



MPE ESTIMATION

**Test report
On Behalf of
Sinocan International Technologies Co., Ltd
For
Interactive Touch Panel
Model No.: S5EC65, S5C65, S5M65
FCC ID: 2AT6L-S5EC65**

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Report Number: HK1907051560-5E

**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	14.42	14±1(15)	31.62	1	1.2589	0.00792
11g	13.31	13±1(14)	25.12	1	1.2589	0.00629
11n/HT20	10.49	10±1(11)	12.59	1	1.2589	0.00315
11n/HT40	9.89	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 HK1907051560-1E, 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	9.88	9±1(10)	10.00	1	1.2589	0.00251
11n(HT20)	9.83	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.28	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	8.98	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT40)	8.91	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT80)	8.54	8±1(9)	7.94	1	1.2589	0.00199

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1907051560-3E, 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	14.43	14±1(15)	31.62	1	1.2589	0.00792
11g	12.59	12±1(13)	19.95	1	1.2589	0.00500
11n/HT20	10.79	10±1(11)	12.59	1	1.2589	0.00315
11n/HT40	10.45	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 HK1907051560-1E, 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	9.76	9±1(10)	10.00	1	1.2589	0.00251
11n(HT20)	9.78	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.49	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	8.80	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT40)	8.72	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT80)	8.66	8±1(9)	7.94	1	1.2589	0.00199

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1907051560-3E, 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	13.63	13±1(14)	25.12	4.01	2.518	0.01256
11n/HT40	13.05	13±1(14)	25.12	4.01	2.518	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 HK1907051560-1E, 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)	12.82	12±1(13)	19.95	4.01	2.518	0.00998
11n(HT40)	12.40	12±1(13)	19.95	4.01	2.518	0.00998
11ac(HT20)	11.90	11±1(12)	15.85	4.01	2.518	0.00792
11ac(HT40)	11.77	11±1(12)	15.85	4.01	2.518	0.00792
11ac(HT80)	11.61	11±1(12)	15.85	4.01	2.518	0.00792

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1907051560-3E, 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 $0.01256\text{mW}/\text{cm}^2$ which is $< 1.0\text{mW}/\text{cm}^2$, SAR testing is not required.

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