



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZOA2506000133AT01
Rev.: 02
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ANTENNA PASSIVE TEST REPORT

Application No. SZOA2506000133AT
Applicant Hangzhou Yiling Intelligent Technology Co., Ltd
Manufacturer Hangzhou Yiling Intelligent Technology Co., Ltd
Product Name Robot
Model No. Electro
Standards ANSI/IEEE Std 149-2021
Date Initial Sample(s) Received Jun 30, 2025
Testing Start Date Jun 30, 2025
Testing Finish Date Jun 30, 2025
Report Issue Date Aug 13, 2025

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Turner He

Ervin Li

Prepared by: Turner He/Test Engineer

Approved by: Ervin Li/Technical Manager



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Revision History

Revision	Issue Date	Description
01	Jul 16, 2025	Initial creation of report
02	Aug 13, 2025	Update 2-D Antenna Pattern

*This report supersedes our previous report SZA2506000133AT01 Version 01, issued on 2025-07-16, which is hereby deemed null and void.



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1 General Information

1.1 Testing Laboratory

Test Lab	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
Contact	Ervin Li
Tel.	+86 18823369694
Fax	+86-755-25328600
E-mail	Ervin.Li@sgs.com

1.2 Details of Applicant

Applicant's Name	Hangzhou Yiling Intelligent Technology Co., Ltd
Applicant's Address	Room 309, Building 2, No.1 Weiye Road, Puyan Street, Binjiang District, Hangzhou City
Contact	Zhu Yuchen
Tel.	13581976712
Fax	/
E-mail	mabaiye@happy-puzzle.com

1.3 Details of Manufacturer

Manufacturer's Name	Hangzhou Yiling Intelligent Technology Co., Ltd
Manufacturer's Address	Room 309, Building 2, No.1 Weiye Road, Puyan Street, Binjiang District, Hangzhou City
Contact	Zhu Yuchen
Tel.	13581976712
Fax	/
E-mail	mabaiye@happy-puzzle.com



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1.4 General Description of EUT

Device Description:	Robot
Device Manufacturer:	Hangzhou Yiling Intelligent Technology Co., Ltd
Device Model:	Electro
Hardware Version:	1.0
Software Version:	N/A
Air Interface Supported	2.4G

1.5 Test Procedure

Testing is performed according to the **ANSI/IEEE Std 149-2021**.



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1.6 Test Specification

Identity	Document Title
ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

1.7 Laboratory Environment

Temperature	Min. =19°C , Max. = 25°C	
Relative humidity	Min. =40% , Max. =72%	
Shield effect	0.7-6GHz	> 100dB
Ground resistance	<0.5Ω	



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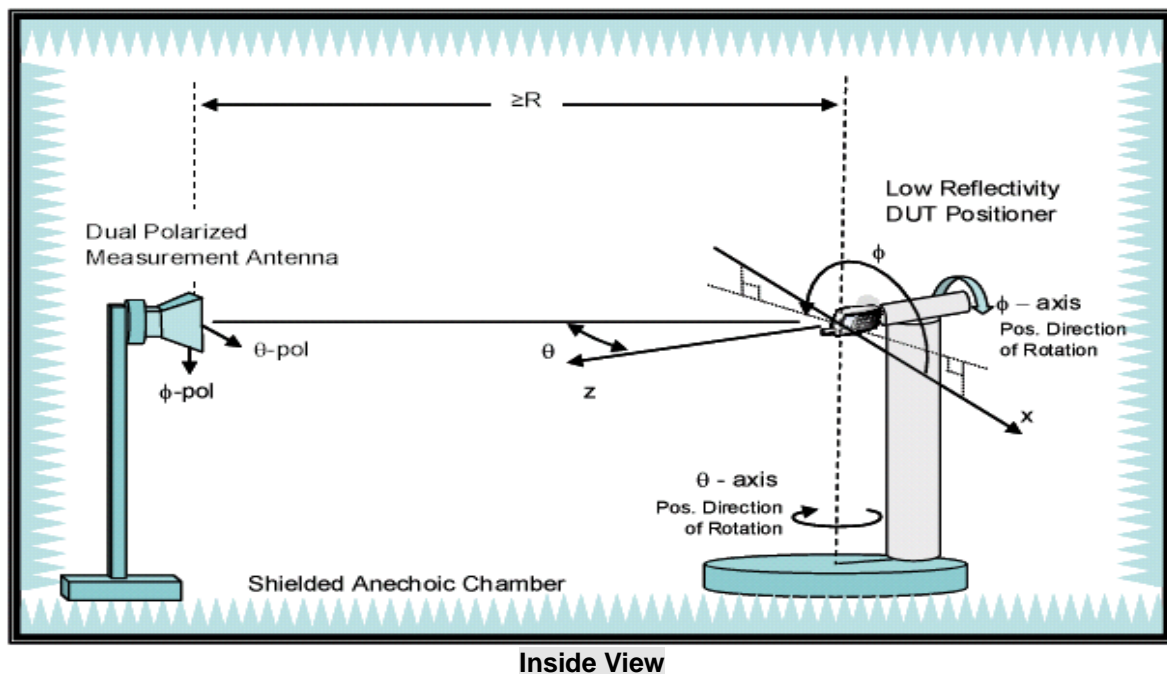
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2 OTA Measurements System Configuration

2.1 Test Configuration

Measurements are performed in a ETS-Lindgren AMS-8500 3D fully anechoic test system. The test system includes a high-performance RF-shielded, rectangular anechoic chamber, a Multi-Axis Positioning System (MAPS), and EMQuestTMEMQ-100 data acquisition and analysis software. The geometry of the setup is specified below for reference.

Typical Setup for ETS-Lindgren AMS-8500:



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3 Test Equipment List

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	E5071C S/N MY46523591	Keysight	2024/12/19	2025/12/18
Quad-Ridge Horn Antenna 700 MHz-10 GHz	EMCO 3164-08 S/N 161915	ETS-Lindgren L.P.	N/A	N/A
MAPS Controller	EMCENTER S/N 160485	ETS-Lindgren L.P.	N/A	N/A
SAM V4.5BS Head Phantom	Head Phantom S/N 3609	SPEAG	NCR	NCR

Definition of Acronyms:
NCR: No Calibration Requirement.



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4 Measurement Uncertainty

Item	2400-2500 MHz (dB)
Gain	0.88
Efficiency	0.88
Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2	



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5 Test Results

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-3.40	45.74	0.58
2355	-3.51	44.52	0.27
2360	-3.64	43.23	0.15
2365	-3.82	41.48	-0.06
2370	-4.13	38.61	-0.12
2375	-4.15	38.47	0.11
2380	-4.30	37.14	-0.43
2385	-4.40	36.34	-0.57
2390	-4.52	35.31	-0.54
2395	-4.58	34.83	-0.75
2400	-4.76	33.46	-0.71
2402	-4.79	33.17	-0.98
2405	-4.87	32.60	-0.96
2410	-4.83	32.89	-0.98
2415	-4.93	32.16	-1.16
2420	-5.07	31.15	-1.27
2425	-5.15	30.55	-1.50
2430	-5.13	30.69	-1.19
2435	-5.15	30.53	-1.40
2440	-5.18	30.32	-0.69
2441	-5.21	30.10	-1.25
2445	-5.21	30.14	-1.42
2450	-5.40	28.81	-1.46
2455	-5.26	29.75	-1.59
2460	-5.34	29.21	-1.44
2465	-5.25	29.88	-1.60
2470	-5.36	29.09	-1.64
2475	-5.31	29.46	-1.73
2480	-5.43	28.63	-1.82
2485	-5.42	28.68	-1.93
2490	-5.62	27.42	-2.08
2495	-5.58	27.65	-2.06
2500	-5.81	26.26	-2.37
2505	-5.89	25.76	-2.37
2510	-6.04	24.91	-2.63
2515	-6.21	23.95	-2.78
2520	-6.32	23.31	-3.02
2525	-6.52	22.30	-3.13
2530	-6.74	21.19	-3.55
2535	-6.84	20.72	-3.52
2540	-7.00	19.95	-3.85
2545	-7.28	18.70	-3.93
2550	-7.49	17.81	-4.45
2555	-7.65	17.17	-4.34
2560	-7.82	16.54	-4.77
2565	-8.10	15.49	-4.87
2570	-8.33	14.68	-5.25
2575	-8.41	14.41	-5.24
2580	-8.66	13.60	-5.75



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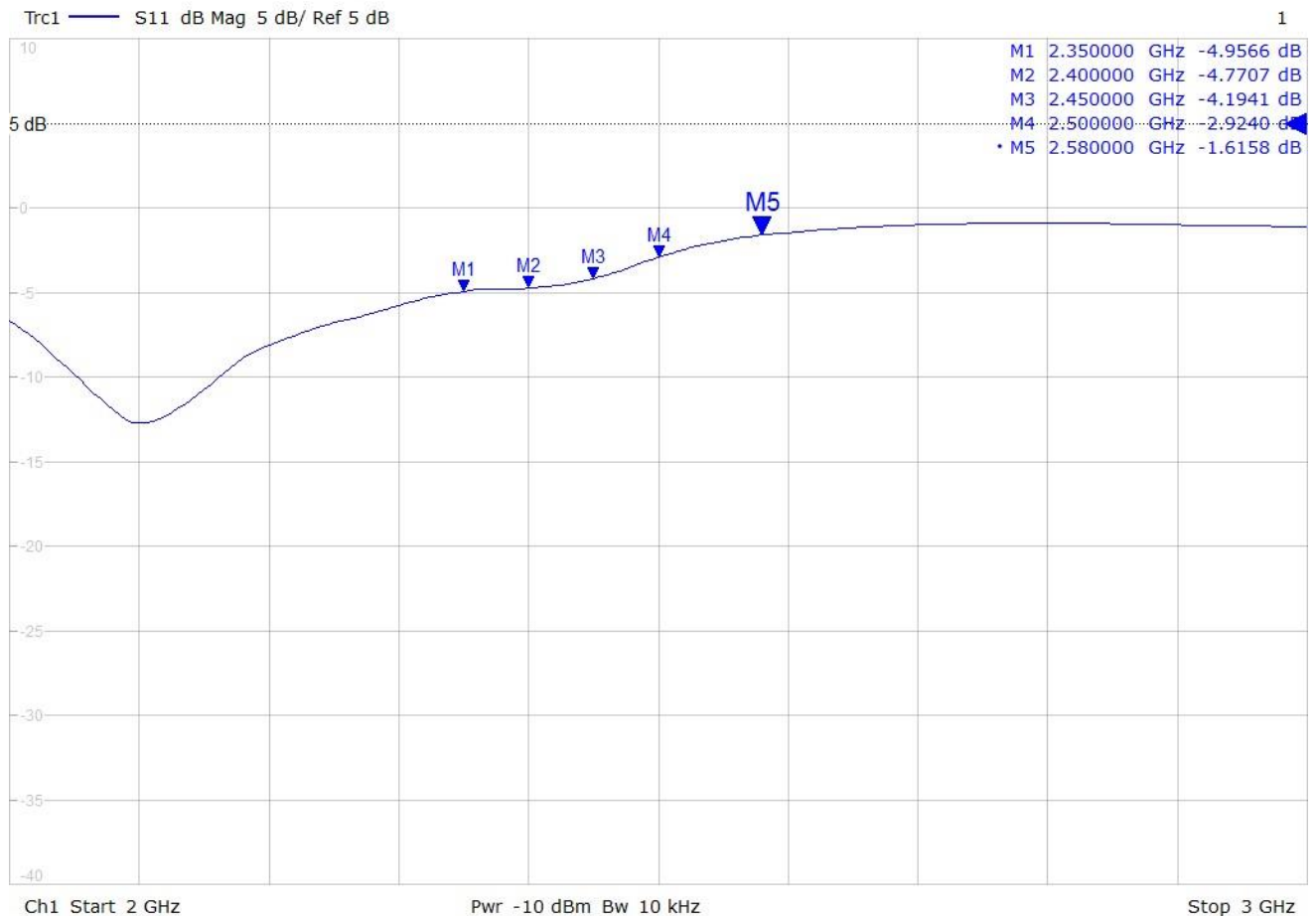
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6 Pattern Plots

6.1 Return Loss

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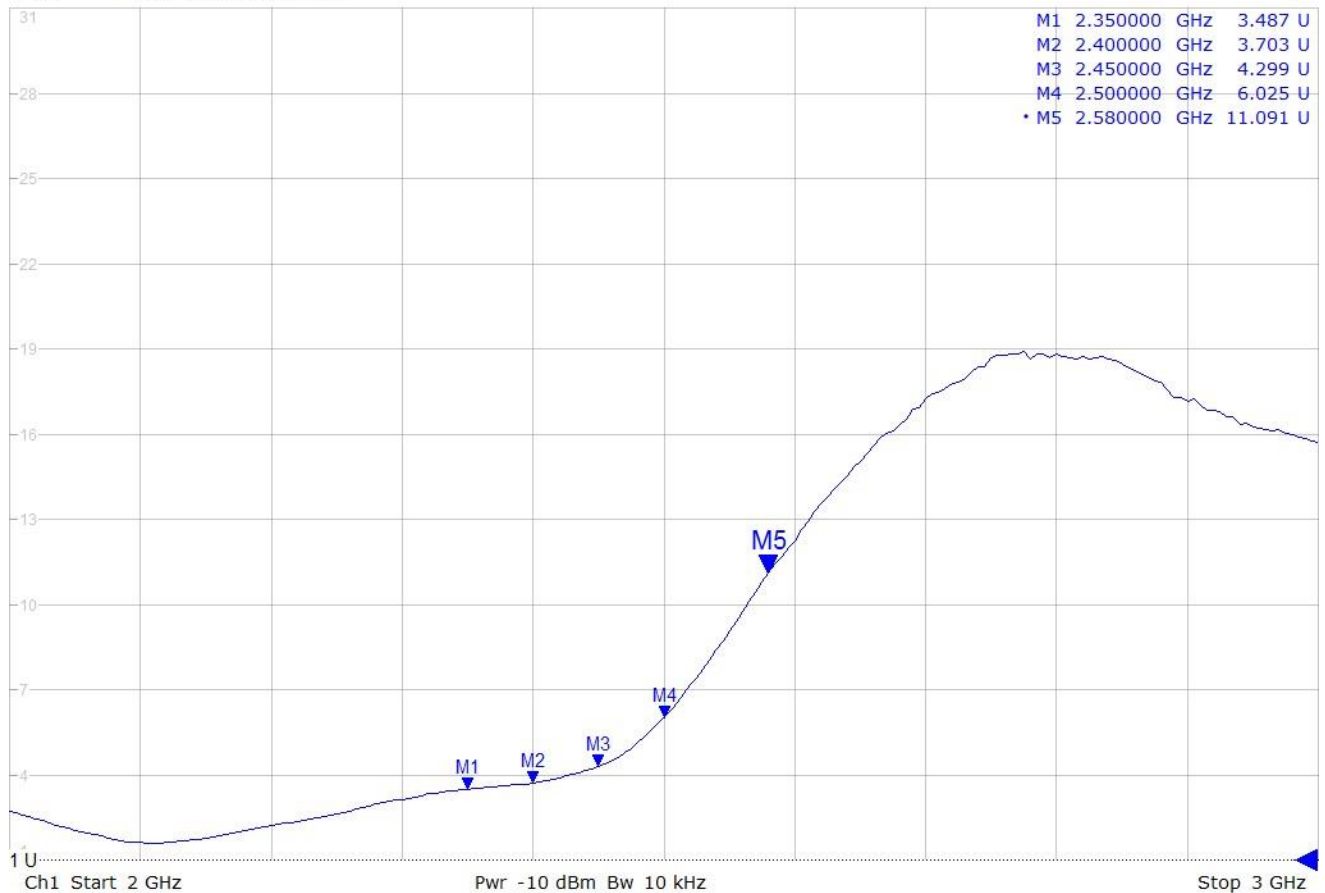
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6.2 VSWR

6/30/2025 6:50:55 AM
1311.6010K42-103407-Te

Trc1 — S11 SWR 3 U/ Ref 1 U

1



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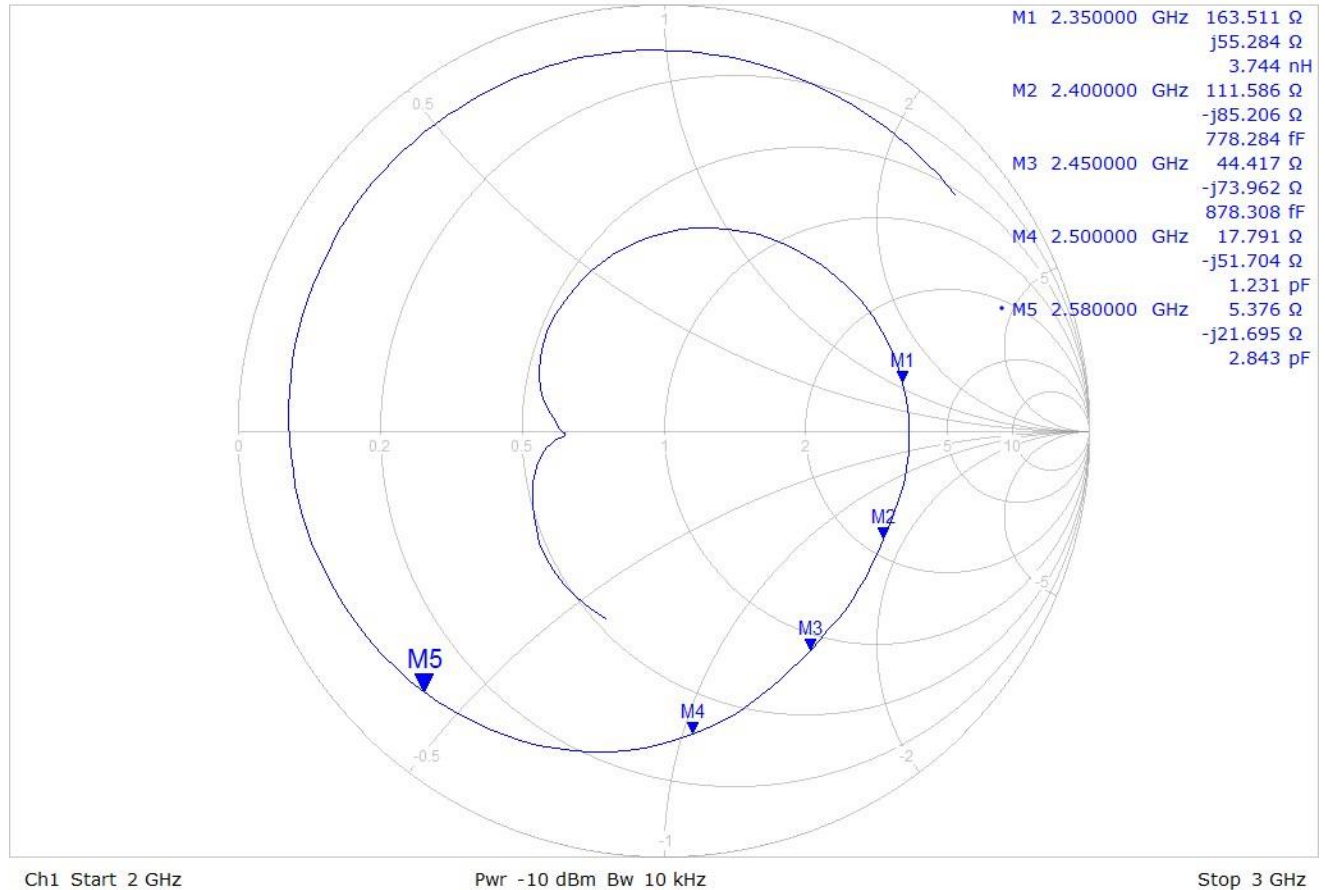
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6.3 Stimulus

6/30/2025 6:50:10 AM
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Trc1 — S11 Smith 200 mU/ Ref 1 U



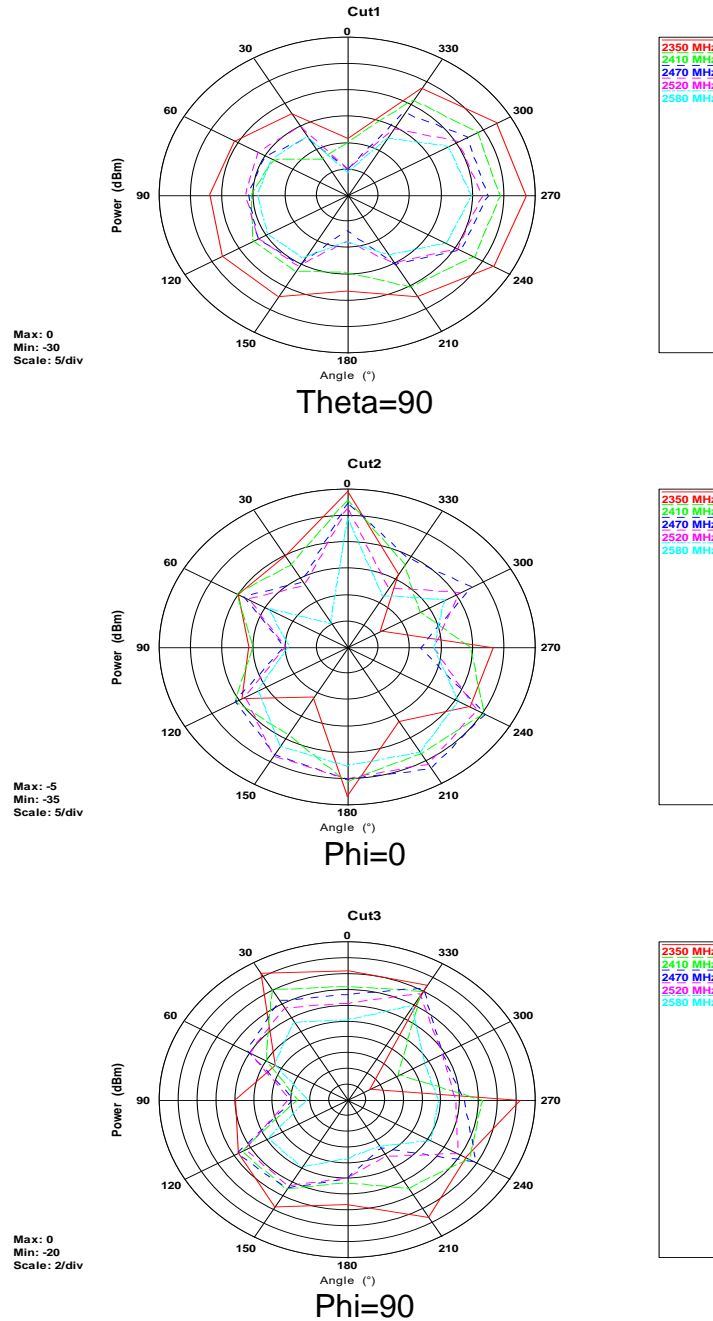
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7 2-D Antenna Pattern



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8 The EUT and Test Configuration

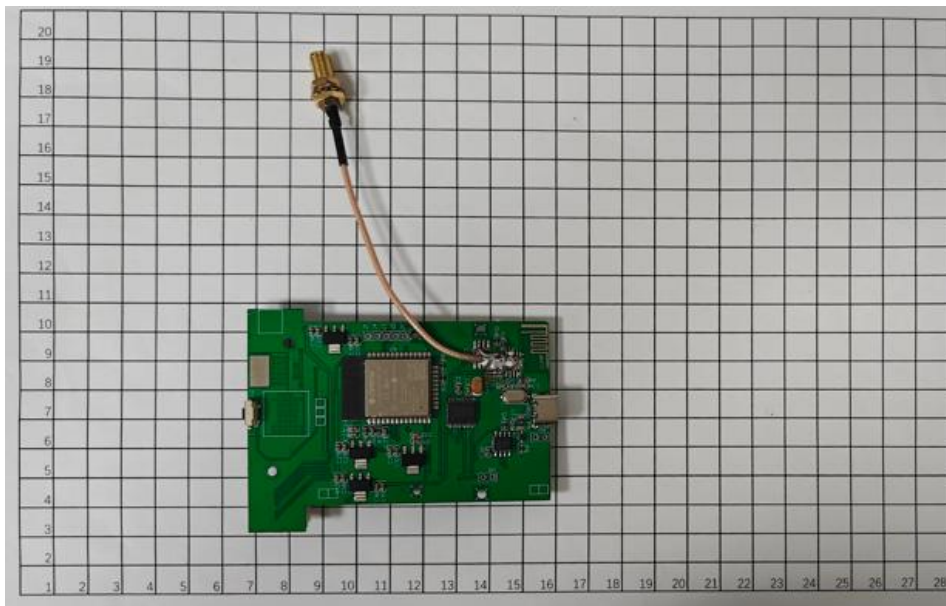
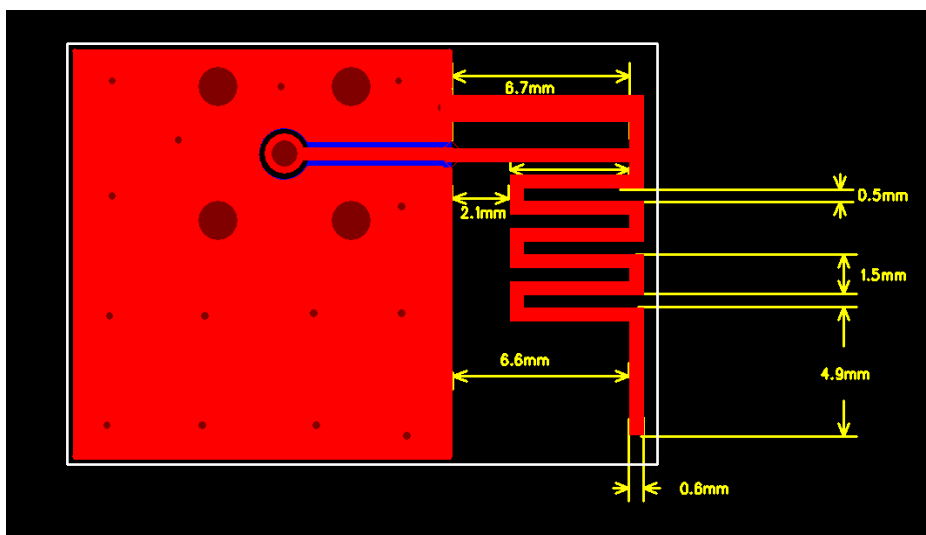


Photo of EUT



Antenna Dimensions



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Free Space View

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