

FCC RF EXPOSURE REPORT

FCC ID: 2BOM4-YIHAOREADER

Test Report No.....: RF250403002-01-003

Product(s) Name.....: Proxmark3

Model(s).....: Proxmark3

Trade Mark.....: Anruhoo

Applicant.....: Shenzhen Yihao Technology Co., Ltd.

Address.....: No. 101, No. 34, Education South Road, Pingdi Street, Longgang
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Receipt Date.....: 2025.04.08

Test Date.....: 2025.04.09~2025.04.24

Issued Date.....: 2025.04.27

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: 2025.04.27

- ☒ 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 ²)
0.3-1.34	614	1.63	*(100)
1.34-30	824/f	2.19/f	*(180/f ²)
30-300	27.5	0.073	0.2
300-1,500	--	--	f/1500
1,500-100,000	--	--	1.0

f = frequency in MHz. * = Plane-wave equivalent power density.

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 NFC:

Antenna gain	Antenna Type
0dBi	PCB 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)	
NFC	13.56	/	/	-25.91	0.003	0.98	0.0000005
SRD	0.125	/	/	-27.04	0.002	0.98	0.0000004

Note: 1. The calculated distance is 20 cm.

2. For NFC, the power of EUT: E Field@3m is 69.29dBμV/m= -25.91dBm; E[dBμV/m]= EIRP[dBm] + 95.2 for d= 3 m.

3. For NFC, the power of EUT: E Field@3m is 68.16dBμV/m= -27.04dBm; E[dBμV/m]= EIRP[dBm] + 95.2 for d= 3 m

Note: 2. the 13.56MHz function can transmit at the same time with the 0.125MHz function.

The ratio= MPE13.56MHz /limit+ MPE0.125MHz /limit =0.0000005/1+0.0000004/1=0.0000009<1

As the sum of MPE ratios for all simultaneous transmitting antennas is ≤ 1.0, simultaneous transmission MPE test exclusion will be applied.

Conclusion: Compliance

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)