



深圳市星旺达通信有限公司

Star Wanda Communications

领先的一站式射频服务商

XTE1303-Bloomin8-WIFI Antenna Report V1.0

2025/12/19

RF工程师：熊工

Version Notes

V1.0: Initial version

V1.1: Minor updates or bug fixes based on V1.0

V1.2: Continued updates or added features

V2.0: Major updates or refactoring, may include new functional modules or architecture changes



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3 Antenna power-down down test data

4 Test environment and antenna installation

5 Summary & Attachment Notes



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Project Debugging
Introduction

Model	XTE1303-Bloomin8 相框				
Board Type	PCB				
Frequency Band & Antenna Material	Main Antenna	Communication Frequency	Material	Antenna Type	Matching Change
		2400/5800Mhz	FPC Antenna	PIFA	N
Main Antenna Design Frequency	2.4Ghz& 5.8Ghz;				
Performance Requirements	Customer Standard				



Version Summary

Report Version	Report Date		Issues Resolved
V1.1	2025-12-19	Complete Unit	Passive Test (Mass Production Retest)

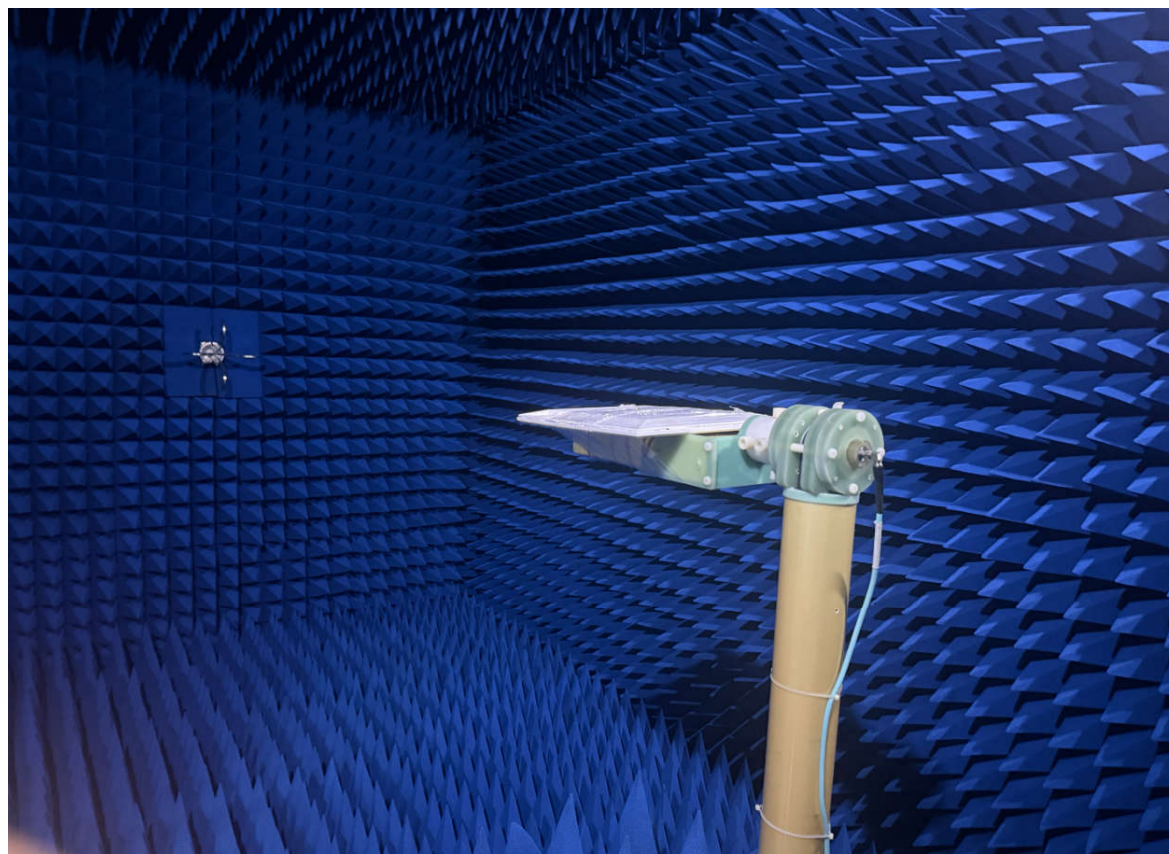
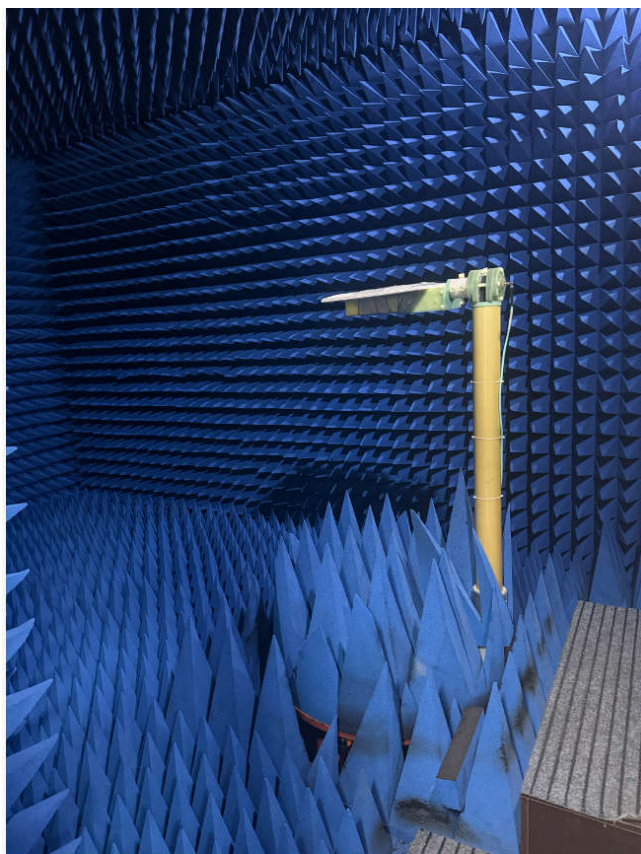


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OTA Test Environment



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2.4G Passive Test Data

频段ID Frequency ID	1	2	3	4	5	6	7	8	9	10	11
频段 Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
增益 Gain (dBi)	2.67	2.83	2.85	2.91	2.81	2.93	2.74	2.54	2.35	2.51	2.41
效率 Efficiency (%)	47.33	49.92	50.93	52.45	52.3	55.64	55.37	54.92	55.85	58.74	59.3



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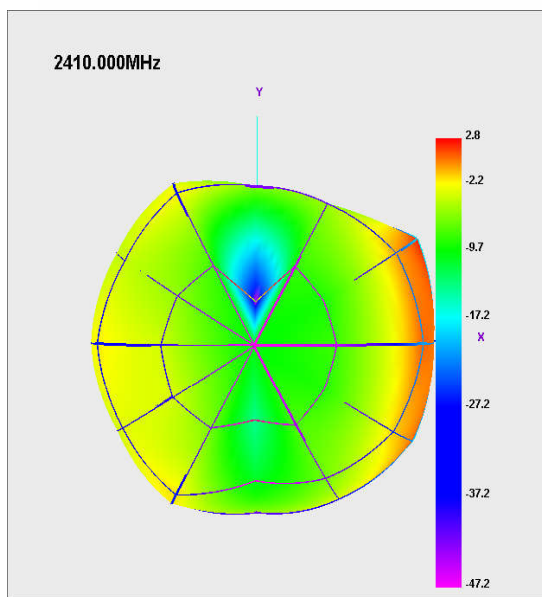
2410 MHz

3D Pattern

2D

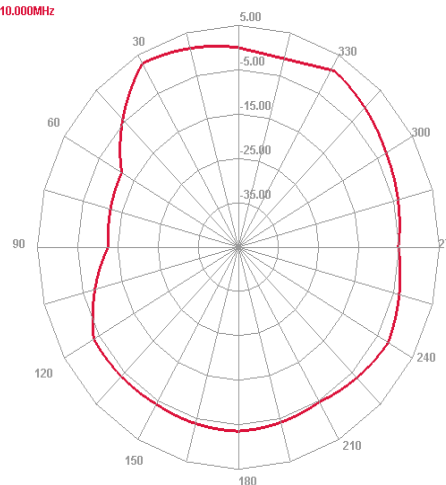
2D

2D



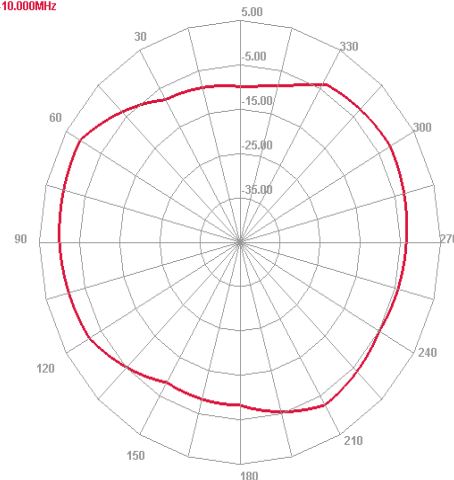
Horizontal

2410.000MHz



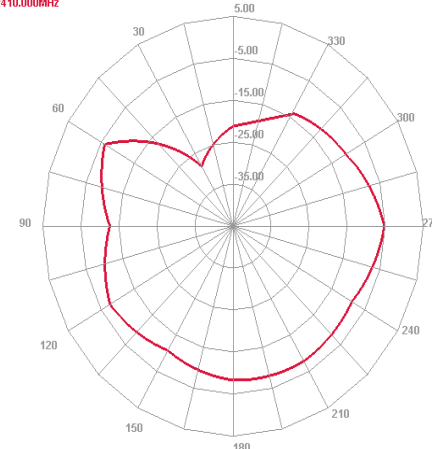
E1 Face

2410.000MHz



E2 Face

2410.000MHz



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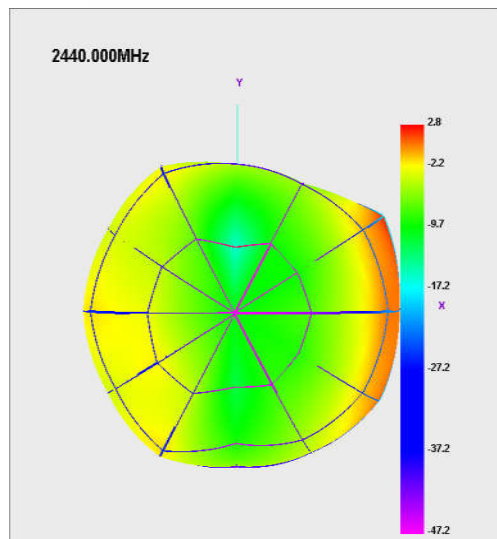
2440 MHz

3D

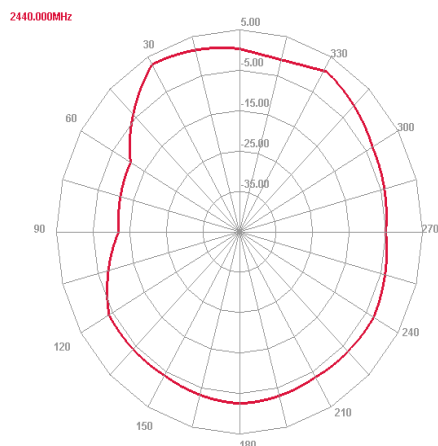
2D

2D

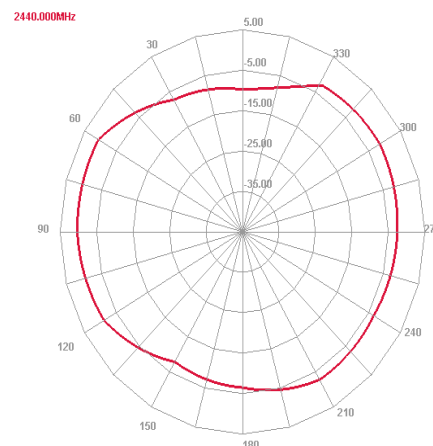
2D



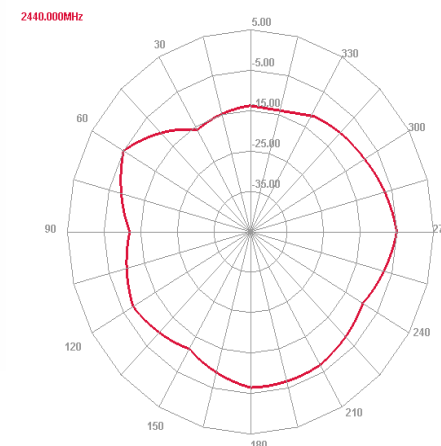
Horizontal



E1 Face



E2 Face





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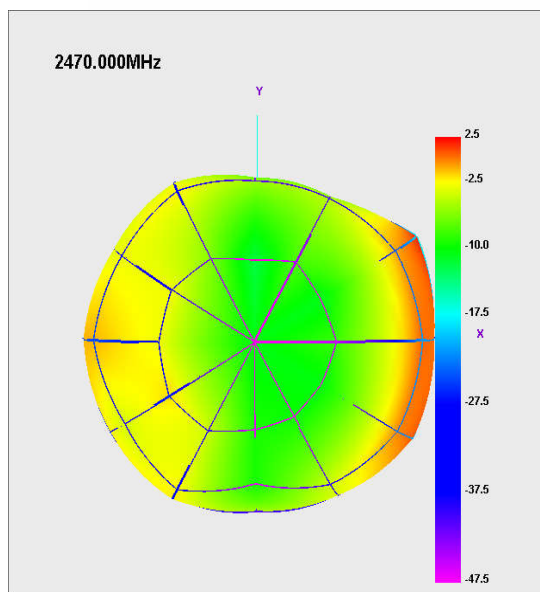
2470 MHz

3D图

2D图

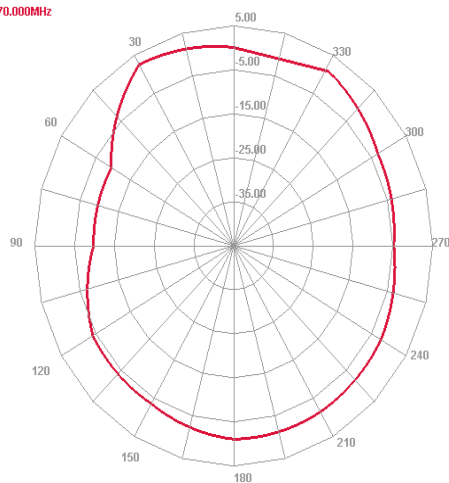
2D图

2D图



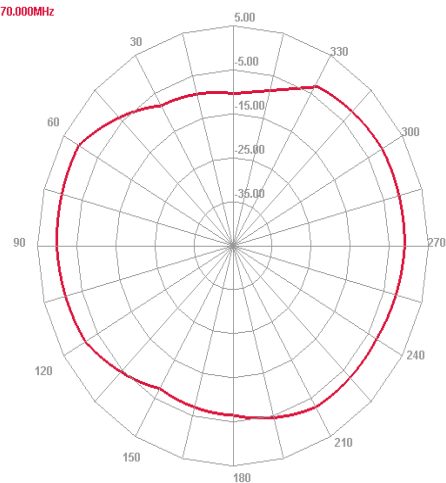
Horizontal

2470.000MHz



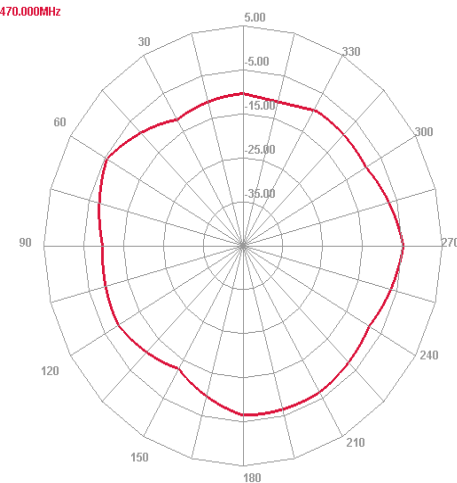
E1 Face

2470.000MHz



E2 Face

2470.000MHz





5.8G Passive Test Data

频段ID Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
频段 Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
增益 Gain (dBi)	0.01	-0.36	0.03	0.43	1.16	2.2	2.11	2.02	1.33	1.35	0.83	0.69	1.68	1.46	1.92
效率 Efficiency (%)	34.11	32.27	30.43	30.93	36.81	48.13	48.38	54.34	53.65	49.14	48.47	49.37	51.72	49.81	54.54



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5150 MHz

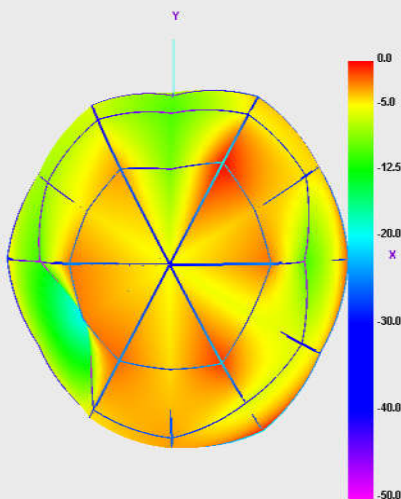
3D

2D

2D

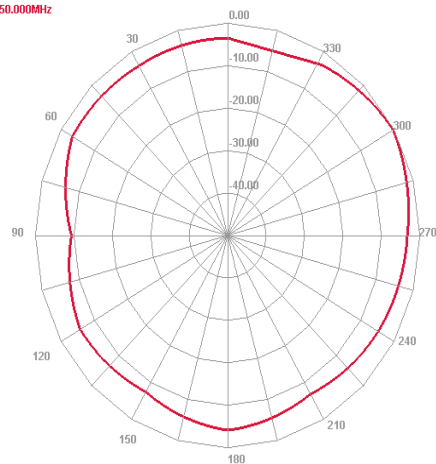
2D

5150.000MHz



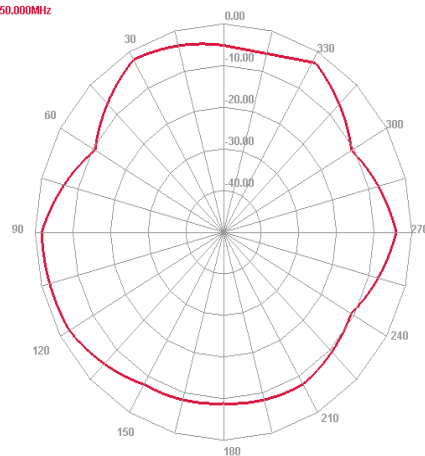
Horizontal

5150.000MHz



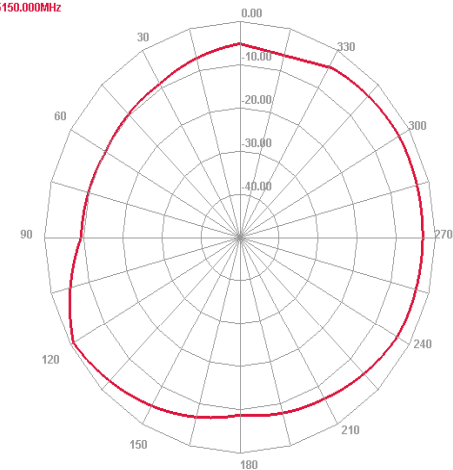
E1 Face

5150.000MHz



E2 Face

5150.000MHz



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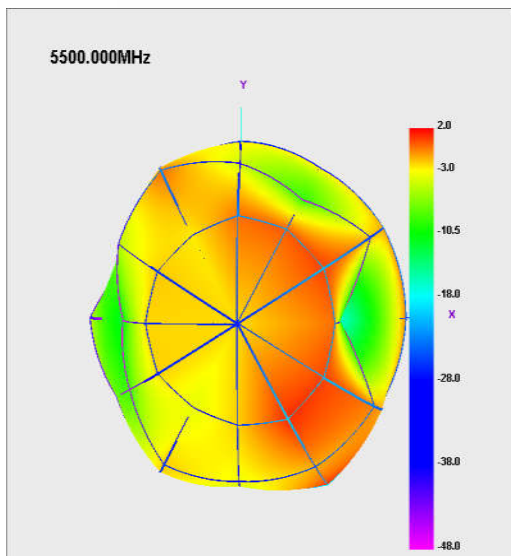
5500 MHz

3D

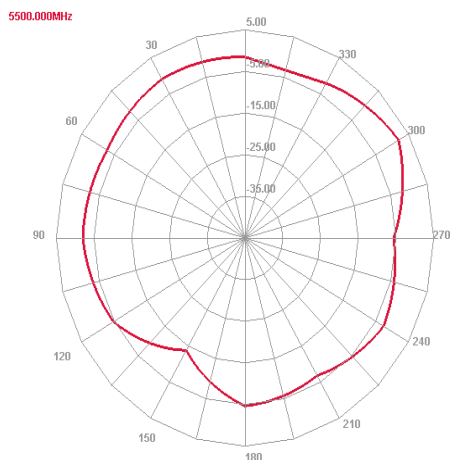
2D

2D

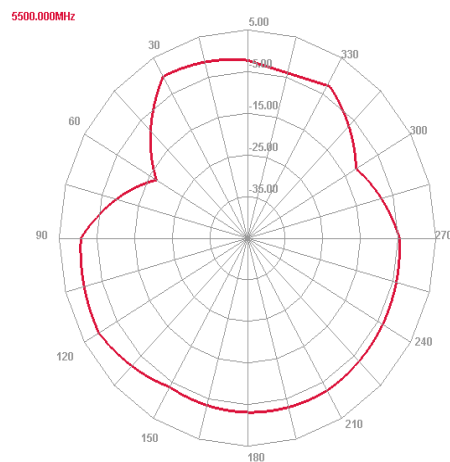
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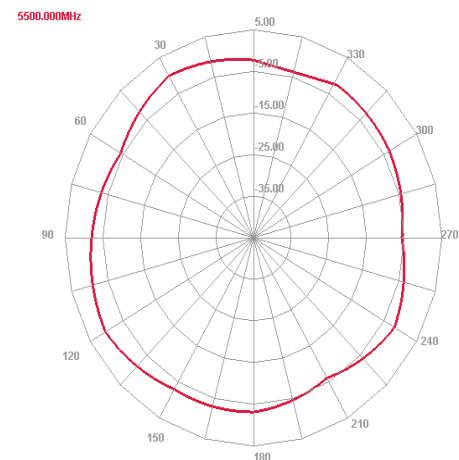
Horizontal



E1 Face



E2 Face



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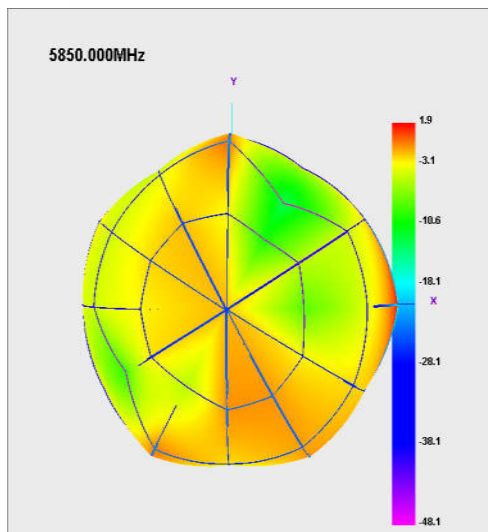
5850 MHz

3D

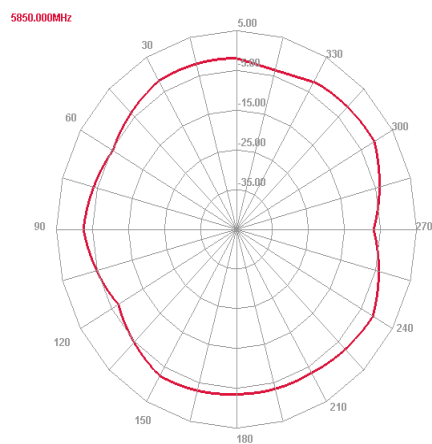
2D

2D

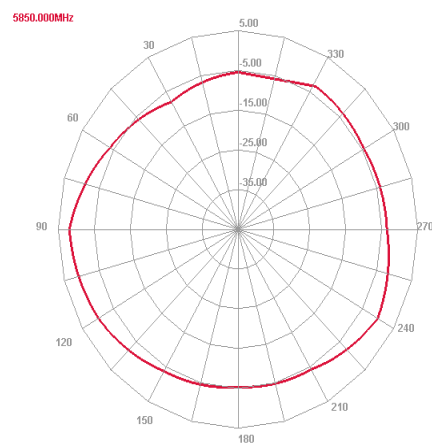
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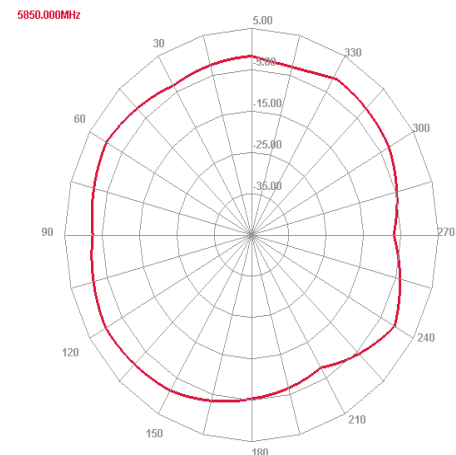
Horizontal



E1 Face



E2 Face



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Antenna Installation & Complete Unit Environment Processing



WIFI antenna placement position:
Install at the designated location as
shown in the figure.

WIFI天线贴此位置，
如图所示。

WIFI天线Cable线摆放方式，如图
所示。

WIFI antenna cable routing: Route the
cable as shown in the figure.



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Installation Notes

WIFI antenna alignment: Align to the right slot position
for proper positioning.

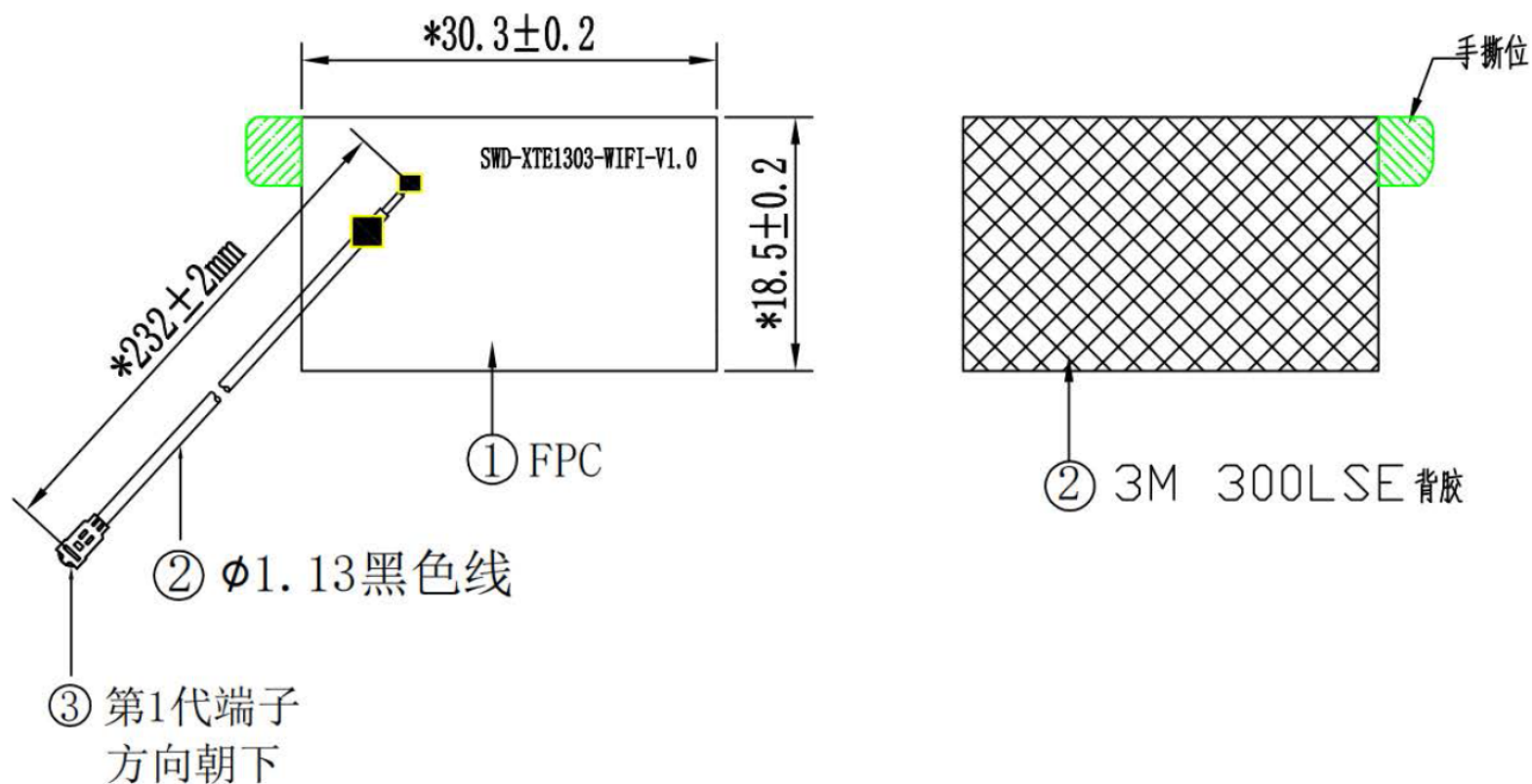




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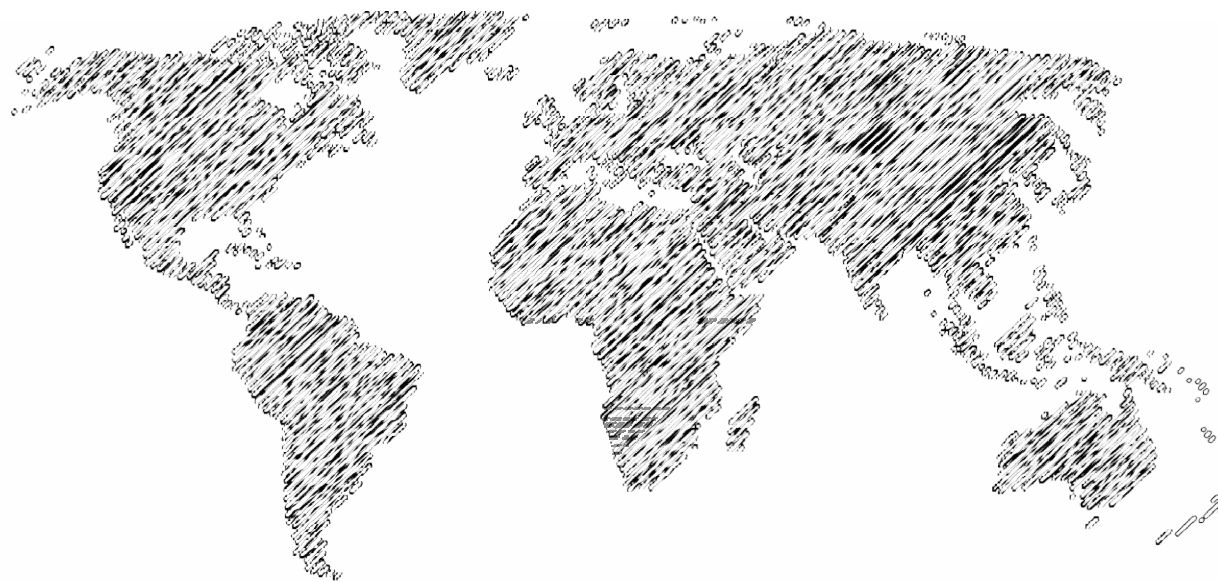


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联系我们 Contact us



Thanks

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