



APPENDIX L

: 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	4.56	5.5 ±1.0	6.5	4.467	5	1.387
2437	4.97	5.5 ±1.0	6.5	4.467	5	1.395
2462	5.48	5.5 ±1.0	6.5	4.467	5	1.402

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	5.00	5.5 ±1.0	6.5	4.467	5	1.387
2437	5.15	5.5 ±1.0	6.5	4.467	5	1.395
2462	5.78	5.5 ±1.0	6.5	4.467	5	1.402

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	5.23	5.5 ±1.0	6.5	4.467	5	1.387
2437	5.61	5.5 ±1.0	6.5	4.467	5	1.395
2462	6.11	5.5 ±1.0	6.5	4.467	5	1.402

The Max RF exposure is 1.402

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

Conclusion:

So no SAR is required.