

### Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuh Street, Bao'an District, Shenzhen, China

RF Exposure MPE

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Date of issue ...... Mar. 17, 2025

Testing Laboratory Name...... Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,

Address......Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name...... Shenzhen Haochuangyi Technology Co.,Ltd

Address . 1101, Building 6, Changyi Industrial Plant, No.1 Lirong Road, Xinshi

Community, Dalang Street, Longhua District, Shenzhen, China

CTATES

47CFR §1.1310

Standard ...... 47CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

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Test item description ...... H96Max PJ-X6

Manufacturer ...... Shenzhen Haochuangyi Technology Co.,Ltd

Trade Mark ..... N/A

Model/Type reference ...... H96 Max

Rating ...... AC 100-240V, 50/60Hz

Result ..... PASS

Shenzhen CTA Testing Technology Co., Ltd.

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### TEST REPORT

TEST I

Equipment under Test : H96Max PJ-X6

Model /Type : H96Max PJ-X6

Listed Models : N/A

Applicant : Shenzhen Haochuangyi Technology Co.,Ltd

: 1101, Building 6, Changyi Industrial Plant, No.1 Lirong Road, Xinshi

Community, Dalang Street, Longhua District, Shenzhen, China

Manufacturer : Shenzhen Haochuangyi Technology Co.,Ltd

Address 1101, Building 6, Changyi Industrial Plant, No.1 Lirong Road, Xinshi

Community, Dalang Street, Longhua District, Shenzhen, China

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# 1 TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

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# SUMMARY

### **General Remarks**

CA Consul Bancarla				
2.1 General Remarks		A		
Date of receipt of test sample		Mar. 11, 2025		TESTIN
The second secon				STAIL
Testing commenced on	:	Mar. 11, 2025	a di	Ch
			E.	
Testing concluded on	:	Mar. 17, 2025	25 am	

	resting commenced on	. IVId1. 11, 2025
	Testing concluded on	: Mar. 17, 2025
	2.2 Product Descrip	otion
CTATESTI	Product Name:	H96Max PJ-X6
	Model/Type reference:	H96Max PJ-X6
	Power supply:	AC 100-240V, 50/60Hz
	Testing sample ID:	CTA250311002-1# (Engineer sample) CTA250311002-2# (Normal sample)
	Hardware version:	V1.0
G	Software version:	V1.0
	Bluetooth :	
	Supported Type:	Bluetooth BR/EDR
E LI	Modulation:	GFSK, π/4DQPSK, 8DPSK
CVA	Operation frequency:	2402MHz~2480MHz
	Channel number:	79
	Channel separation:	1MHz
	Antenna type:	PIFA antenna
TING	Antenna gain:	2.16 dBi
CTATESTING	2.4GWIFI :	
CAL	Supported type:	802.11b/802.11g/802.11n(H20)/ 802.11n(H40)/802.11ax(H20)/ 802.11ax(H40)
	Modulation:	802.11b: DSSS 802.11g/802.11n(H20)/ 802.11n(H40)/802.11ax(H20)/ 802.11ax(H40): OFDM
	Operation frequency:	802.11b/802.11g/802.11n(H20)/802.11ax(H20): 2412MHz~2462MHz 802.11n(H40)/802.11ax(H40): 2422MHz~2452MHz
O	Channel number:	802.11b/802.11g/802.11n(H20)/802.11ax(H20): 11 802.11n(H40)/802.11ax(H40):7
	Channel separation:	5MHz
	Antenna type:	PIFA antenna
	1 (A) (1 (A)	

#### **Special Accessories** 2.3

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

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Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
CTP /	/	/	CING /	/	/

### 2.4 Modifications

No modifications were implemented to meet testing criteria.

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# 3 TEST ENVIRONMENT

## 3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Baoʻan District, Shenzhen, China

### 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

### A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

### 3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd.:

Range	Measurement Uncertainty	Notes	
9KHz~30MHz	3.02 dB	(1)	
30~1000MHz	4.06 dB	(1)	
1~18GHz	5.14 dB	(1)	rESTING
18-40GHz	5.38 dB	(1)	rESI"
0.15~30MHz	2.14 dB	(1)	
30MHz~18GHz	0.55 dB	(1)	
/	0.57 dB	<b>(1)</b>	
/	1.1%	(1)	
30~1000MHz	4.10 dB	(1)	
1~18GHz	4.32 dB	(1)	
18-40GHz	5.54 dB	(1)	
	CTATEST		
	9KHz~30MHz 30~1000MHz 1~18GHz 18-40GHz 0.15~30MHz 30MHz~18GHz / / 30~1000MHz 1~18GHz	9KHz~30MHz 3.02 dB 30~1000MHz 4.06 dB 1~18GHz 5.14 dB 18-40GHz 5.38 dB 0.15~30MHz 2.14 dB 30MHz~18GHz 0.55 dB / 0.57 dB / 1.1% 30~1000MHz 4.10 dB 1~18GHz 4.32 dB	Range         Uncertainty         Notes           9KHz~30MHz         3.02 dB         (1)           30~1000MHz         4.06 dB         (1)           1~18GHz         5.14 dB         (1)           18-40GHz         5.38 dB         (1)           0.15~30MHz         2.14 dB         (1)           30MHz~18GHz         0.55 dB         (1)           /         0.57 dB         (1)           /         1.1%         (1)           30~1000MHz         4.10 dB         (1)           1~18GHz         4.32 dB         (1)

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# Test limit

#### 4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

					7.0	_
	Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)	TATES
		Limits for Occ	cupational/Contro	lled Exposure		of Carlo
CTATESTING	0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 1842/f 61.4 /	1.63 4.89/f 0.163 /	(100) * (900/f²)* 1.0 f/300 5	6 6 6 6	

Limits for Maxim	um Permissible E	xposure (MPE)/U	ncontrolled Expos	sure	TING
Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)	51.
	Limits for Occ	cupational/Control	led Exposure	100 100 Marie 10	
0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 824/f 27.5 / /	1.63 2.19/f 0.073 /	(100) * (180/f²)* 0.2 f/1500 1.0	30 30 30 30 30	
F=frequency in M *=Plane-wave eq	IHz uivalent power der	nsity	CTAT'	ESTING	
4.0 1455 0 1		•			

F=frequency in MHz

### 4.2 MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

### S=PG/4πR<sup>2</sup>

Where: S=power density P=power input to antenna

CTA TESTING G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

Shenzhen CTA Testing Technology Co., Ltd.

<sup>\*=</sup>Plane-wave equivalent power density

### **Conducted Power Results**

	Туре	Channel	Output power (dBm)	
		00	-1.97	
	GFSK	39	-2.58	
		78	-3.05	
		00	-2.85	CTATE
.NG	π/4DQPSK	39	-3.47	CVA
CTATESTING		78	-3.89	122 usull
CTA	-GT	00	-2.86	
i	8DPSK	39	-3.41	
	EW.	78	-3.87	
_		CT		ESTING

	Туре	Channel	Output power PK (dBm)	
		01	14.38	
	802.11b	06	13.10	
	ATES	11 G	13.75	
EAN.		01	12.46	
Water Day of the Control of the Cont	802.11g	06	12.78	
		11	12.49	
		01	12.94	CTA
	802.11n(HT20)	06	12.49	CTA
STING		11	12.27	Co Trans
TESTING	.01	03	12.20	
	802.11n(HT40)	06	11.90	
	CTA	09	13.10	
	Call	01	12.71	ING
	802.11ax(HT20)	06	12.68	37119
		11	12.37	
		03	12.12	
	802.11ax(HT40)	06	11.90	
		09	13.14	
GM CT		CTATESTING	CTATESTING	_

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## 4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up		
ВТ	-1.97	-1.0±1		
2.4GWIFI	14.38	14.0±1		

### 4.5 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

Modulation Type	Outp dBm	ut power mW	Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm²)	MPE Limits (mW/cm <sup>2</sup> )	-ING
ВТ	0.0	1.0000	2.16	1.6444	0.0003	1.0000	51"
2.4GWIFI	15.0	31.6228	2.16	1.6444	0.0104	1.0000	

### Remark:

- 1. Output power (Peak) including turn-up tolerance;
- 2. MPE evaluate distance is 20cm from user manual provide by manufacturer.
- 3. BT and WLAN can be active at the same time, but only with interleaving of packages switched on board level. That means that they cannot transmit at the same time.

### 4.6 Simultaneous Transmission for MPE Result

N/A

# 5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

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