



MPE Report

Report No.:STS2601368H01

Issued for

MICRO COMPUTER (HK) TECH LIMITED

RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, Waterfront,
Wan Chai, HK

Product Name: MINI PC

Brand Name: N/A

Model Name: G1 Pro

Series Model(s): G***** (Where * = "0-9", "A-Z",
"a-z", "-", and spaces)

FCC ID: 2A49R-G1PRO

Test Standard: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure
Guidance v06

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name : MICRO COMPUTER (HK) TECH LIMITED
Address : RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, Waterfront, Wan Chai, HK
Manufacturer's Name : MICRO COMPUTER (HK) TECH LIMITED
Address : RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, Waterfront, Wan Chai, HK

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Date of Test

Date of receipt of test item : 18 Nov. 2025
Date (s) of performance of tests : 18 Nov. 2025 to 21 Jan. 2026
Date of Issue : 22 Jan. 2026
Test Result : **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1 GENERAL DESCRIPTION OF THE EUT	5
1.2 TEST FACTORY	6
2. FCC 47CFR §2.1091 REQUIREMENT	7
2.1 TEST STANDARDS	7
2.2 LIMIT	7
2.3 TEST RESULT	8



Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	22 Jan. 2026	STS2601368H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	MINI PC	
Brand Name	N/A	
Model Name	G1 Pro	
Series Model(s)	G***** (Where * = "0-9", "A-Z", "a-z", "-", and spaces)	
Model Difference	All the model are the same circuit and RF module, except model names.	
Product Description	The EUT is MINI PC	
	Operation Frequency:	Bluetooth: 2402~2480 MHz 2.4G WLAN: 802.11b/g/n/ax(20MHz): 2412~2462MHz 802.11n/ax(40MHz):2422~2452MHz 5.2G WLAN: 802.11a/n/ac/ax (20MHz): 5180~5240MHz 802.11n /ac/ax(40MHz):5190~5230MHz 802.11ac/ax (80MHz):5210MHz 5.3G WLAN: 802.11a/n/ac/ax (20MHz): 5260~5320MHz 802.11n /ac/ax(40MHz):5270~5310MHz 802.11ac/ax (80MHz):5290MHz 5.6G WLAN: 802.11a/n/ac/ax (20MHz): 5500~5700MHz 802.11n /ac/ax(40MHz):5510~5670MHz 802.11ac/ax (80MHz):5530~5610MHz 5.8G WLAN: 802.11a/n/ac/ax (20MHz): 5745~5825MHz 802.11n /ac/ax(40MHz):5755~5795MHz 802.11ac/ax (80MHz):5775MHz UNII-5 Band: 5955-6415MHz UNII-6 Band: 6435-6515MHz UNII-7 Band: 6535-6855MHz UNII-8 Band: 6875-7115MHz



	Modulation Type:	BT: BT BR(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK BLE: GFSK 2.4G WLAN: 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM, 64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM, 64-QAM 802.11ax(OFDM, OFDMA):BPSK,QPSK, 16-QAM,64-QAM,256-QAM,1024QAM 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM, 64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM, 64-QAM 802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM 6G WLAN: 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM
	Antenna gain:	BT/ BLE: 0.94dBi 2.4G WLAN: Antenna A: 0.94dBi, Antenna B: -1.32dBi 5G WLAN: Antenna A: 3.05 dBi, Antenna B: 3.27 dBi 6G WLAN: Antenna A: 3.28 dBi, Antenna B: 3.17 dBi
	Antenna Designation:	Internal Antenna
Power Rating	AC 120V/60Hz	
Adapter	N/A	
Battery	N/A	
Hardware Version	N/A	
Software Version	N/A	

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f ²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f ²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Tune up

Mode	Detector	Tune up Power
BT	Peak	8±1dBm
BLE	Peak	8±1dBm
2.4G WIFI	Peak	12±1dBm
5G WIFI	AV	14±1dBm
6G WIFI	AV	16±1dBm(EIRP)

Protocol	Fre. (GHz)	Separation distance (cm)	Max Tune up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
BT	2.402	20	9	0.94	9.94	9.863	0.0020	1	0.0020	Pass
BLE	2.402	20	9	0.94	9.94	9.863	0.0020	1	0.0020	Pass
2.4G WIFI	2.437	20	13	0.94	13.94	24.774	0.0049	1	0.0049	Pass
5G WIFI	5.240	20	15	3.27	18.27	67.143	0.0134	1	0.0134	Pass
6G WIFI	6.665	20	/	/	16.7	46.774	0.0093	1	0.0093	Pass

Multiple transmission:

$$BT+WIFI=0.0020/1+0.0134/1=0.0154<1$$

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. The Bluetooth and WLAN can't simultaneous transmission at the same time.

3. ERP = EIRP - 2.15

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