

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	-0.655	-0.5±1.0	0.5	1.122	5	0.348
2441	-0.771	-0.5±1.0	0.5	1.122	5	0.351
2480	-1.032	-0.5±1.0	0.5	1.122	5	0.353
2Mbps						
2402	-3.580	-3±1.0	-2	0.631	5	0.196
2441	-2.563	-3±1.0	-2	0.631	5	0.197
2480	-2.363	-3±1.0	-2	0.631	5	0.199
3Mbps						
2402	-3.240	-3±1.0	-2	0.631	5	0.196
2441	-2.321	-3±1.0	-2	0.631	5	0.197
2480	-2.221	-3±1.0	-2	0.631	5	0.199

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	-1.816	-2 ±1.0	-1.0	0.794	5	0.246
2440	-2.352	-2±1.0	-1.0	0.794	5	0.248
2480	-2.037	-2±1.0	-1.0	0.794	5	0.250

WIFI 2.4G

	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	7.91	8±1.0	9	7.943	5	2.467
2437	8.47	8±1.0	9	7.943	5	2.480
2462	8.58	8±1.0	9	7.943	5	2.493
802.11G						
2412	7.36	7±1.0	8	6.310	5	1.960
2437	7.24	7±1.0	8	6.310	5	1.970
2462	7.29	7±1.0	8	6.310	5	1.980
802.11N(20)						
2412	7.39	7±1.0	8	6.310	5	1.960
2437	7.01	7±1.0	8	6.310	5	1.970
2462	7.24	7±1.0	8	6.310	5	1.980
802.11N(40)						
2422	6.94	6±1.0	7	5.012	5	1.560
2437	6.67	6±1.0	7	5.012	5	1.565
2452	6.71	6±1.0	7	5.012	5	1.570

The Max RF exposure is 2.493

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

Conclusion:

So no SAR is required.