

承 认 书

客户确认 CUSTOMER APPROVED BY

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天线测试报告

antenna testing

客 户 Customer	科沃斯
项目名称 Project Name	MR2337青耕
客 户 料 号 Customer NO.	
规 格 specification	PCBWiFi2.4G天线 AKWSOPW0-2337-V01绿油白字(背胶):单面板FR4:尺寸30.4x35.5mm板厚1.0;线长205mm线径1.13灰色:带1代IPEX;ROHS
供 方 料 号 Supplier NO.	1AAKWS0PW0-2337-01
规 格 书 编 号 Specification NO.	
编写人 Write by	潘益林
版本 REV.	Ver.1
日 期 Date	2024-5-24
备 注 Note	

1. 承认书项目表 (Index)

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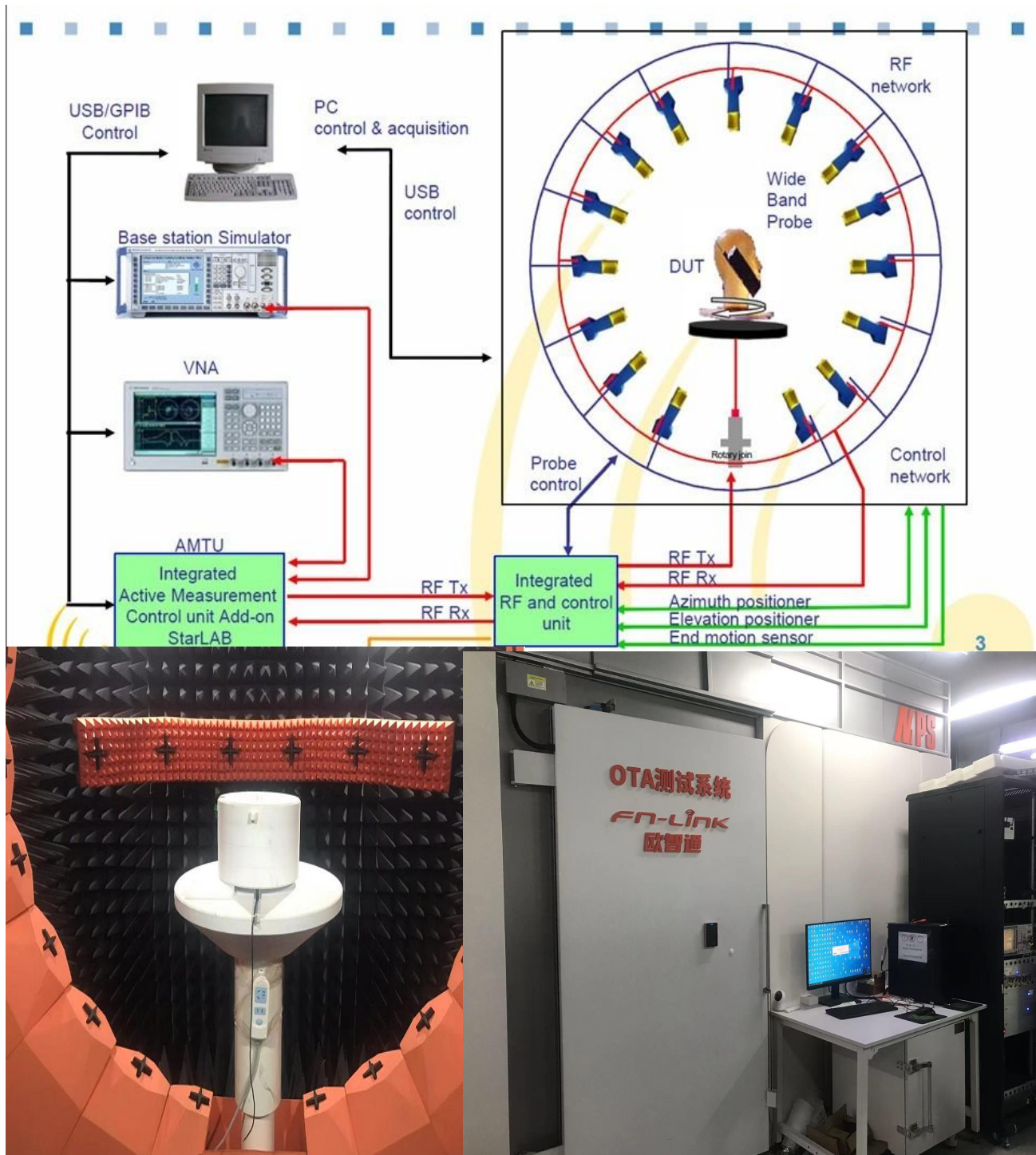
1. 试验设备和条件(Test Equipment & Conditions)

1.1 . Network Analyzers : KEYSIGHT P5002A

1.2 . Communications Test Set: R&S CMW 500

1.3 . 3D Chamber Test System: 24 probe test system

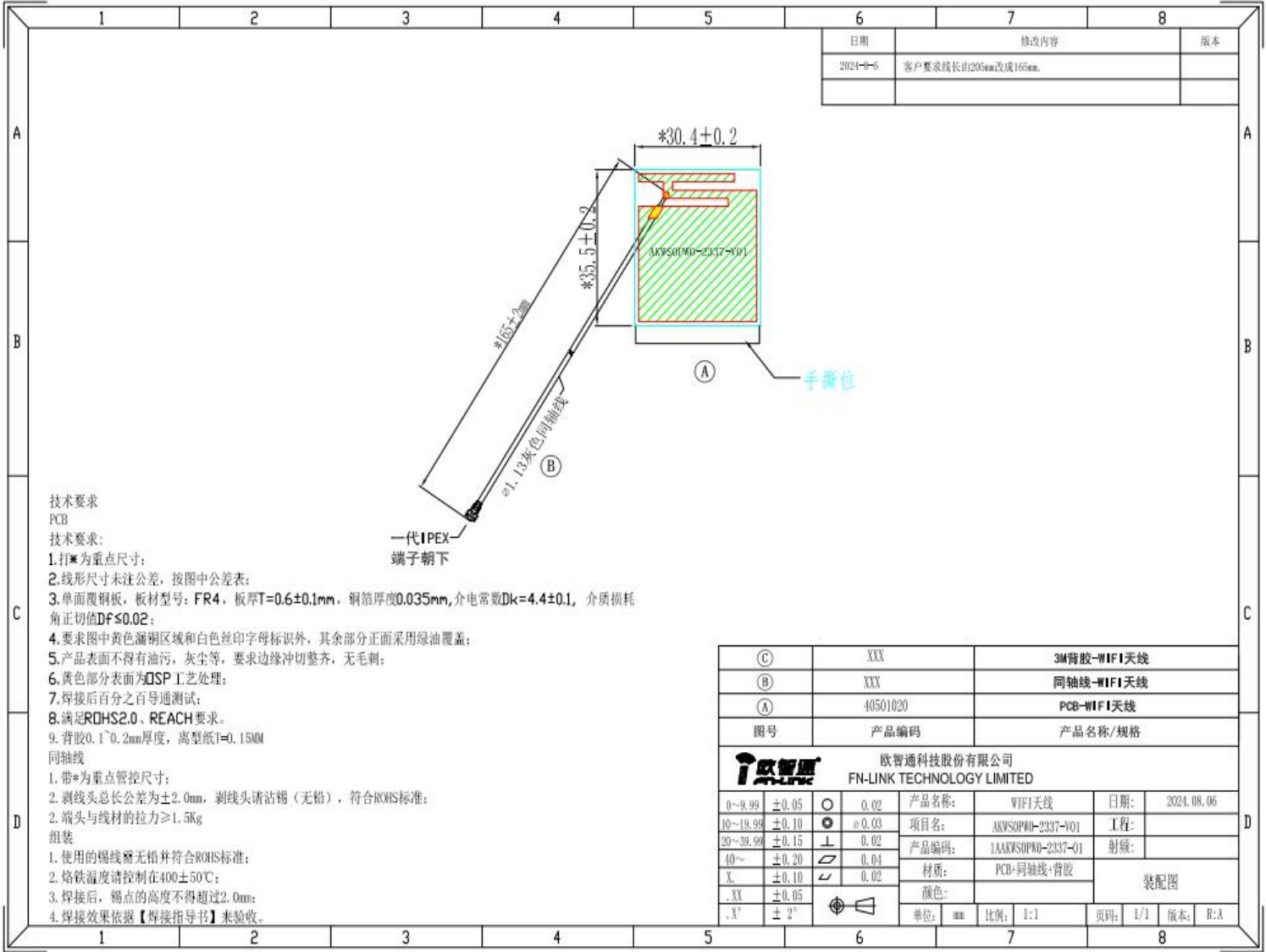
1. 微波暗室的测试原理图Test schematic diagram of microwave darkroom



2. 说明。

这份报告总结了该项目天线的电气性能结果，包括天线的S11 参数,Gain和Efficiency.

天线成品图Antenna finished product drawing



天线装配图Antenna assembly drawing

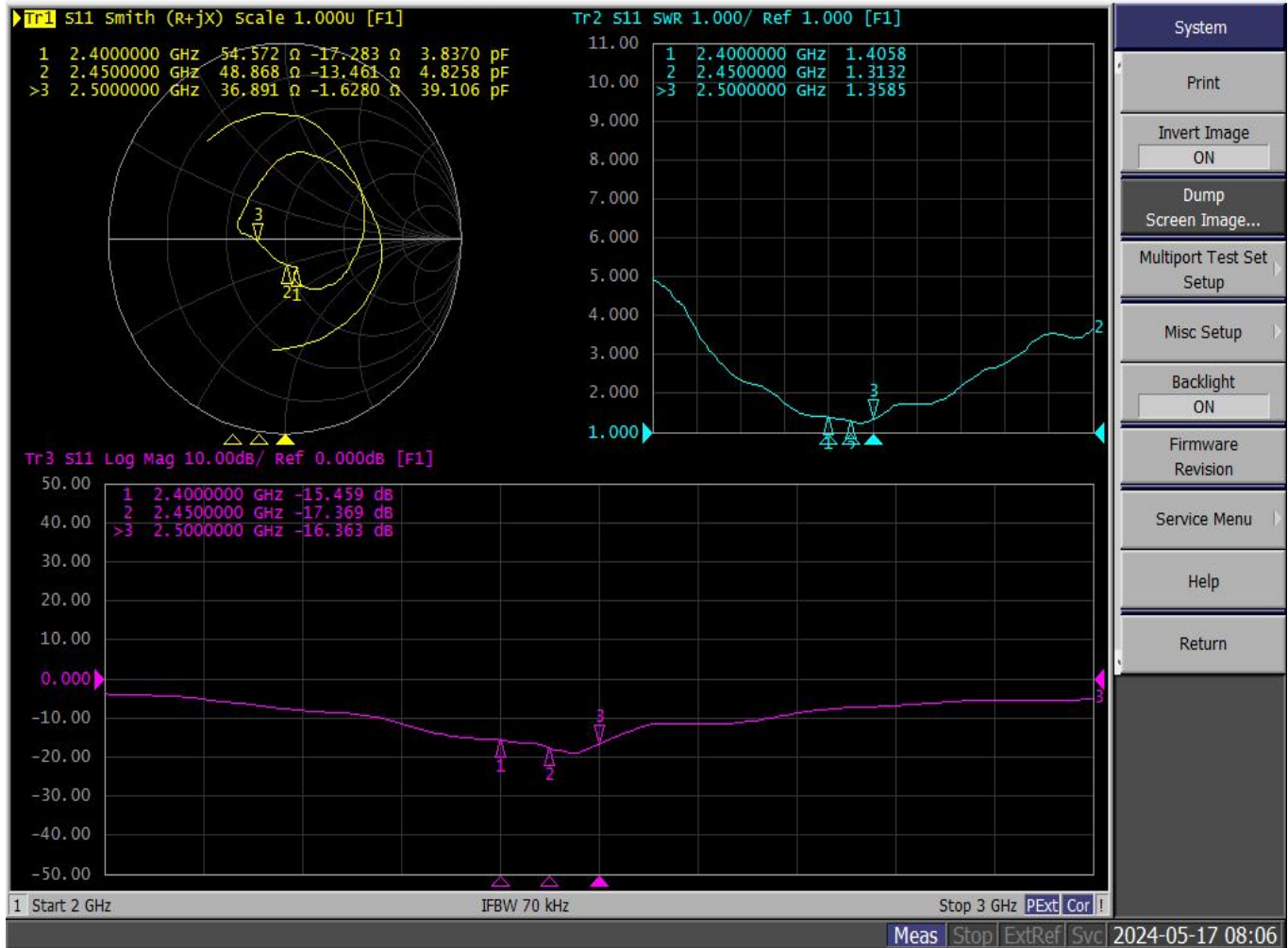


WIFI天线S11(Black antenna S11)

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize



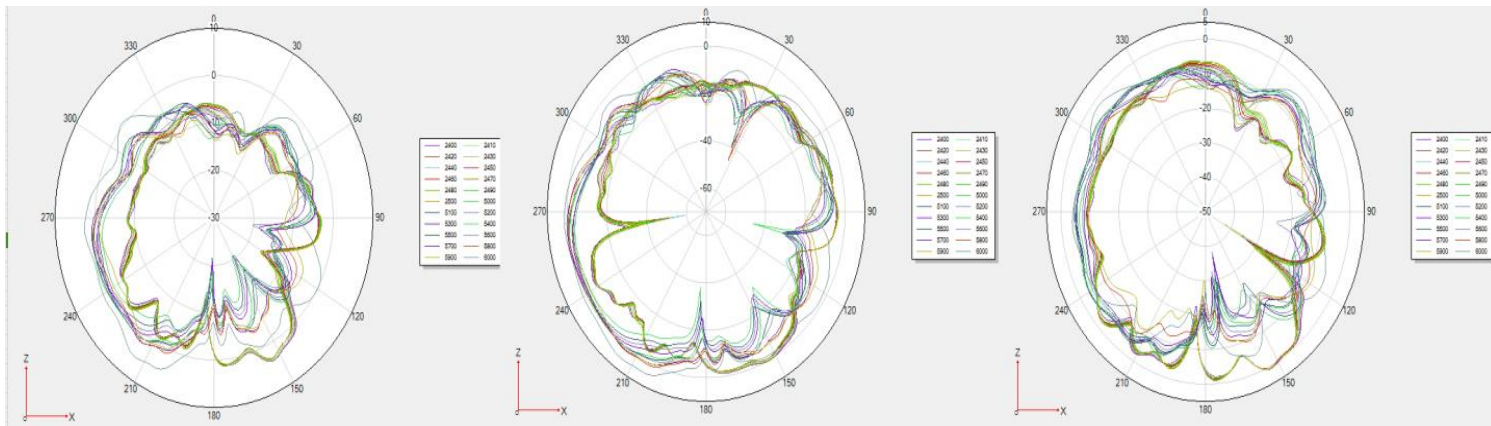
Freq/GHz	2400	2450	2500
VSWR	1.4	1.3	1.3

WIFI天线2.4G数据

WIFI antenna 2.4G data

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	4.49	65.59
2410	4.47	66.75
2420	4.49	67.68
2430	4.11	67.81
2440	4.11	68.48
2450	3.86	67.94
2460	3.75	65.72
2470	3.59	64.58
2480	3.63	64.08
2490	3.4	62.72
2500	3.3	60.93

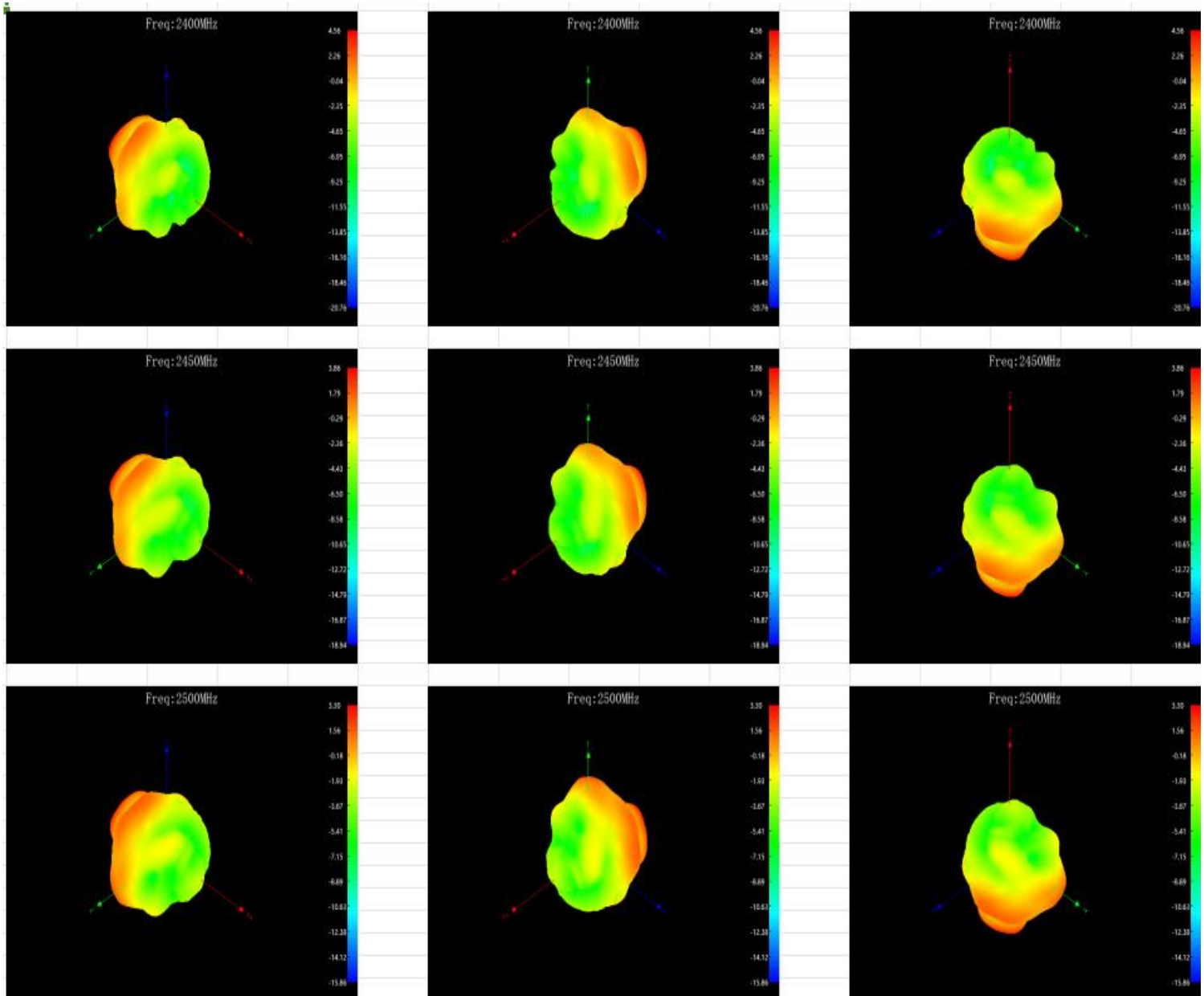
WIFI 2.4-G Antenna apple pattern pattern (Black antenna)3DPattern@2400-2500MHz



Z-X

Z-Y

X-Y



OTA有源数据

OTA active data

Item	Measurement	Standard	Band	Channel	Frequency	Max	Min	Total
1	TRP	WIFI (AP)	WIFI_B (11M)	1	2412	20.89	3.46	14.7
2	TRP	WIFI (AP)	WIFI_B (11M)	6	2437	21.18	3.66	14.17
3	TRP	WIFI (AP)	WIFI_B (11M)	11	2462	22.21	3.98	14.34
4	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	1	2412	-62.8	-85.76	-81.53
5	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	6	2437	-56.35	-84.94	-81.56
6	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	11	2462	-59.1	-84.61	-81.76
7	TRP	WIFI (AP)	WIFI_G (54M)	1	2412	15.87	-0.26	11.41
8	TRP	WIFI (AP)	WIFI_G (54M)	6	2437	17.98	-0.27	11.4
9	TRP	WIFI (AP)	WIFI_G (54M)	11	2462	19.03	-0.23	11.41
10	TIS(EIRP)	WIFI (AP)	WIFI_G (54M)	1	2412	-65.86	-75.76	-73.53
11	TIS(EIRP)	WIFI (AP)	WIFI_G (54M)	6	2437	-66.35	-75.98	-73.56
12	TIS(EIRP)	WIFI (AP)	WIFI_G (54M)	11	2462	-67.1	-75.61	-73.76
13	TRP	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	17.6	-1.1	11.74
14	TRP	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	17.98	-0.2	11.98
15	TRP	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	19.03	-0.35	10.57
16	TIS(EIRP)	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	-63.8	-69.76	-66.87
17	TIS(EIRP)	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	-64.35	-69.94	-66.53
18	TIS(EIRP)	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	-65.1	-69.61	-66.80

包装图Packaging diagram

