

# FCC RF EXPOSURE REPORT

**FCC ID: 2AVBM-V1**

Test Report No.....: RF241101005-03-005

Product(s) Name.....: Mini PC

Model(s).....: V1, K1, M1, W1, V2, K2, M2, W2, V3, K3, M3, W3, V4, K4, M4, W4, V5, K5, M5, W5, E1, P1, H1, G1, E2, P2, H2, G2, E3, P3, H3, G3, E4, P4, H4, G4, E3B, E3A, N3A, S3A, F3A, F5A, AM21, AM22, AM23, AM24, T8PLUS, Truck, C0A, N0A, R3A

Trade Mark.....: N/A

Applicant.....: Shenzhen CYX Industrial Co., Ltd.

Address.....: 2F&5F, Bldg A, Xia Zao Digital Industry Park, No.8 Huali Rd, Gaofeng COMM, Dalang Str, Longhua Dist, Shenzhen, China


Receipt Date.....: 2024.11.11

Test Date.....: 2024.11.13~2024.12.01

Issued Date.....: 2024.12.02

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.

Prepared By:	Checked By:	Approved By:	
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<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

## History of this test report

Original Report Issue Date: 2024.12.02

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

Attachment No.	Issue Date	Description

## 1.. MPE CALCULATION METHOD

### Radio Frequency Exposure Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )
300-1,500	--	--	f/1500
1,500-100,000	--	--	1.0

### Calculation Method of RF Safety Distance:

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

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
2.78dBi	FPC antenna

For 2.4GWiFi

Antenna gain	Antenna Type
2.78dBi	FPC antenna

For 5GWiFi:

Antenna gain	Antenna Type
3.27dBi	FPC 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 <sup>2</sup> )	
BDR+EDR	2402-2480	5.84	2.78	8.62	7.28	1	0.0014
BLE	2402-2480	3.53	2.78	6.31	4.28	1	0.0009
2.4G Wifi	2412-2462	15.94	2.78	18.72	74.47	1	0.0148
5G Wifi	5180-5240	15.64	3.27	18.91	77.80	1	0.0155

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(worst case)

The ratio=  $MPE_{BDR+EDR}/limit + MPE_{5G\ Wifi}/limit = 0.0014/1 + 0.0155/1 = 0.0169 < 1.0$

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)