

Antenna Testing Report

Project Name : 2010 TX

Sunnyway(CAHINA)Technology Co.,Ltd

Report version: Jan. 09th, 2024 A0

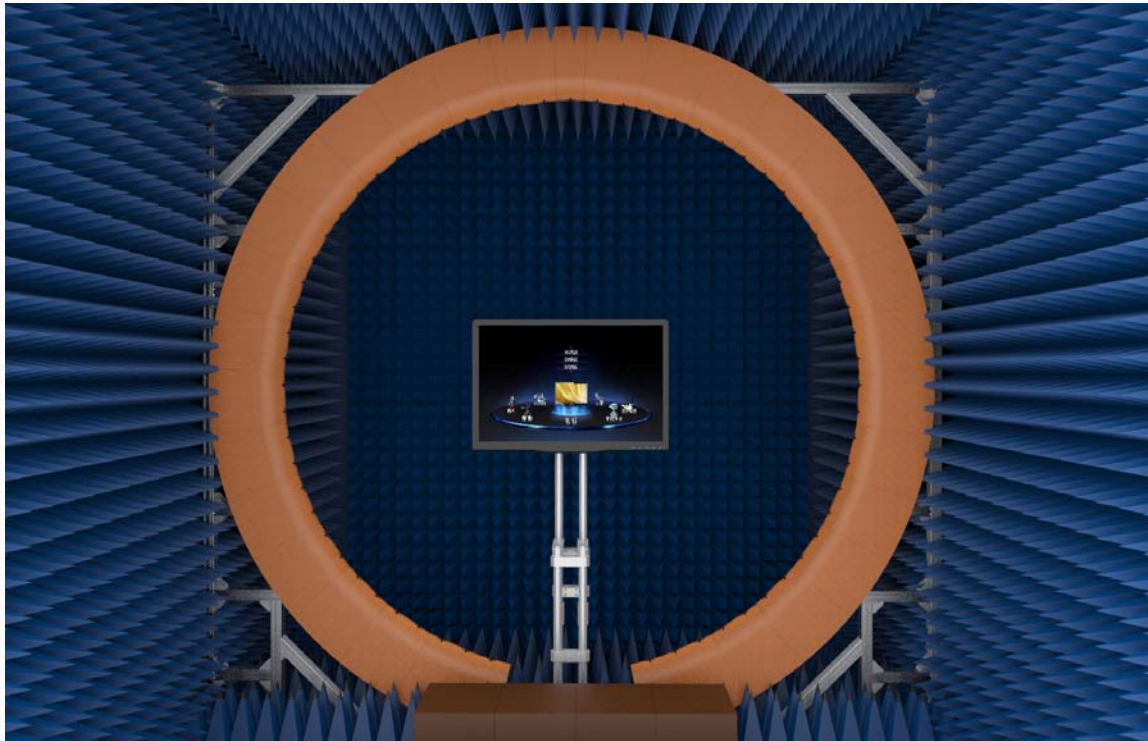
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Prototype status	Debugging machine	Project prototype diagram: 
Device type	Board computer	
Number of antennas	1PCS	
Frequency band	WIFI: 2.4GHZ	
Structural style	monopole	
Environment adjustment	No change	
Matching modification	No changed	
Prototype status	Debugging machine	
Device type	Board computer	



The industry's top 64 sensors OTA chamber

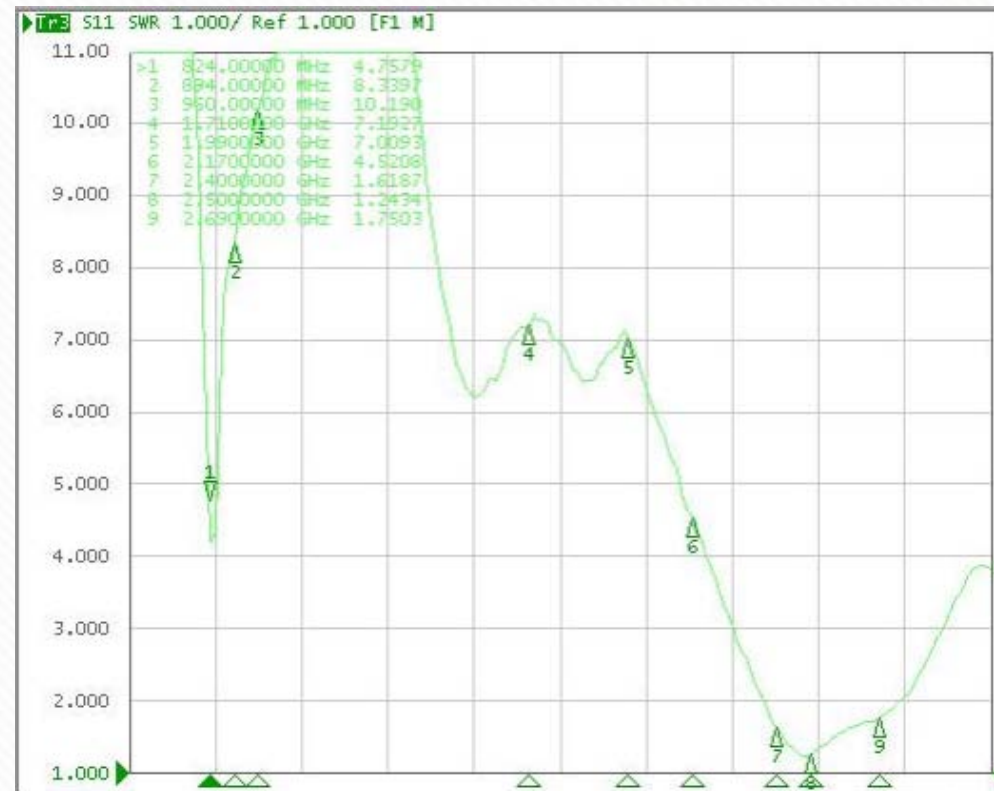
Frequency range: 400MHz-11GHz

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

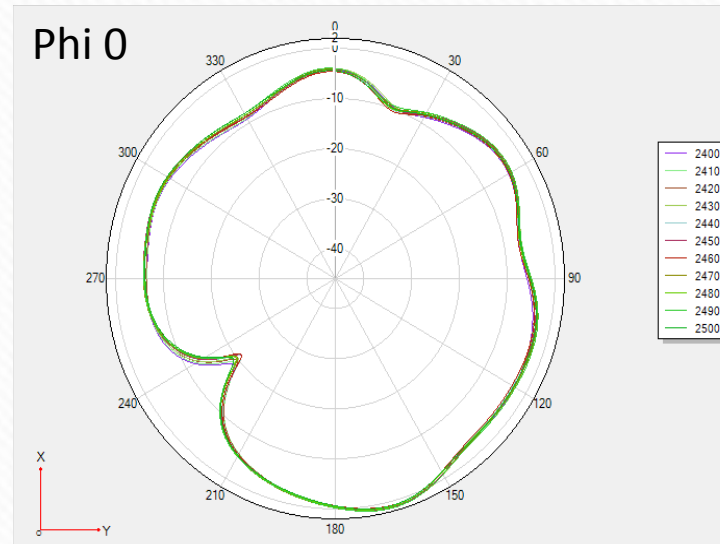
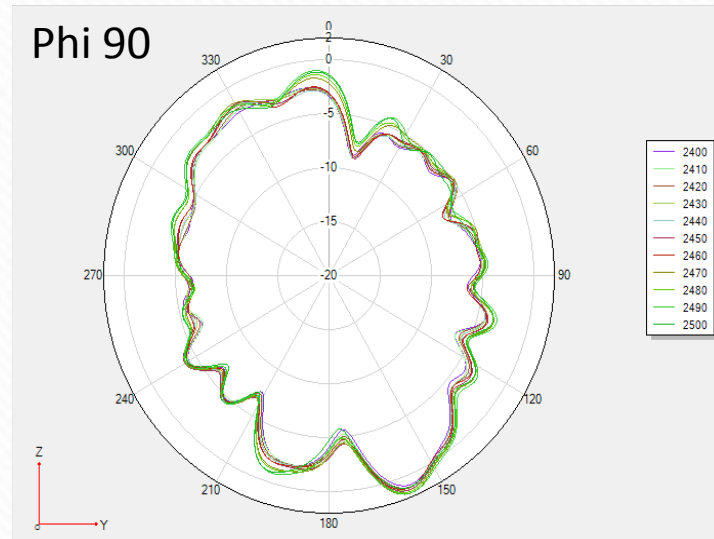
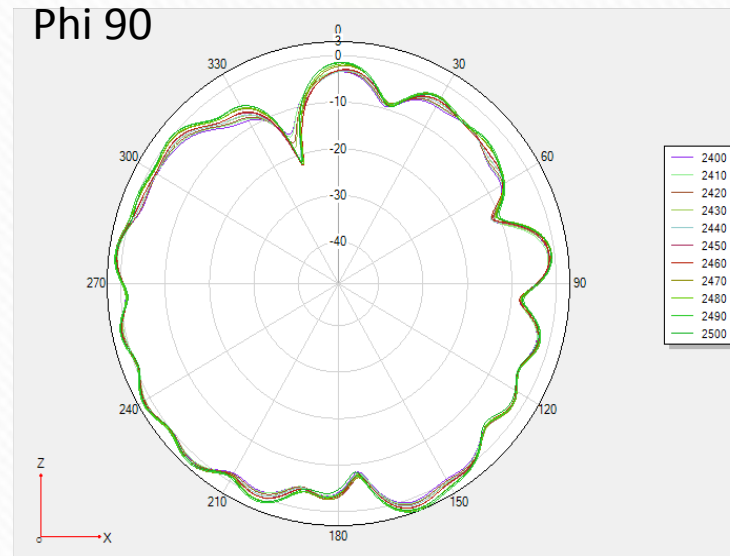
WIFI antenna S11



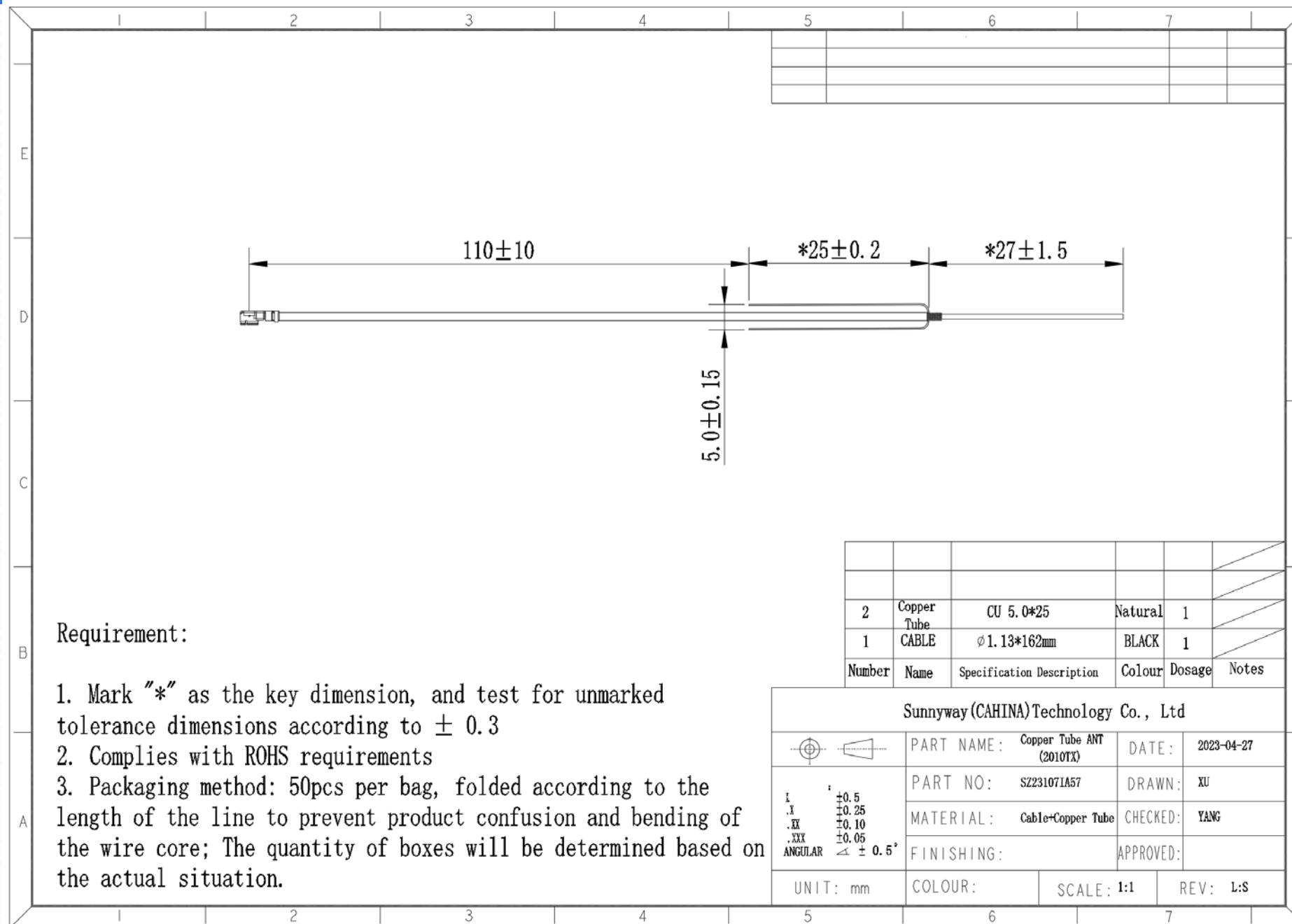
Passive test data:

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	1.27	52.76
2410	1.26	52.46
2420	1.47	54.36
2430	1.74	55.92
2440	1.75	56.45
2450	1.89	57.42
2460	1.92	57.1
2470	1.96	60.58
2480	2.1	60.82
2490	2.25	61.64
2500	2.1	59.55

2D Etotal



Item	Measurement	Band	Channel	Total
1	TRP	WIFI_B (11M)	1	20.16
2	TRP	WIFI_B (11M)	6	20.07
3	TRP	WIFI_B (11M)	11	20.43
4	TIS(EIRP)	WIFI_B (11M)	11	-86.73
5	TRP	WIFI_G (54M)	1	15.47
6	TRP	WIFI_G (54M)	6	15.81
7	TRP	WIFI_G (54M)	11	16.42
8	TIS(EIRP)	WIFI_G (54M)	1	-73.16
9	TRP	WIFI_N_ISM (65M)	1	17.02
10	TRP	WIFI_N_ISM (65M)	6	17.79
11	TRP	WIFI_N_ISM (65M)	11	17.85



1. This data testing environment is for customer supplied whole machine testing ;
2. The test sample is a monopole antenna sample.

Thank You

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