

Shenzhen HTT Technology Co., Ltd.

	RF Exposure MPE	
Report Reference No	HTT202503965F02	
FCC ID:	2BNYI-C11	
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Date of issue	Mar. 31, 2025	1475 OI
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Applicant's name:	Shenzhen BaFu Technology Co., L	.td.
Address:	Room 1319, Building 11, Tiedong Log Avenue, Pinghu Community, Pinghu Shenzhen City, Guangdong Province	Street, Longgang District,
	47CFR §1.1310	
Standard:	47CFR §2.1091	
	KDB447498 D01 General RF Expos	sure Guidance v06
Shenzhen HTT Technology Co.,Ltd.	-	
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Test item description	Surveillance camera	
Manufacturer:	Shenzhen BaFu Technology Co., Ltd	
Trade Mark	N/A	
Model/Type reference:	C11	
Operation Frequency:	From 2412-2462MHz	
Rating:	DC 3.7V From Battery and DC 5V From	om External Circuit
Result	PASS	

TEST REPORT

Equipment under Test	:	Surveillance camera
Model /Type	:	C11
Listed Models Model difference	:	C11H, C11B The PCB board, circuit, structure and internal of these models are the same, Only model number is different for these model.
Applicant	:	Shenzhen BaFu Technology Co., Ltd.
Address	:	Room 1319, Building 11, Tiedong Logistics Zone, No. 3 Ping'an Avenue, Pinghu Community, Pinghu Street, Longgang District, Shenzhen City, Guangdong Province, China
Manufacturer	:	Shenzhen BaFu Technology Co., Ltd.
Address	:	Room 1319, Building 11, Tiedong Logistics Zone, No. 3 Ping'an Avenue, Pinghu Community, Pinghu Street, Longgang District, Shenzhen City, Guangdong Province, China

Test Result:	PASS
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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

Shenzhen HTT Technology Co.,Ltd.Tel: 0755-23595200Fax: 0755-235952011F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street,
Bao'an District, Shenzhen, Guangdong, China

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Mar. 25, 2025
Testing commenced on	:	Mar. 25, 2025
Testing concluded on	:	Mar. 31, 2025

2.2 Product Description

Product Name:	Surveillance camera	
Model/Type reference:	C11	
Hardware version:	/	
Software version:	1	
Test samples ID:	HTT202503965-1# (Engineer sample) HTT202503965-2# (Normal sample)	
Power supply:	DC 3.7V From Battery and DC 5V From External Circuit	
Operation frequency:	2412-2462MHZ	
Modulation type:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)	
Antenna type:	FPC Antenna	
ANT Gain:	3.22 dBi	

2.3 Special Accessories

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

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

2.4 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT 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.: 6435.01

Shenzhen HTT 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 HTT 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 HTT Technology Co.,Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.12 dB	(1)
Radiated Emission	30~1000MHz	4.37 dB	(1)
Radiated Emission	1~18GHz	5.40 dB	(1)
Radiated Emission	18-40GHz	5.45 dB	(1)
Conducted Disturbance	0.15~30MHz	2.68 dB	(1)

¹F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

4 <u>Test limit</u>

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)		
	Limits for Occupational/Controlled Exposure					
$\begin{array}{r} 0.3 - 3.0 \\ 3.0 - 30 \\ 30 - 300 \\ 300 - 1500 \\ 1500 - \\ 100,000 \end{array}$	614 1842/f 61.4 /	1.63 4.89/f 0.163 / /	(100) * (900/f ²)* 1.0 f/300 5	6 6 6 6		

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
	Limits for Oco	cupational/Control	led Exposure	
$\begin{array}{r} 0.3 - 3.0 \\ 3.0 - 30 \\ 30 - 300 \\ 300 - 1500 \\ 1500 - \\ 100,000 \end{array}$	614 824/f 27.5 / /	1.63 2.19/f 0.073 / /	(100) * (180/f ²)* 0.2 f/1500 1.0	30 30 30 30 30 30

F=frequency in MHz

*=Plane-wave equivalent power density

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/4πR²

Where: S=power density

P=power input to antenna

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

4.3 Conducted Power Results

Mode	TX	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	
	Туре		ANT1	Limit
		2412	17.76	<=30
802.11b	SISO	2437	17.68	<=30
		2462	17.68	<=30
		2412	22.21	<=30
802.11g	SISO	2437	22.29	<=30
_		2462	22.05	<=30
000 11p		2412	21.90	<=30
802.11n (HT20)	SISO	2437	22.01	<=30
(1120)		2462	21.73	<=30
902 11p		2422	19.68	<=30
802.11n (HT40)	SISO	2437	22.92	<=30
(11140)		2452	21.44	<=30

4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up	
2.4GWIFI	22.92	22.0±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	Output power		Antenna	Antenna	MPE	MPE
	dBm	mW	Gain (dBi)	Gain (linear)	(mW/cm ²)	Limits (mW/cm ²)
			(uDI)	(intear)		
2.4GWIFI	23.0	199.5262	3.22	2.0989	0.0834	1.0000

Remark:

1. Output power (Peak) including turn-up tolerance;

2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

4.6 Simultaneous Transmission for MPE Result

N/A

5 <u>Conclusion</u>

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