

E&E

MPE TEST REPORT

Applicant	High-Flying Electronics Technology Co., Ltd.
FCC ID	2ACSVHF-LPT6200
Product	Low Power 2.4GWi-Fi6 + BLE Module
Model	HF-LPT6200
Report No.	R2210A0966-M1
Issue Date	February 24, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 1.1310.** The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Wei Fangying

Fan Guangchang

Prepared by: Wei Fangying

Approved by: Fan Guangchang

TA Technology (Shanghai) Co., Ltd. Building 3, No. 145, Jintang Rd, Pudong Shanghai, P.R.China

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China TEL: +86-021-50791141/2/3 FAX: +86-021-50791141/2/3-8000

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1 Test Laboratory

1.1 Notes of the Test Report

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(Shanghai) Co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Fan Guangchang
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	http://www.ta-shanghai.com

1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C			
Relative humidity	Min. = 30%, Max. = 70%			
Ground system resistance	< 0.5 Ω			
Ambient noise is checked and found very low and in compliance with requirement of standards.				
Reflection of surrounding objects is minimized and in compliance with requirement of standards.				

2 Description of Equipment Under Test

Client Information

Applicant High-Flying Electronics Technology Co., Ltd.			
Applicant address	Building 17, No.1500 Zu Chongzhi Road, Pudong District, Shanghai, China		
Manufacturer	Shandong Qipengfa Electronics Technology Co. LTD		
Manufacturer address	East Road 800 meters south of government, Nanzheng Village, Nanluji Town, Chengwu County, Heze City, Shandong Province		

General Technologies

Model	HF-LPT6200
MAC	E8FDF8B9E0F0
Hardware Version	V1.0
Software Version	V1.0
Date of Sample Received	November 14, 2022

Note:

1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.

2. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai)

Co., Ltd. based on interpretations and/or observations of test results. Measurement

Uncertainties were not taken into account and are published for informational purposes only.

3 Maximum Output Power (Measured) and Antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by Numeric gain (G)= $10^{(antenna gain/10)}$

Band	Maximum Ou	tput Power	Antenna Gain	Numeric Gain	
	(dBm)	(mW)	(dBi)		
Wi-Fi 2.4G	18.47	70.307	0.75	1.189	
Bluetooth (Low Energy)	6.95	4.955	0.75	1.189	

4 Test Result

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure

(MPE) are as following.

Frequency Range	Electric Field	Electric Field Magnetic Field		Averaging Time	
(MHz)	Strength	Strength			
85.000 VM	(V/m)	(A/m)	(mW/cm2)	(minutes)	
	(A) Limits for Occu	upational/Controlle	d Exposures	i Sector a Sector IV	
0.3-3.0	614	1.63	*(100)	6	
3-30	1842/f	4.89/f	*(900/f2)	6	
30-300			1.0	6	
300-1500)-1500		f/300	6	
500-100,000				6	
(B)	Limits for General	Population/Uncont	rolled Exposure		
0.3-1.34	614	1.63	*(100)	30	
1.34-30 824/f		2.19/f	*(180/f2)	30	
30-300	D-300 27.5		0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

f = frequency in MHz

* = Plane-wave equivalent power density

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

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The maximum permissible exposure for 300~1500 MHz is f/1500, for 1500~100,000MHz is 1.0. So

Band	The Maximum Permissible Exposure (mW/cm ²)			
Wi-Fi 2.4GHz	1.000			
Bluetooth	1.000			

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RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided. This calculation is based on the conducted power, considering maximum power and antenna gain. The formula shown in KDB 447498 D01 is used in the calculation.

Equation from KDB 447498 D01 General RF Exposure Guidance v06 (10/23/2015) is:

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

Where: S = power density (in appropriate units, e.g. mW/cm^{2})

P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)

G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	Maximum Output Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (dBm)	PG (mW)	Test Result (mW/cm ²)	Limit Value (mW/cm ²)
Wi-Fi 2.4GHz	18.47	0.75	19.220	83.560	0.017	1.000
Bluetooth	6.95	0.75	7.700	5.888	0.001	1.000
Note: R = 20cm π = 3.1416			•		·	

Bluetooth antenna and Wi-Fi 2.4G antenna can't transmit simultaneously.

Note: For transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

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

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.