

**RF Exposure Evaluation for FCC:****SAR Test Exclusion Calculations****FCC: According to KDB 447498 D01 v06.**

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Test Result of RF Exposure Evaluation

We use 5mm as separation distance to calculated.

DTS:2.4G WiFi

Antenna Gain: 1.11dBi

Modulation	Channel Freq. (MHz)	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up	Result	Limit 1-g SAR
				power(dBm)	calculation	
802.11b	2412	8.55	8 $\pm$ 1	9	2.4673	3
	2437	8.27	8 $\pm$ 1	9	2.4800	3
	2462	8.93	8 $\pm$ 1	9	2.4927	3
802.11g	2412	8.91	8 $\pm$ 1	9	2.4673	3
	2437	8.45	8 $\pm$ 1	9	2.4800	3
	2462	8.18	8 $\pm$ 1	9	2.4927	3
802.11n HT20	2412	8.78	8 $\pm$ 1	9	2.4673	3
	2437	7.30	7 $\pm$ 1	8	1.9700	3
	2462	7.00	7 $\pm$ 1	8	1.9800	3
802.11n HT40	2422	7.60	7 $\pm$ 1	8	1.9639	3
	2437	7.79	7 $\pm$ 1	8	1.9700	3
	2452	8.22	8 $\pm$ 1	9	2.4877	3

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure.