



Core Wireless (Beijing) Communication
Technology Co., Ltd.

Room 101, Building 62, Jinghai 3rd Road,
No.109, BDA, Beijing, China

+86-010-67870336

OTA TEST REPORT

Report No. NRL-OTA-2025-0009

Applicant	Cherub Technology Co., Ltd.
Address	No.10, Keji 9th Road, Tangjiawan Town, Zhuhai High-tech Zone, Guangdong, China, 519080
Telephone	13760243937
Manufacturer	Cherub Technology Co., Ltd.
Address	No.10, Keji 9th Road, Tangjiawan Town, Zhuhai High-tech Zone, Guangdong, China, 519080
Telephone	13760243937
Product Name	2.4GHz PCB antenna
Model	2.4G_PCB_B6PA1
Sample Source	Customer delivery
Delivery Date	Apr/14/2025
Test Date	Apr/23/2025
Reference Documents	See Appendix A
Testing Content	Passive
Verdict	/
Report Date	Apr/24/2025

Compiled by
Xu Tao

Reviewed by
Ma Yonglin

Approved by
Shi Yang
(Authorized signatory)

Note:

The report shall not be partially reproduced without the written permission of Core Wireless (Beijing) Communication Technology Co., LTD. The test results are only valid for the corresponding test samples.

CONTENTS

1. EUT Information.....	3
2. Lab Information	3
3. Equipments	3
4. Test Results.....	4
4.1 Gain	4
4.2 VSWR	5
Appendix A: Reference Documents	6
Appendix B: EUT Photographs	7
Appendix C: 3D Pattern Plots.....	8

Note:

The report shall not be partially reproduced without the written approval of Core Wireless (Beijing) Communication Technology Co., LTD. The test results are valid only for the corresponding test samples.

1. EUT Information

EUT No.	2025-0033-0001
Type	/
IMEI/SN	/
SW Version	/
HW Version	/
Testing Environment	25°C 35%RH

2. Lab Information

Company Name	Core Wireless (Beijing) Communication Technology Co., LTD
Company Address	Room 101, Building 62, Jinghai 3rd Road, No.109, BDA, Beijing, China 100176
Laboratory Address	Room 101, Building 62, Jinghai 3rd Road, No.109, BDA, Beijing, China 100176
Contacts	Shiyang
Telephone	+86-10-67870336
E-mail	shiyang@newradiolab.com

3. Equipments

No.	Name	Model	S/N	Manufacturer	Cal. Date
1	ENA Vector Network Analyzer	E5071C	MY42202610	Agilent	2025/09/26
2	Anechoic Chamber	AMS8500	N/A	ETS-Lindgren	N/A
3	Switch Controller	TS-RSP	100365	R&S	N/A
4	Multi-Device Positioning Controller	2090	00060093	ETS-Lindgren	N/A
5	Diagonal Dual Polarized Horns	3164-04	1009	ETS-Lindgren	N/A
6	EMQuest	V1.16	N/A	ETS-Lindgren	N/A

Note:

The report shall not be partially reproduced without the written approval of Core Wireless (Beijing) Communication Technology Co., LTD. The test results are valid only for the corresponding test samples.

4. Test Results

4.1 Gain

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-1.43	71.92	1.59
2405	-1.42	72.18	1.75
2410	-1.35	73.32	1.86
2415	-1.34	73.50	1.75
2420	-1.37	72.95	1.81
2425	-1.41	72.36	1.78
2430	-1.40	72.50	1.67
2435	-1.37	73.00	1.72
2440	-1.31	73.91	1.98
2445	-1.39	72.65	1.76
2450	-1.42	72.11	1.72
2455	-1.49	70.88	1.77
2460	-1.47	71.27	1.77
2465	-1.44	71.85	1.81
2470	-1.46	71.52	1.86
2475	-1.50	70.81	1.81
2480	-1.67	68.13	1.64
2485	-1.49	70.92	1.85
2490	-1.39	72.58	2.01
2495	-1.14	76.86	2.16
2500	-1.20	75.94	2.16

Note:

The report shall not be partially reproduced without the written approval of Core Wireless (Beijing) Communication Technology Co., LTD. The test results are valid only for the corresponding test samples.

4.2 VSWR

Frequency (MHz)	VSWR
2400	1.35
2405	1.17
2410	1.14
2415	1.16
2420	1.04
2425	1.28
2430	1.29
2435	1.24
2440	1.24
2445	1.34
2450	1.40
2455	1.39
2460	1.31
2465	1.37
2470	1.46
2475	1.41
2480	1.24
2485	1.17
2490	1.15
2495	1.06
2500	1.12

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

Note:

The report shall not be partially reproduced without the written approval of Core Wireless (Beijing) Communication Technology Co., LTD. The test results are valid only for the corresponding test samples.

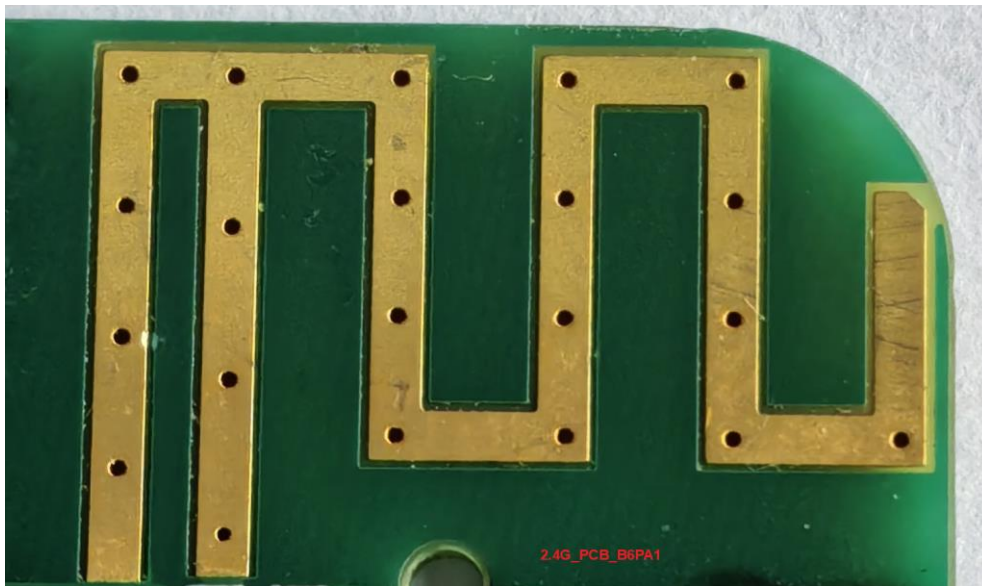
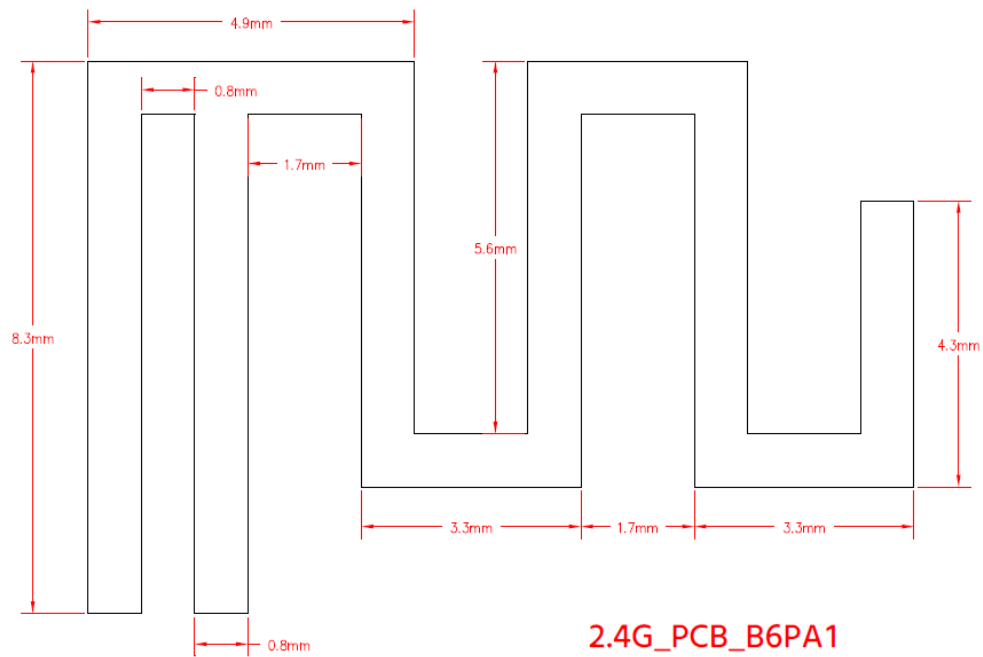
Appendix A: Reference Documents

Reference	Title	Version
IEEE Std 149	IEEE Recommended Practice for Antenna Measurements	2021
GB/T 9410	General specification for antennas used in the mobile communications	2008

Note:

The report shall not be partially reproduced without the written approval of Core Wireless (Beijing) Communication Technology Co., LTD. The test results are valid only for the corresponding test samples.

Appendix B: EUT Photographs

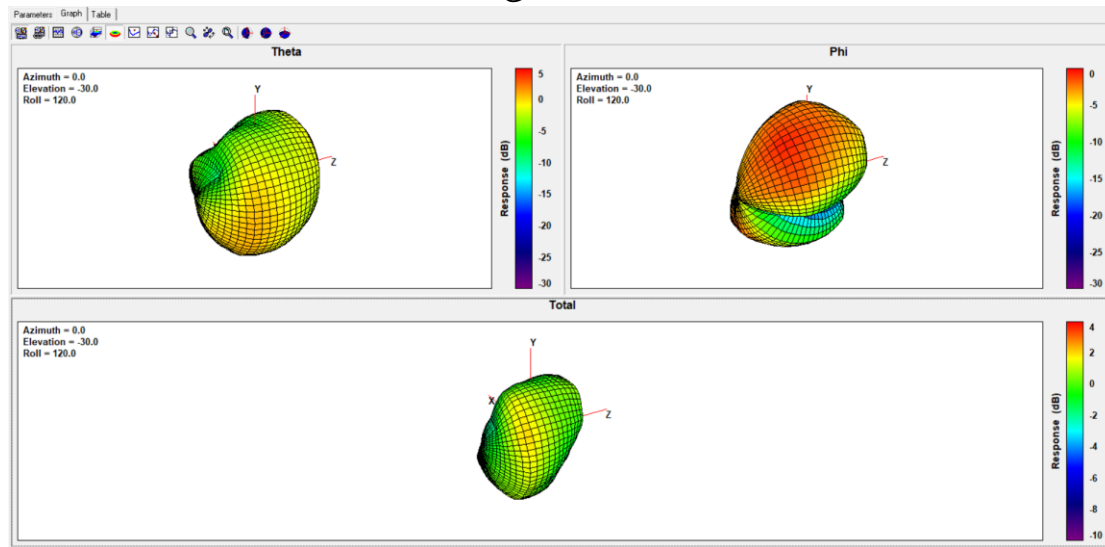


Note:

The report shall not be partially reproduced without the written approval of Core Wireless (Beijing) Communication Technology Co., LTD. The test results are valid only for the corresponding test samples.

Appendix C: 3D Pattern Plots

@2450MHz



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

Note:

The report shall not be partially reproduced without the written approval of Core Wireless (Beijing) Communication Technology Co., LTD. The test results are valid only for the corresponding test samples.