

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

10.2. Estimation Result

EUT: WIFI Module		
M/N:WAE22-DF01-AR		
Test date: 2013-09-13	Pressure: 101.2±1.0 kpa	Humidity: 48.4±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:20.7±0.6 °C

2.4G:

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 3.3dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	16.98	49.89	3.3	2.14	0.0212
	CH6	2437	15.57	36.06	3.3	2.14	0.0153
	CH11	2462	16.56	45.29	3.3	2.14	0.0193
11g	CH1	2412	20.94	124.17	3.3	2.14	0.0528
	CH6	2437	22.64	183.65	3.3	2.14	0.0782
	CH11	2462	20.14	103.28	3.3	2.14	0.0439
11n HT20	CH1	2412	21.55	142.89	3.3	2.14	0.0608
	CH6	2437	24.53	283.79	3.3	2.14	0.1208
	CH11	2462	22.99	199.07	3.3	2.14	0.0847
11n HT40	CH1	2422	20.79	119.95	3.3	2.14	0.0510
	CH4	2437	24.39	274.79	3.3	2.14	0.1169
	CH7	2452	21.96	157.04	3.3	2.14	0.0668

5.8G:

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 3.7dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH149	5745	8.56	7.18	3.7	2.34	0.0033
	CH157	5785	9.68	9.29	3.7	2.34	0.0043
	CH165	5825	9.01	7.96	3.7	2.34	0.0037
11n HT20	CH149	5745	11.05	12.74	3.7	2.34	0.0059
	CH157	5785	14.42	27.67	3.7	2.34	0.0129
	CH165	5825	11.70	14.79	3.7	2.34	0.0069
11n HT40	CH151	5755	11.59	14.42	3.7	2.34	0.0067
	CH159	5795	13.03	20.09	3.7	2.34	0.0094