

## 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: 150 Mbps 4-Port Wireless Broadband Router		
M/N: SMCWBR14S-N5		
Test date:2013-02-21	Pressure: 101.3±1.0 kpa	Humidity: 53.6±3.0 %
Tested by: Leo-Li	Test site: RF Site	Temperature : 24.8±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 5 dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	18.99	79.25	5	3.16	0.0499
	CH6	2437	19.49	88.92	5	3.16	0.0560
	CH11	2462	18.58	72.11	5	3.16	0.0454
11g	CH1	2412	20.07	101.62	5	3.16	0.0640
	CH6	2437	26.74	472.06	5	3.16	0.2971
	CH11	2462	18.86	76.91	5	3.16	0.0484
11n HT20	CH1	2412	18.92	77.98	5	3.16	0.0491
	CH6	2437	26.66	463.45	5	3.16	0.2917
	CH11	2462	18.22	66.37	5	3.16	0.0418
11n HT40	CH1	2422	18.73	74.64	5	3.16	0.0470
	CH4	2437	25.89	388.15	5	3.16	0.2443
	CH7	2452	17.41	55.08	5	3.16	0.0347