



MPE ESTIMATION

**Test report
On Behalf of
Shenzhen Zidoo Technology Co., Ltd.
For
4K UHD Media Player**

**Model No.: Z1000, Z2000, Z3000, Z5000, Z6000 · Z7000,
Z8000, Z9000, UHD1000, UHD2000, UHD3000, UHD5000,
UHD6000, UHD7000, UHD8000, UHD9000, Z1000 PRO,
Z2000 PRO, Z3000 PRO, Z5000 PRO, Z6000 PRO,
Z7000 PRO, Z8000 PRO, Z9000 PRO**

FCC ID: 2AGN7-Z1000

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Date of Test: Apr. 03, 2019 ~ Apr. 18, 2019

Date of Report: Apr. 18, 2019

Report Number: HK1904110796-4E

**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:****2.4G WIFI**

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	14.45	14±1(15)	31.62	1	1.2589	0.00792
11g	13.68	13±1(14)	25.12	1	1.2589	0.00629
11n/HT20	10.65	10±1(11)	12.59	1	1.2589	0.00315
11n/HT40	10.02	10±1(11)	12.59	1	1.2589	0.00315

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904110796-1E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

**5.2G WIFI**

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)
11a	10.67	10±1(11)	12.59	1	1.2589	0.00315
11n(HT20)	9.99	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.71	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	9.94	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT40)	9.15	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT80)	8.99	8±1(9)	7.94	1	1.2589	0.00199

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904110796-2E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

5.8G WIFI

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)
11a	10.69	10±1(11)	12.59	1	1.2589	0.00315
11n(HT20)	9.99	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.78	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	9.74	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT40)	8.89	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT80)	8.80	8±1(9)	7.94	1	1.2589	0.00199

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904110796-3E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

**For antenna 2:****2.4G WIFI**

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	14.52	14±1(15)	31.62	1	1.2589	0.00792
11g	12.52	12±1(13)	19.95	1	1.2589	0.00500
11n/HT20	11.02	11±1(12)	15.85	1	1.2589	0.00397
11n/HT40	10.01	10±1(11)	12.59	1	1.2589	0.00315

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904110796-1E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

5.2G WIFI

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)
11a	10.76	10±1(11)	12.59	1	1.2589	0.00315
11n(HT20)	9.99	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.99	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	9.95	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT40)	8.78	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT80)	9.06	9±1(10)	10.00	1	1.2589	0.00251

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904110796-2E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

**5.8G WIFI**

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)
11a	10.79	10±1(11)	12.59	1	1.2589	0.00315
11n(HT20)	9.88	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.79	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	9.84	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT40)	8.58	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT80)	8.91	8±1(9)	7.94	1	1.2589	0.00199

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904110796-3E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

For MIMO:**2.4G WIFI**

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	13.78	13±1(14)	25.12	4.01	2.518	0.01256
11n/HT40	12.96	12±1(13)	19.95	4.01	2.518	0.00998

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904110796-1E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

**5.2G WIFI**

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	--	--	--	--	--	--
11n(HT20)	13.00	12±1(13)	19.95	4.01	2.518	0.00998
11n(HT40)	12.84	12±1(13)	19.95	4.01	2.518	0.00998
11ac(HT20)	12.96	12±1(13)	19.95	4.01	2.518	0.00998
11ac(HT40)	11.94	12±1(13)	19.95	4.01	2.518	0.00998
11ac(HT80)	12.04	12±1(13)	19.95	4.01	2.518	0.00998

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904110796-2E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

5.8G WIFI

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	--	--	--	--	--	--
11n(HT20)	12.84	12±1(13)	19.95	4.01	2.518	0.00998
11n(HT40)	12.66	12±1(13)	19.95	4.01	2.518	0.00998
11ac(HT20)	12.80	12±1(13)	19.95	4.01	2.518	0.00998
11ac(HT40)	11.67	12±1(13)	19.95	4.01	2.518	0.00998
11ac(HT80)	11.87	12±1(13)	19.95	4.01	2.518	0.00998

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904110796-2E, antenna port 1 gain=1dBi, antenna port 2 gain=1dBi, MIMO gain=4.01dBi

Note: the device could not transmit simultaneously in 2.4G and 5G.



when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine SAR test exclusion. The test exclusion threshold is $0.00792\text{mW}/\text{cm}^2$ which is $< 1.0\text{mW}/\text{cm}^2$, SAR testing is not required.

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