



FCC TEST REPORT

FCC ID: 2A3W9-P1-4WG

Product	:	5 channel 4G vehicle monitoring all-in-one DVR
Model Name	:	P1-4GW,P1,P1-4G, P1-5G,P1-5GW,P2,P2-4G,P2-4GW,P2-5G,P2-5GW, P3,P3-4G,P3-4GW,P3-5G,P3-5GW
Sample ID	:	PTC21022002701-1#
Brand	:	VSSTECH
Report No.	:	PTC21022002701E-FC02
Prepared for		
Shenzhen Gision Security Technology Co.,Ltd.		
D302 JingFu Industrial Park, HangKong Road(West), SanWei Community, HangCheng Street, Baoan, Shenzhen		
Prepared by		
Precise Testing & Certification Co., Ltd		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



Report No.: PTC21022002701E-FC02

TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Gision Security Technology Co.,Ltd.
Address : D302 JingFu Industrial Park, HangKong Road(West), SanWei Community, HangCheng Street, Baoan, Shenzhen
Manufacture's name : Shenzhen Gision Security Technology Co.,Ltd.
Address : D302 JingFu Industrial Park, HangKong Road(West), SanWei Community, HangCheng Street, Baoan, Shenzhen
Product name : 5 channel 4G vehicle monitoring all-in-one DVR
Model name : P1-4GW, P1, P1-4G, P1-5G, P1-5GW, P2, P2-4G, P2-4GW, P2-5G, P2-5GW, P3, P3-4G, P3-4GW, P3-5G, P3-5GW
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Aug. 18, 2021 to Sept. 02, 2021
Date of Issue : Sept. 03, 2021
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 "Leo Yang" with a long horizontal stroke extending to the right.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that appears to read "Chris Du" in a stylized, cursive font.

Chris Du / 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	:	5 channel 4G vehicle monitoring all-in-one DVR
Model Name	:	P1-4GW,P1,P1-4G, P1-5G,P1-5GW,P2,P2-4G,P2-4GW,P2-5G,P2-5GW, P3,P3-4G,P3-4GW,P3-5G,P3-5GW
Specification	:	802.11b/g
Operation Frequency	:	2412-2462MHz
Number of Channel	:	11 channels for 802.11b/g
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g
Specification	:	Band2/4/5 for WCDMA Band2/4 for LTE
Operation Frequency	:	WCDMA: Band 2 1852.4-1907.6MHz Band 4 1712.4-1752.6MHz Band 5 826.4-846.6MHz LTE: Band 2 1850-1910MHz Band 4 1710-1755MHz
Type of Modulation	:	QPSK,16QAM
Antenna installation	:	External Antenna
Antenna Gain	:	5dBi
Power supply	:	DC 12V battery
Hardware Version	:	P1_5CH_V2.0
Software Version	:	GSP120211211



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

$$S = PG / 4\pi R^2$$

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	17.0	50.1187	5.0	3.1623	0.0315	1.0000
WCDMA B2	24.5	281.8383	5.0	3.1623	0.1774	1.0000
WCDMA B4	24.0	251.1886	5.0	3.1623	0.1581	1.0000
WCDMA B5	24.5	281.8383	5.0	3.1623	0.1774	0.5509
LTE B2	24.0	251.1886	5.0	3.1623	0.1581	1.0000
LTE B4	23.5	223.8721	5.0	3.1623	0.1409	1.0000

4.5 simultaneous MPE Result

2.4GWIFI MPE (Ratio)	WCDMA MPE (Ratio)	simultaneous MPE (Ratio)	MPE Limits (mW/cm ²)
0.0315	0.1774	0.2089	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*****