	7±1	8	6.3096	5.00	1.9639	3.0
		2437	7.06	7±1	8	6.3096	5.00	1.9700	3.0
		2452	7.53	7±1	8	6.3096	5.00	1.9760	3.0

In the case of simultaneous launches for wifi and BT:

The Max Calc. Thresholds : BLE:1.24 dBi, Wifi2.4: 2.71dBi
Calc. Thresholds : 1.9800/3+0.2502/3=0.66+0.0834 =0.7434 ≤ 1

So a SAR test is not required