

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

2.4GHz

EUT:AC750 Wireless Dual Band Gigabit Router		
M/N:C2		
Test date: 2014-05-09	Pressure: 101.2±1.0 kpa	Humidity: 48.4±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:20.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 2dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	25.08	322.11	2	1.58	0.1016
	CH6	2437	23.87	243.78	2	1.58	0.0769
	CH11	2462	23.33	215.28	2	1.58	0.0679
11g	CH1	2412	26.64	461.32	2	1.58	0.1455
	CH6	2437	26.68	465.59	2	1.58	0.1469
	CH11	2462	24.48	280.54	2	1.58	0.0885
11n HT20	CH1	2412	26.32	428.55	2	1.58	0.1352
	CH6	2437	25.19	330.37	2	1.58	0.1042
	CH11	2462	23.98	250.03	2	1.58	0.0789
11n HT40	CH1	2422	24.87	306.90	2	1.58	0.0942
	CH4	2437	24.71	295.80	2	1.58	0.0889
	CH7	2452	24.30	269.15	2	1.58	0.0837

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

5.8GHz

EUT:AC750 Wireless Dual Band Gigabit Router		
M/N:C2		
Test date: 2014-05-09	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: 3dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH149	5745	24.33	271.02	3	2.00	0.1076
	CH157	5785	24.31	269.77	3	2.00	0.1071
	CH165	5825	24.49	281.19	3	2.00	0.1117
11n HT20	CH149	5745	24.25	266.07	3	2.00	0.1057
	CH157	5785	24.18	261.82	3	2.00	0.1040
	CH165	5825	24.45	278.61	3	2.00	0.1106
11n HT40	CH151	5755	24.48	280.54	3	2.00	0.1114
	CH159	5795	24.41	276.06	3	2.00	0.1096
11ac VHT20	CH149	5745	24.23	264.85	3	2.00	0.1052
	CH157	5785	24.16	260.62	3	2.00	0.1035
	CH165	5825	24.49	281.19	3	2.00	0.1117
11ac VHT40	CH151	5755	24.46	279.25	3	2.00	0.1109
	CH159	5795	24.41	276.06	3	2.00	0.1096
11ac VHT80	CH155	5775	24.47	279.90	3	2.00	0.1112