

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: 300Mbps Wireless N Gigabit Router		
M/N: TL-WR1042ND		
Test date:2012-01-09	Pressure: 101.6 kpa	Humidity: 49.5%
Tested by: Leo-Li	Test site: RF Site	Temperature : 23.6°C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 3 dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	18.84	76.56	3	2.00	0.0304
	CH6	2437	18.98	79.07	3	2.00	0.0314
	CH11	2462	19.25	84.14	3	2.00	0.0334
11g	CH1	2412	22.13	163.31	3	2.00	0.0649
	CH6	2437	22.35	171.79	3	2.00	0.0682
	CH11	2462	22.48	177.01	3	2.00	0.0703
11n HT20	CH1	2412	22.11	162.55	3	2.00	0.0646
	CH6	2437	22.08	161.44	3	2.00	0.0641
	CH11	2462	21.98	157.76	3	2.00	0.0627
11n HT40	CH1	2422	21.05	127.35	3	2.00	0.0506
	CH4	2437	21.12	129.42	3	2.00	0.0514
	CH7	2452	21.08	128.23	3	2.00	0.0509

Note: The estimation distance is 20cm