

10.MPE ESTIMATION

10.1.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 Estimation Result

EUT: 2.4GHz 150Mbps Indoor/Outdoor Wireless Access Point		
M/N: TL-WA7210N		
Test date: 2013-11-21	Pressure: 101.3±1.0 kpa	Humidity: 50.4±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:20.1±0.6 °C
Antenna Gain	Vertical&Horional Antenna: 12dBi	External Antenna: 5dBi

Cable loss: 1 dB			Attenuator loss: 20 dB					
Antenna Type	Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
Vertical	11b	CH1	2412	14.53	28.38	12	15.85	0.0895
		CH6	2437	17.16	52.00	12	15.85	0.1640
		CH11	2462	14.65	29.17	12	15.85	0.0920
	11g	CH1	2412	17.56	57.02	12	15.85	0.1799
		CH6	2437	22.18	165.20	12	15.85	0.5211
		CH11	2462	18.41	69.34	12	15.85	0.2188
	11n HT20	CH1	2412	17.45	55.59	12	15.85	0.1754
		CH6	2437	22.38	172.98	12	15.85	0.5457
		CH11	2462	17.65	58.21	12	15.85	0.1836
	11n HT40	CH1	2422	17.38	54.70	12	15.85	0.1726
		CH4	2437	19.59	90.99	12	15.85	0.2870
		CH7	2452	16.61	45.81	12	15.85	0.1445

External	11b	CH1	2412	13.55	22.65	5	3.16	0.0143
		CH6	2437	16.76	47.42	5	3.16	0.0299
		CH11	2462	13.57	22.75	5	3.16	0.0143
	11g	CH1	2412	16.62	45.92	5	3.16	0.0289
		CH6	2437	22.58	181.13	5	3.16	0.1140
		CH11	2462	17.44	55.46	5	3.16	0.0349
	11n HT20	CH1	2412	16.44	44.06	5	3.16	0.0277
		CH6	2437	22.31	170.22	5	3.16	0.1071
		CH11	2462	16.68	46.56	5	3.16	0.0293
	11n HT40	CH1	2422	16.43	43.95	5	3.16	0.0277
		CH4	2437	18.60	72.44	5	3.16	0.0456
		CH7	2452	15.62	36.48	5	3.16	0.0230
Horizontal	11b	CH1	2412	15.11	32.43	12	15.85	0.1023
		CH6	2437	17.65	58.21	12	15.85	0.1836
		CH11	2462	14.54	28.44	12	15.85	0.0897
	11g	CH1	2412	18.59	72.28	12	15.85	0.2280
		CH6	2437	23.11	204.64	12	15.85	0.6456
		CH11	2462	18.25	66.83	12	15.85	0.2108
	11n HT20	CH1	2412	18.29	67.45	12	15.85	0.2128
		CH6	2437	23.33	215.28	12	15.85	0.6791
		CH11	2462	18.08	64.27	12	15.85	0.2027
	11n HT40	CH1	2422	17.38	54.70	12	15.85	0.1726
		CH4	2437	19.04	80.17	12	15.85	0.2529
		CH7	2452	16.53	44.98	12	15.85	0.1419

Note: $MPE = PG/4 \pi R^2$ P=Output Power; G=Antenna Gain; R=20cm