

9. MPE ESTIMATION

9.1. 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

Note: F= Frequency in MHz

9.2. Estimation Result

U-NII 5180-5240MHz Band

EUT: 40" LCD PC		
M/N: INF4030		
Test date: 2015-09-12	Pressure: 101.2±1.0 kpa	Humidity: 52.8±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature: 23.4±0.6

Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH36	2412	6.97	4.98	3.43	2.20	0.2181
	CH40	2437	7.02	5.04	3.43	2.20	0.2206
	CH48	2462	6.41	4.38	3.43	2.20	0.1917
11n HT20	CH36	2412	6.27	4.24	3.43	2.20	0.1856
	CH40	2437	6.2	4.17	3.43	2.20	0.1827
	CH48	2462	5.65	3.67	3.43	2.20	0.1610
11n HT40	CH38	2422	6.93	4.93	3.43	2.20	0.2161
	CH46	2437	6.37	4.34	3.43	2.20	0.1900

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

U-NII 5745-5825MHz Band

EUT: 40" LCD PC		
M/N: INF4030		
Test date: 2015-09-12	Pressure: 101.2±1.0 kpa	Humidity: 52.8±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature: 23.4±0.6

Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	7.62	5.78	3.43	2.20	0.2533
	5785	8.14	6.52	3.43	2.20	0.2856
	5825	8.04	6.37	3.43	2.20	0.2791
11n HT20	5745	6.93	4.93	3.43	2.20	0.2161
	5785	7.39	5.48	3.43	2.20	0.2403
	5825	7.54	5.68	3.43	2.20	0.2487
11n HT40	5755	7.77	5.98	3.43	2.20	0.2622
	5795	8.22	4.34	3.43	2.20	0.2909

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