

ANTENNA PASSIVE TEST REPORT

Application No. SZOA2506000125MO01
Applicant YING HAO, TOYS CO. LTD
Manufacturer YING HAO, TOYS CO. LTD
Product Name 2.4G Mini Remote Control
Model No. NX-2.4G-TX
Standards ANSI/IEEE Std 149-2021
Date Initial Sample(s) Received Jun. 19, 2025
Testing Start Date Jun. 19, 2025
Testing Finish Date Jun. 19, 2025
Report Issue Date Jun. 26, 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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Shenzhen Branch

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Revision History

Revision	Issue Date	Description
01	Jun. 26, 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
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Contact	Ervin Li
Tel.	+86-18823369694
Fax	+86-755-25328600
E-mail	Ervin.Li@sgs.com

1.2 Details of Applicant

Applicant's Name	YING HAO, TOYS CO. LTD
Applicant's Address	Cun Wei Industrial Zone, Nan Zhuang Town, Chan Cheng District, Fo Shan, Guang Dong, China
Contact	Xiqian Zheng
Tel.	+86-15107578812
Fax	N/A
E-mail	QC@yinghaotoys.com

1.3 Details of Manufacturer

Manufacturer's Name	YING HAO, TOYS CO. LTD
Manufacturer's Address	Cun Wei Industrial Zone, Nan Zhuang Town, Chan Cheng District, Fo Shan, Guang Dong, China
Contact	Xiqian Zheng
Tel.	+86-15107578812
Fax	N/A
E-mail	QC@yinghaotoys.com



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1.4 General Description of EUT

Device Description:	2.4G Mini Remote Control
Device Manufacturer:	YING HAO, TOYS CO. LTD
Device Model:	NX-2.4G-TX
Hardware Version:	TR2104S054
Software Version:	TR2104S054-1
Air Interface Supported	2.4G
Antenna Dimension:	17 Cu wires, each with a diameter of 0.60 mm & a length of 72.00 mm

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

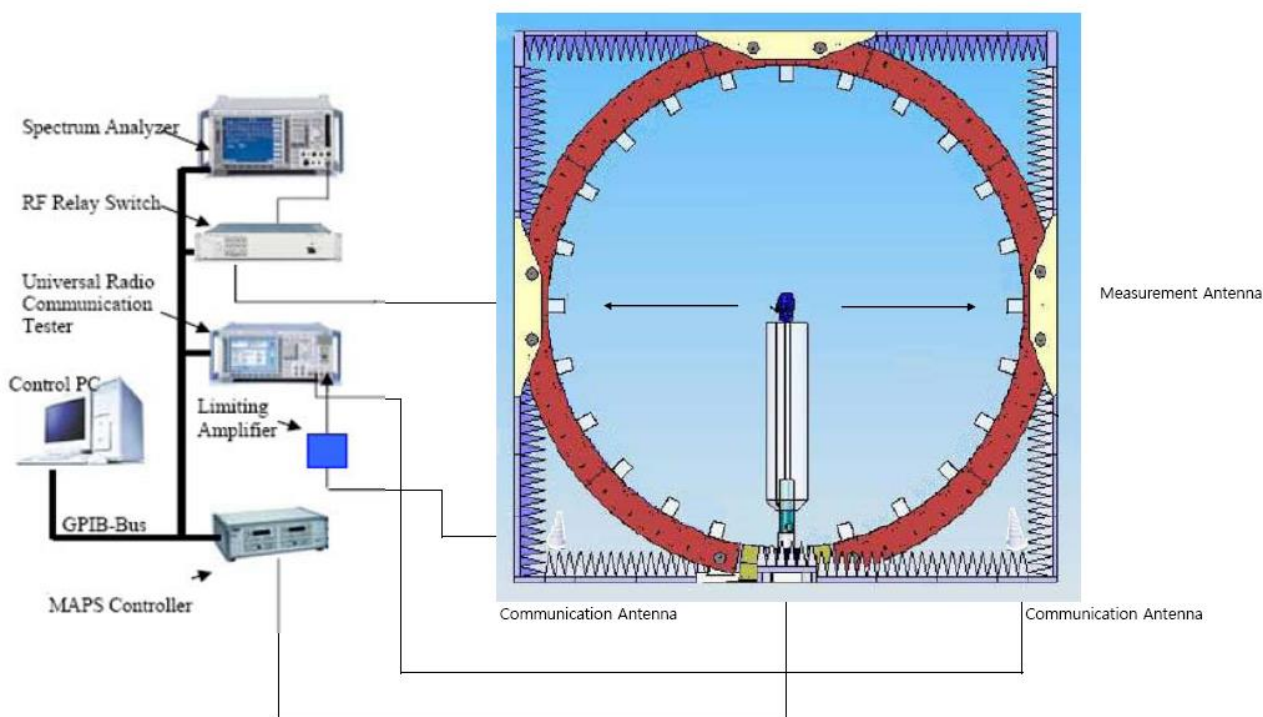
2.1 Test Configuration

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 1.95m



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

Free Space #1			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-5.29	29.55	-0.15
2355	-5.56	27.80	-0.50
2360	-5.33	29.31	-0.20
2365	-5.43	28.64	-0.22
2370	-5.49	28.25	-0.33
2375	-5.63	27.37	-0.27
2380	-5.75	26.60	-0.52
2385	-5.63	27.34	-0.25
2390	-5.55	27.85	-0.31
2395	-5.19	30.30	0.10
2400	-5.16	30.50	0.18
2402	-5.19	30.27	0.01
2405	-5.13	30.66	0.04
2410	-4.98	31.79	0.28
2415	-4.93	32.16	0.17
2420	-4.69	33.97	0.48
2425	-4.64	34.34	0.52
2430	-4.68	34.04	0.48
2435	-4.63	34.44	0.68
2440	-4.64	34.36	0.66
2441	-4.61	34.57	0.70
2445	-4.51	35.42	0.88



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2450	-4.54	35.13	0.77
2455	-4.45	35.92	0.79
2460	-4.54	35.14	0.60
2465	-4.49	35.58	0.56
2470	-4.58	34.86	0.48
2475	-4.55	35.10	0.56
2480	-4.50	35.45	0.59
2485	-4.42	36.12	0.68
2490	-4.24	37.71	0.87
2495	-3.96	40.18	1.17
2500	-3.74	42.25	1.41
2505	-3.48	44.88	1.69
2510	-3.37	46.01	1.85
2515	-3.48	44.89	1.75
2520	-3.66	43.03	1.56
2525	-3.83	41.40	1.48
2530	-3.92	40.58	1.39
2535	-3.94	40.35	1.39
2540	-3.85	41.24	1.48
2545	-3.66	43.09	1.67
2550	-3.59	43.79	1.76
2555	-3.51	44.53	1.86
2560	-3.58	43.85	1.80
2565	-3.56	44.02	1.85
2570	-3.54	44.28	1.94
2575	-3.48	44.91	2.02
2580	-3.29	46.84	2.38



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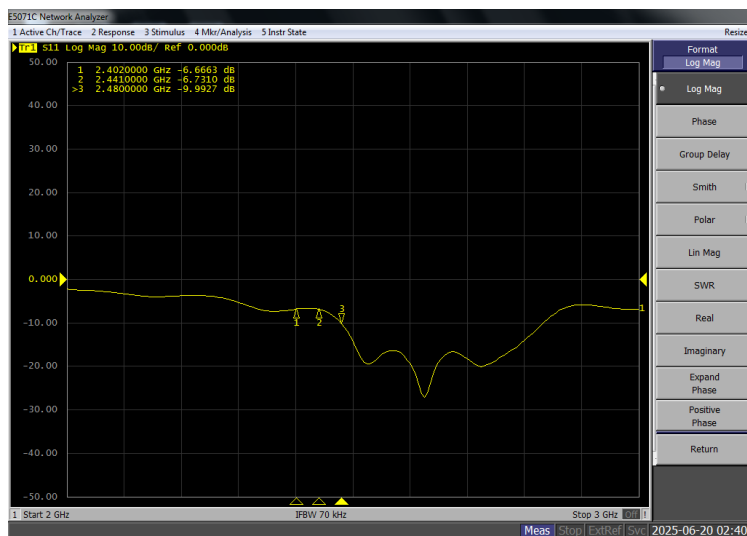
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6 Pattern Plots

6.1 Return Loss



Free Space #1

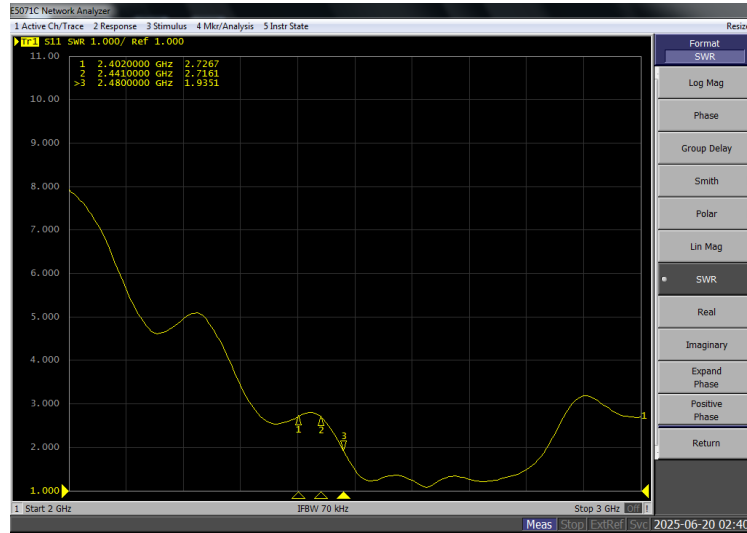


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6.2 VSWR



Free Space #1

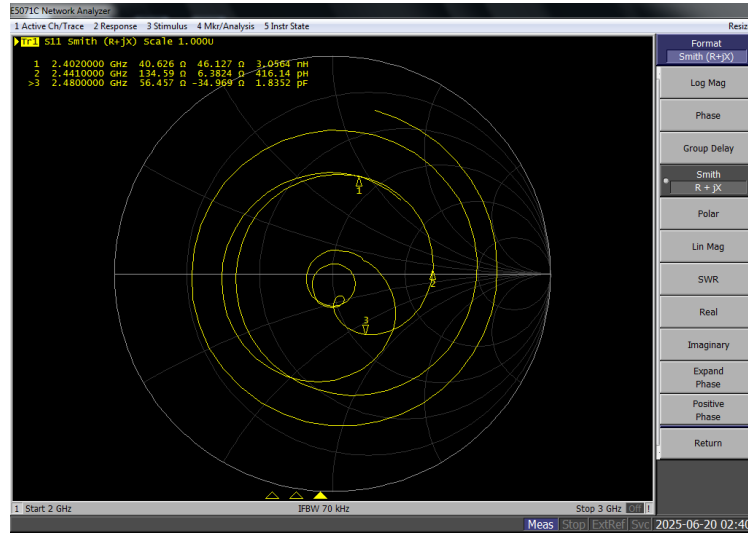


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6.3 Stimulus



Free Space #1



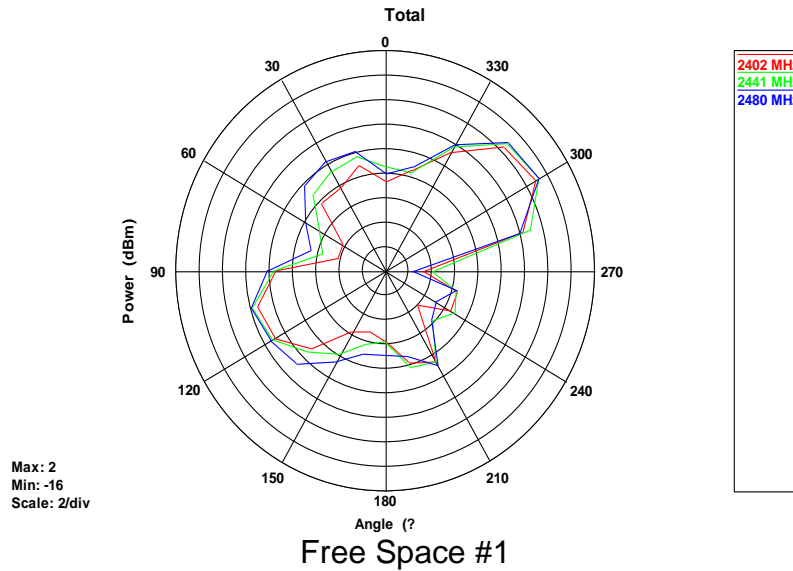
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7 2-D Antenna Pattern(Theta=90°)



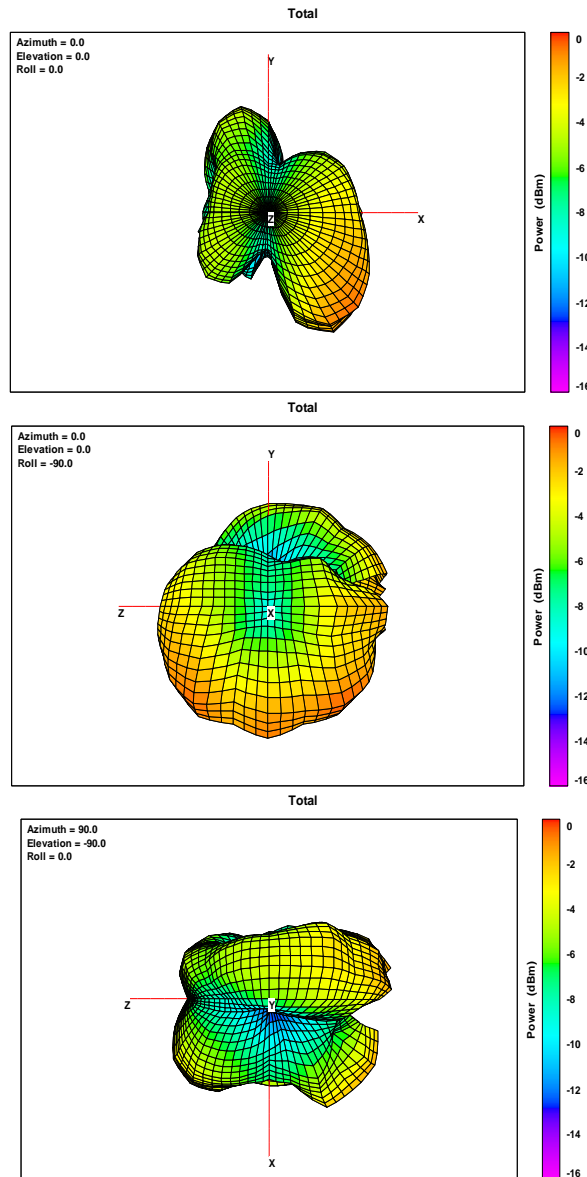
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8 3-D Antenna Pattern



Free Space #1



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9 The EUT and Test Configuration

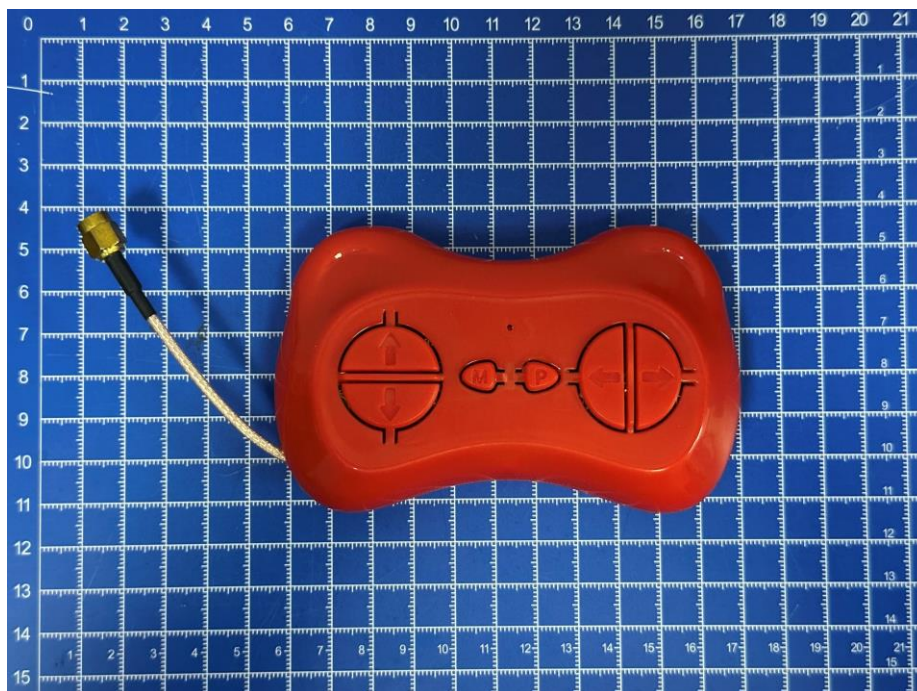
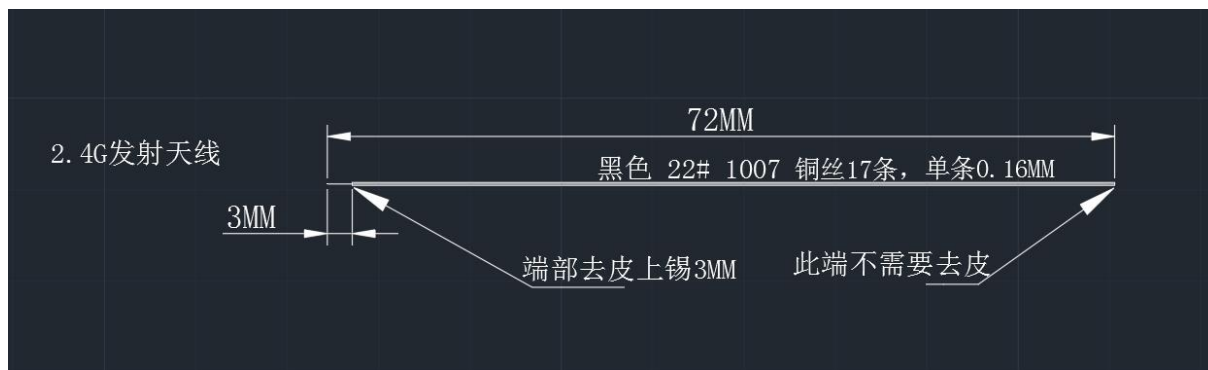


Photo of EUT



Antenna Dimensions

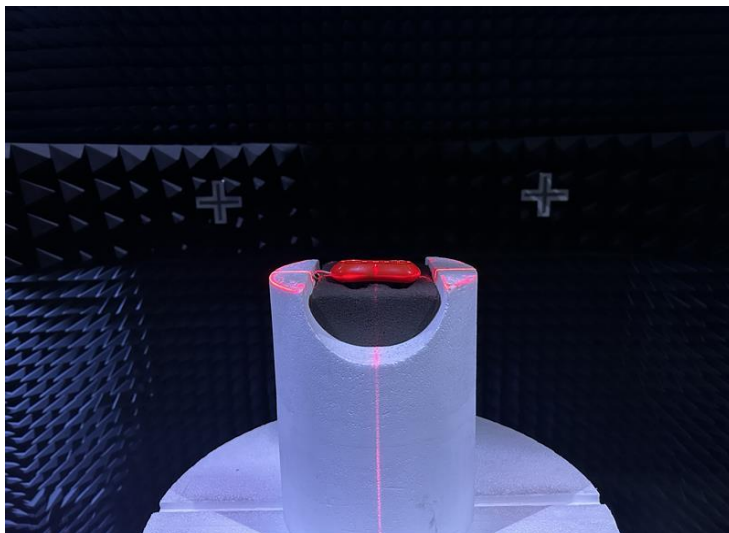


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Free Space View



Free Space Setup

---END---



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