

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**

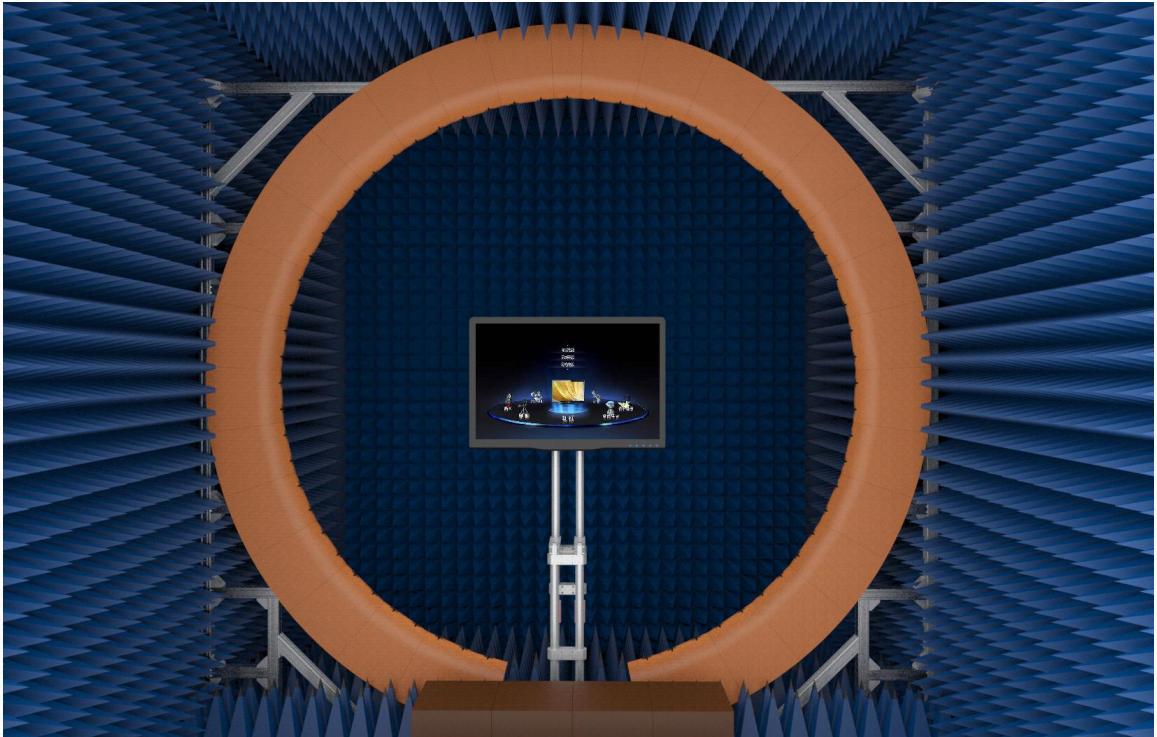
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Project Overview

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	

Equipment List



The industry's top 64 sensors OTA chamber

Frequency range: 400MHz-11GHz

Device Limitation: 2M

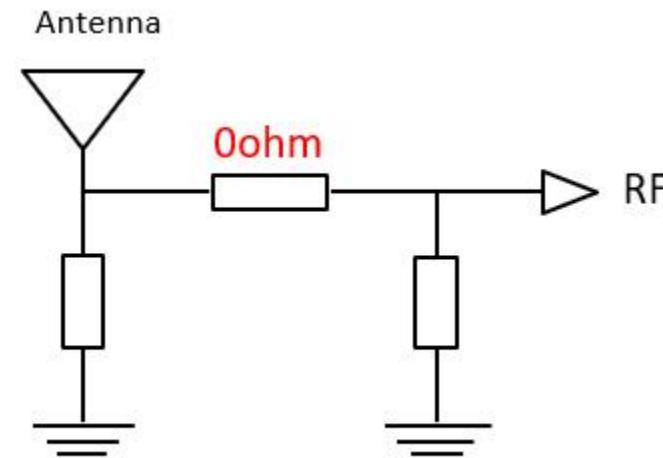
Load-bearing limitation:100KG

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

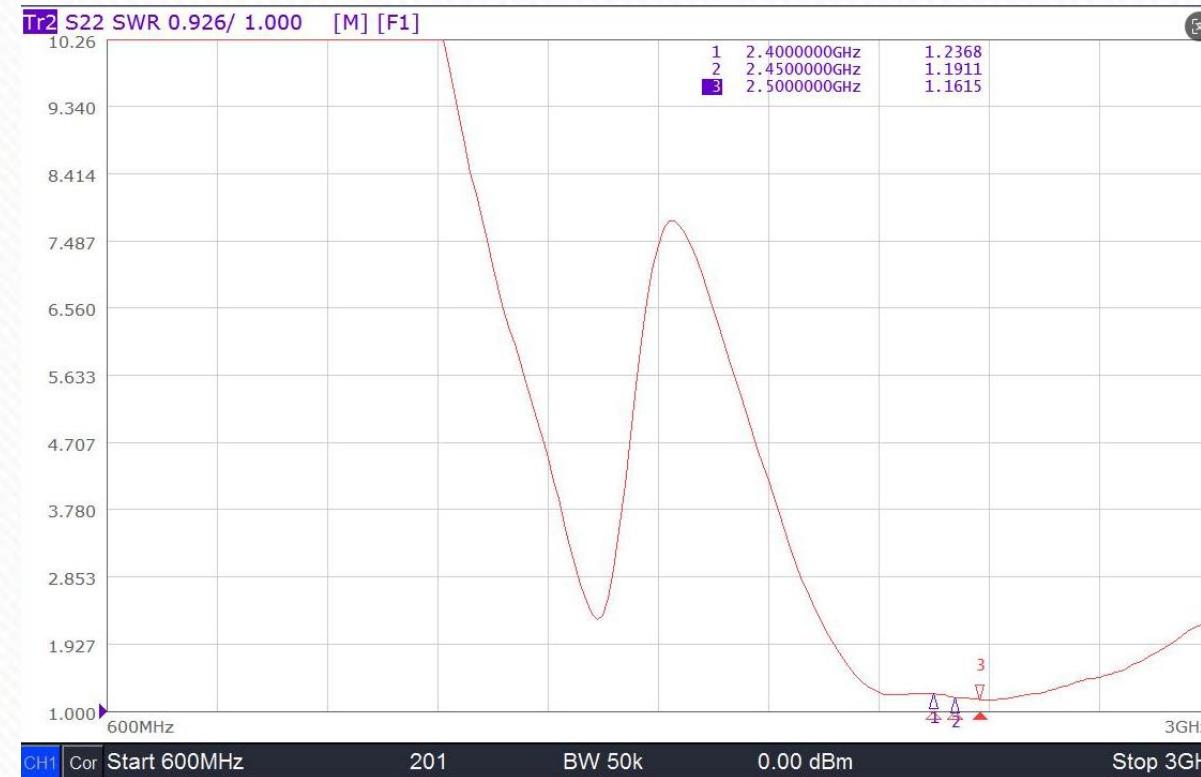
WIFI antenna



WIFI antenna :



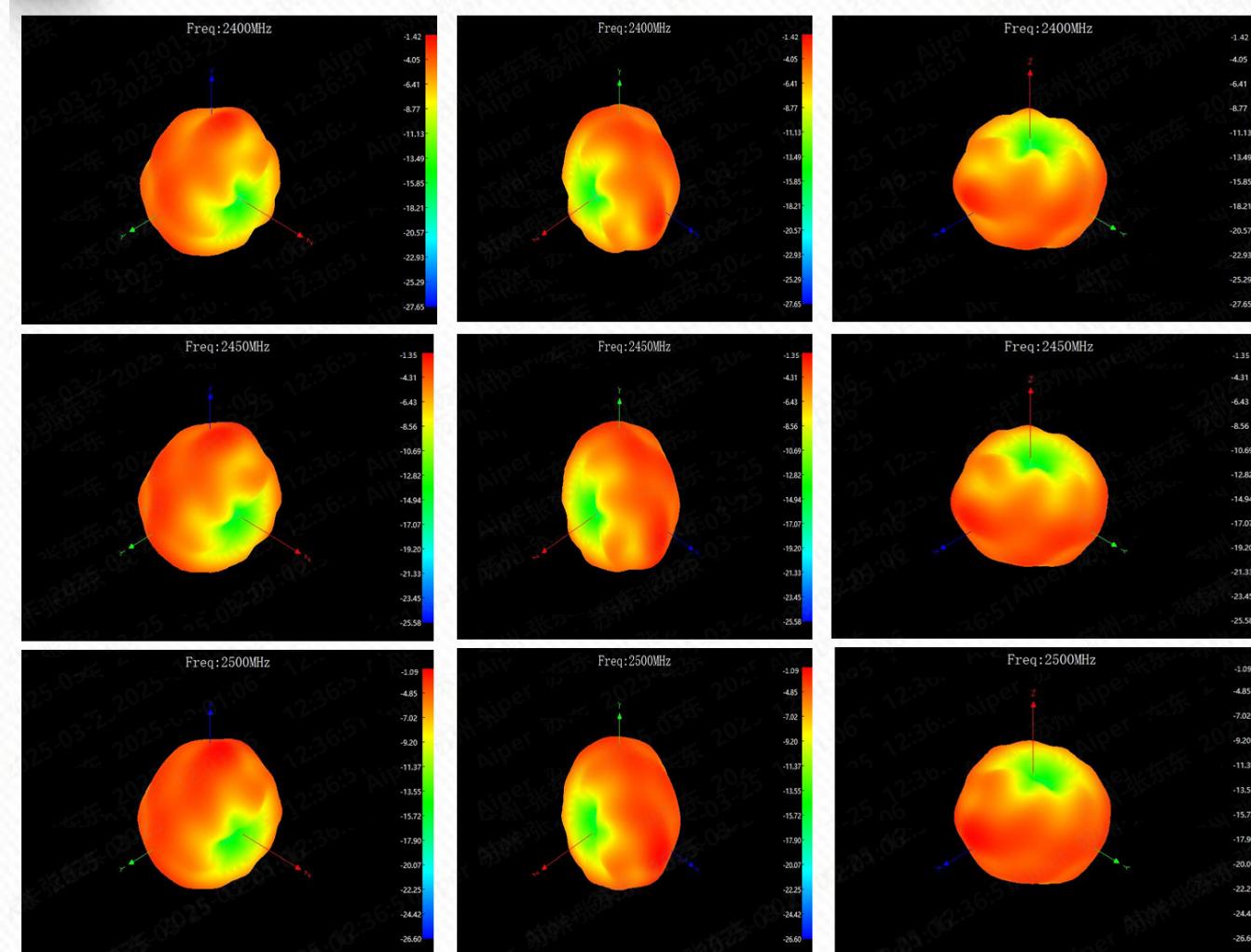
S11-VSWR



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

WIFI antenna OTA data

3D Etotal



NO Change made

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

Thank You

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