







RF Exposure report

Report No.: HP190708DC001-FMP

FCC ID: 2ACYT-MT7668U

Product Name wireless module

Test Model: MT7668U

Received Date: 2019-7-11

Test Date: 2019-7-12~2019-7-25

Issued Date: 2019-8-20

Applicant Name: SHENZHEN Hitevision Technology Co., Ltd.

Applicant Address: No. 8, Qinglan 1st Road, Pingshan Shenzhen China

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Lab Address: No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang

Town, Dongguan, China

Test Location: No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, Huang Jiang

Town, Dongguan, China

FCC Designation

Number: CN1255

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 IEEE C95.1

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :	/ cm/2	Date:	Aug. 20, 2019	
	Tank Tan//Engineer			
Approved by :	Dany Li	Date:	Aug. 20, 2019	

Harry Li/ Supervisor

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HWA-HSING Test Report No.: HP190708DC001-FMP

Release control record

Issue No.	Reason for change	Date issued
HP190708DC001-FMP	Original release	Aug. 20, 2019

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1. RF exposure limit

Limits for maximum permissible exposure (MPE)

Limits for general population / uncontrolled exposure						
Frequency range (MHz) Electric field strength (V/m) (Magnetic field strength (A/m) Power density (mW/cm²) (n						
300-1500			F/1500	30		
1500-100,000			1.0	30		
Note: F = Frequency in MHz						

2. MPE calculation 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 center of the radiator in cm

Classification:

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

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3. Calculation result of maximum conducted power

The antennas provided to the EUT, please refer to the following table:

Antenna No.	Function	Frequency Band	Antenna Gain (dBi)	Antenna Type	Transmit and Receive Chain	Maximum AVG Power(dBm)
	2.4GHz WLAN	2400~2483.5MHz	3.34		2TX,2RX	22.27
		5180 ~ 5240MHz	3.98	Dipole	2TX,2RX	15.71
1 5GHz	5GHz	5260 ~ 5320MHz	3.81	Antenna	2TX,2RX	16.72
	WLAN	5500 ~ 5700MHz	3.50		2TX,2RX	17.44
		5745 ~ 5825MHz	2.56		2TX,2RX	20.95

 $2400 \sim 2483.5 MHz: \ Directional \ gain = 3.34 dBi + 10l0q(2) = 6.34 dBi \\ 5180 \sim 5240 MHz: \ Directional \ gain = 3.98 dBi + 10l0q(2) = 6.99 dBi \\ 5260 \sim 5320 MHz: \ Directional \ gain = 3.81 dBi + 10l0q(2) = 6.82 dBi \\ 5500 \sim 5700 MHz: \ Directional \ gain = 3.50 dBi + 10l0q(2) = 6.51 dBi \\ 5745 \sim 5825 MHz: \ Directional \ gain = 2.56 \ dBi + 10l0q(2) = 6.57 dBi \\ \end{cases}$

Frequency band (MHz)	Max power (mW)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm²)	Limit (mW/cm²)
2400~2483.5MHz	168.655	3.34	20	0.072398	1.0
5180 ~ 5240MHz	37.239	3.98	20	0.018524	1.0
5260 ~ 5320MHz	46.989	3.81	20	0.022477	1.0
5500 ~ 5700MHz	55.463	3.50	20	0.024702	1.0
5745 ~ 5825MHz	124.451	2.56	20	0.044641	1.0

Note: These bands cannot transmit simultaneously at 2.4G and 5GHz band.

Conclusion:

Therefore, the worst-case situation is 0.072398mW/cm², which is less than "1". This confirmed that the device compliance with FCC 1.1310 MPE limit.

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4. Appendix - Information on the Testing Laboratories

We, <u>Hwa-Hsing (Dongguan) Co., Ltd.</u>, A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values "HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT", commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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