

Shenzhen NiYi Technology Co., Ltd

Room 502, Zhengqilong Building, Gushu 1st Road, Xixiang Subdistrict, Bao'an District, Shenzhen City, China.

Sample Approved Sheet

NiYi (T7H) Acknowledgment

Customer Name Shenzhen Geribang Co., Ltd.

Client Type T7H

Brand NY-T7H-WIFI-BT-V2

NiYi Judgment Audit Team

Formulate	Check	Ratify	Acknowledge the book completion time
Wang Xuesen	Huang Zhilin	Daitingting	2026.07.06

(Geribang) Judgment Audit Team

Acknowledgement Number _____

Proving time

acknowledge	check	ratify	Acknowledge the book completion time

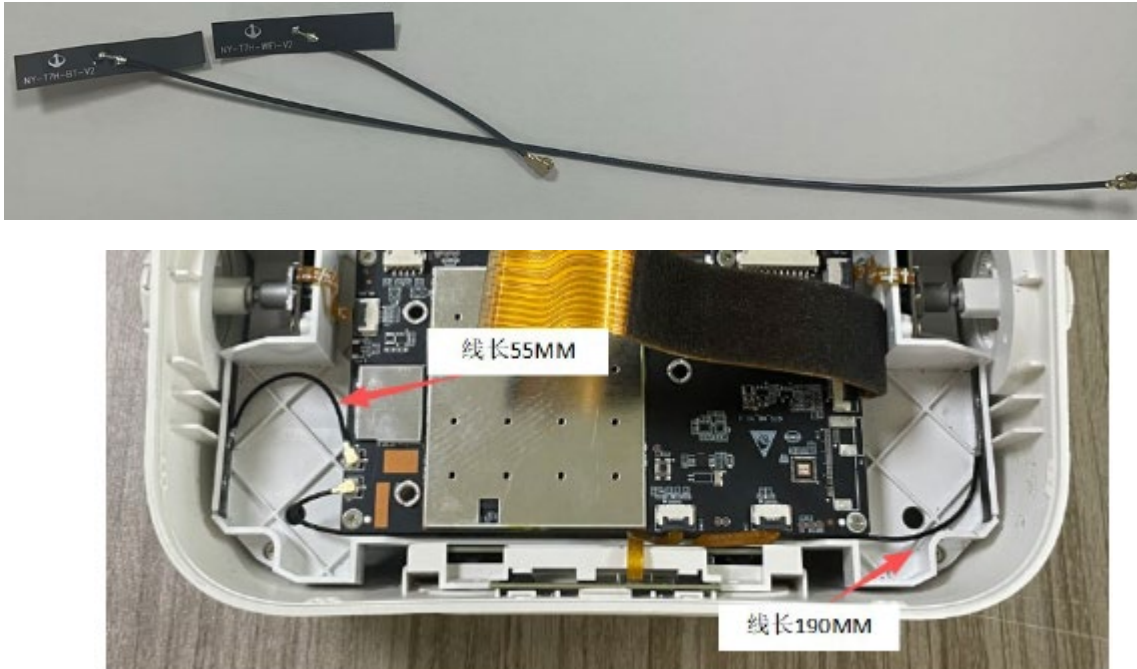
Project Review ☐Three acknowledgements☐Specifications/drawings
☐examining report ☐Specimen PCS ☐Safety standard ☐HSF

Appraisal report☐Accept ☐Conditional acceptance ☐Refuse

[illegible]

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of **T7H-WIFI-BT**. The **T7H-WIFI-BT** antenna is a **WIFI/BT** Band. The antenna Picture and assembly are shown below.



Antenna picture & assembly picture

2. Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

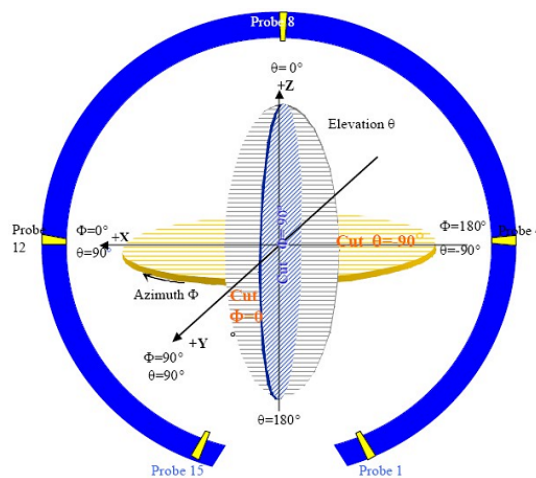
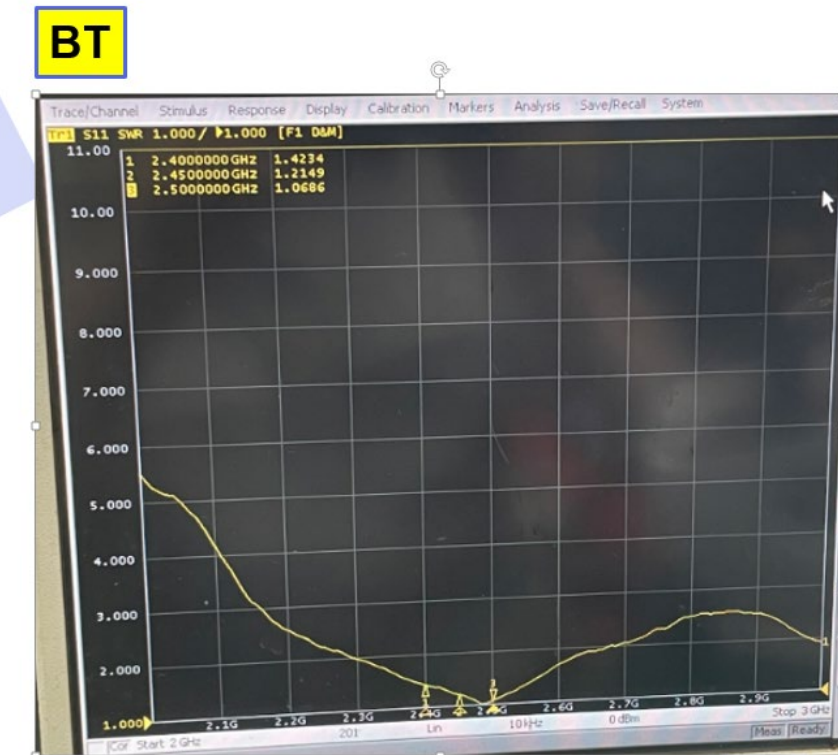
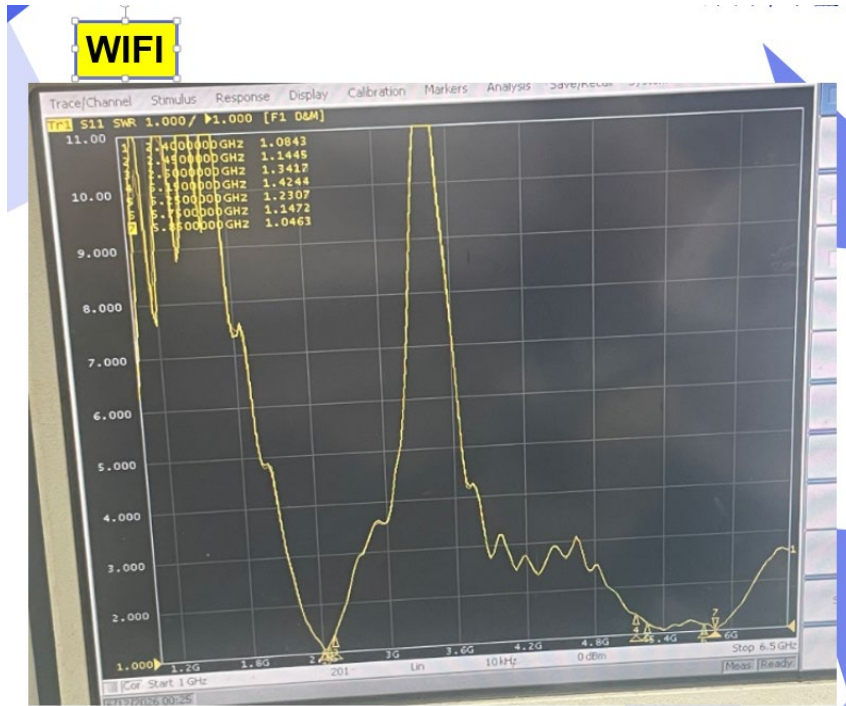


图4 3D微波暗室测试坐标系(back view)

3. Electrical Specification

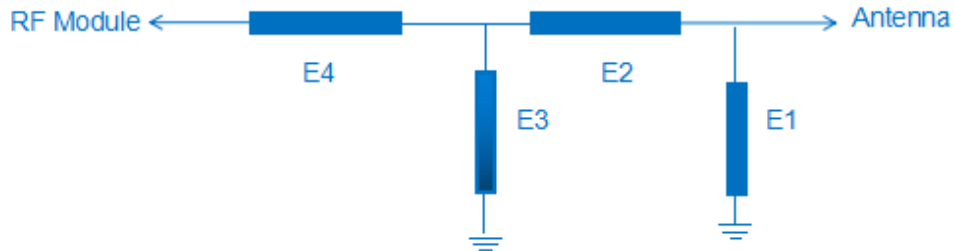
3-2 Passive S11 parameter

Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



VSWR

3-3 Antenna Matching Network



The matching circuit remains unchanged.

WiFi-2.4G

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)
WIFI-2.4G	802.11b (11M)	1	17.29	-82.56
		6	17.22	-84.09
		11	17.35	-85.13
WIFI-2.4G	802.11g (54M)	1	17.04	-70.32
		6	17.76	-72.27
		11	17.67	-73.61
WIFI-2.4G	802.11n (MCS7)	1	17.26	-66.56
		6	17.52	-66.3
		11	16.82	-68.86
WIFI-2.4G	802.11ax (MCS11)	1	15.82	-59.74
		6	15.91	-61.10
		11	15.79	-60.45

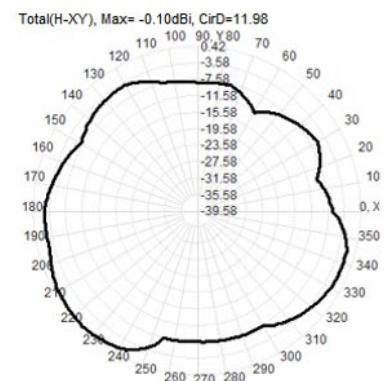
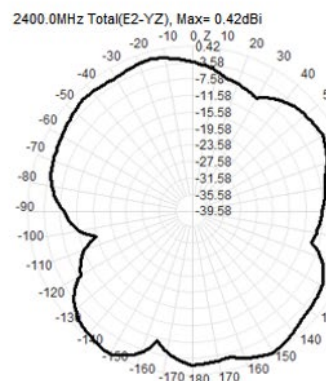
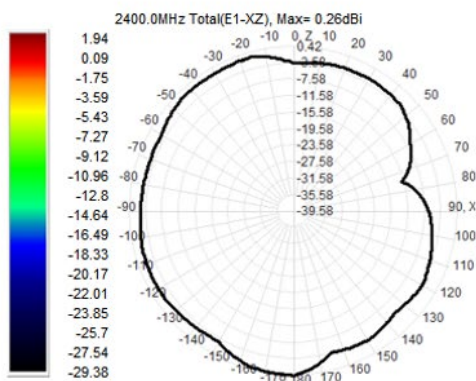
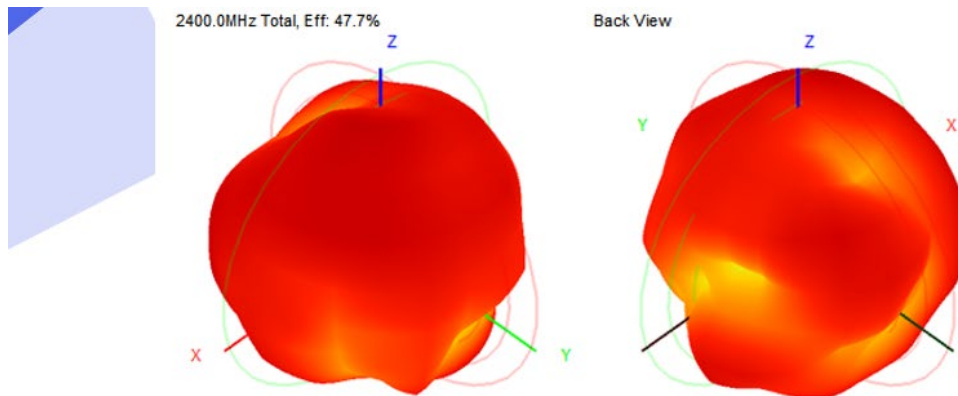
WiFi-5G

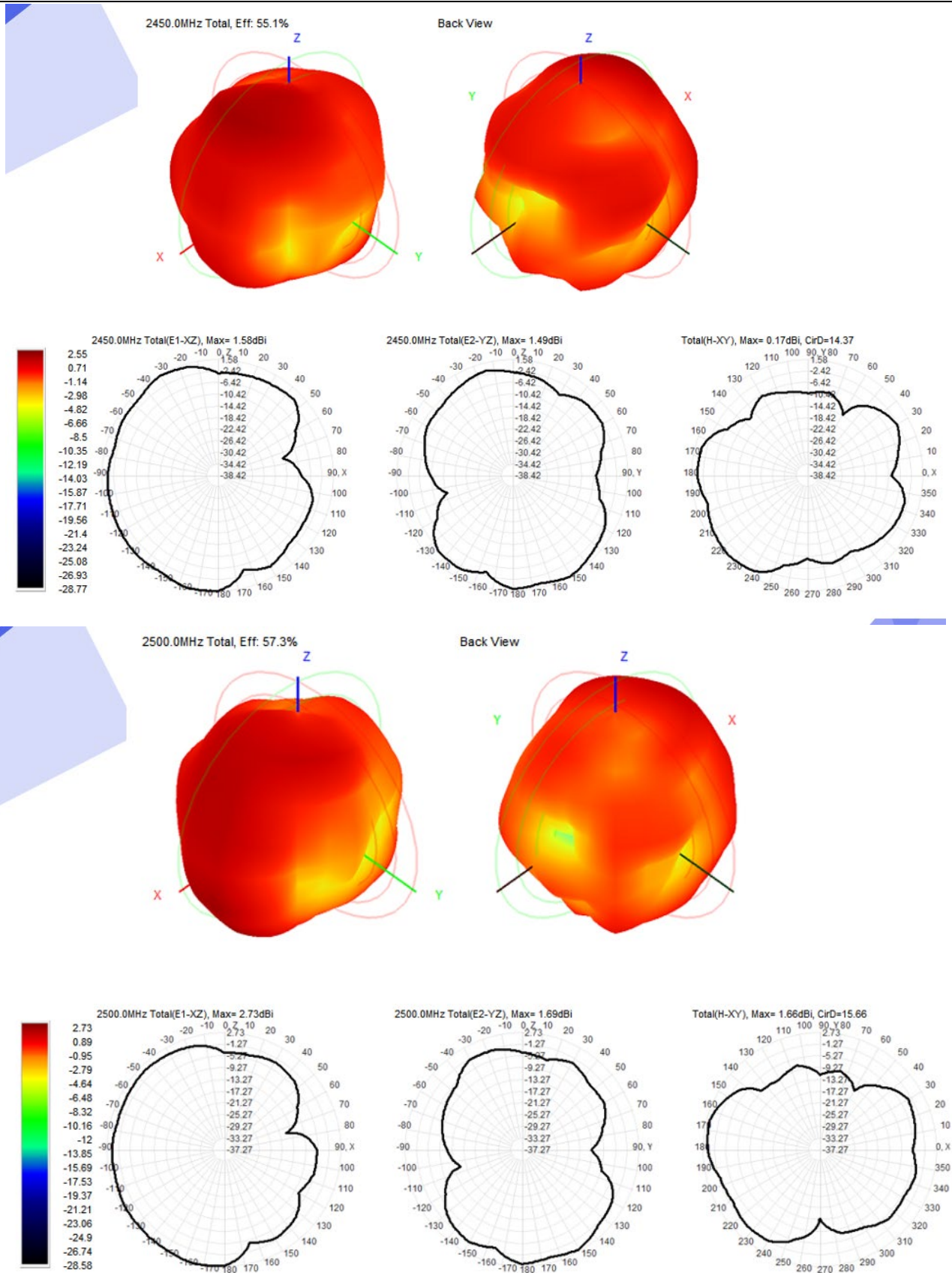
Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)
WIFI-5G	802.11a (54M)	36	12.71	-71.82
		149	13.02	-73.82
		165	13.51	-72.15
WIFI-5G	802.11n (MCS7)	36	13.65	-67.29
		149	12.37	-68.47
		165	12.9	-67.6
WIFI-5G	802.11ac (MCS8)	36	12.12	-68.18
		149	12.75	-67.91
		165	12.28	-67.28
WIFI-5G	802.11ax (MCS11)	36	12.31	-58.62
		149	12.86	-59.22
		165	13.26	-59.13

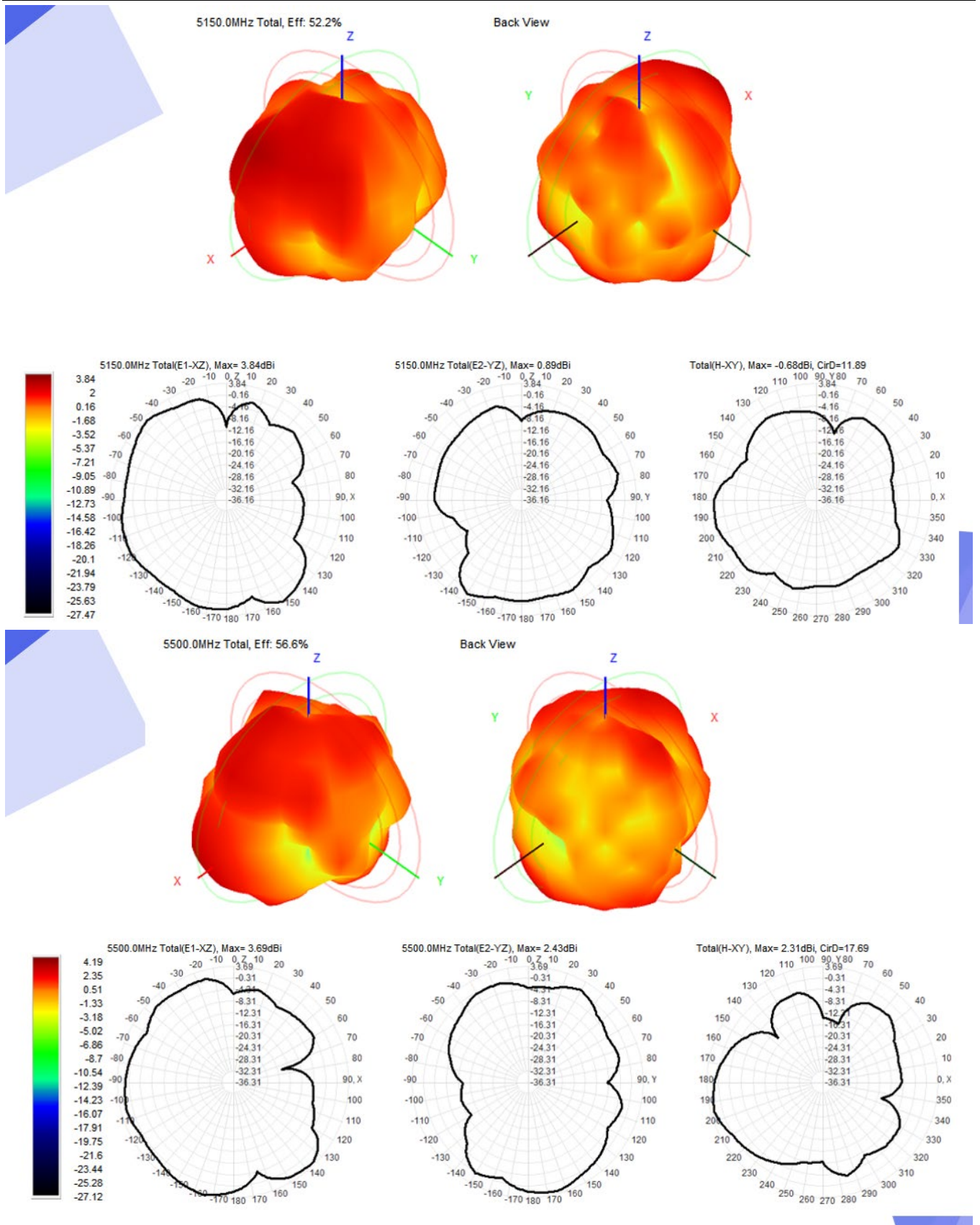
Radiation Gain Efficiency**WIFI****Shenzhen NiYi Technology Co., Ltd**

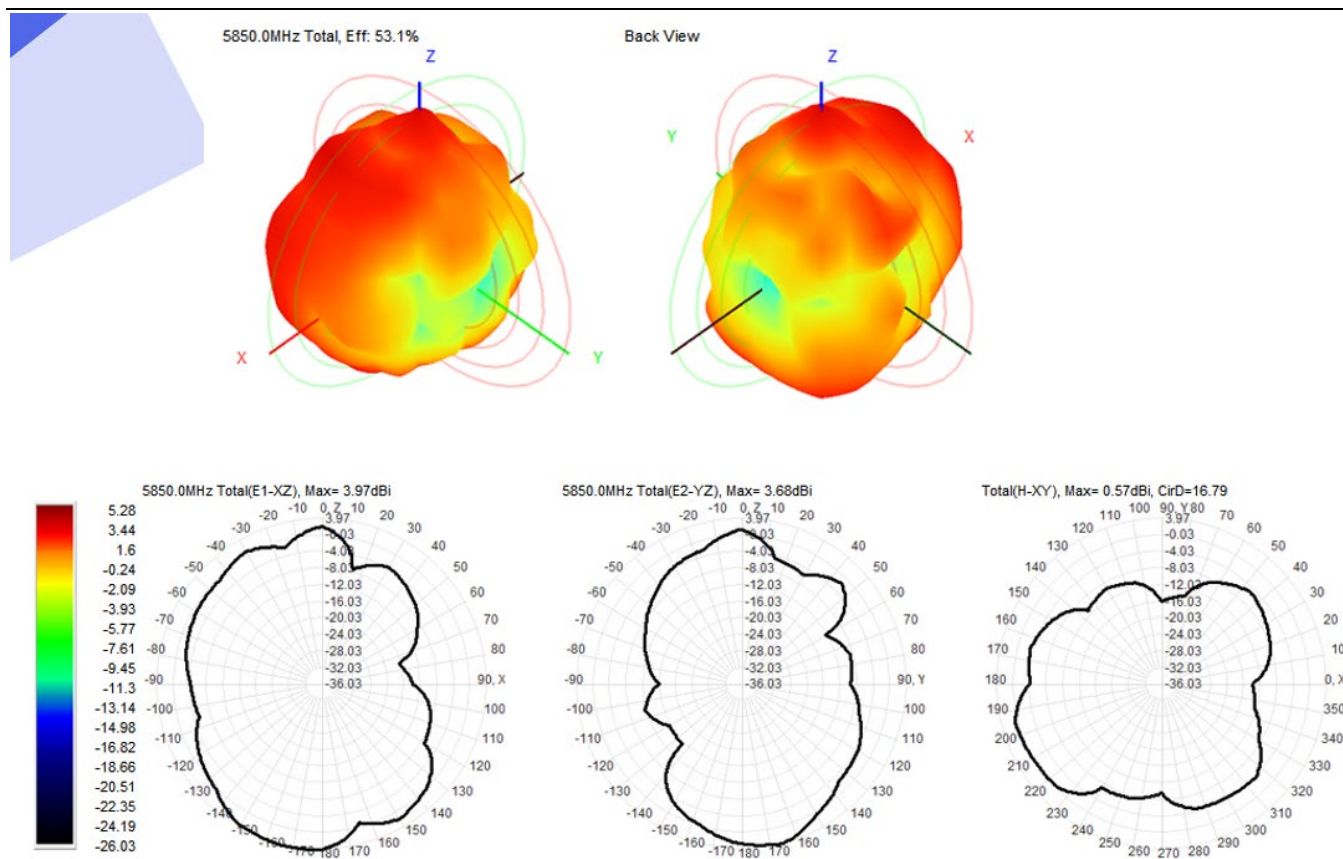
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	1.94	2.18	2.01	2.33	2.37	2.55	2.59	2.63	2.54	2.53	2.73
Efficiency (%)	47.73	51.67	48.72	51.19	52.09	55.14	55.34	56.80	56.25	55.53	57.29

5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
3.84	3.11	2.52	2.83	3.48	3.96	4.20	4.19	4.72	5.13	5.31	5.71	5.92	5.15	5.28
52.15	49.74	44.23	52.47	54.85	56.74	62.25	56.58	53.35	58.76	56.75	55.26	59.25	55.61	53.14







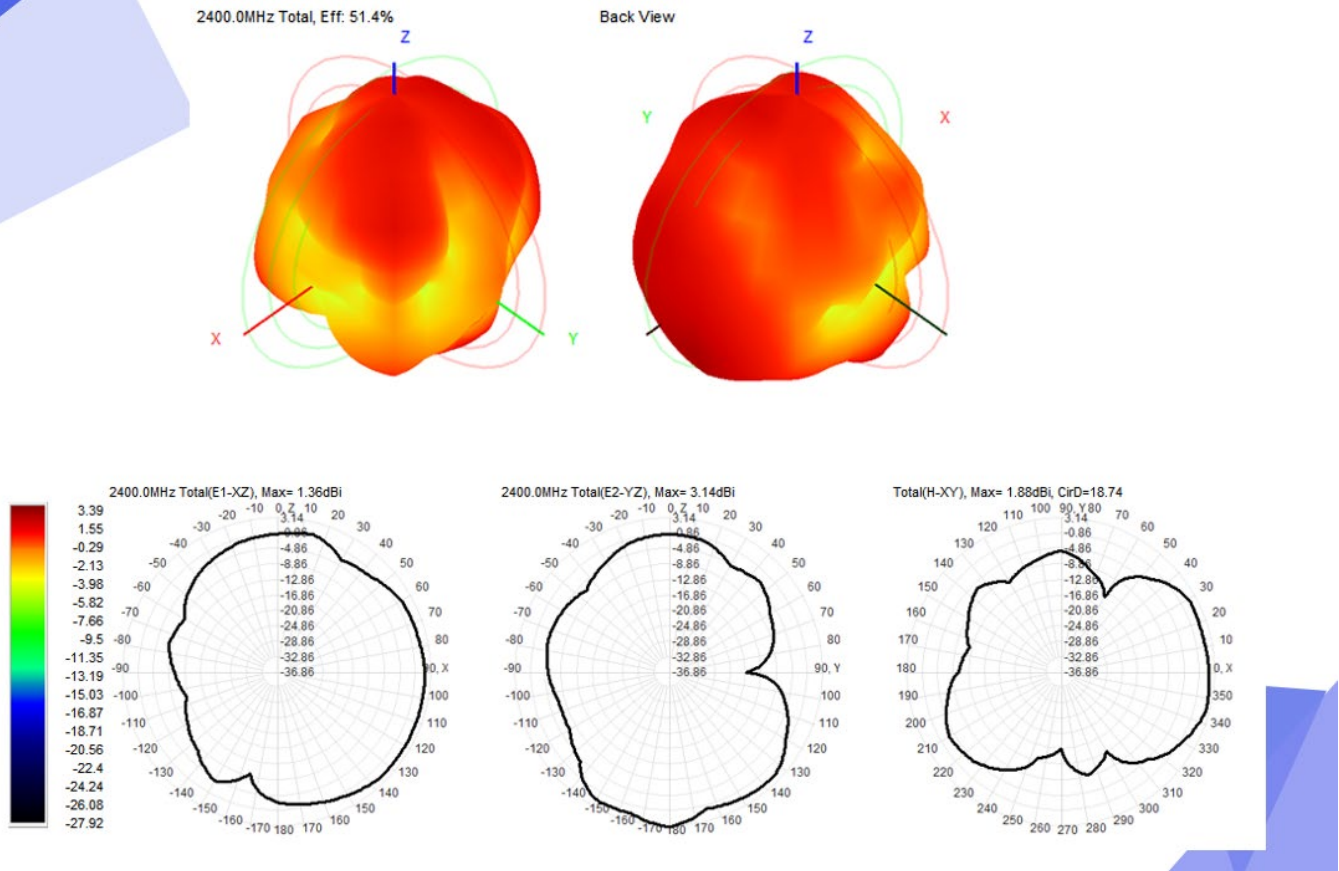


BT

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	3.39	3.25	3.22	3.29	3.29	3.41	3.84	3.91	4.12	3.64	3.59
Efficiency (%)	51.41	54.30	53.61	54.94	55.55	55.67	58.21	57.65	63.12	58.57	60.90

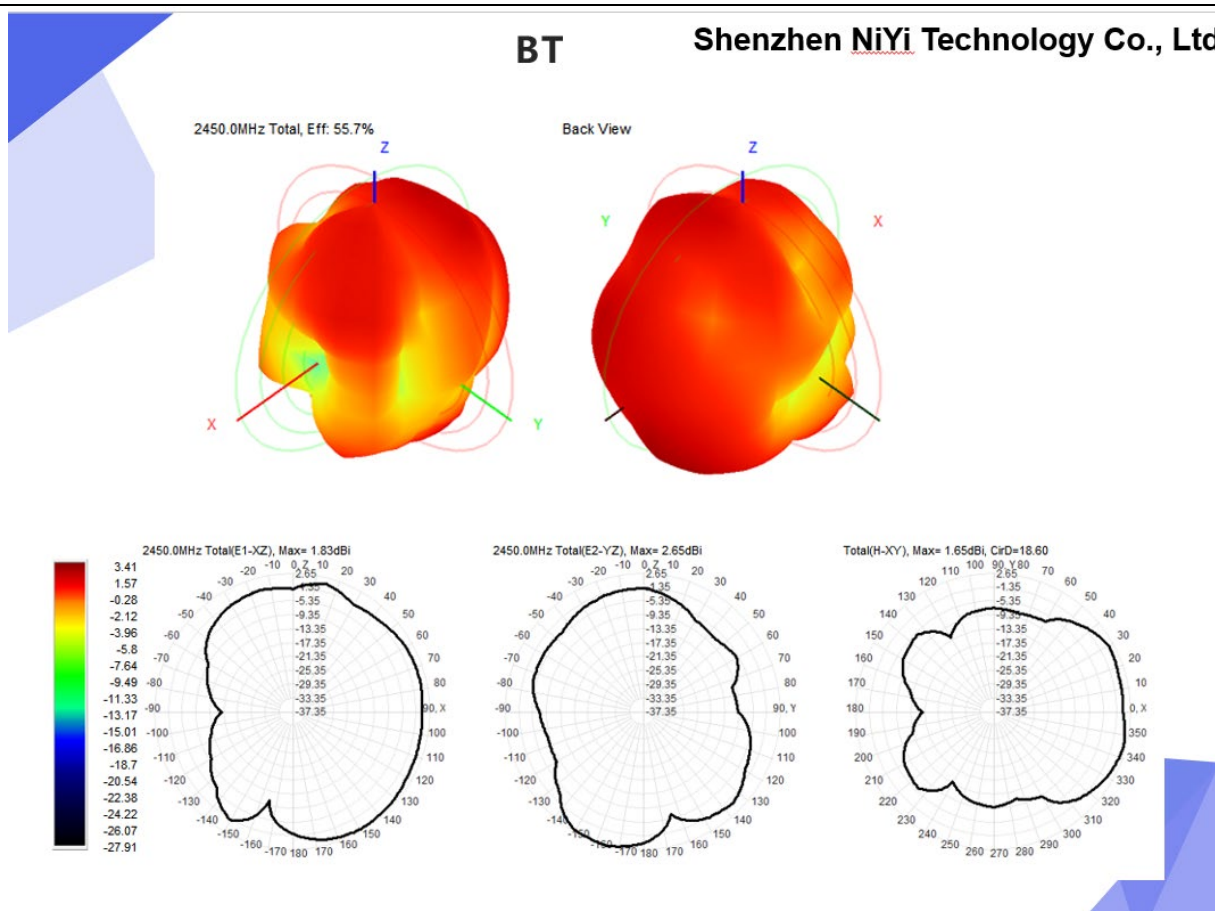
BT

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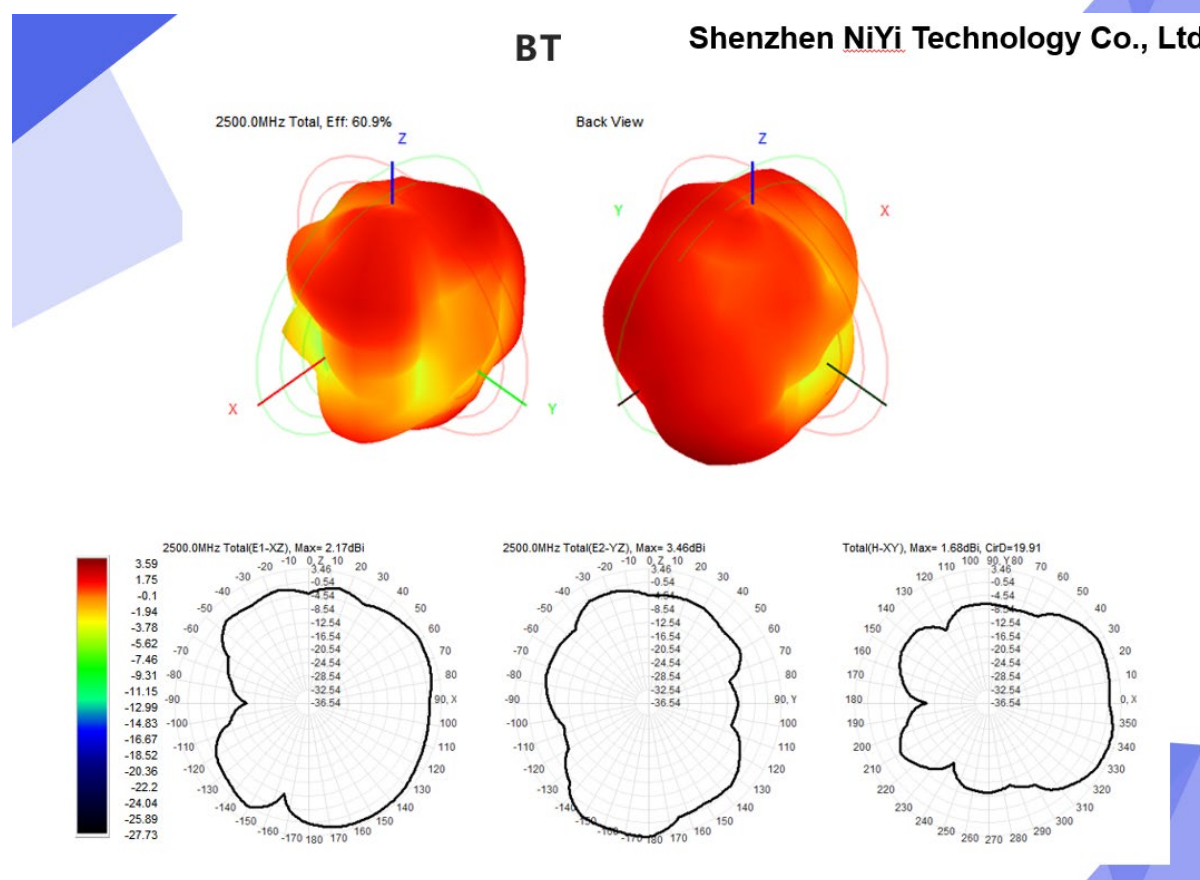
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BT

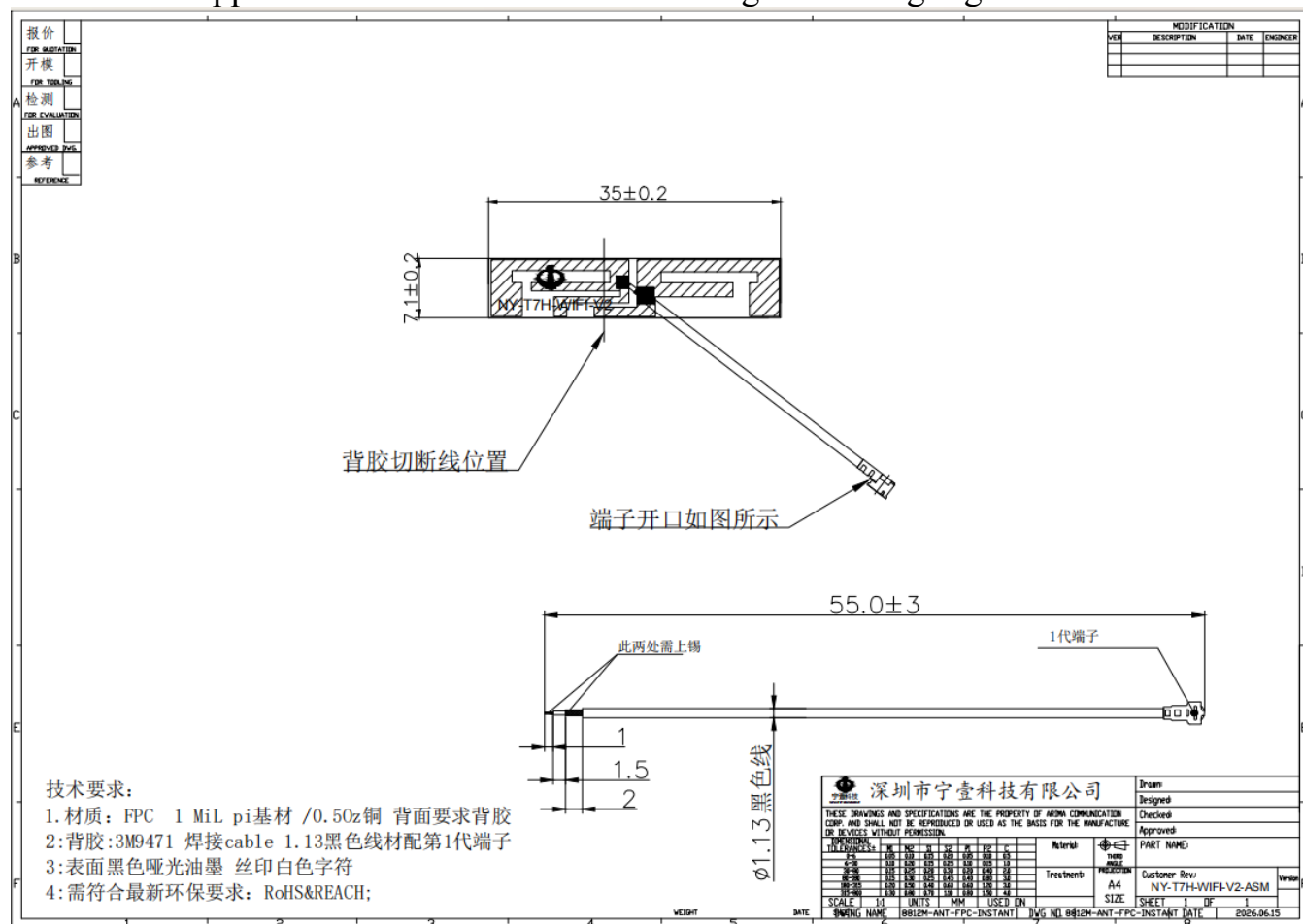
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4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 8



Confidential Information

