

11.MPE ESTIMATION

11.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency(MHz)	Power density (mW/ cm ²)	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

11.2. Estimation Result

EUT:150Mbps Wireless N Router		
M/N: TL-WR740N		
Test date: 2014-11-07	Pressure: 101.2±1.0 kpa	Humidity: 49.7±3.0%
Tested by: Kobe_Huang	Test site: RF site	Temperature:22.6±0.6 °C

Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	PSD (mW /cm ²)
11b	CH1	2412	17.58	57.28	5	3.16	0.0361
	CH6	2437	17.61	57.68	5	3.16	0.0363
	CH11	2462	17.47	55.85	5	3.16	0.0352
11g	CH1	2412	14.25	26.61	5	3.16	0.0167
	CH6	2437	17.68	58.61	5	3.16	0.0369
	CH11	2462	16.92	49.20	5	3.16	0.0310
11n HT20	CH1	2412	12.65	18.41	5	3.16	0.0116
	CH6	2437	17.65	58.21	5	3.16	0.0366
	CH11	2462	13.21	20.94	5	3.16	0.0132
11n HT40	CH3	2422	12.02	15.92	5	3.16	0.0100
	CH6	2437	17.61	57.68	5	3.16	0.0363
	CH9	2452	12.73	18.75	5	3.16	0.0118

$$MPE = \frac{PG}{4\pi R^2} \quad (R=20cm)$$