

FCC RF EXPOSURE REPORT

FCC ID: 2A49R-UN12S

Test Report No.....: RF231108004-05-006
 Product(s) Name.....: MINI PC
 Model(s).....: UN1245, UN1260, UN1265, UN1270, UN1290, GD50, GD60, GD70, GD90
 Trade Mark.....: N/A
 Applicant.....: MICRO COMPUTER (HK) TECH LIMITED
 Address.....: RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, Waterfront, Wan Chai, HK, China
 Receipt Date.....: 2023.11.24
 Test Date.....: 2024.02.19~2024.04.29
 Issued Date.....: 2024.04.29
 Standards.....: FCC Guidelines for Human Exposure IEEE C95.1
 FCC Title 47 Part 2.1091
 KDB 447498 D01 General RF Exposure Guidance v06
 Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

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History of this test report

Original Report Issue Date: 2024.04.29

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1.. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the 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

Table for Filed Antenna

For BT&BLE

Antenna gain		Antenna Type
Ant1: 2.86dBi		PIFA antenna

For 2.4GWiFi

Antenna gain		Antenna Type
Ant1: 2.86dBi	Ant2: 1.26dBi	PIFA antenna

For 5GWiFi:

Antenna gain		Antenna Type
Ant1: 4.41dBi	Ant2: 4.21dBi	PIFA antenna

2.. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm ²)	
BDR+EDR	2402-2480	9.73	2.86	12.59	18.16	1	0.0036
BLE	2402-2480	9.54	2.86	12.40	17.38	1	0.0035
2.4G Wifi ant1	2412-2462	18.98	2.86	21.84	152.76	1	0.0304
2.4G Wifi ant2	2412-2462	18.64	1.26	19.90	97.72	1	0.0194
5G Wifi ant1	5180-5825	17.07	4.41	21.48	140.60	1	0.0280
5G Wifi ant1	5180-5825	16.62	4.21	20.83	121.06	1	0.0241

Note: 1. The calculated distance is 20 cm.

2. The Wifi function can transmit at the same time with the BT function. The 2.4G Wifi function can not transmit at the same time with the 5G Wifi function.

Simultaneous transmitting consideration

The ratio= $MPE_{BT}/limit + MPE_{5G\ Wifi\ ant1}/limit + MPE_{5G\ Wifi\ ant2}/limit = 0.0036/1 + 0.0280/1 + 0.0241/1 = 0.0557 < 1.0$

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technology Co., Ltd.

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(END OF REPORT)