

ANTENNA PASSIVE TEST REPORT

Application No.	SZOA2503000046MO
Applicant	Shenzhen RF-star Technology Co., Ltd
Manufacturer	Shenzhen RF-star Technology Co., Ltd
Product Name	BLE Wireless Module
Model No.	RF-BM-2340A1
Standards	ANSI/IEEE Std 149-2021
Date Initial Sample(s) Received	Mar.10, 2025
Testing Start Date	Mar.10, 2025
Testing Finish Date	Mar.11, 2025
Report Issue Date	Mar.13, 2025

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



Prepared by: Yuanyu Luo/ Test
Engineer



Approved by: Ervin Li/ Technical
Manager



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Revision History

Revision	Issue Date	Description
01	Mar.13, 2025	Initial creation of report



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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	Shenzhen RF-star Technology Co., Ltd.
Applicant's Address	Room 503, Block12-A5, Shenzhen Bay Science and Technology Ecological Park, Nanshan District, Shenzhen, China
Contact	Jianmei Yang
Tel.	+86 18576408110
Fax	N/A
E-mail	cammy@szrfstar.com

1.3 Details of Manufacturer

Manufacturer's Name	Shenzhen RF-star Technology Co., Ltd.
Manufacturer's Address	Room 503, Block12-A5, Shenzhen Bay Science and Technology Ecological Park, Nanshan District, Shenzhen, China
Contact	Jianmei Yang
Tel.	+86 18576408110
Fax	N/A
E-mail	cammy@szrfstar.com



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1.4 General Description of EUT

Antenna Description:	BLE Wireless Module
Antenna Manufacturer:	Shenzhen RF-star Technology Co., Ltd
Antenna Model:	RF-BM-2340A1
Hardware Version:	N/A
Software Version:	N/A
Antenna Dimensions:	10.28 x 2.79 x 0.5 mm
Antenna Type:	PCB Antenna

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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2 OTA Measurements System Configuration

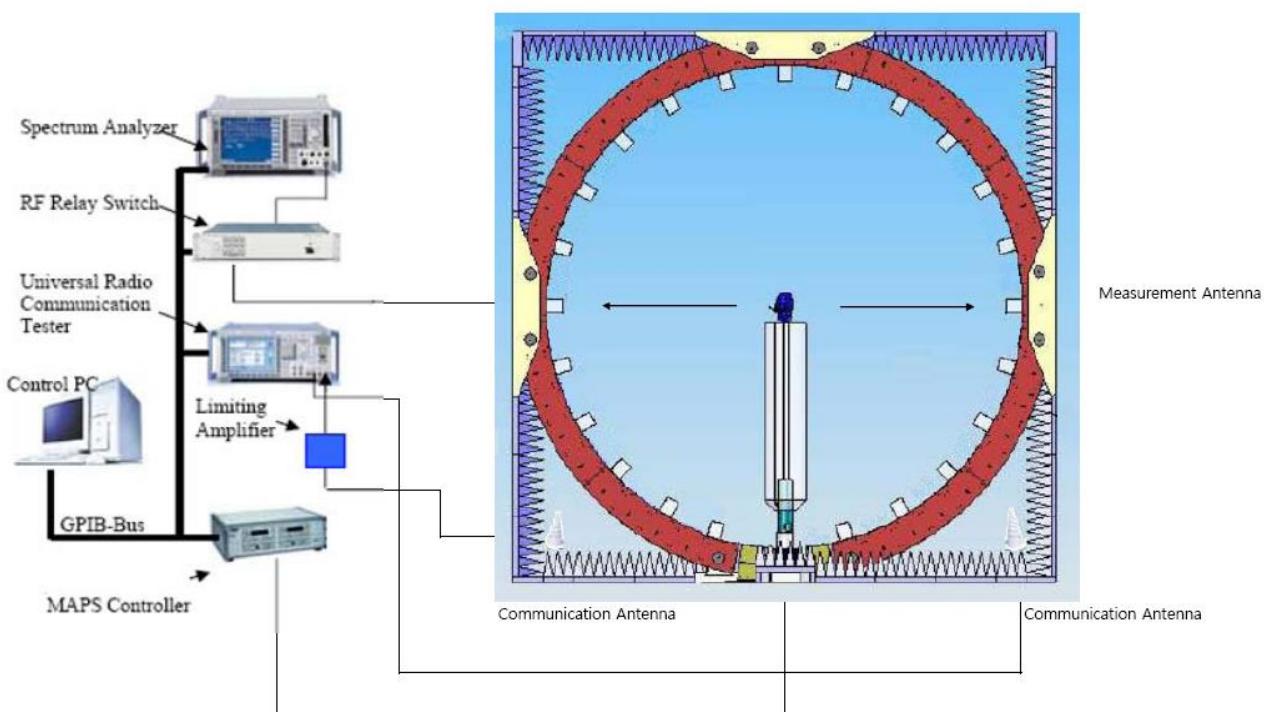
2.1 Test Configuration

Testing Condition:

- Temperature: $22 \pm 3^\circ\text{C}$
- Humidity: <80%

Measurement Facility:

Great-Circle-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1.92m



F-1. OTA Measurement System Configuration



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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

RF-BM-2340A1			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-7.84	16.43	1.06
2355	-7.95	16.04	0.82
2360	-7.73	16.87	1.16
2365	-7.81	16.57	1.17
2370	-7.83	16.48	1.03
2375	-7.79	16.65	1.20
2380	-7.68	17.04	1.09
2385	-7.43	18.05	1.45
2390	-7.36	18.35	1.45
2395	-7.12	19.40	1.74
2400	-7.32	18.55	1.62
2402	-7.44	18.05	1.37
2405	-7.48	17.85	1.33
2410	-7.44	18.02	1.54
2415	-7.49	17.80	1.33
2420	-7.31	18.59	1.57
2425	-7.45	17.98	1.53
2430	-7.68	17.05	1.29
2435	-7.90	16.21	1.37
2440	-8.13	15.38	0.90
2441	-8.13	15.38	0.87
2445	-8.11	15.47	1.12
2450	-8.13	15.38	0.86
2455	-8.08	15.57	0.94
2460	-8.32	14.73	0.61
2465	-8.50	14.14	0.37
2470	-8.84	13.07	0.03
2475	-9.05	12.45	-0.23
2480	-9.30	11.74	-0.46
2482	-9.38	11.55	-0.64
2485	-9.50	11.22	-0.75

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2490	-9.57	11.04	-0.77
2495	-9.47	11.30	-0.70
2500	-9.46	11.32	-0.65
2505	-9.39	11.51	-0.56
2510	-9.55	11.09	-0.66
2515	-9.91	10.22	-1.00
2520	-10.37	9.19	-1.49
2525	-10.79	8.34	-1.83
2530	-11.09	7.78	-2.22
2535	-11.28	7.45	-2.39
2540	-11.38	7.28	-2.51
2545	-11.47	7.12	-2.62
2550	-11.73	6.72	-2.83
2555	-12.01	6.29	-3.16
2560	-12.29	5.90	-3.48
2565	-12.46	5.68	-3.69
2570	-12.52	5.60	-3.79
2575	-12.59	5.51	-3.93
2580	-12.63	5.46	-3.82



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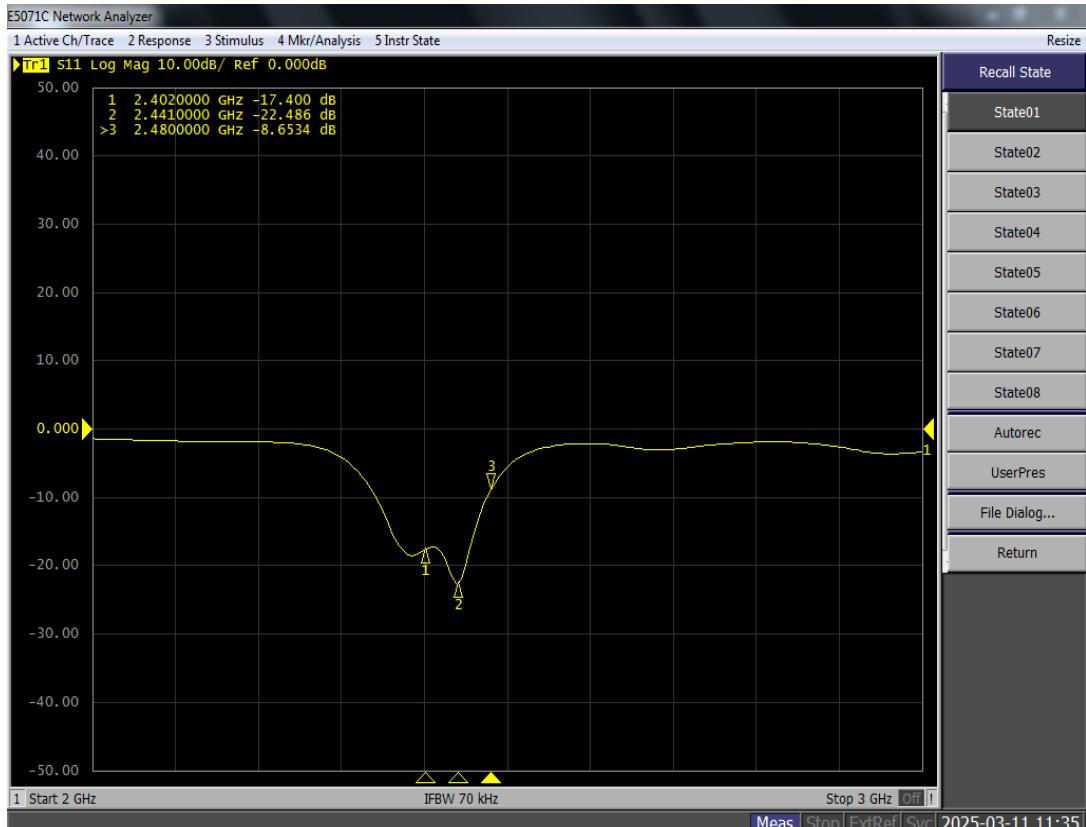
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6 Pattern Plots

6.1 Return Loss



RF-BM-2340A1



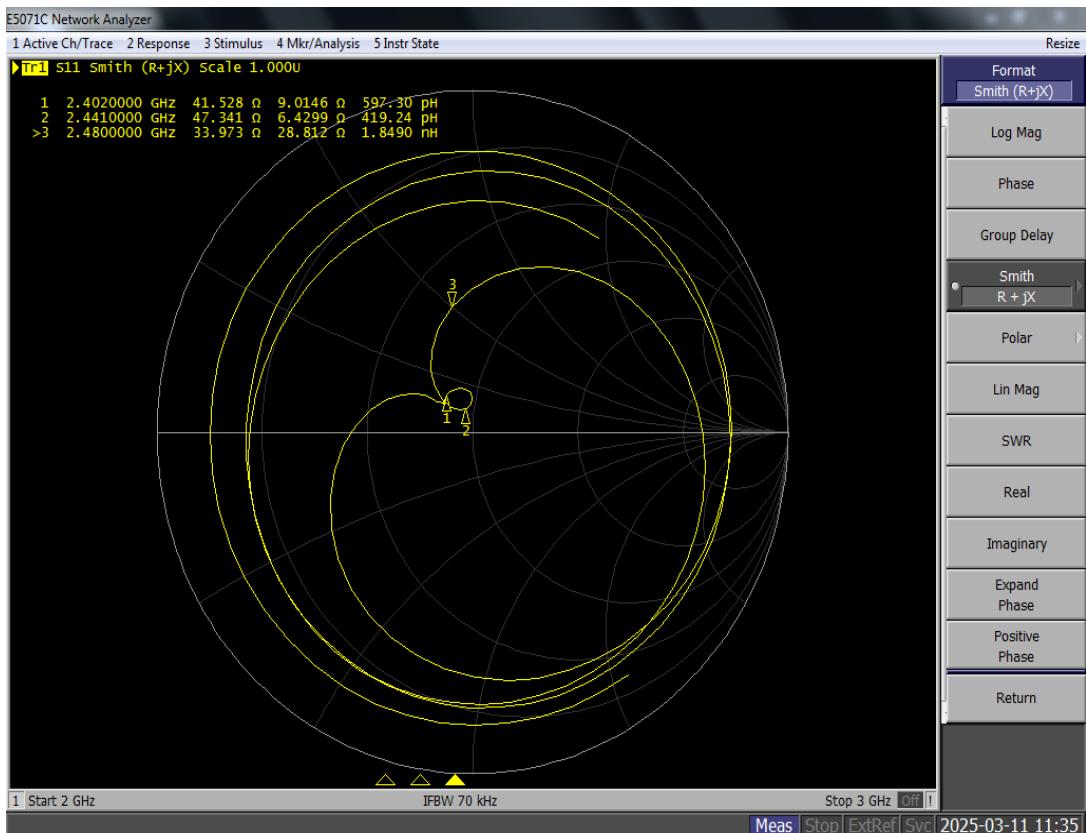
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6.2 VSWR



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 Shenzhen Branch Wireless Laboratory

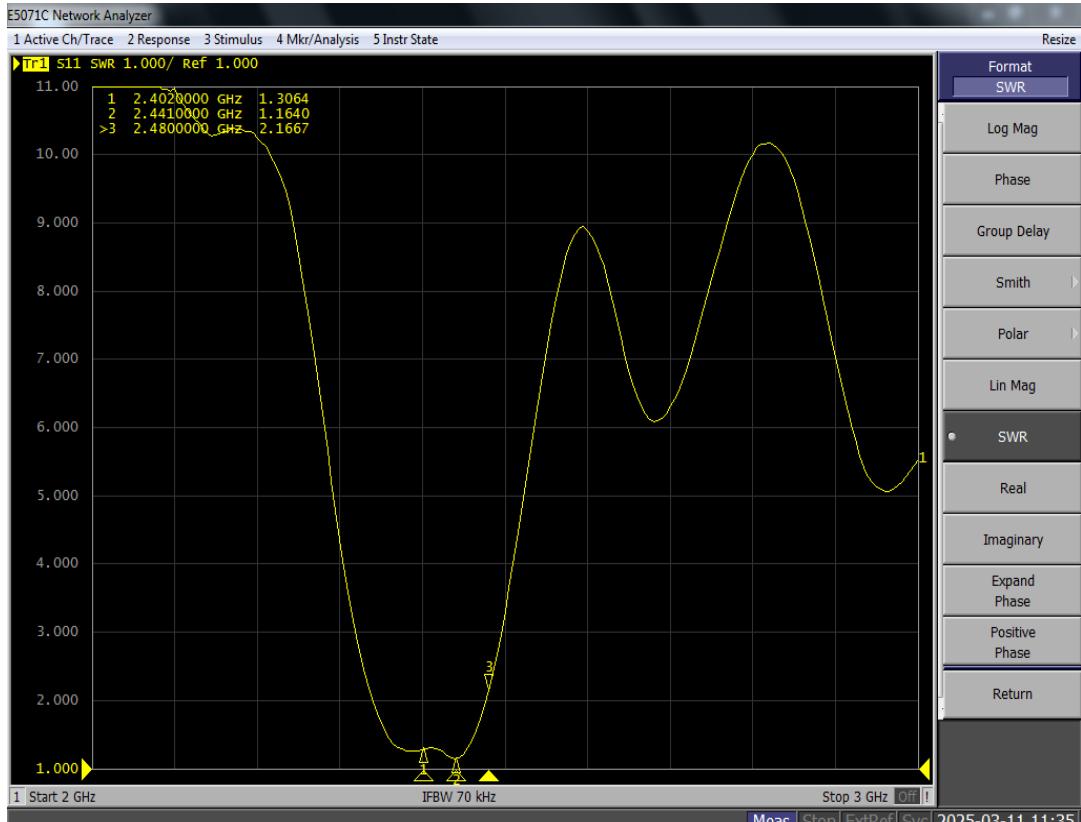
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6.3 Stimulus



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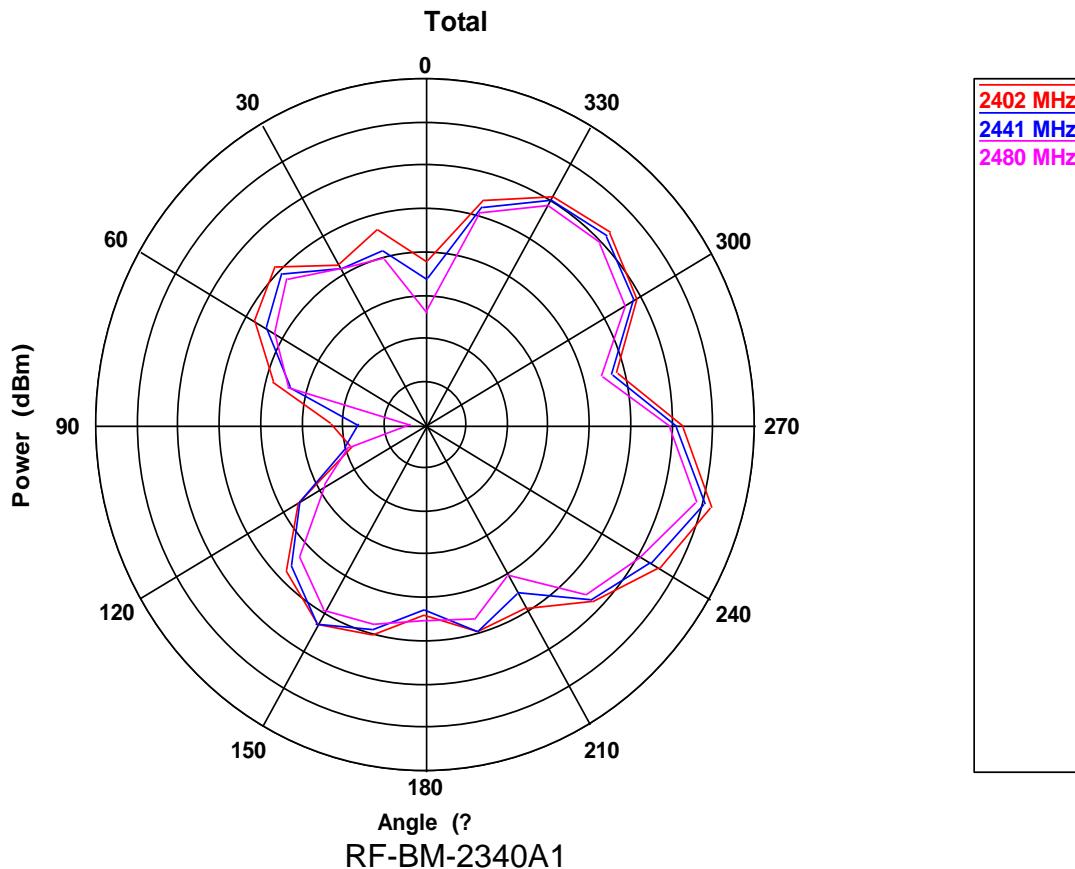


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7 2-D Antenna Pattern(Theta=90°)

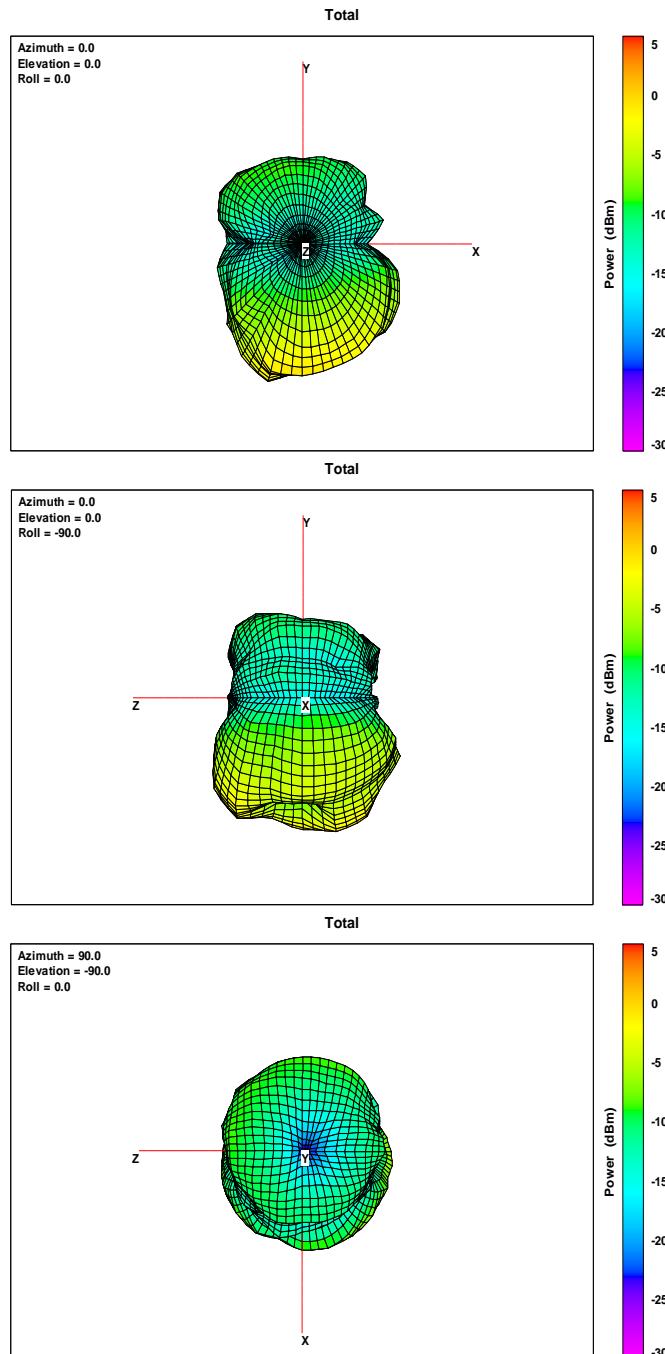
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8 3-D Antenna Pattern



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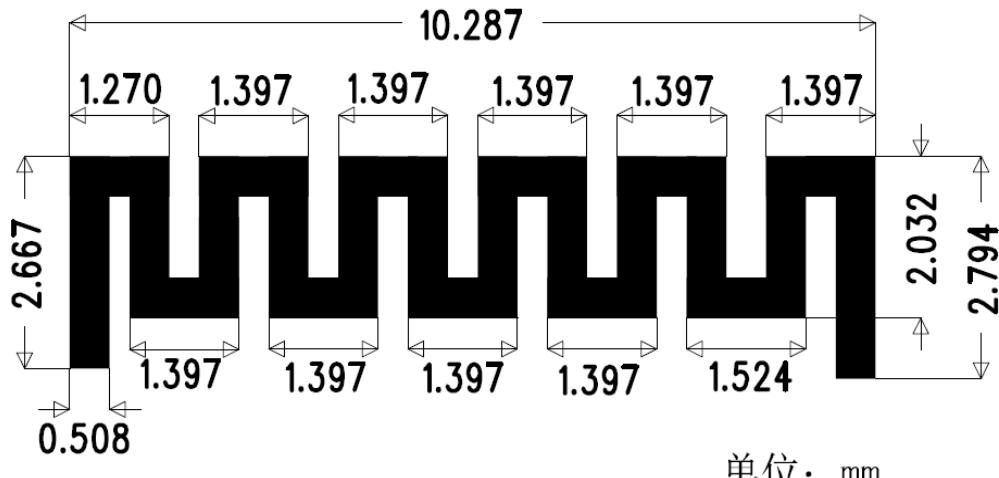
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9 The EUT and Test Configuration



Photo of EUT



单位: mm

Antenna Dimensions

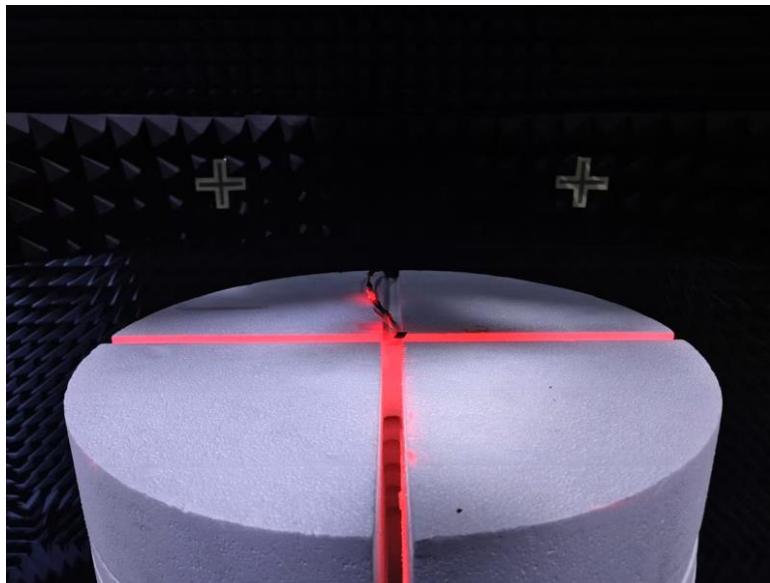


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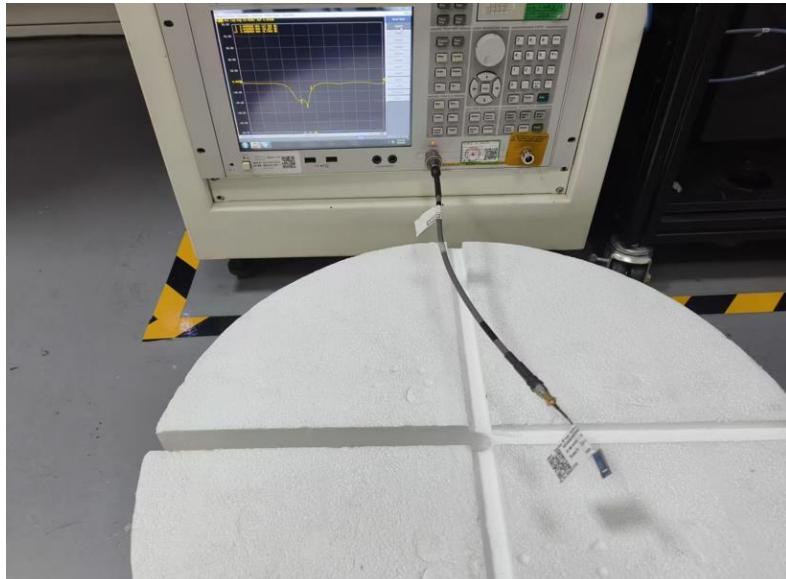
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Free Space View



Free Space Setup

---END---



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