

# 1. RF EXPOSURE EVALUATION

## Test Result of RF Exposure Evaluation

According to the KDB-447498 D01 V06, FCC 47CFR § 2.1093 the following RF exposure evaluation shall to demonstrate RF exposure compliance.

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

\*  $[\sqrt{f(\text{GHz})}]$

BT3.0

	Peak Output power	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Maximum Output Power: mW	Separation distance mm	RF exposure
1Mbps						
2402	1.877	2.0±1.0	3.0	1.995	5	0.618
2441	1.458	2.0±1.0	3.0	1.995	5	0.623
2480	2.777	2.0±1.0	3.0	1.995	5	0.628
2Mbps						
2402	0.559	0.5±1.0	1.5	1.413	5	0.438
2441	-0.182	0.5±1.0	1.5	1.413	5	0.442
2480	0.857	0.5±1.0	1.5	1.413	5	0.445
3Mbps						
2402	0.804	0.5±1.0	1.5	1.413	5	0.438
2441	0.017	0.5±1.0	1.5	1.413	5	0.442
2480	1.040	0.5±1.0	1.5	1.413	5	0.445

## WIFI

	Average Conducted Output Power (dBm)	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Maximum Average Output Power: mW	Separation distance mm	RF exposure
802.11B						
2412	9.21	8.5±1.0	9.5	8.913	5	2.768
2437	9.15	8.5±1.0	9.5	8.913	5	2.744
2462	9.26	8.5±1.0	9.5	8.913	5	2.885
802.11G						
2412	8.14	8.0±1.0	9.0	7.943	5	2.467
2437	8.53	8.0±1.0	9.0	7.943	5	2.446
2462	8.31	8.0±1.0	9.0	7.943	5	2.571
802.11N(20)						
2412	7.85	7.0±1.0	8.0	6.310	5	1.960
2437	7.54	7.0±1.0	8.0	6.310	5	1.943
2462	7.73	7.0±1.0	8.0	6.310	5	2.043
802.11N(40)						
2422	7.33	7.0±1.0	8.0	6.310	5	1.964
2437	7.36	7.0±1.0	8.0	6.310	5	1.943
2452	7.43	7.0±1.0	8.0	6.310	5	2.003

The Max RF exposure is 2.885

Threshold at which no SAR required is  $\leq 3.0$  for 1-g SAR, Separation distance is 5mm.

**Conclusion:**

So no SAR is required.