

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

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Frequency	Power density (mW/ cm ²)	Averaging time(minutes)						
300MHz1.5GHz	F/1500	30						
1.5GHz100GHz	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/cm²)
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)	·	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
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)	•	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
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/cm²)
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

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

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)	•	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
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

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

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)	'	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
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

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

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/cm²)
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)		Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
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

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

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)		Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
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

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

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

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 0.00792mW/cm² which is< 1.0mW/cm², SAR testing is not required.

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