

ANTENNA PASSIVE TEST REPORT

Application No. SZOA2403000049AT
Applicant Huizhou Enya Musical Instrument Co., Ltd.
Manufacturer Huizhou Enya Musical Instrument Co., Ltd.
Product Name Enya Intelligent Sound Guitar
Model No. NOVA GO SONIC
Standards ANSI/IEEE Std 149-2008
Date Initial Sample(s) Received 2024.03.07
Testing Start Date 2024.03.07
Testing Finish Date 2024.03.07
Report Issue Date 2024.03.14

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

YUANYU LUO

Prepared by

Max. Huang

Reviewed By

Yubin Li

Approved by



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

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Revision Version

Report No.	Version	Date	Memo
SZOA2403000049AT01	01	2024.03.14	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	Huizhou Enya Musical Instrument Co., Ltd.
Applicant's Address	Shunju Village, Tea Garden Management Zone, Qiuchang Street Office, Huiyang District, Huizhou City
Contact	JIAN BIAO HE
Tel.	0752—3595114
Fax	N/A
E-mail	hjb@enyamusical.com

1.3 Details of Manufacturer

Manufacturer's Name	Huizhou Enya Musical Instrument Co., Ltd.
Manufacturer's Address	Shunju Village, Tea Garden Management Zone, Qiuchang Street Office, Huiyang District, Huizhou City
Contact	JIAN BIAO HE
Tel.	0752—3595114
Fax	N/A
E-mail	hjb@enyamusical.com



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1.4 General Description of EUT

Device Description:	Enya Intelligent Sound Guitar
Device Manufacturer:	Huizhou Enya Musical Instrument Co., Ltd.
Device Model:	NOVA GO SONIC
Hardware Version:	N/A
Software Version:	N/A
Antenna Dimensions:	14.4 x 5.4 x 0.5 mm

1.5 Test Procedure

Testing is performed according to the **ANSI/IEEE Std 149-2008**.



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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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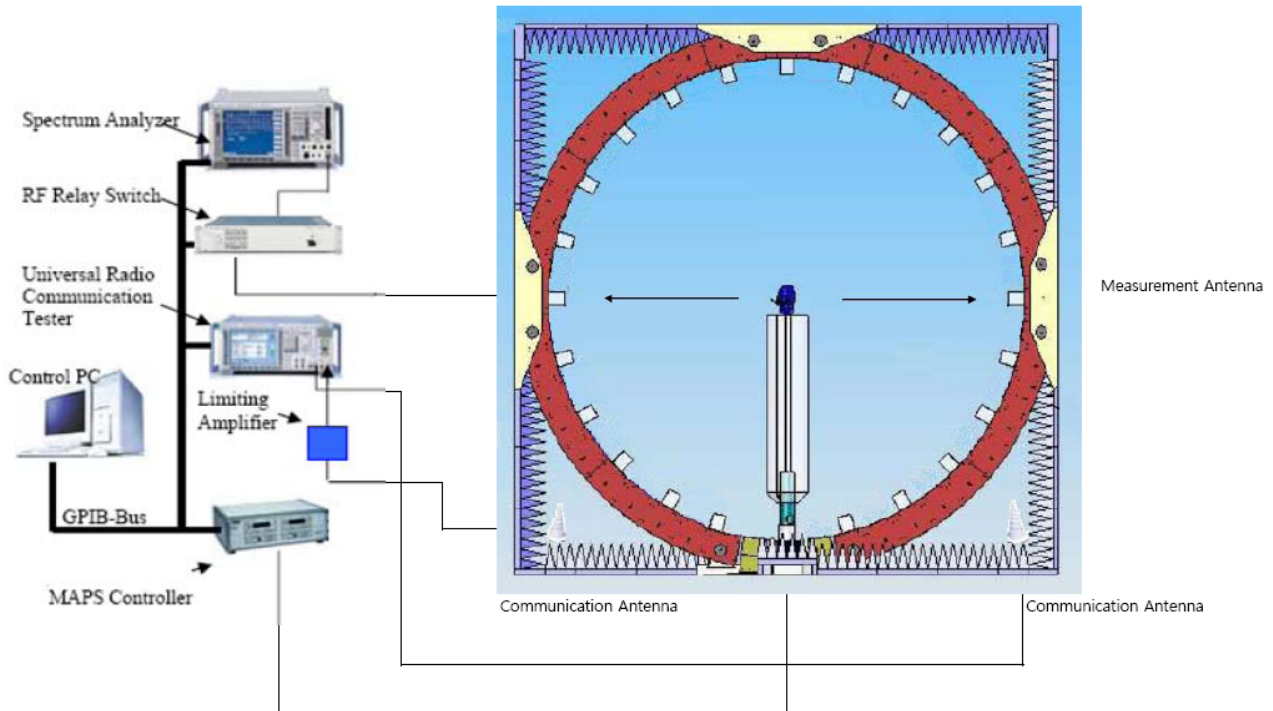
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2 OTA Measurements System Configuration

2.1 Test Configuration

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 5m



F-1. OTA Measurement System Configuration



3 Test Equipment List

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	E5071C S/N MY46523590	Keysight	2024/1/30	2025/1/29
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



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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

Free Space			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-9.39	11.51	-2.12
2355	-9.70	10.72	-2.64
2360	-9.51	11.20	-2.49
2365	-9.68	10.76	-3.02
2370	-9.80	10.47	-3.34
2375	-9.77	10.53	-3.67
2380	-9.78	10.53	-3.14
2385	-9.47	11.29	-2.96
2390	-9.48	11.26	-3.07
2395	-9.20	12.03	-3.23
2400	-9.29	11.77	-3.17
2402	-9.37	11.57	-3.21
2405	-9.26	11.85	-3.02
2410	-8.95	12.74	-2.55
2415	-8.88	12.95	-2.35
2420	-8.65	13.66	-2.08
2425	-8.68	13.55	-1.88
2430	-8.80	13.17	-2.14
2435	-8.84	13.07	-2.03
2440	-8.95	12.74	-2.39
2441	-8.93	12.81	-2.36
2445	-8.74	13.35	-2.04
2450	-8.69	13.52	-2.41
2455	-8.48	14.18	-2.05
2460	-8.54	14.00	-2.35



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2465	-8.56	13.92	-2.28
2470	-8.64	13.68	-2.58
2475	-8.56	13.92	-2.46
2480	-8.43	14.35	-2.36
2482	-8.33	14.68	-2.26
2485	-8.24	14.98	-2.03
2490	-7.97	15.95	-1.77
2495	-7.56	17.55	-1.22
2500	-7.25	18.84	-0.93
2505	-6.93	20.26	-0.51
2510	-6.85	20.66	-0.49
2515	-6.94	20.22	-0.61
2520	-7.14	19.30	-0.90
2525	-7.25	18.82	-1.06
2530	-7.32	18.52	-1.19
2535	-7.26	18.80	-1.10
2540	-7.13	19.37	-0.90
2545	-6.91	20.36	-0.62
2550	-6.87	20.54	-0.46
2555	-6.81	20.82	-0.38
2560	-6.85	20.64	-0.33
2565	-6.78	21.00	-0.23
2570	-6.61	21.85	-0.07
2575	-6.43	22.74	0.12
2580	-6.01	25.05	0.53



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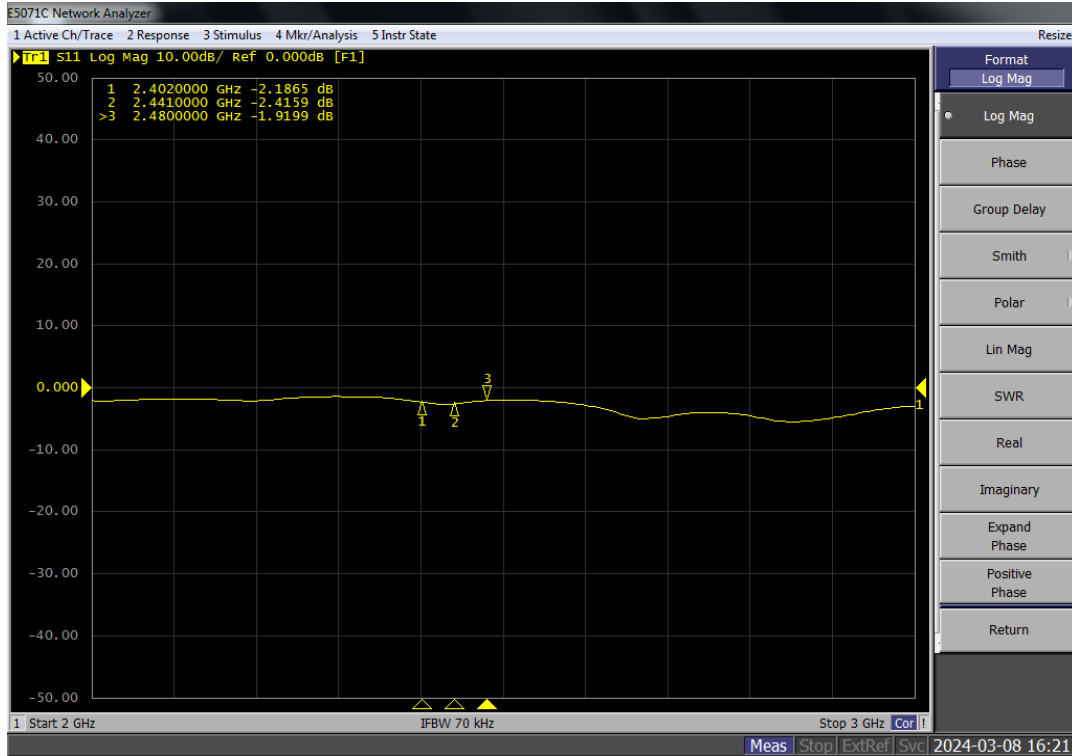
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6 Pattern Plots

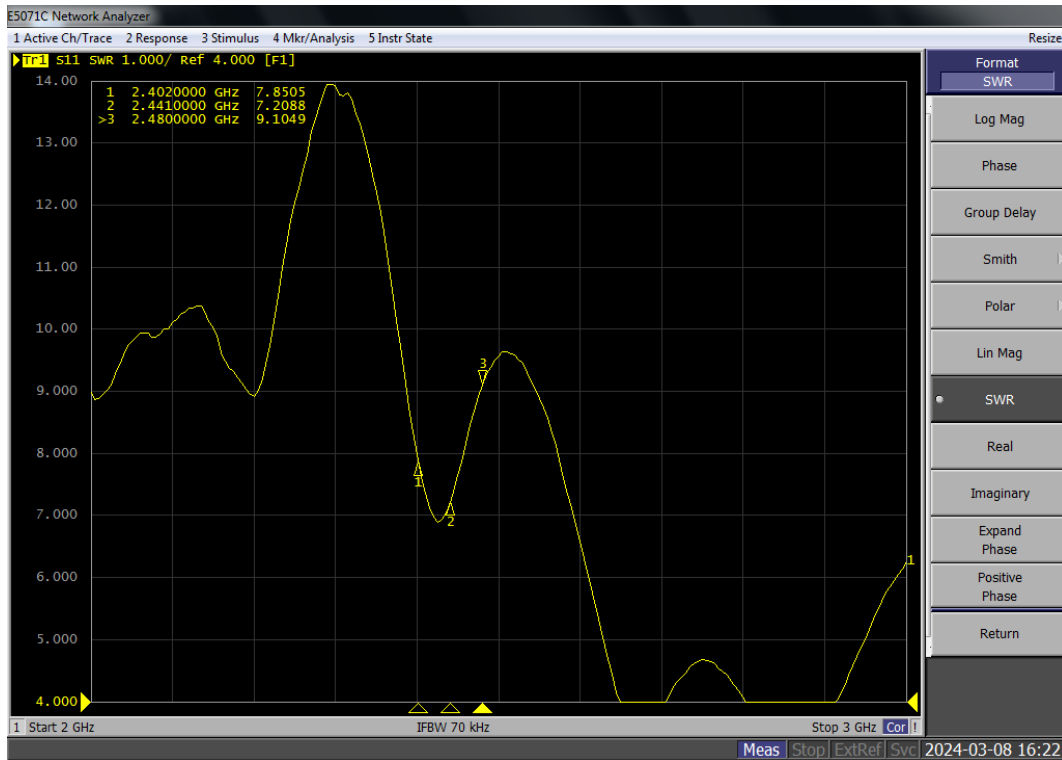
6.1 Return Loss



Free Space



6.2 VSWR



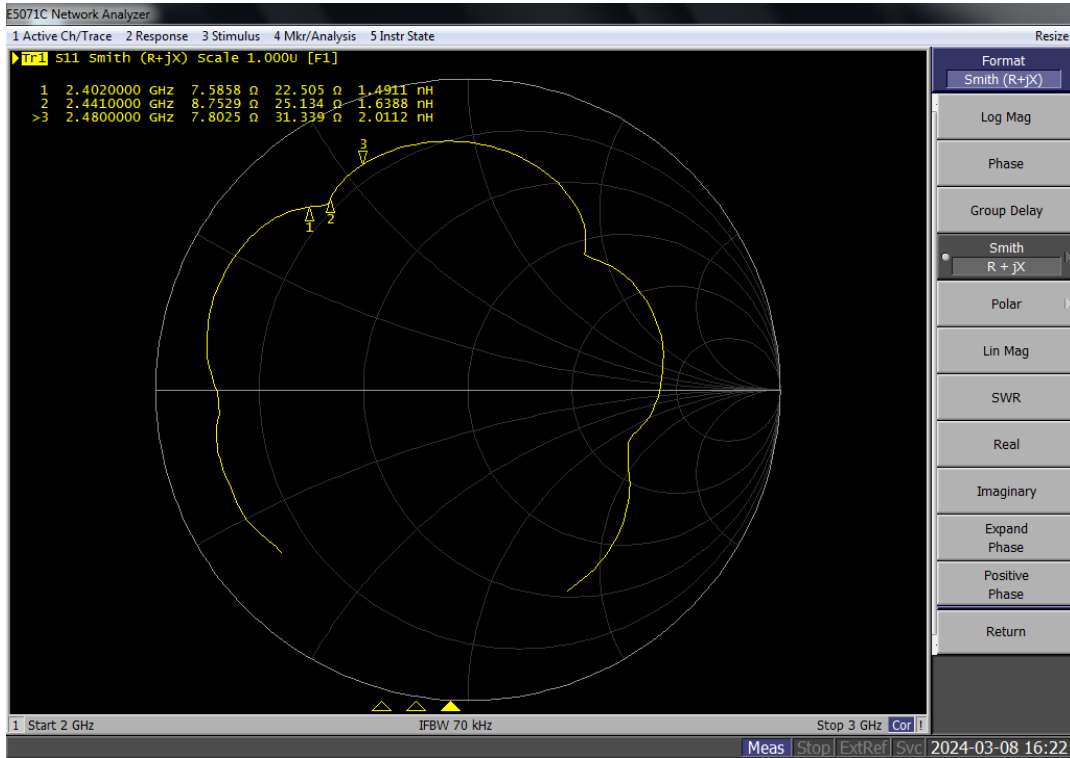
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6.3 Stimulus



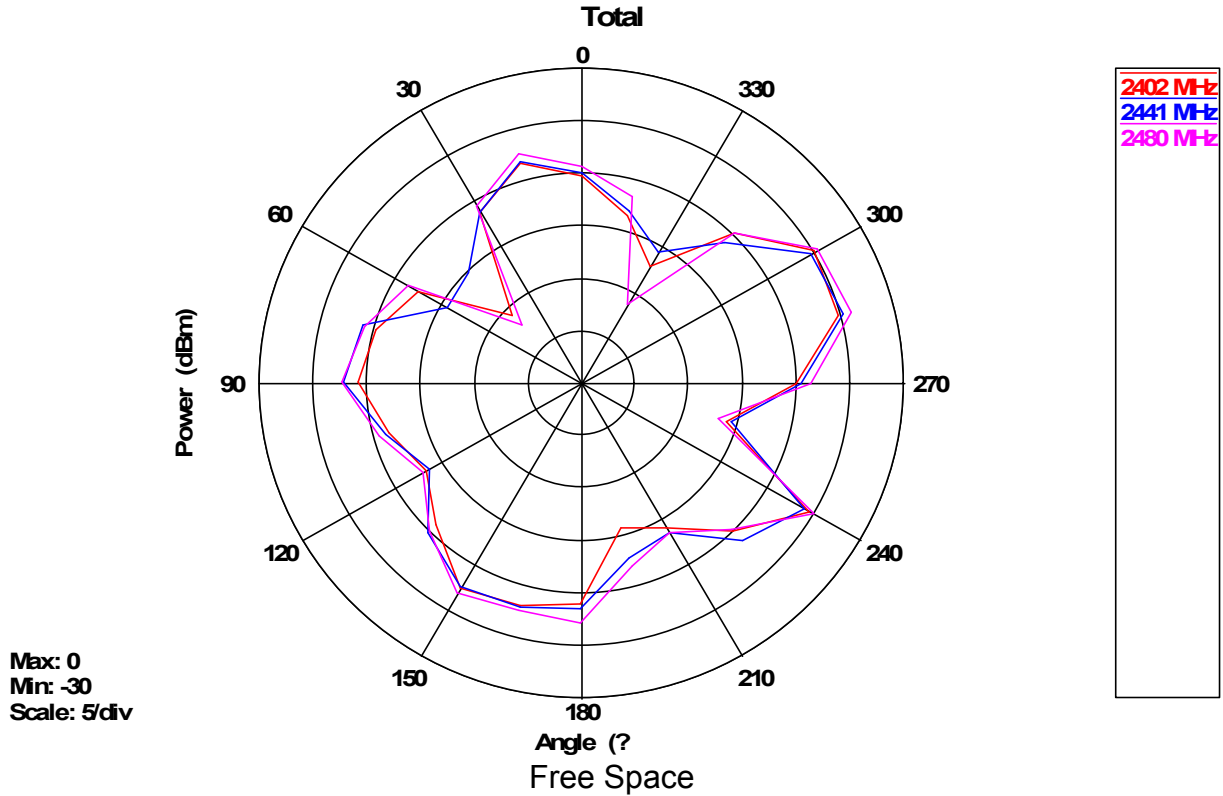
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7 2-D Antenna Pattern(Theta=90°)

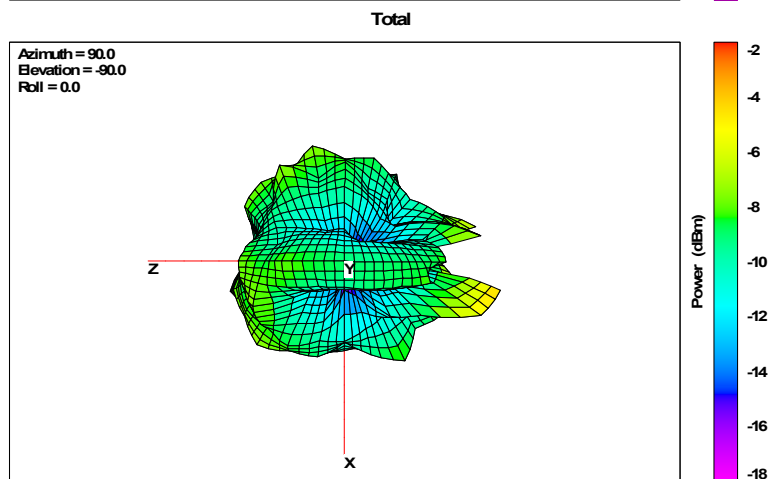
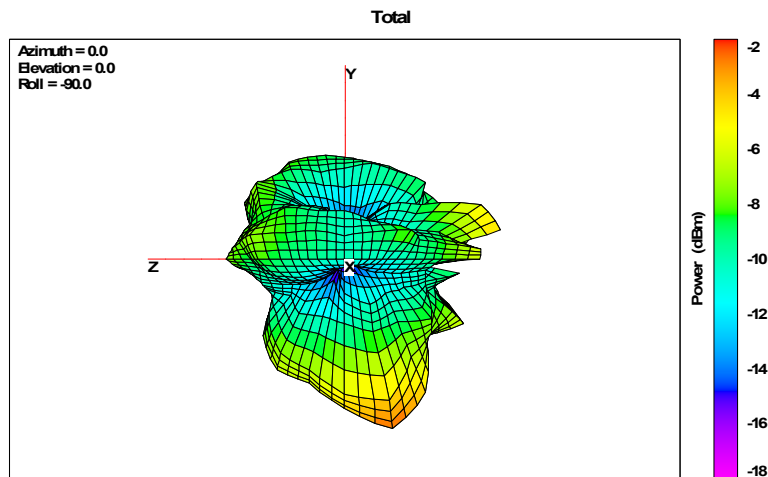
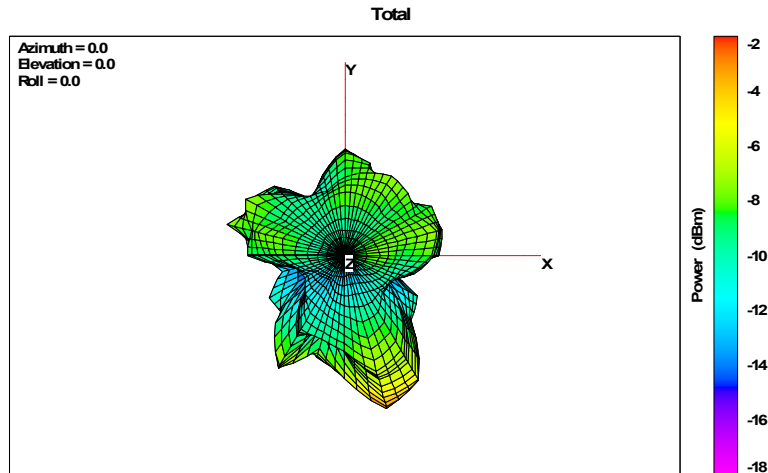


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8 3-D Antenna Pattern



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9 The EUT and Test Configuration

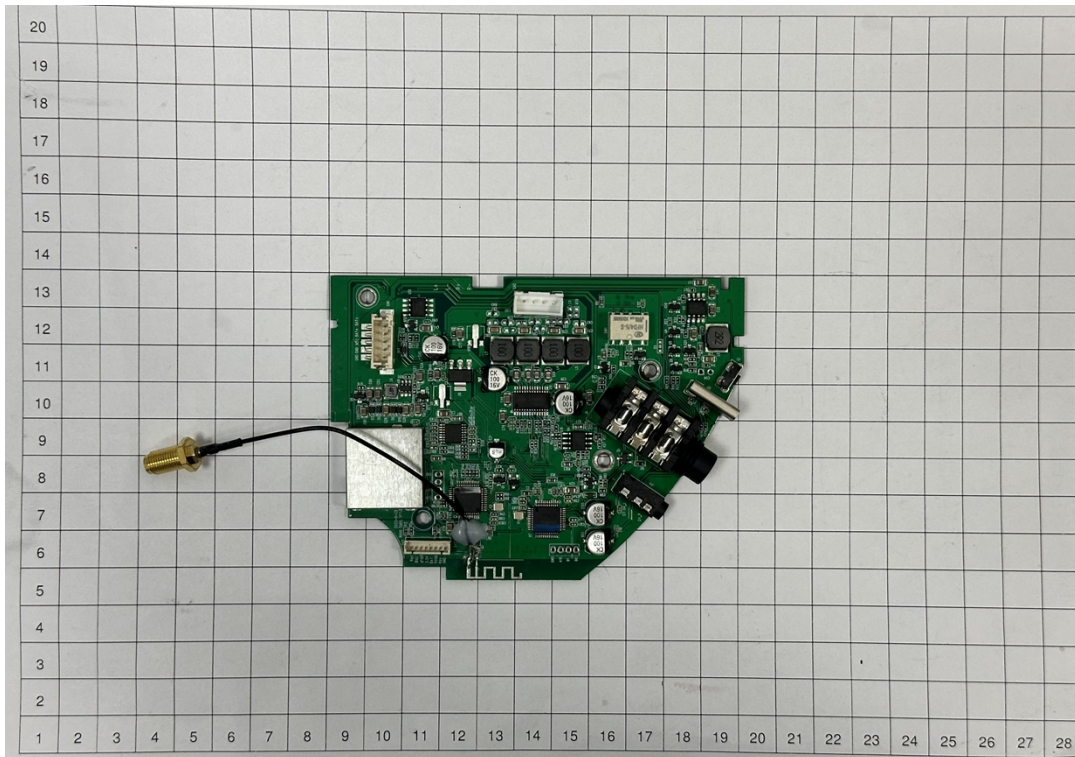
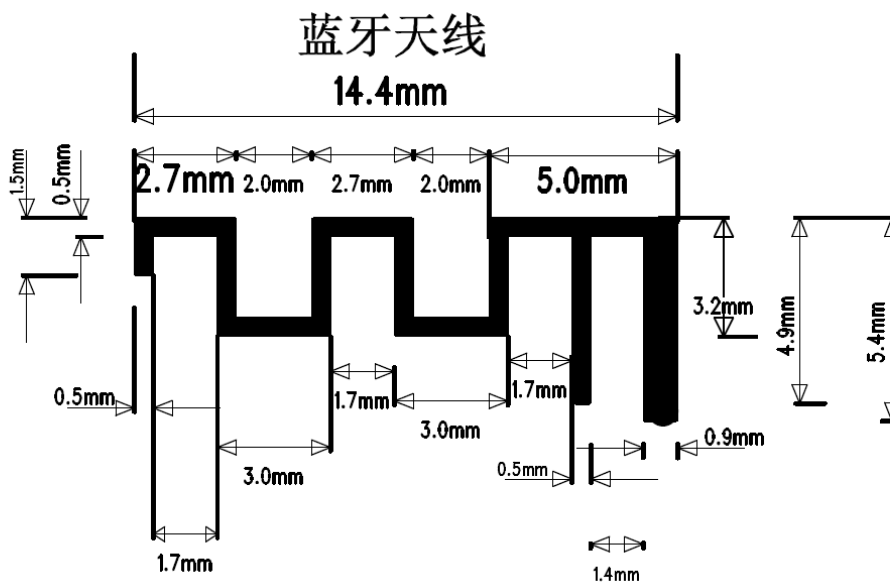


Photo of EUT

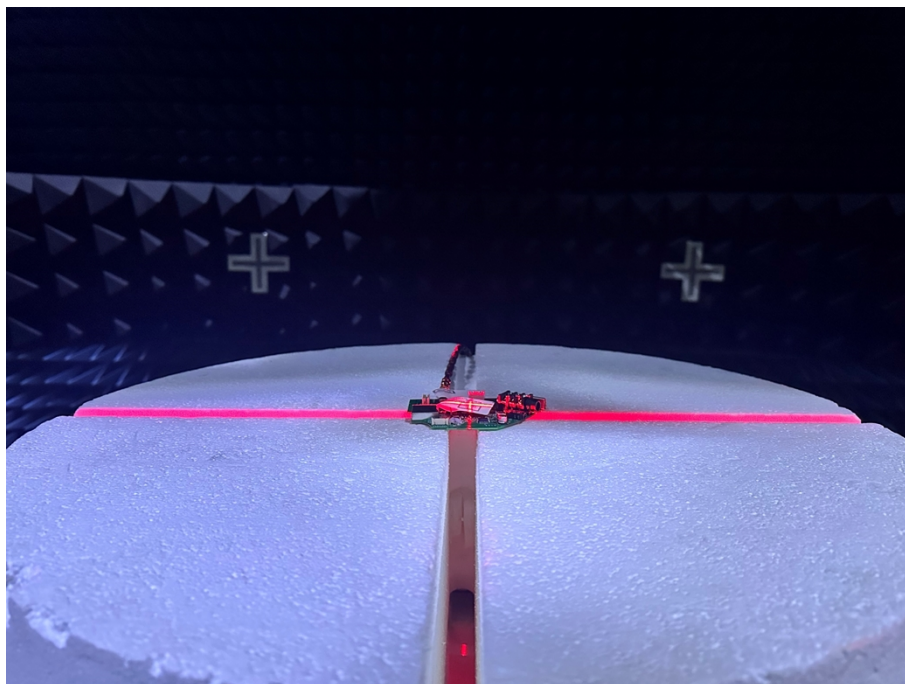


Antenna Dimensions

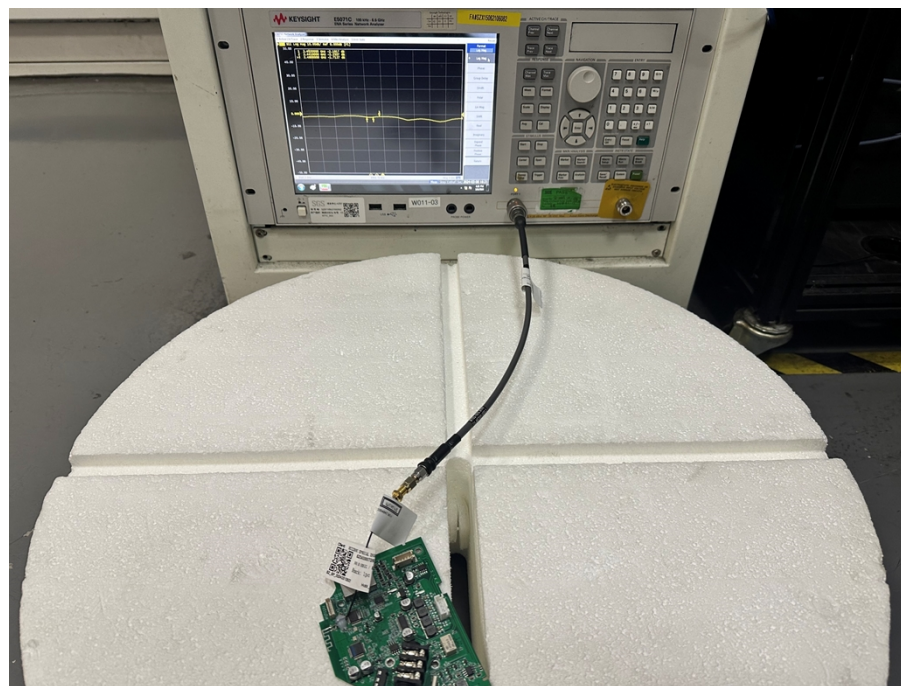


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Free Space View



Free Space Impedance Setup

---END---



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