FCC RF EXPOSURE REPORT

Applicant	:	SHENZHEN Hitevision Technology Co., Ltd.
Address	:	Honghe Mansion No. 1 Building A,1 Danzi North Road, Shatian, Kengzi Street, Pingshan District, Shenzhen
Equipment	:	Wireless module
Model No.	:	AX1802-GT
Trade Name	:	N/A
FCC ID.	:	2ACYT-AX1802

I HEREBY CERTIFY THAT :

The sample was received on Dec. 28, 2021 and the testing was completed on Jan. 18, 2022 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Leevin Li

Leevin Li /Supervisor

Contents

History of this test report

■ Original.

☐ Additional attachment as following record:

Report No.	Issue Date	Description
DEFJ2112089	Jan. 19, 2022	Initial Issue

1. Test Configuration of Equipment under Test

1.1 Feature of Equipment

Equipment	Wireless module
Model Name	AX1802-GT
Model Discrepancy	N/A
TPC Function	No TPC function
Frequency Range	WIF 2.4G: 2412-2462MHz, 2422-2452MHz WIFI 5G: 5150MHz-5250MHz,5725MHz -5850MHz
Modulation Type	802.11a/g: 64-QAM,16-QAM, QPSK, BPSK 802.11n: 64-QAM,16-QAM, QPSK, BPSK 802.11ac: 256-QAM,64-QAM,16-QAM, QPSK, BPSK 802.11ax: 1024-QAM,256-QAM,64-QAM,16-QAM, QPSK, BPSK
Antenna Type	Dipole Antenna
Operating Voltage	DC 12V

Note: For more details, please refer to the User's manual of the EUT.

1.2 General Information of Test

Test Site	**Cerpass Technology Corporation(Cerpass Laboratory)** Address: Room 102, No. 5, Xing'an Road, Chang'an Town, Dongguan City, Guangdong Province Tel: +86-769-8547-1212 Fax: +86-769-8547-1912
FCC Designation No.:	CN1288

2. Radio Frequency Exposure

Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation)
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm^2) ☒ General Population/Uncontrolled exposure (S=1mW/cm^2)
Antenna diversity	☐ Single antenna ☒ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☒ Tx/Rx diversity
Evaluation applied	☒ MPE Evaluation* ☐ SAR Evaluation ☐ N/A

TEST RESULTS

No non-compliance noted.

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where *E = Field strength in Volts / meter*
P = Power in Watts
G = Numeric antenna gain
d = Distance in meters
S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770 d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and
d (cm) = d(m) /100

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$ ***Equation 1***

Where *d = Distance in cm*
P = Power in mW
G = Numeric antenna gain
S = Power density in mW / cm^2

Maximum Permissible Exposure

Wlan

SISO

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)
2412-2462	23.47	24.47	3.7	20	0.131
5150-5250	14.47	15.47	4.16	20	0.018
5725-5850	15.18	16.18	4.2	20	0.022

MIMO

ANT A

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)
2412-2462	22.27	23.27	3.55	20	0.096
5150-5250	14.42	15.42	3.46	20	0.015
5725-5850	15.18	16.18	3.41	20	0.018

ANT B

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)
2412-2462	22.14	23.14	3.7	20	0.096
5150-5250	12.81	13.81	4.16	20	0.012
5725-5850	14.40	15.40	4.2	20	0.018

The sum of the ratios of the spatially averaged results to the applicable frequency dependent MPE limits :

Simultaneous transmission mode	The sum of the ratios	Result
ANT A+ANT B	0.096/1+0.096/1	0.192＜1

Conclusion

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

----------End of the report ----------