



FCC TEST REPORT

FCC ID: 2BAH2-N291WIFI

Product	:	Dash Cam
Model Name	:	N291 WiFi
Brand	:	PAPAGO!
Report No.	:	PTC22110306504E-FC02
Sample ID	:	PTC22110306504E-01#
Prepared for		
Maction Technologies (Shanghai) ,Ltd		
18 / F, West building, no.2218, Hunan Road, Pudong New Area, Shanghai		
Prepared by		
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TEST RESULT CERTIFICATION

Applicant's name : Maction Technologies (Shanghai) ,Ltd
Address : 18 / F, West building, no.2218, Hunan Road, Pudong New Area, Shanghai
Manufacture's name : Maction Technologies (Shanghai) ,Ltd
Address : 18 / F, West building, no.2218, Hunan Road, Pudong New Area, Shanghai
Product name : Dash Cam
Model name : N291 WiFi
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Jan. 08, 2023 to Feb.17, 2023
Date of Issue : Feb.18, 2023
Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads "Simon Pu".

Simon Pu / Engineer

Technical Manager:

A handwritten signature in black ink that reads "Ronnie Liu".

Ronnie Liu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	2.1091	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Dash Cam
Model Name	:	N291 WiFi,N291,N291S
Specification	:	802.11b/g/n HT20
Operation Frequency	:	2412-2462MHz for 802.11b/g/ n(HT20)
Number of Channel	:	11 channels for 802.11b/g/ n(HT20)
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	:	Fpcb Antenna
Antenna Gain	:	2 dBi
Power supply	:	DC 5V 2.4A via adapter input DC 12V battery
Hardware Version	:	Q09-6_MAIN_V01_C
Software Version	:	Q09-6.C_2022.07.05.V110



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

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

4.4 Test Result

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
2.4GWIFI	19.04	80.1678	2.0	1.5849	0.02529	1.0000

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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