

MPE ESTIMATION

FCC ID: 2AL94-GXWRP300C

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	18.26	18±1(19)	79.43	2	1.585	0.02506
11g	17.48	17±1(18)	63.10	2	1.585	0.01991
11n/HT20	16.56	16±1(17)	50.12	2	1.585	0.01581
11n/HT40	15.33	15±1(16)	39.81	2	1.585	0.01256

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK170511021-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	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	18.58	18±1(19)	79.43	2	1.585	0.02506
11g	17.92	17±1(18)	63.10	2	1.585	0.01991
11n/HT20	17.24	17±1(18)	63.10	2	1.585	0.01991
11n/HT40	15.82	15±1(16)	39.81	2	1.585	0.01256

Note:

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note: The estimation distance is 20cm

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PK Output power= conducted power.

Conducted power see the test report HK170511021-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	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	--	--	--	--	--	--
11g	--	--	--	--	--	--
11n/HT20	19.86	19±1(20)	100	2	1.585	0.03155
11n/HT40	18.55	19±1(20)	100	2	1.585	0.03155

$$Pd = \frac{P_{out} * G}{4\pi r^2} ;$$

Note:

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Conducted power see the test report HK170511021-E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=2dBi, antenna port 2 gain=2dBi.

$$Pd = \frac{P_{out} * G}{4\pi r^2} ;$$

Note:

Note: The estimation distance is 20cm

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PK Output power= conducted power.

Conducted power see the test report HK170511021-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/cm ²)
11b	CH1	--	--	--	--	--
	CH6	--	--	--	--	--
	CH11	--	--	--	--	--
11g	CH1	--	--	--	--	--
	CH6	--	--	--	--	--
	CH11	--	--	--	--	--
11n/HT20	CH1	19.82	95.94	2	1.585	0.03027
	CH6	19.85	96.61	2	1.585	0.03048
	CH11	19.86	96.83	2	1.585	0.03055
11n/HT40	CH1	18.55	71.61	2	1.585	0.02259
	CH4	18.54	71.45	2	1.585	0.02254
	CH7	18.41	69.34	2	1.585	0.02188
$Pd = \frac{P_{out} * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK170511021-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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