客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT 客户/机型： LANDI A8S

CUSTOMER P.N./ 客户物料号：

PRODUCT NAME./ 物料名称： WIFI Antenna

MODEL NO./ 物料型号： 5U049I

ANTENNA TYPE./ 天线类型： FPC Antenna

SPECIFICATION/ 物料规格：

VERSION 版本	DATE 日期	REVISION DESCRIPTION 修订说明
T:A	2024-04-10	新建/newly added
T:B	2024/05/31	更新图纸/Update drawings
T:C	2025-05-07	更新图纸/Update drawings
T:D	2025-05-22	更新图纸/Update drawings
T:E	2025-06-11	更新图纸/Update drawings
T:F	2025-06-12	更新数据/Update data
T:G	2026-03-26	更新数据/Update data

SUPPLIER AUTHORIZED SIGNATURE/供应商承认签核			
制作/PREPARED	测试/TEST	审核/CHECKED	批准/APPROVED
徐海军 /XUHAIJUN	卓杨宁 /ZHUOYANGNING		

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核			
项目 /Project		质量 /Quality	

P lea se ret urn to us one copy of "SPECIFICATION FOR APPROVAL"with your approved signature./ /客户确认签字，盖章后请回传一份承认书给我司.

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目录 content

目录/content 2
1 名词解释/Noun explanation 3
2 测试设备/Test equipment 4
3 适用频段/Working frequency band 5
4 基本测试项目/Test project 5
4.1 驻波比图/VSWR plot 5
4.2 史密斯阻抗图/Simth plot 5
4.3 辐射方向图/Radiation pattern 5
4.4 增益和效率/Gain & Efficiency 5
4.5 TRP&TIS测试 5
5 测试指标和数据图表/Antenna parameter 5
5.1 驻波比/VSWR 5
5.1.1 驻波比图/VSWR plot 5
5.1.2 驻波比数据/VSWR data 6
5.2 史密斯阻抗圆图/Simth plot 6
5.3 辐射方向图/Radiation pattern 7
5.3.1 H-plane 7
5.3.2 E-plane 8
5.4 增益和效率/UGain & Efficiency 8

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5.5 TRP&TIS 8
6 环境处理建议/Environmental treatment suggestions 9
7 阻抗匹配要求/Impedance matching 9
8 天线外形图/Antenna plan 12
8.1 天线尺寸图/ Antenna dimensional drawing 10
8.2 馈线尺寸图/Coaxical cable length drawing 10
8.3 射频端尺寸图/Connecter drawing 10
9 天线安装指导/Antenna installation guide 14
9.1 天线安装说明/Antenna installation instructions 14
9.2 馈线走线说明/Coaxical routing 11
10 其他/Other 14

1 名词解释/Noun explanation

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access

2 测试设备/Test equipment

测试系统/Test system：Rayzone 1800 OTA System

测试环境/Test environment: 温度/Temperature 22℃±3℃，湿度/Humidity 50%±15%

测试设备/Test equipment: 测试无源数据时，使用网络分析仪 Agilent E5071C
/When testing passive data, use the network analyzer Agilent E5071C

测试有源数据时，使用综测仪 CMW500, Agilent 8960
/When testing active data, use the comprehensive tester CMW500 and Agilent 8960

设备校准日期/Equipment calibration date：2025-06-12

到期日/Due date: 2026-06-11

3 适用频段/Working frequency band

将适用的频段用其他颜色标出/ The yellow Identification is the using band

制式/ band	上行/ uplink	下行/ downlink
GSM850	824MHz～849MHz	869MHz～894MHz
GSM900	890MHz～915MHz	935MHz～960MHz
DCS1800	1710MHz～1785MHz	1805MHz～1880MHz
PCS1900	1850MHz～1910MHz	1930MHz～1990MHz
CDMA800	825MHz～835MHz	870MHz～880 MHz
CDMA2000	824MHz ～849MHz	869MHz ～894MHz
WCDMA	824MHz～2170MHz	2110MHz～2170MHz
WIFI(2.4G/5G)	2400MHz～5850MHz	2400MHz～5850MHz

4 基本测试项目/Test project

4.1 驻波比图/VSWR plot

4.2 史密斯阻抗图/Simth plot

4.3 辐射方向图/Radiation pattern

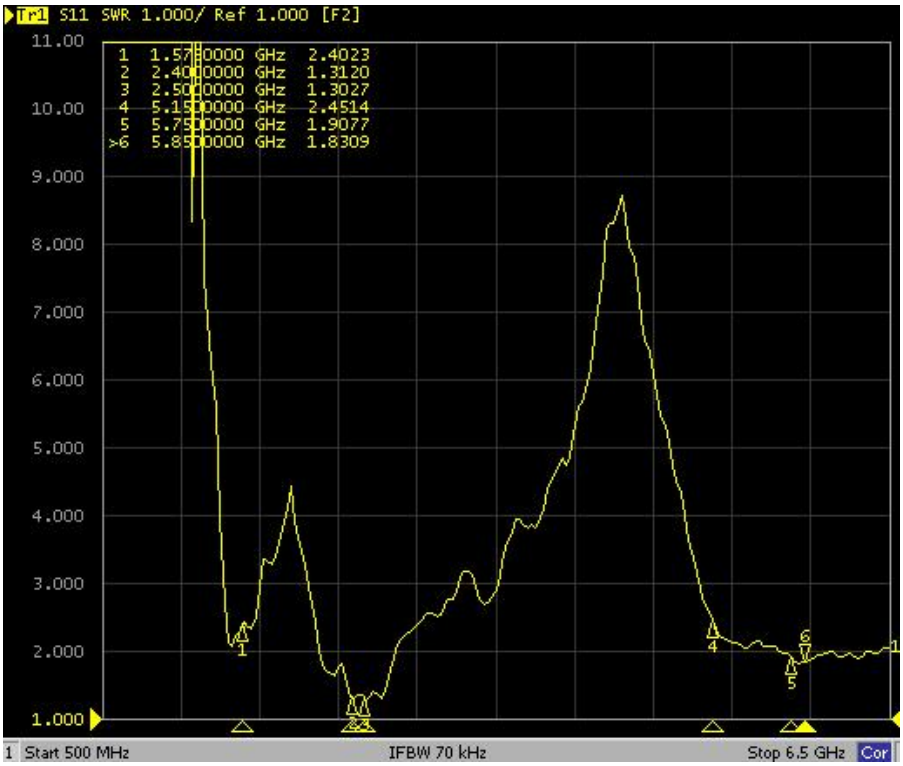
4.4 增益和效率/Gain & Efficiency

4.5 TRP&TIS

5 测试指标和数据图表/Antenna parameter

5.1 驻波比/VSWR

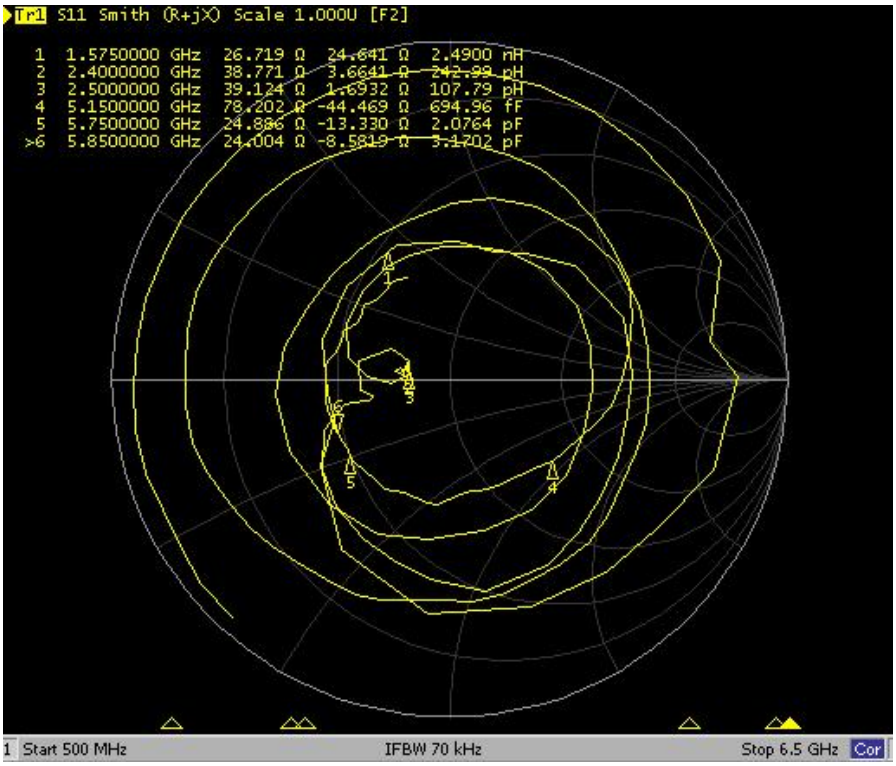
5.1.1 驻波比图/VSWR plot



5.1.2 驻波比数据/VSWR data

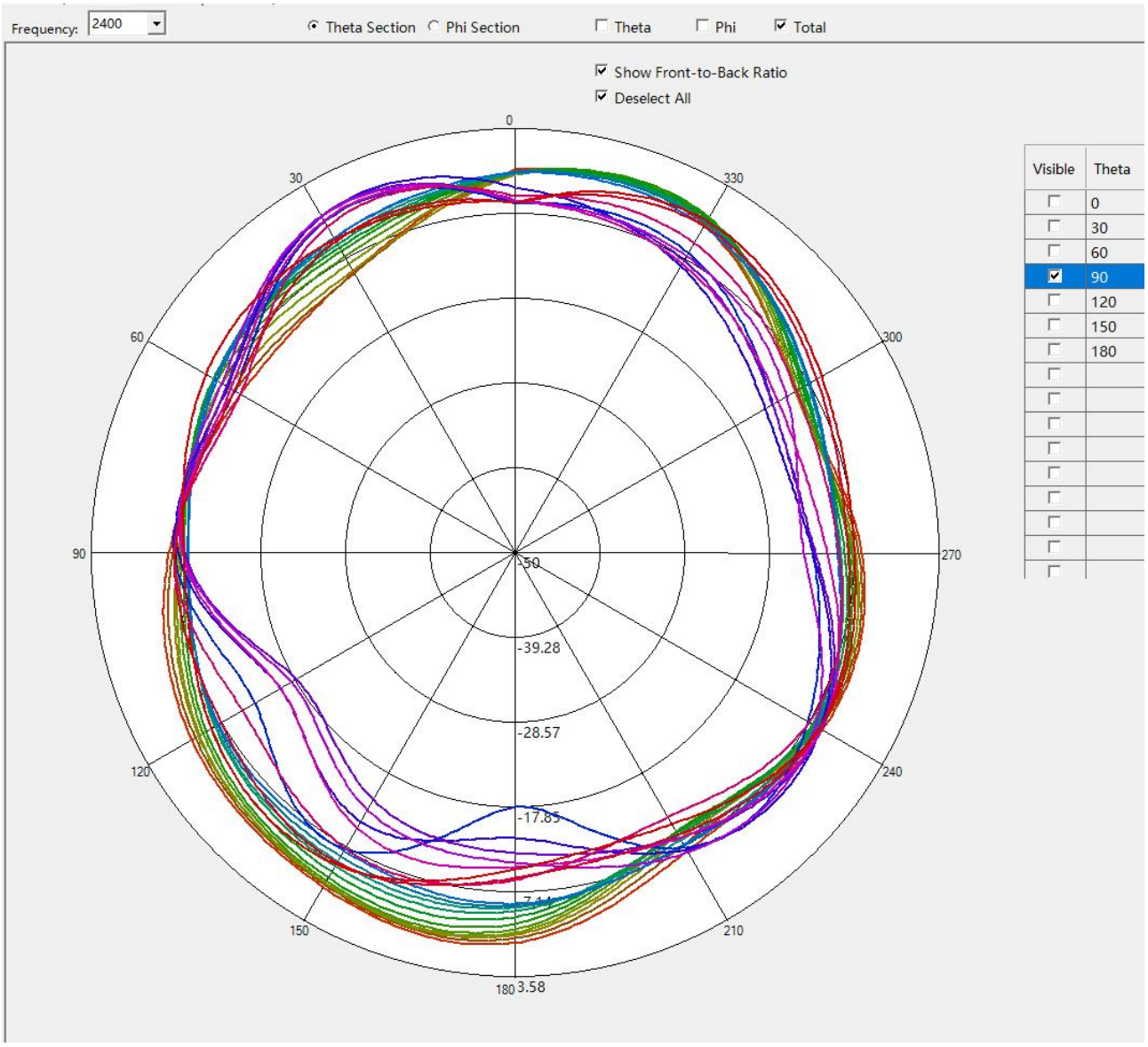
Freq/MHz	2400	2500	5150	5750	5850
VSWR	1.3	1.3	2.4	1.9	1.8

5.2 史密斯阻抗圆图/Smith impedance circle diagram


Tr1 S11 Smith (R+jX) Scale 1.000U [F2]
1 1.5750000 GHz 26.719 Ω 24.641 Ω 2.4900 nH
2 2.4000000 GHz 38.771 Ω 3.6641 Ω 242.99 pH
3 2.5000000 GHz 39.124 Ω 1.6932 Ω 107.79 pH
4 5.1500000 GHz 78.202 Ω -44.469 Ω 694.96 fF
5 5.7500000 GHz 24.886 Ω -13.330 Ω 2.0764 pF
>6 5.8500000 GHz 24.004 Ω -8.5819 Ω 3.1702 pF
1 Start 500 MHz
IFBW 70 kHz
Stop 6.5 GHz
Cor

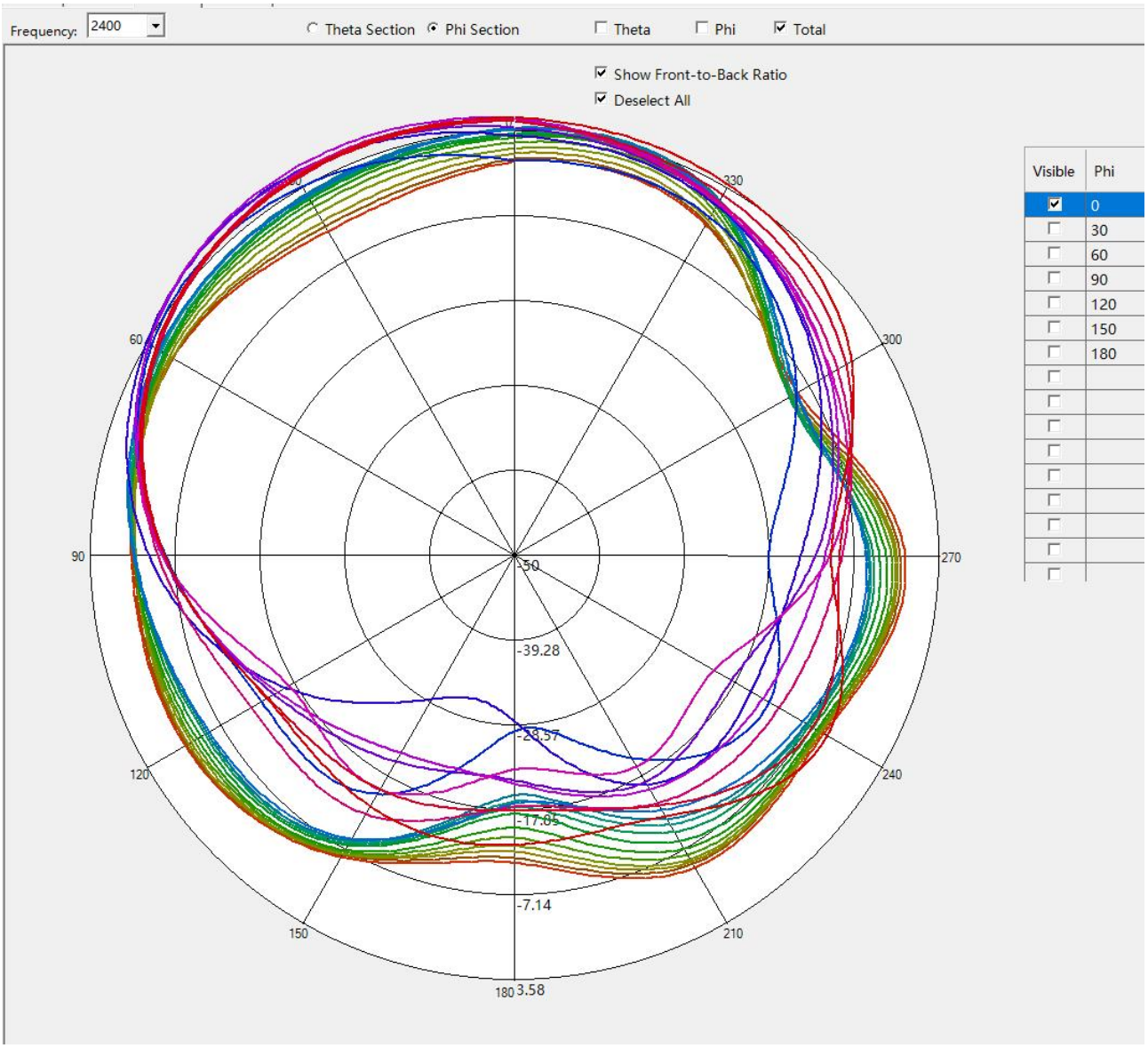
5.3 辐射方向图/Radiation pattern

5.3.1H-plane

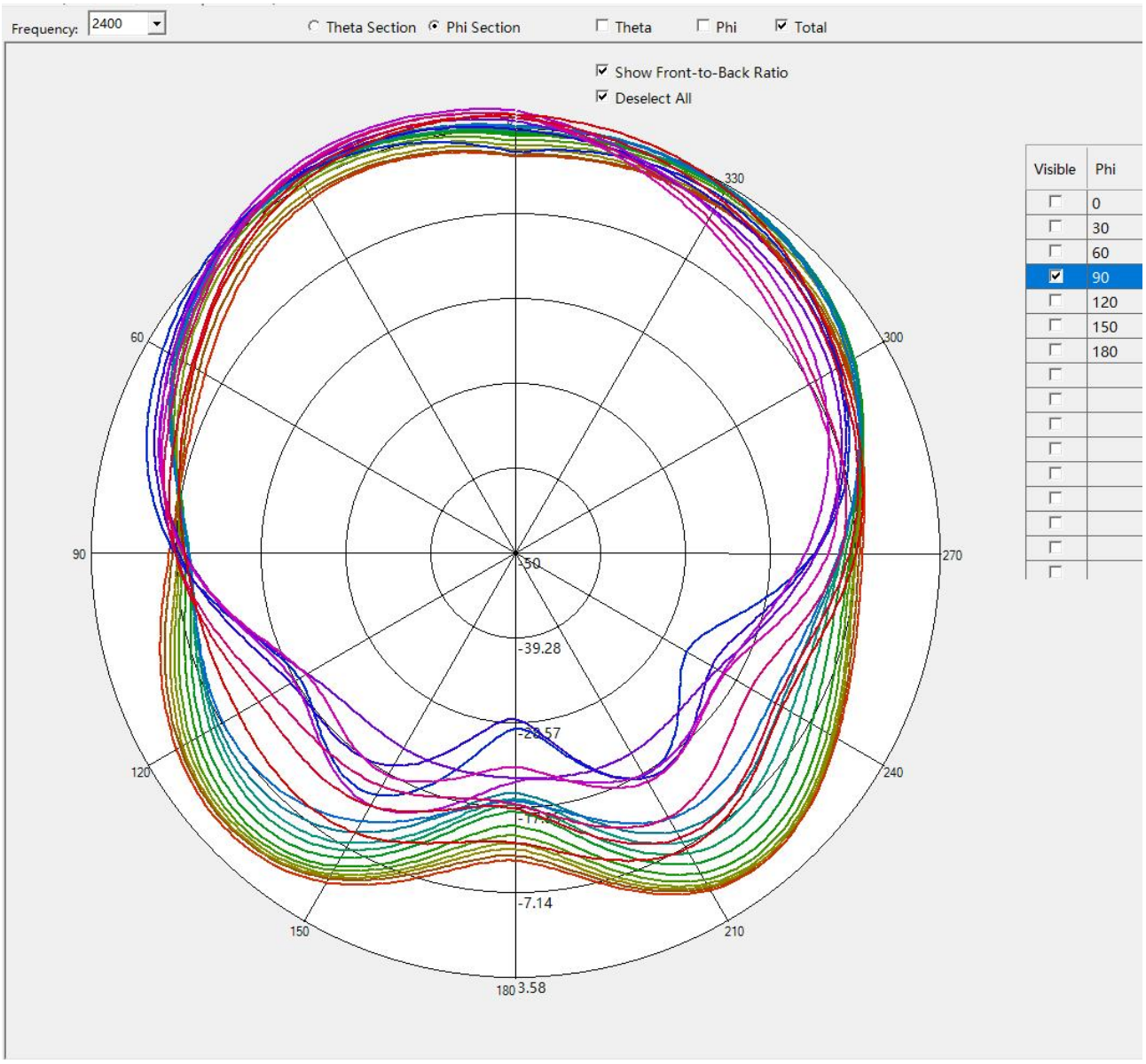


5.3.2E-plane

E1


Frequency: 2400
Theta Section
Phi Section
Theta
Phi
Total
Show Front-to-Back Ratio
Deselect All
Visible
Phi
0
30
60
90
120
150
180
330
300
270
240
210
180
150
120
90
60
-50
-39.28
-28.57
-17.85
-7.14
3.58

E2


Frequency: 2400
Theta Section
Phi Section
Theta
Phi
Total
Show Front-to-Back Ratio
Deselect All
Visible
Phi
0
30
60
90
120
150
180
330
300
270
240
210
180
150
120
90
60
-50
-39.28
-28.57
-17.86
-7.14
3.58

5.4 增益和效率/Gain & Efficiency

Freq（MHZ）	Eff(%)	GAIN(dBi)		Freq（MHZ）	Eff(%)	GAIN(dBi)
2400	54.40	2.03		5150	43.03	3.11
2410	50.85	1.80		5250	43.47	2.59
2420	49.41	1.72		5350	42.46	2.05
2430	52.39	2.10		5450	44.06	2.92
2440	53.25	2.22		5550	45.24	4.33
2450	52.88	2.20		5650	43.91	3.53
2460	47.96	1.74		5750	42.47	2.95
2470	46.03	1.72		5850	46.92	4.90
2480	46.84	1.89				
2490	48.87	2.03				
2500	47.19	1.80				

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		TRP (dBm)		TIS (dBm)	
11B	1	12.75		-80.32	
	6	13.92		-79.66	
	11	12.27		-78.18	
	36	11.60		-70.04	
11A	64	12.27		-70.74	
	161	10.44		-68.75	

6 环境处理建议/Environmental treatment suggestions

The environment doesn't need to be treated

7 阻抗匹配要求/Impedance matching

8 天线外形图/Antenna plan