



APPENDIX I
: RF EXPOSURE EVALUATION



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

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

IEEE 802.11b

Frequency	Average Conducted Output Power(dBm)	Target Power /tolerance (dBm)	Max tune up power Tolerance (dBm)	Maximum Average Output Power(mW)	Separation Distance (mm)	RF Exposure
2412	4.52	4.5 ± 1.0	5.5	3.548	5	1.10
2437	4.05	4.5 ± 1.0	5.5	3.548	5	1.10
2462	4.19	4.5 ± 1.0	5.5	3.548	5	1.10

IEEE 802.11g

Frequency	Average Conducted Output Power(dBm)	Target Power /tolerance (dBm)	Max tune up power Tolerance (dBm)	Maximum Average Output Power(mW)	Separation Distance (mm)	RF Exposure
2412	5.06	4.5 ± 1.0	5.5	3.548	5	1.10
2437	4.64	4.5 ± 1.0	5.5	3.548	5	1.10
2462	4.47	4.5 ± 1.0	5.5	3.548	5	1.10

IEEE 802.11n

Frequency	Average Conducted Output Power(dBm)	Target Power /tolerance (dBm)	Max tune up power Tolerance (dBm)	Maximum Average Output Power(mW)	Separation Distance (mm)	RF Exposure
2412	4.95	4.5 ± 1.0	5.5	3.548	5	1.10
2437	4.56	4.5 ± 1.0	5.5	3.548	5	1.10
2462	4.36	4.5 ± 1.0	5.5	3.548	5	1.10

The Max RF exposure is 1.10

Threshold at which no SAR required is << 3 for 1-g SAR, Separation distance is 5 mm

Conclusion:

So no SAR is required.