

## 11.MPE ESTIMATION

### 11.1.Limit for General Population/ Uncontrolled Exposures

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

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

Note: F= Frequency in MHz

### 11.2. Estimation Result

EUT:AC750 Wireless Dual Band Router		
M/N:C20i		
Test date: 2014-06-07	Pressure: 101.6±1.0 kpa	Humidity: 48.4±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB			Antenna Gain: 3.5dBi		
Test Mode	CH	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH36	5180	14.34	27.16	3.5	2.24	0.0121
	CH40	5200	14.17	26.12	3.5	2.24	0.0116
	CH48	5240	13.97	24.95	3.5	2.24	0.0111
11n HT20	CH36	5180	15.02	31.77	3.5	2.24	0.0142
	CH40	5200	14.38	27.42	3.5	2.24	0.0122
	CH48	5240	14.18	26.18	3.5	2.24	0.0117
11n HT40	CH38	5190	14.66	29.24	3.5	2.24	0.0130
	CH46	5230	16.37	43.35	3.5	2.24	0.0193
11ac VHT20	CH36	5180	15.11	32.43	3.5	2.24	0.0145
	CH40	5200	14.38	27.42	3.5	2.24	0.0122
	CH48	5240	14.19	26.24	3.5	2.24	0.0117
11ac VHT40	CH38	5190	14.75	29.85	3.5	2.24	0.0133
	CH46	5230	15.28	33.73	3.5	2.24	0.0150
11ac VHT80	CH42	5210	13.41	21.93	3.5	2.24	0.0098

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