Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

RF Exposure evaluation

Report Reference No...... GTS20221219003-1-16 FCC ID.....: 2AG7C-BULLET6T

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Jan.07, 2023 Date of issue....:

Representative Laboratory Name.: Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Address.....:

Garden, No.98, Pingxin North Road, Shangmugu Community,

Pinghu Street, Longgang District, Shenzhen, Guangdong

Applicant's name.....: Hangzhou Meari Technology Co., Ltd.

Room 604-605, Building 1, No.768 Jianghong Road, Changhe Address....::

street, Binjiang District, Hangzhou, zhejiang, China

Test specification....:

47CFR §1.1310

Standard....: 47CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

TRF Originator...... Shenzhen Global Test Service Co.,Ltd.

Master TRF...... Dated 2014-12

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Test item description....: **IP CAMERA**

Trade Mark....: N/A

Manufacturer...... Hangzhou Meari Technology Co., Ltd.

Model/Type reference....: Bullet 6S

Listed Models: Bullet 6T, Bullet 6Q, Bullet 4S, Bullet 4T, Bullet 4Q, Bullet 3S,

> Bullet 3T, Bullet 5S, Bullet 5T, WIFICO40CBK, 46237.040A, GNC-CW233-199, MIC-CW020-101W, ODCAMERAWIFI,

MC101W2, MC101W3

Hardware Version: 38X38-T3MB-GC1 REV1.0 Software Version....: ppstrong-c9-m_general-5.2

Rating....: DC 12.0V/1.0A by Adapter

Result..... PASS

TEST REPORT

Test Report No. :	GTS20221219003-1-16	Jan.07, 2023	
	G1320221213003-1-10	Date of issue	

Equipment under Test IP CAMERA

Model /Type **Bullet 6S**

Listed model Bullet 6T, Bullet 6Q, Bullet 4S, Bullet 4T, Bullet 4Q, Bullet 3S, Bullet 3T, Bullet 5S, Bullet 5T, WIFICO40CBK, 46237.040A,

GNC-CW233-199, MIC-CW020-101W, ODCAMERAWIFI, MC101W2,

MC101W3

Applicant Hangzhou Meari Technology Co., Ltd.

Room 604-605, Building 1, No.768 Jianghong Road, Changhe street, Address

Binjiang District, Hangzhou, zhejiang, China

Manufacturer Hangzhou Meari Technology Co., Ltd.

4F of Building 1 and 2-4F of Building 2, No. 91 Chutian Road, Xixing Address

Street, Binjiang District, Hangzhou, Zhejiang, 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. SUMMARY

1.1 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

• - supplied by the manufacturer

 \bigcirc - supplied by the lab

•	1	Length (m):	1
		Shield :	1
		Detachable :	1

1.2 Product Description

Product Name	IP CAMERA		
Trade Mark	N/A		
Model/Type reference	Bullet 6S		
List Models	Bullet 6T, Bullet 6Q, Bullet 4S, Bullet 4T, Bullet 4Q, Bullet 3S, Bullet 3T, Bullet 5S, Bullet 5T, WIFICO40CBK, 46237.040A, GNC-CW233-199, MIC-CW020-101W, ODCAMERAWIFI, MC101W2, MC101W3		
Model Declaration	PCB board, structure and internal of these model(s) are the same, Only the model name different, So no additional models were tested. All modes are available in two versions, with evaluation tests in the EMC report.		
Power supply:	DC 12.0V/1.0A by Adapter		
Sample ID	GTS20221219003-1-S0001-3#& GTS20221219003-1-S0001-4#		
WIFI(2.4G Band)			
Frequency Range	2412MHz ~ 2462MHz		
Channel Spacing	5MHz		
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz) 7 channels for 40MHz bandwidth(2422~2452MHz)		
Modulation Type 802.11b: DSSS; 802.11g/n: OFDM			
Antenna Description	Omni Antenna, 3.18dBi(Max.)		

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2. TEST ENVIRONMENT

2.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

2.2 Test Facility

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

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

2.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
-	
Atmospheric pressure:	950-1050mbar

2.4 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 Global Test Service 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 GTS laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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3. METHOD OF MEASUREMENT

3.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

3.2 Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498 D01 General RF Exposure Guidance v06 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0. The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field planewave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3.3 Limit

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				
0.3 - 3.0	614	1.63	(100) *	6
3.0 - 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 - 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm²)	(minute)
	Limits for C	Occupational/Controlled	Exposure	
0.3 - 3.0	614	1.63	(100) *	30
3.0 - 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

^{*=}Plane-wave equivalent power density

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3.4 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

As declared by the Applicant, the EUT transmits with the maximum soure-baed Duty Cycle of 100%-see the User manual, and the EUT is a wireless device used in a mobile application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum mobile separation distance, r =20cm, as well as the gain of the used antenna is 3.18dBi for WLAN, and the power drift from Turn-up Procedure provide by manufacturer as following states, the RF power density can be obtained.

3.5 Antenna Information

Bullet 6S can only use antennas certificated as follows provided by manufacturer;

Internal Identification	Antenna Identification in Internal photos	Antenna type and antenna number	Operate frequency band	Maximum antenna gain
Antenna 1	WLAN ANT	Omni antenna	2400 – 2500MHz	3.18dBi(Max.)

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4. Conducted Power Results

2.4GWLAN

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
	01	2412	20.14
802.11b	06	2437	20.77
	11	2462	20.04
	01	2412	21.12
802.11g	06	2437	21.45
	11	2462	21.78
	01	2412	21.82
802.11n(HT20)	06	2437	21.46
	11	2462	21.74
	03	2422	21.15
802.11n(HT40)	06	2437	21.18
	09	2452	21.21

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5. Manufacturing Tolerance

2.4GWLAN

IEEE 802.11b (Peak)						
Channel	Channel 01	Channel 06	Channel 11			
Target (dBm)	20.0	20.0	20.0			
Tolerance ±(dB)	1.0	1.0	1.0			
	IEEE 802.1	I1g (Peak)				
Channel	Channel 01	Channel 06	Channel 11			
Target (dBm)	21.0	21.0	21.0			
Tolerance ±(dB) 1.0		1.0	1.0			
	IEEE 802.11n HT20 (Peak)					
Channel	Channel 01	Channel 06	Channel 11			
Target (dBm)	21.0	21.0	21.0			
Tolerance ±(dB)	Tolerance ±(dB) 1.0		1.0			
	IEEE 802.11n	HT40 (Peak)				
Channel	Channel 03	Channel 06	Channel 09			
Target (dBm)	21.0	21.0	21.0			
Tolerance ±(dB)	1.0	1.0	1.0			

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6. Measurement Results

6.1 Standalone MPE Evaluation

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 refer to antenna information, the RF power density can be obtained.

2.4GWLAN

Modulation Type	Output power		Antenna	Antenna	MPE	MPE
	dBm	mW	Gain	Gain	(mW/cm ²)	Limits
			(dBi)	(linear)		(mW/cm ²)
802.11b	21.00	125.8925	3.18	2.0797	0.0521	1.0000
802.11g	22.00	158.4893	3.18	2.0797	0.0656	1.0000
802.11n(HT20)	22.00	158.4893	3.18	2.0797	0.0656	1.0000
802.11n(HT40)	22.00	158.4893	3.18	2.0797	0.0656	1.0000

Remark:

- 1. Output power including tune-up tolerance;
- 2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

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7. Conclusion

End of Report	
The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled Fand SAR Exclusion Threshold per KDB447498 D01 General RF Exposure Guidance v06, No S	•