

Antenna Testing Report

Customer : Shenzhen Aipai Intelligent Technology Co., Ltd.

Project Name : X9-ST

Antenna Manufacturer: Sunnyway Technology(CHINA)

Address: The 6th floor, Building 5, Nantaiyun Innovation Valley Center,
Guangming District, Shenzhen City

Report version: 2025/1/22 A0
Research staff: JIE YANG

Version	Report date	Remark
A0	2025.1.22	Antenna test report
A1		
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1.Record·····

2.Project Overview ·····

3.Equipment List·····

4. Antenna mounting position·····

5.Passive parameters ·····

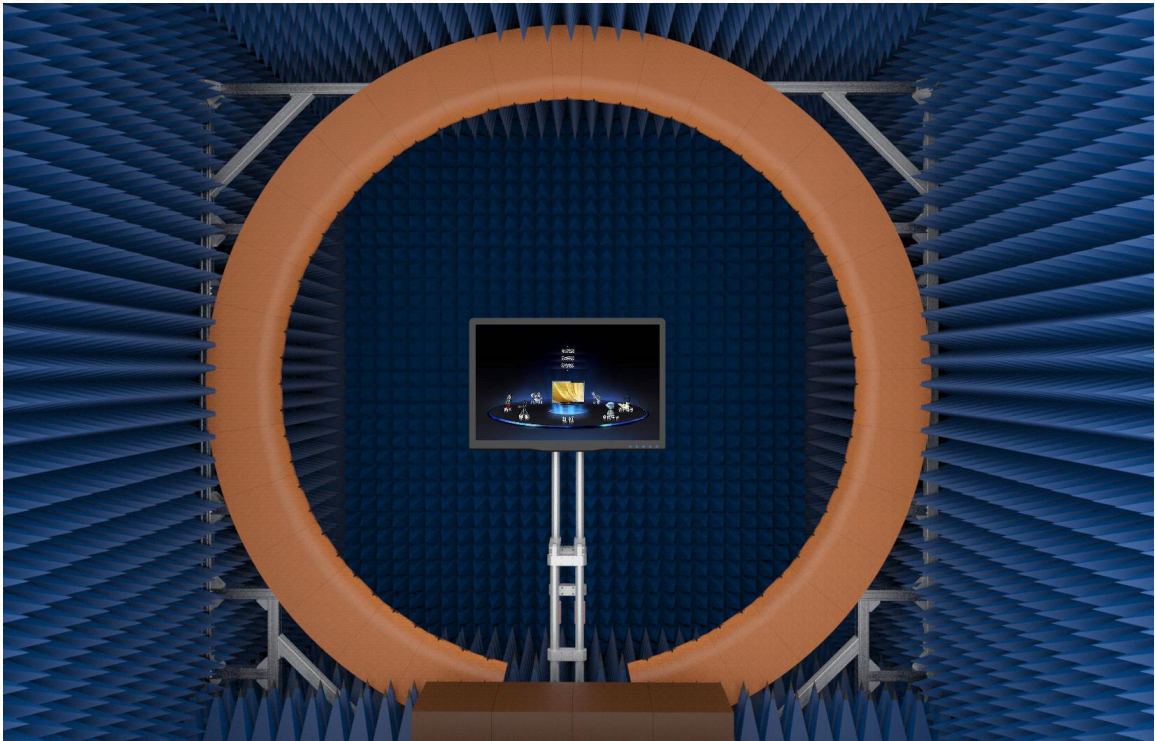
6.Passive efficiency and gain ·····

7.OTA test data ·····

8.DirectionaI pattern ·····

9.Summary·····

Prototype status	Debugging machine	Project pictures	
Device type			
Number of antennas	1PCS		
Frequency band			
	WIFI/BT:2.4GHZ/5.8GHZ		
Structural style	Plastic rod antenna		
Environment adjustment	NO Change made		
Matching modification	NO Change made		



The industry's top 64 sensors OTA chamber

Frequency range: 400MHz-11GHz

Device Llimitation: 2M

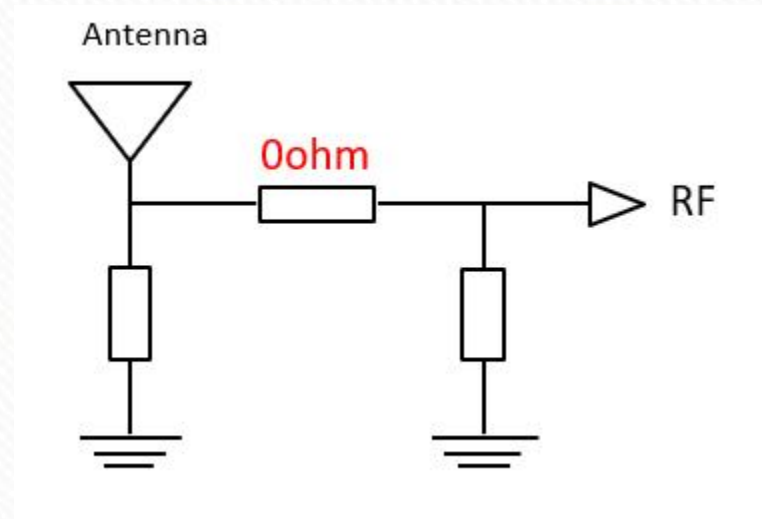
Load-bearing limitation:100KG

Equipments Items	Total Quantity	Quantity for Shanghai R&D	Quantity for Shenzhen R&D	Quantity for ChongQing R&D
OTA chamber	10	4	5	1
5G Tester (SP9500-CTS)	3	1	1	1
R&S Tester (high configuration CMW500)	6	3	2	1
Japan Anritsu Tester (Dual Channel 8820)	4	2	2	--
NB-IoT Tester (SP8315)	3	1	1	1
Agilent Tester (8960)	9	4	4	--
Agilent Network Analyzer (E5062A)	7	3	3	1
Agilent Network Analyzer (E5071C 8.5GHZ)	11	5	5	1
Agilent Network Analyzer (E5071B 8.5GHZ)	7	3	3	1
R&S Network Analyzer (ZND)	9	4	4	1
R&S Network Analyzer (ZVB)	3	1	1	1
OTA head hand / ear hand / arm hand	5	2	2	1
GPS/WIFI active test equipment	5	2	2	1

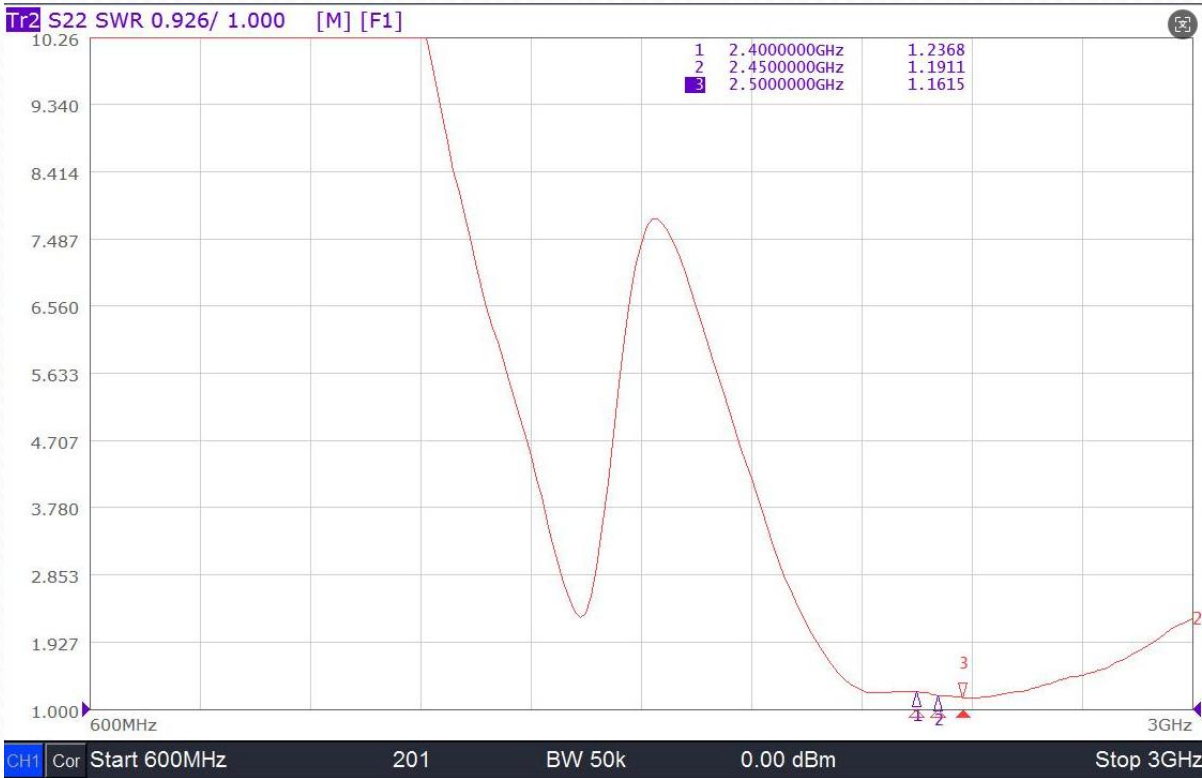
WIFI antenna



WIFI antenna :

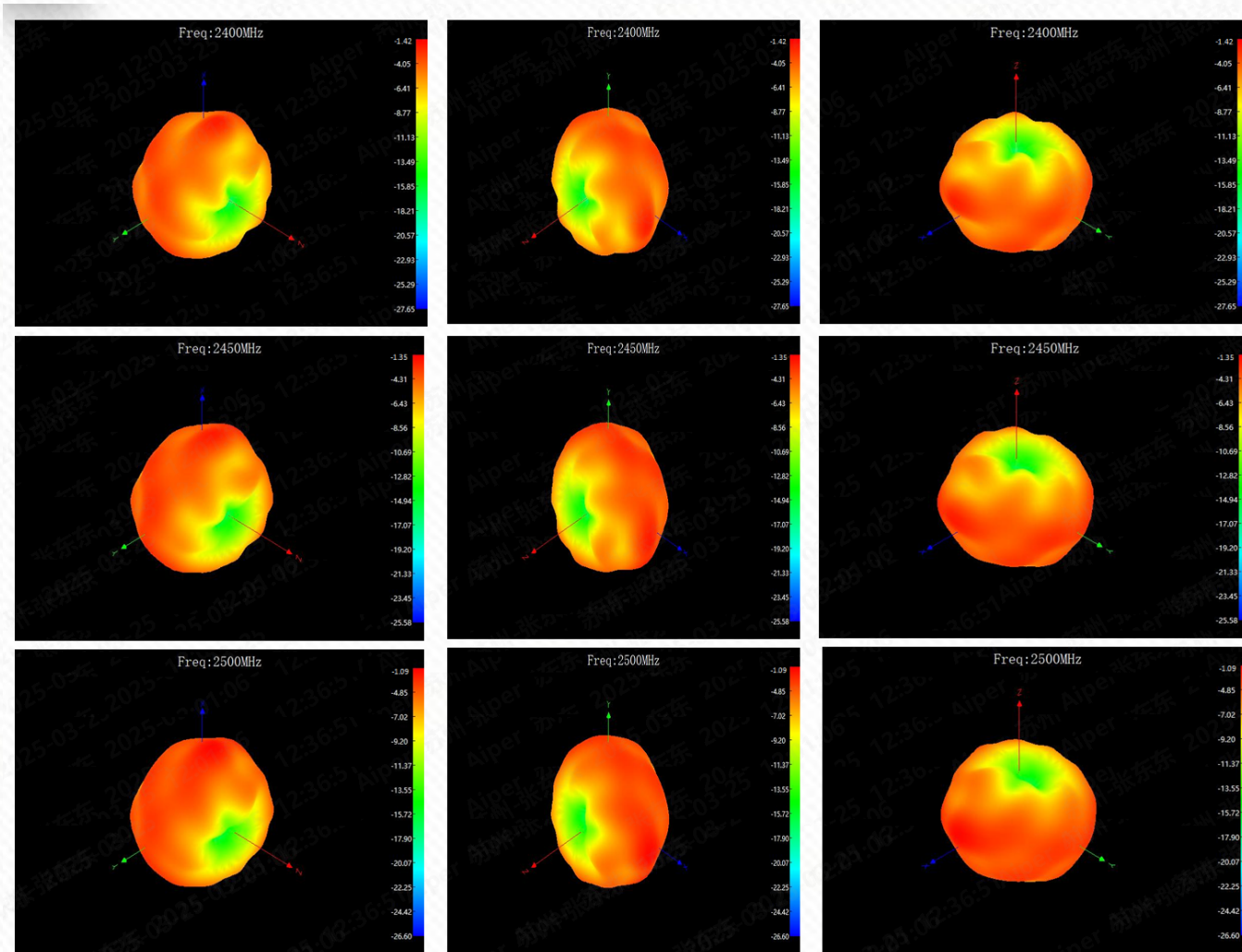


S11-VSWR



Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi
2400	-1.76	66.68	-1.42
2410	-1.83	65.61	-1.66
2420	-1.61	69.02	-1.29
2430	-1.86	65.16	-1.85
2440	-1.81	65.92	-1.43
2450	-1.74	66.99	-1.35
2460	-1.92	64.27	-1.54
2470	-1.74	66.99	-1.25
2480	-2.04	62.52	-1.11
2490	-1.98	63.39	-1.29
2500	-1.86	65.16	-1.09

3D Etotal



NO Change made

1. Latest machine test data.
2. There are changes to the match.

Thank You

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