

RF TEST REPORT

Product Name: 360 Dash Cam

Model Name: G980H-N529-1

FCC ID: 2A22Z-G980H-N529-1

Issued For : Botslab, Inc.

919 North Market Street, Suite 950, Wilmington, New Castle,

Delaware, USA

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,

No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT23L005HA01

Sample Received Date: Dec. 01, 2023

Date of Test: Dec. 01, 2023 – Dec. 26, 2023

Date of Issue: Jan. 17, 2024

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TEST REPORT CERTIFICATION

Applicant: Botslab, Inc.

Address: 919 North Market Street, Suite 950, Wilmington, New Castle,

Delaware, USA

Manufacture: Botslab, Inc.

Address: 919 North Market Street, Suite 950, Wilmington, New Castle,

Delaware, USA

Product Name: 360 Dash Cam

Trademark: Botslab

Model Name: G980H-N529-1

Sample Status: Normal

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
FCC 47 CFR §2.1091 KDB 447498 D01 General RF Exposure Guidance v06	PASS			

Prepared by:

Zane Shar

Zane Shan Engineer Approved by:

Vita Li

Technical Director



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Revision History

Rev.	Issue Date	Revisions
00	Jan. 17, 2024	Initial Issue

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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	360 Dash Cam			
Trademark:	Botslab			
Model Name:	G980H-N529-1			
Series Model:	N/A			
Model Difference:	N/A			
	Bluetooth	2402-2480MHz		
Frequency Bands:	2.4G WLAN	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz		
	5G WLAN IEEE 802.11a/n(HT20): 5.745GHz-5.825GH IEEE 802.11a/n(HT40): 5.755GHz-5.795GH			
Rating: Input: DC 12-24V				
· Caming.	Output: DC 5V, 2.4A			
Battery:	Capacity: 5.8mAh Rated Voltage: 3V			
Hardware Version:	G980H-N529-1 MAIN_V1.0			
Software Version:	N/A			

1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.			
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China			
	A2LA Certificate No.: 6727.01			
Accreditation Certificate	FCC Registration No.: 746540			
	CAB ID: CN0136			

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2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density				
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)				
Limits for Occupational / controlled Exposures							
300 - 1500			F/300				
1500 – 100000			5.0				
Limits for General population / Uncontrolled Exposure							
300 - 1500			F/1500				
1500 – 100000			1.0				

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.

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2.5 TEST RESULT

Turn up Result

Mode	Turn up Power				
BT-GFSK	7.5±1dBm				
BT-π/4-DQPSK	9±1dBm				
BT-8DPSK	9.5±1dBm				
BLE-GFSK	5±1dBm				
2.4G WIFI-802.11b	16±1dBm				
2.4G WIFI-802.11g	15.5±1dBm				
2.4G WIFI-802.11n(HT20)	15.5±1dBm				
2.4G WIFI-802.11n(HT40)	15±1dBm				
5G WIFI-802.11a	15.5±1dBm				
5G WIFI-802.11n(HT20)	13.5±1dBm				
5G WIFI-802.11n(HT40)	13±1dBm				

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The MPE result of worst mode:

RF Function	Frequency (MHz)	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	Result
ВТ	2441	10.50	11.22	2.3	1.70	0.004	1	0.004	Pass
2.4G WIFI	2437	17.00	50.12	2.3	1.70	0.017	1	0.017	Pass
5G WIFI	5745	16.50	44.67	1.36	1.37	0.012	1	0.012	Pass

The max MPE of simultaneous transmission:

BT(0.04)+WIFI(0.017)=0.021<1

Note:

1. The Maximum Power Density is less than the limit, complies with the exemption requirements.

* * * * * END OF THE REPORT * * * *

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