

Antenna Testing Report

Customer: apical Technology

Project Name: BM04-RX

Report Number: SZ24408IB77

Manufacturer: Sunnyway Technology(CHINA)

Address: Floor 6, Building 5, Nam Tai Inno Park, Guangming District, Shenzhen

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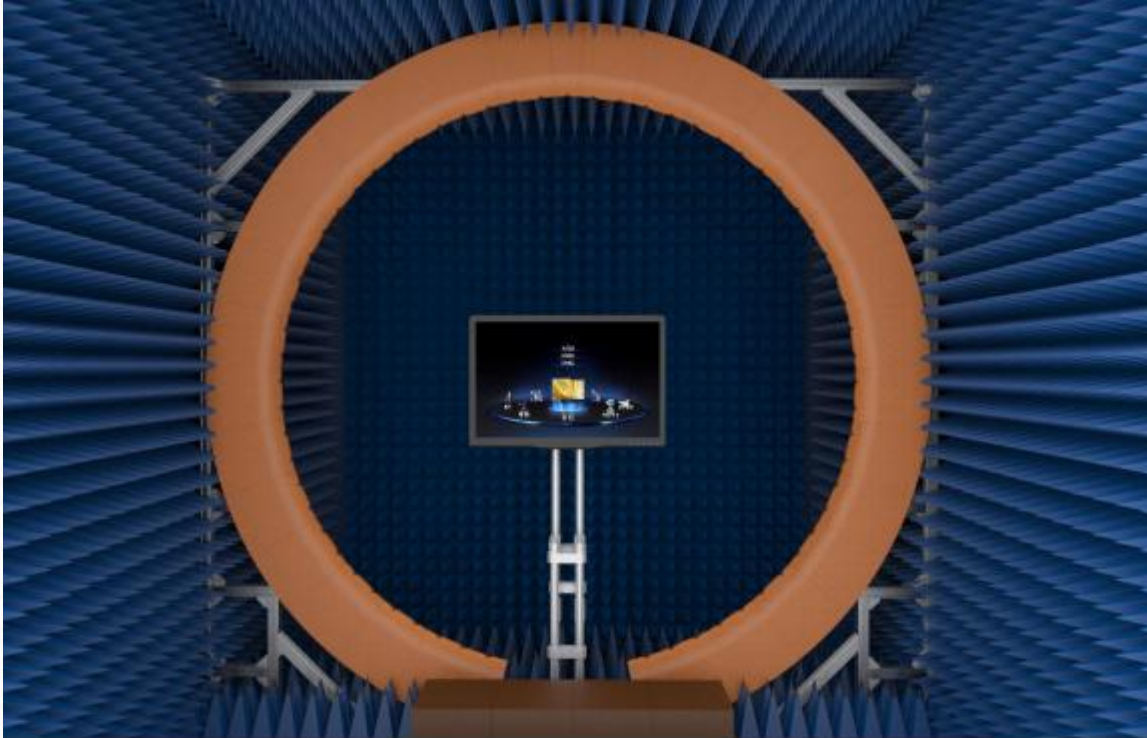
Author: Li Jia Bin

Version	Report date	Remark
A0	2024.11.26	Latest test data
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Project Overview

Prototype status	Debugging machine
Device type	IPC Videography head
Number of antennas	WIFI antenna
Frequency band	2.4 B/G/N
Structural style	FPC Antenna
Environment adjustment	No change
Matching modification	No change



The industry's top 64 sensors OTA chamber

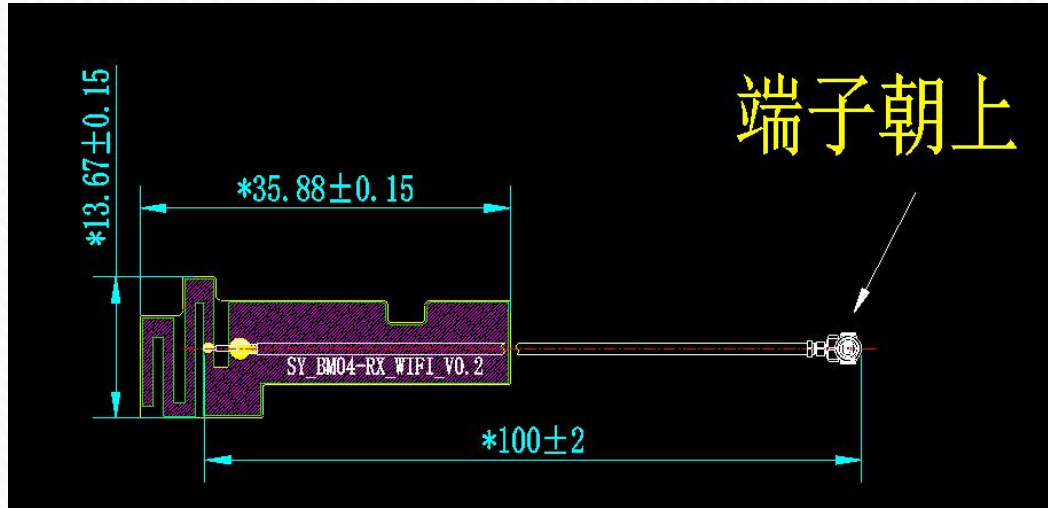
Frequency range: 400MHz-11GHz

Device Llimitation: 2M

Load-bearing limitation:100KG

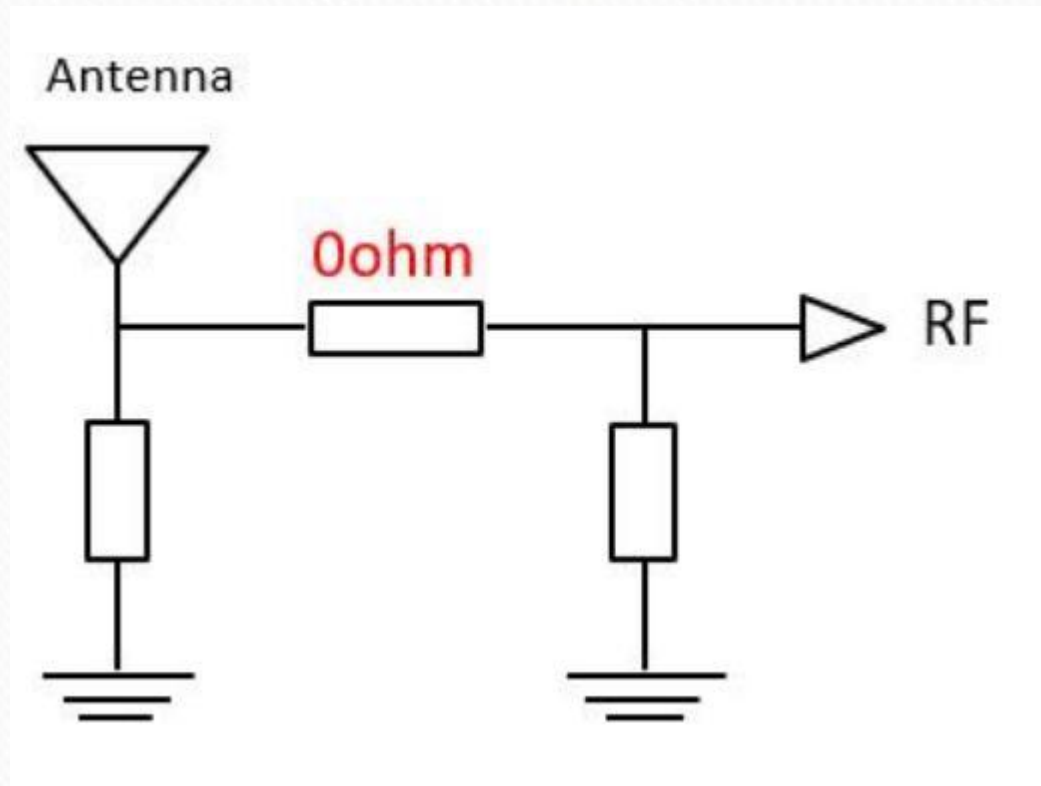
Equipments Items	Total Quantity	Quantity for Shanghai R&D	Quantity for Shenzhen R&D	Quantity for ChongQing R&D
OTA chamber	10	4	5	1
5G Tester (SP9500-CTS)	3	1	1	1
R&S Tester (high configuration CMW500)	6	3	2	1
Japan Anritsu Tester (Dual Channel 8820)	4	2	2	--
NB-IoT Tester (SP8315)	3	1	1	1
Agilent Tester (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/Antenna size

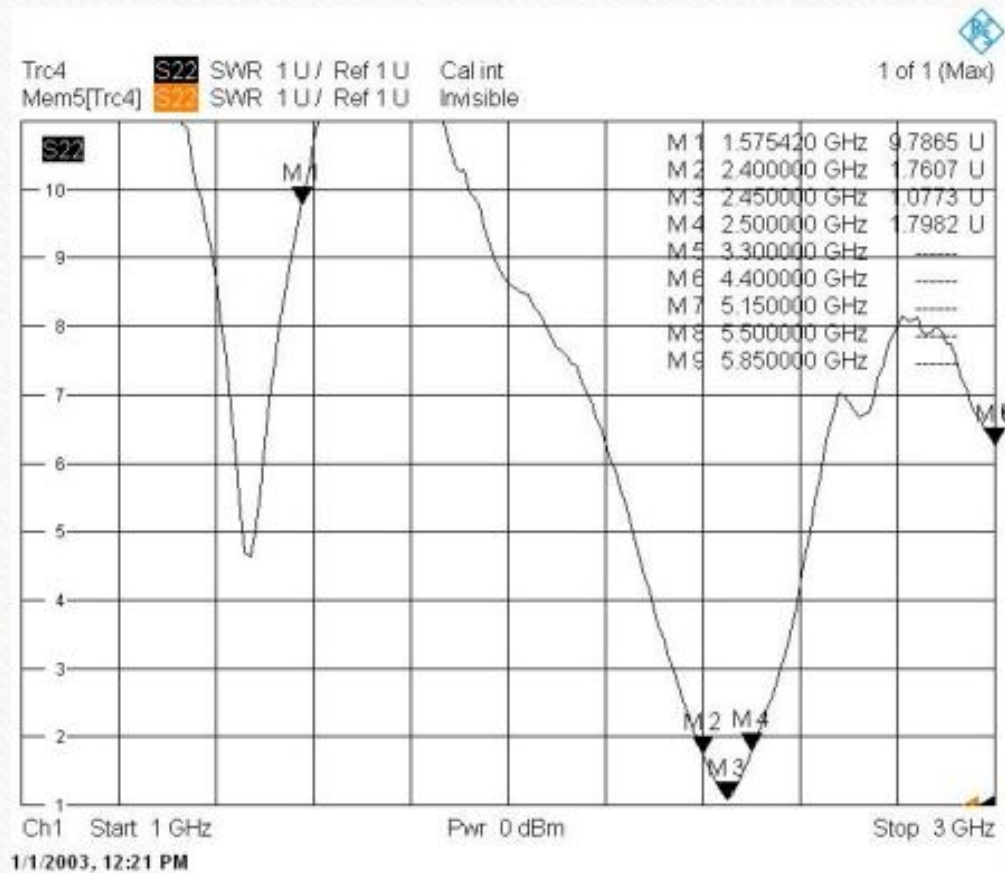


WIFI Antenna type: FPC Antenna

WIFI Antenna model: SZ24408IB77

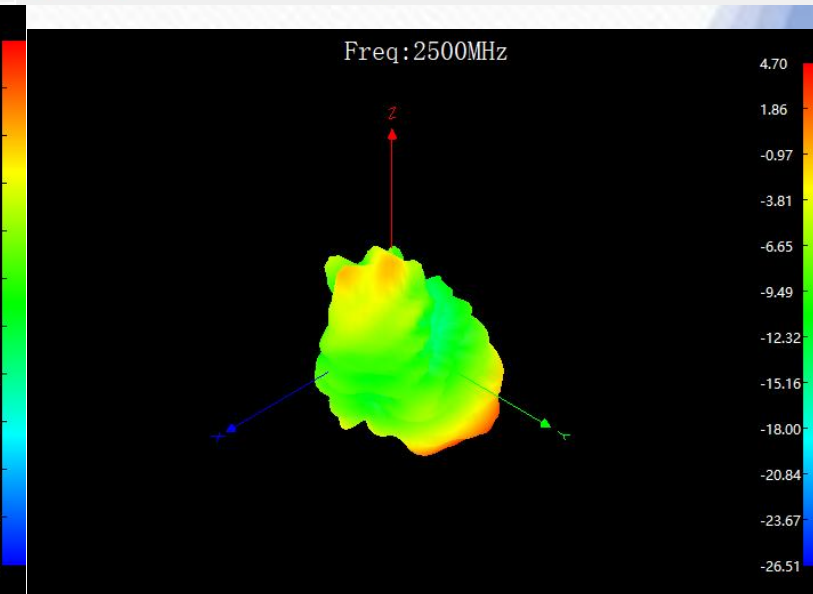
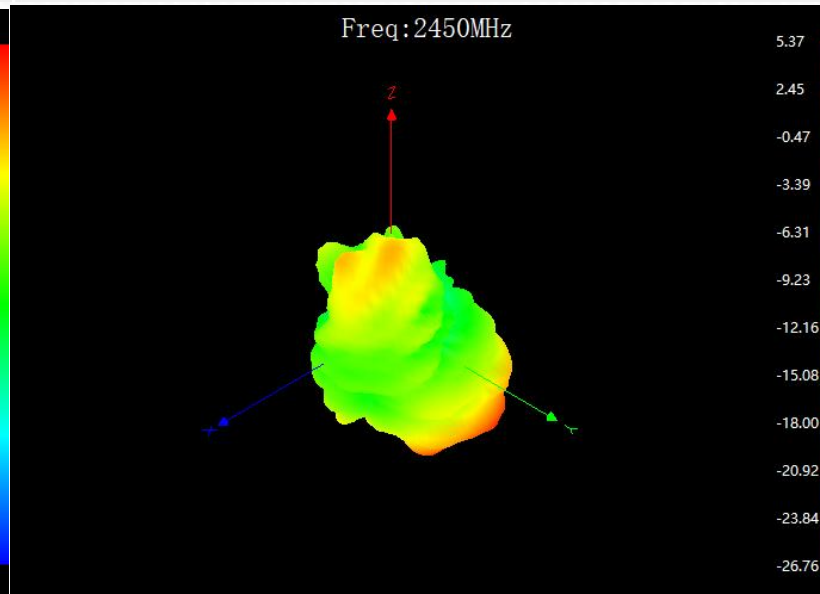
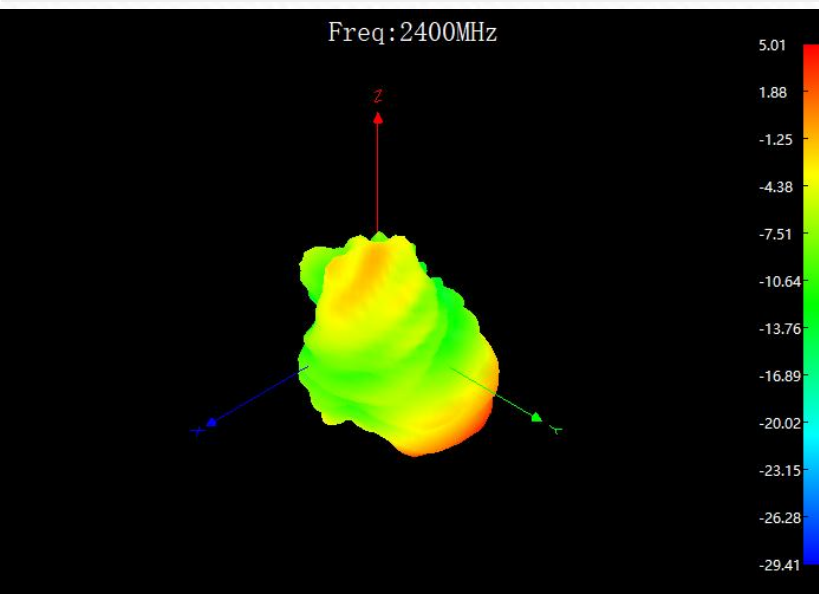
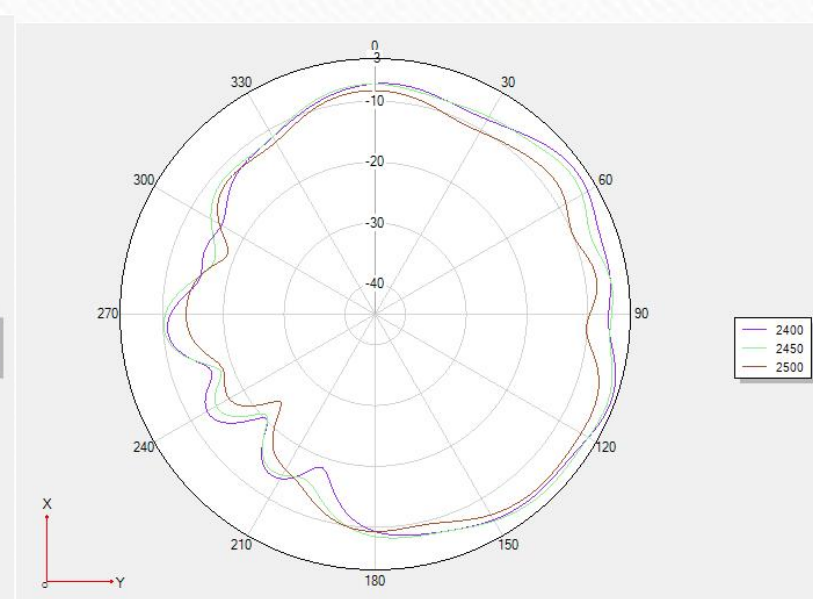
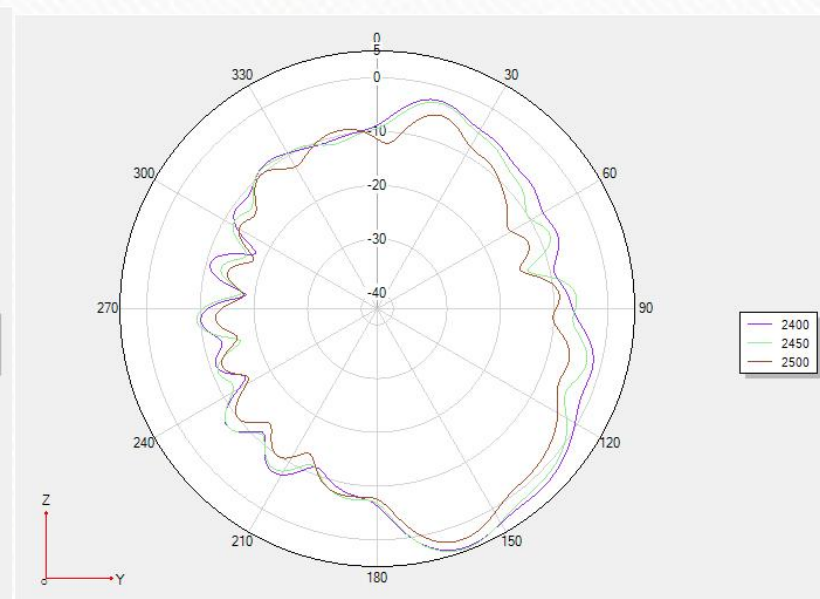
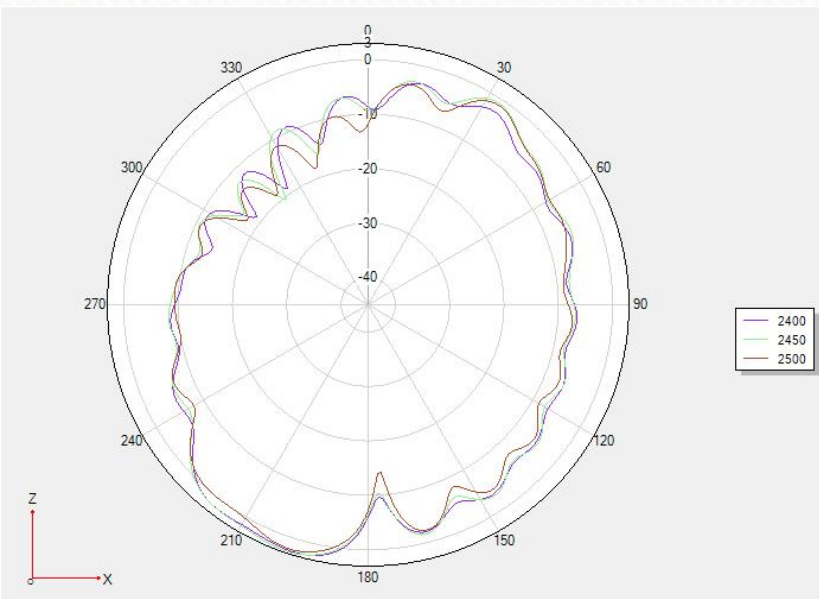


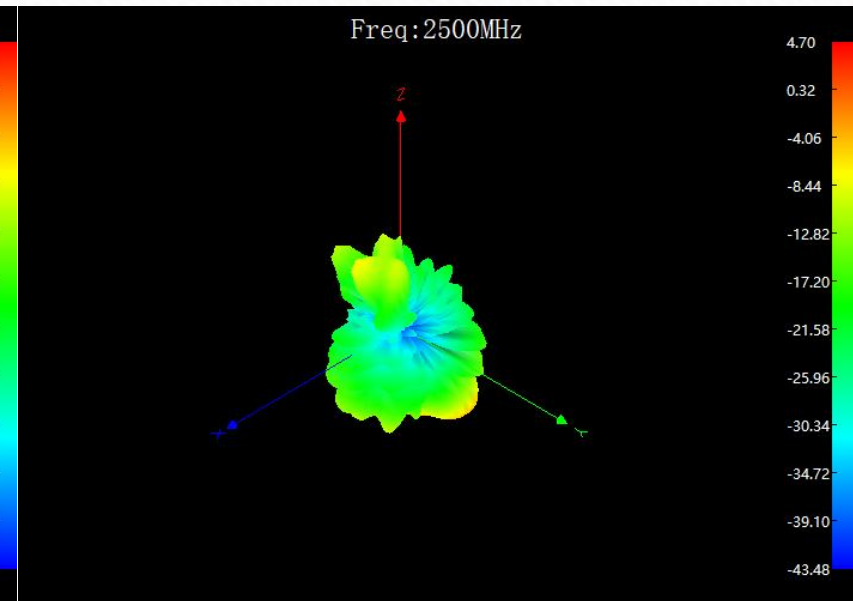
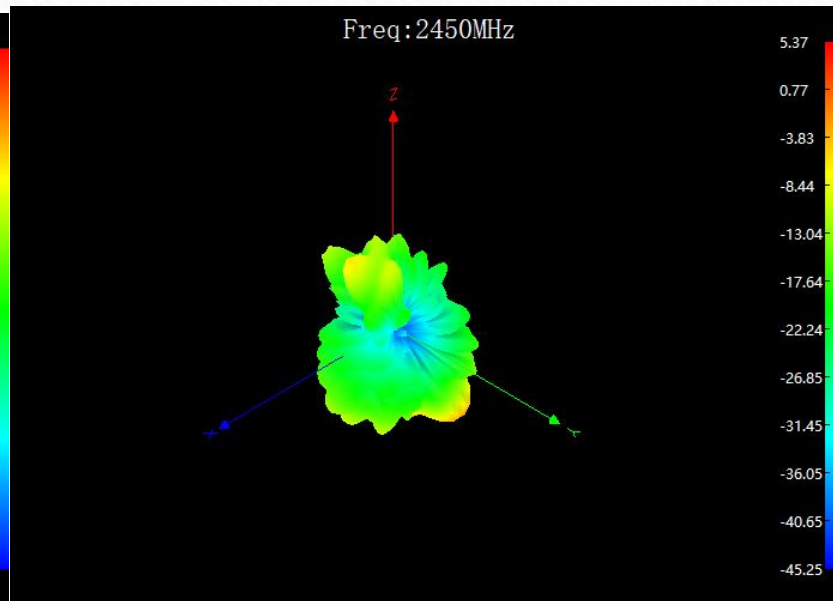
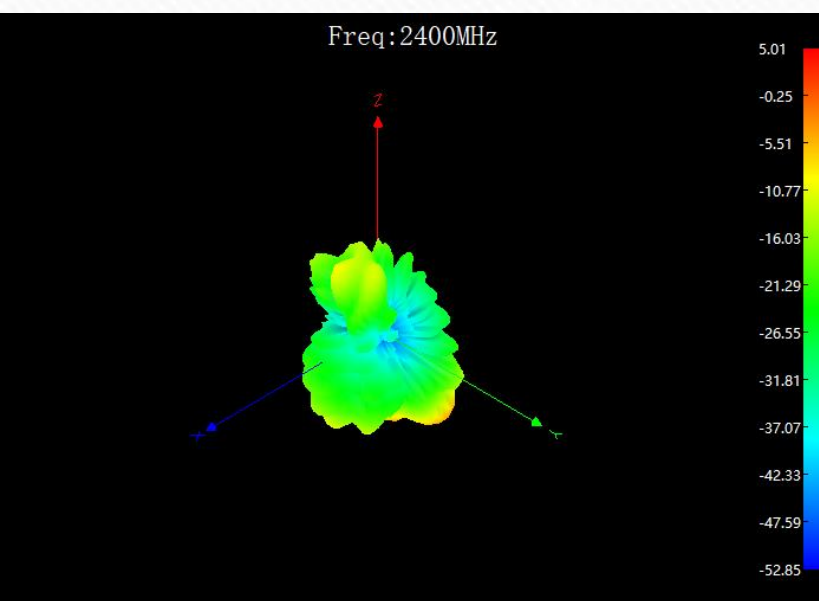
频率	2400	2450	2500
驻波比	1.7	1	1.7



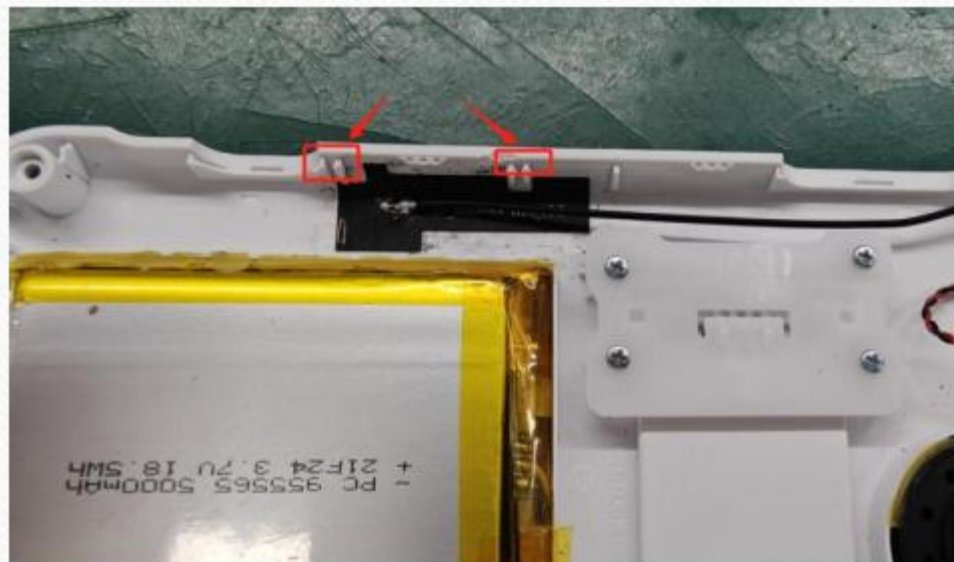
Frequency/Mhz	Efficiency / %	MaxGain/dBi	AvgGain/dBi
2400	36.48	3.01	-4.38
2410	36.56	3.35	-4.37
2420	36.98	3.07	-4.32
2430	36.14	3.2	-4.42
2440	36.48	3.17	-4.38
2450	35.81	3.37	-4.46
2460	34.83	3.33	-4.58
2470	33.27	3.42	-4.78
2480	32.43	3.4	-4.89
2490	29.72	3.14	-5.27
2500	26.55	2.7	-5.76

Direction map





Measurement	Band	Channel	Total
TRP	WIFI_B (1M)	1	13.48
TRP	WIFI_B (1M)	6	14.28
TRP	WIFI_B (1M)	11	15.36
TIS(EIRP)	WIFI_B (11M)	11	-82.6
TRP	WIFI_G (6M)	1	12.53
TRP	WIFI_G (6M)	6	13.26
TRP	WIFI_G (6M)	11	14.57
TIS(EIRP)	WIFI_G (54M)	11	-69.42
TRP	WIFI_N_ISM (6.5M)	1	12.18
TRP	WIFI_N_ISM (6.5M)	6	14.4
TRP	WIFI_N_ISM (6.5M)	11	14.09
TIS(EIRP)	WIFI_N_ISM (65M)	11	-67.47



The bone position at the arrow is the positioning datum attached to the antenna

The above is the latest validation test data.

Thank You

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