

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	2.5±1.0	3.5	2.239	5	0.694
2441	1.458	2.5±1.0	3.5	2.239	5	0.700
2480	2.777	2.5±1.0	3.5	2.239	5	0.705
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	1.0±1.0	2.0	1.585	5	0.491
2441	0.017	1.0±1.0	2.0	1.585	5	0.495
2480	1.040	1.0±1.0	2.0	1.585	5	0.499

BT4.0

	Peak Output power	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Maximum Output Power: mW	Separation distance mm	RF exposure
2402	1.754	2 ±1.0	3.0	1.995	5	0.618
2440	2.231	2±1.0	3.0	1.995	5	0.623
2480	2.632	2 ±1.0	3.0	1.995	5	0.628

The Max RF exposure is 0.705.

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

Conclusion:

So no SAR is required.