MPE ESTIMATION
FCC ID: 2AJ9R-S805

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

2, Estimation Result

For antenna 1:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm^2)
11b	17.24	17±1(18)	63.10	2	1.585	0.0199
11g	16.48	17±1(18)	63.10	2	1.585	0.0199
11n/HT20	15.59	15±1(16)	39.81	2	1.585	0.0126
11n/HT40	14.37	15±1(16)	39.81	2	1.585	0.0126

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report UNI1601026046-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	CH1	17.12	51.52	2	1.585	0.0162
	CH6	17.24	52.97	2	1.585	0.0167
	CH11	17.18	52.24	2	1.585	0.0165
11g	CH1	16.48	44.46	2	1.585	0.014
	CH6	16.37	43.35	2	1.585	0.0137
	CH11	16.42	43.85	2	1.585	0.0138
11n/HT20	CH1	15.59	36.22	2	1.585	0.0114
	CH6	15.46	35.16	2	1.585	0.0111
	CH11	15.53	35.73	2	1.585	0.0113
11n/HT40	CH1	14.21	26.36	2	1.585	0.0083
	CH4	14.37	27.35	2	1.585	0.0086
	CH7	14.29	26.85	2	1.585	0.0085

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report UNI1601026046-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi.

For antenna 2:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	17.65	17±1(18)	63.10	2	1.585	0.0199
11g	16.94	17±1(18)	63.10	2	1.585	0.0199
11n/HT20	16.07	16±1(17)	50.12	2	1.585	0.0158
11n/HT40	14.83	15±1(16)	39.81	2	1.585	0.0126

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report UNI1601026046-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	CH1	17.65	58.21	2	1.585	0.0184
	CH6	17.49	56.10	2	1.585	0.0177
	CH11	17.58	57.28	2	1.585	0.0181
11g	CH1	16.94	49.43	2	1.585	0.0156
	CH6	16.82	48.08	2	1.585	0.0152
	CH11	16.86	48.53	2	1.585	0.0153
11n/HT20	CH1	16.07	40.46	2	1.585	0.0128
	CH6	16.02	39.99	2	1.585	0.0126
	CH11	16.05	40.27	2	1.585	0.0127
11n/HT40	CH1	14.83	30.41	2	1.585	0.0096
	CH4	14.76	29.92	2	1.585	0.0094
	CH7	14.81	30.27	2	1.585	0.0095

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report UNI1601026046-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi.

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