



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

Room 101, Building 62, Jinghai 3rd Road,
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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

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Reviewed by
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Approved by
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(Authorized signatory)

Note:

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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
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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

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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

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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

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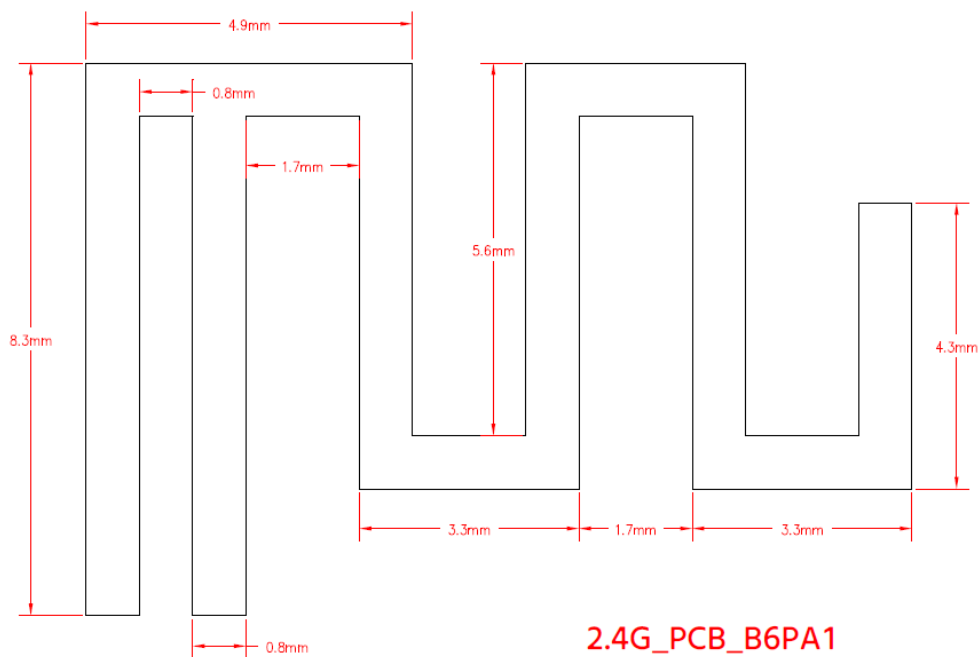
Appendix A: Reference Documents

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

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Appendix B: EUT Photographs

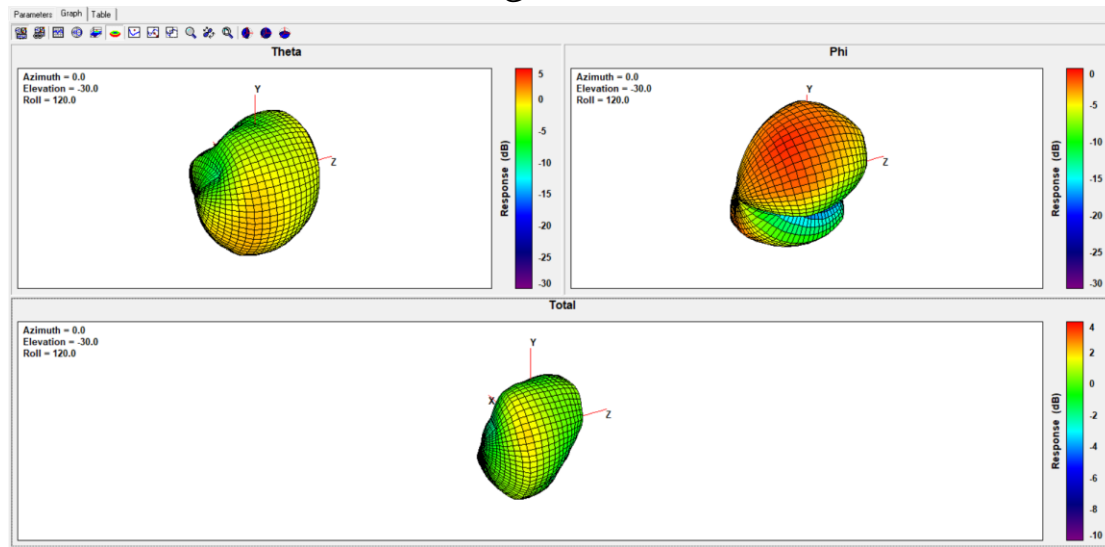


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Appendix C: 3D Pattern Plots

@2450MHz



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