Shenzhen Lxc Electronics Technology Co ., Ltd

APPROVAL SHEET

RF by		**Checked by**	
ME by		**Date**	
Customer Confirm			

8Project:		Author:Wang	XLZ20250326001
Date: 2025-06-26			
TEST:	Language:	Check: Zhong	
A	English		
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Revision History

Date	Revision	Description of Changes
2025-06-26	RA	Measured with SUS301 sample.

1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the program. We test the antenna with the latest version handset. And it seems to be acceptable.

2 General Description

2.1 Components/Part revisions

VSWR: Voltage Standing Wave Rate.

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

4.1.1 VSWR

VSWR measurements (S11) were performed using an Agilent 8753D Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

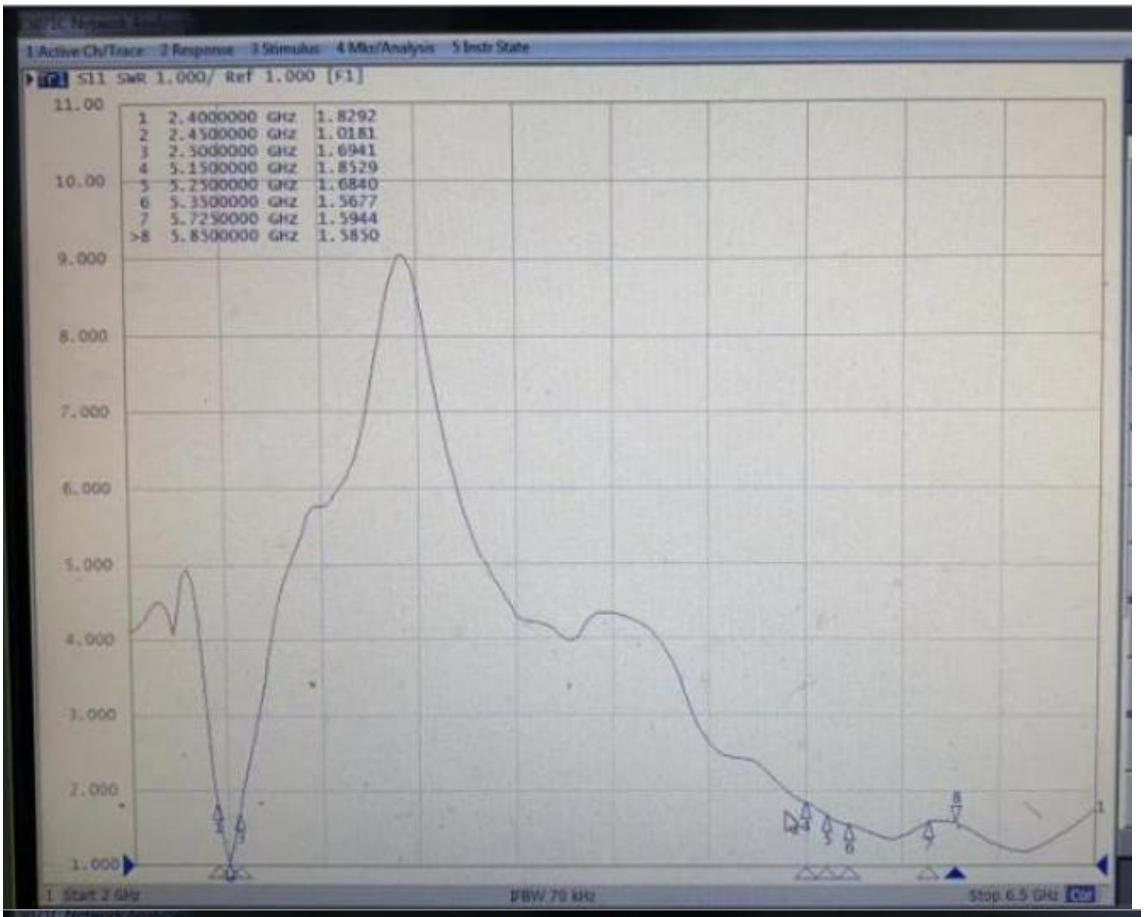
4.1.2 Gain & Radiation Patterns

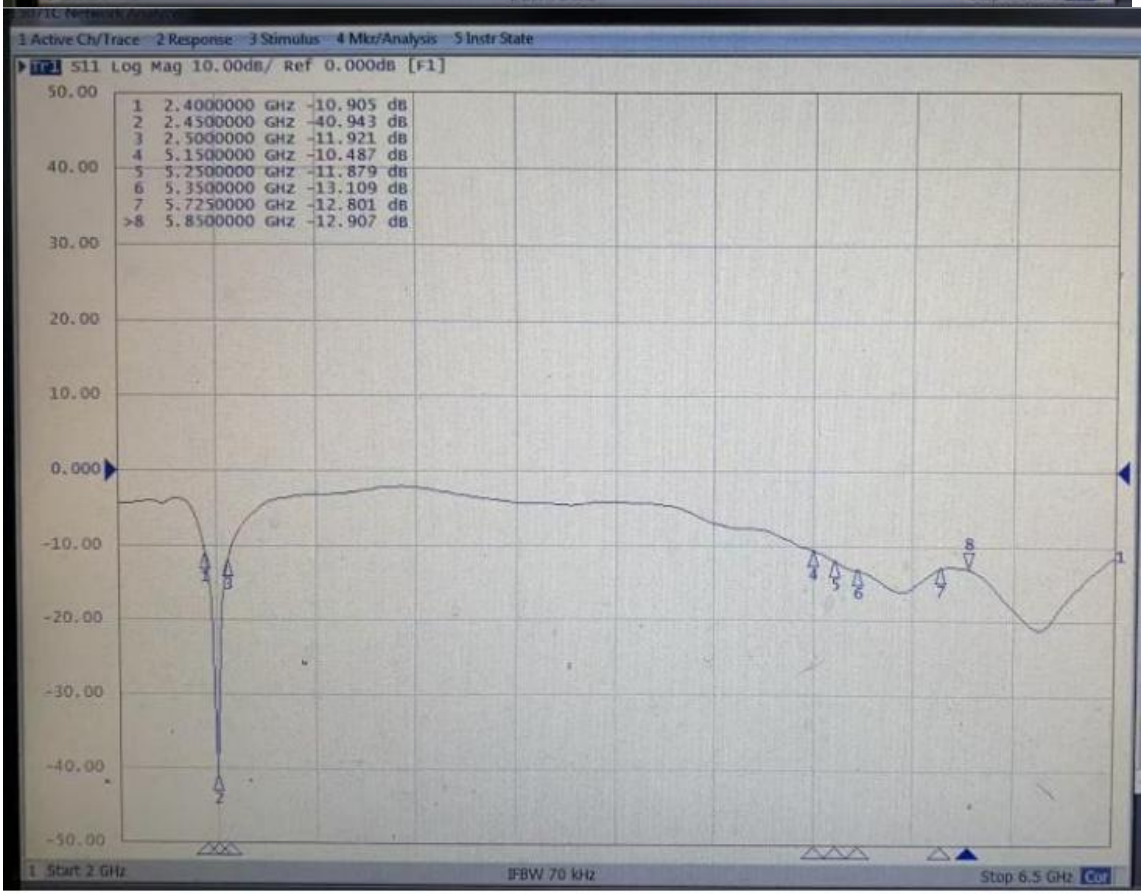
The gain of the antenna was measured in the Lxc's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than –30 dB reflectivity from 800 MHz through 3 GHz and an 18" diameter spherical quite zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

4.1.3 Matching Circuit Description

4.2 Measurement Data

4.2.1 Active result（WIFI）





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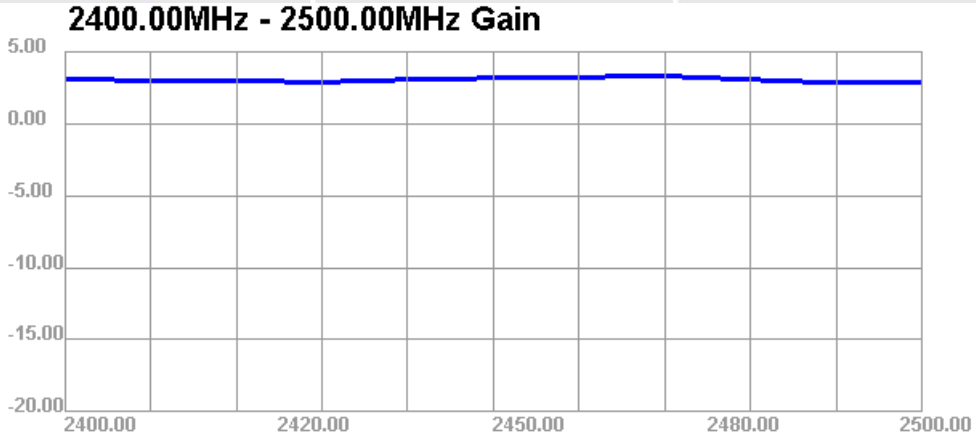
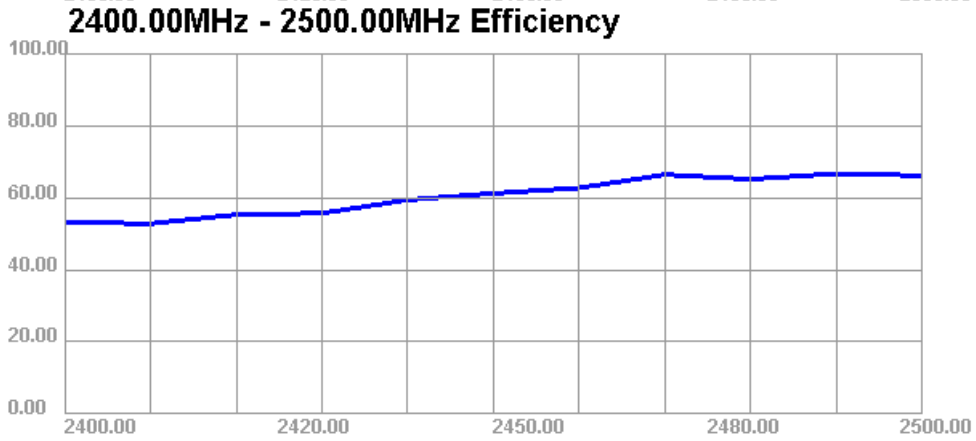
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	51.59	2.67
2410	51.72	2.66
2420	50.55	2.5
2430	50.26	2.36
2440	52.61	2.47
2450	53.09	2.2
2460	54.37	1.9
2470	54.77	1.41
2480	54.01	1.42
2490	51.7	1.34
2500	51.41	1.23





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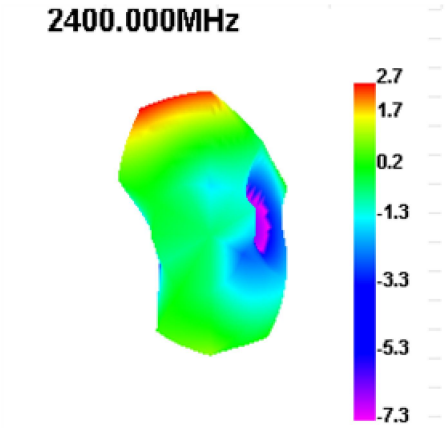

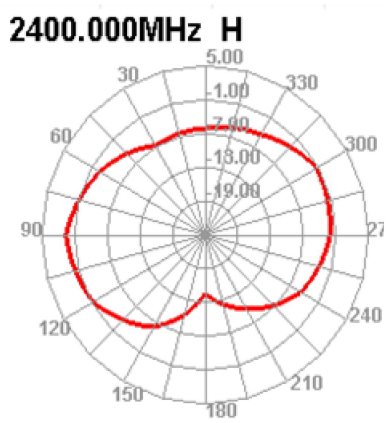

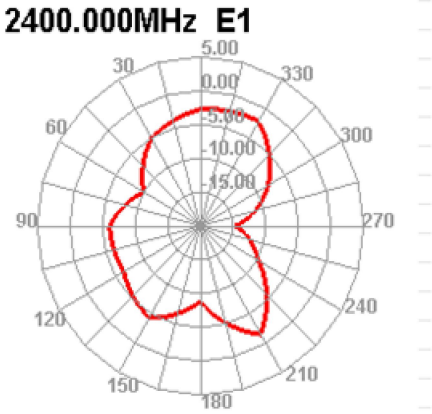

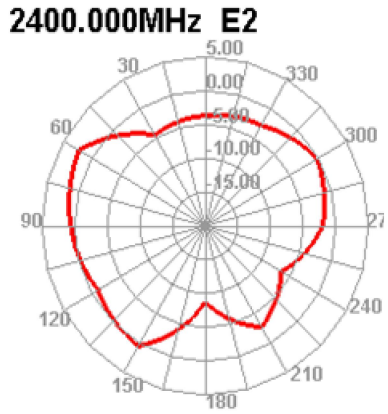

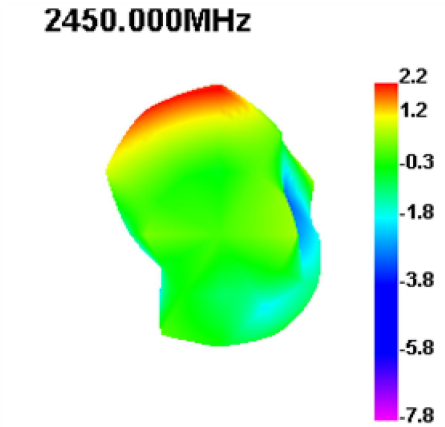

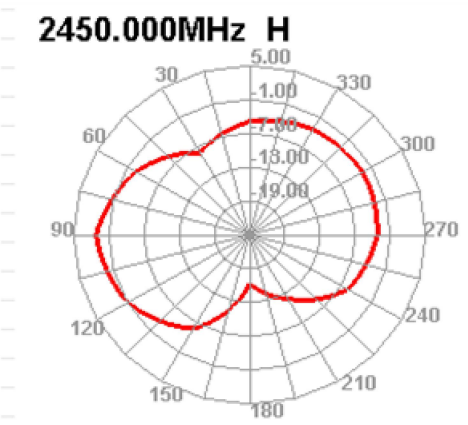

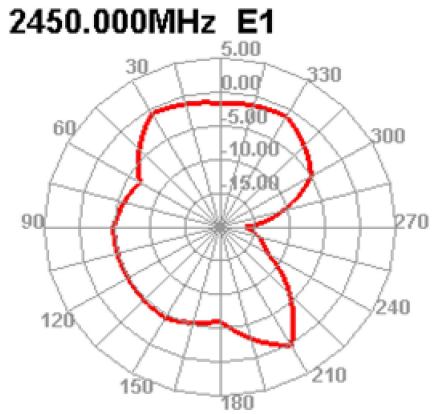

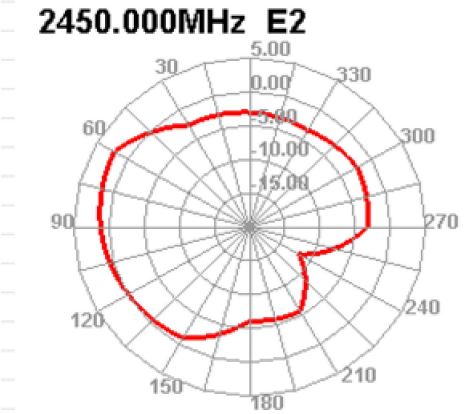

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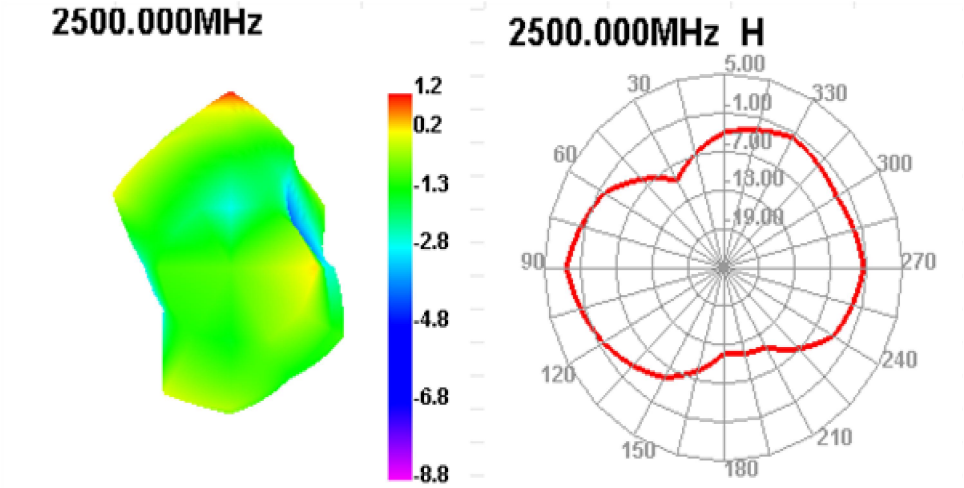
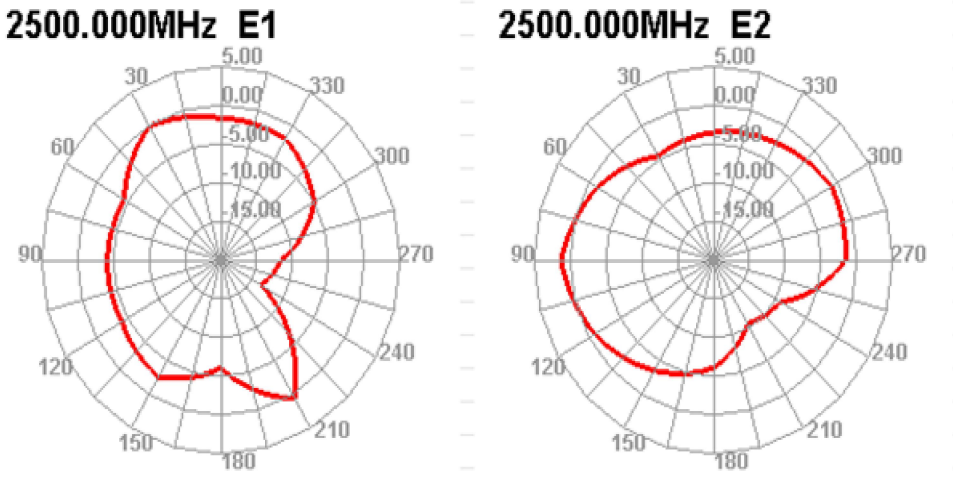
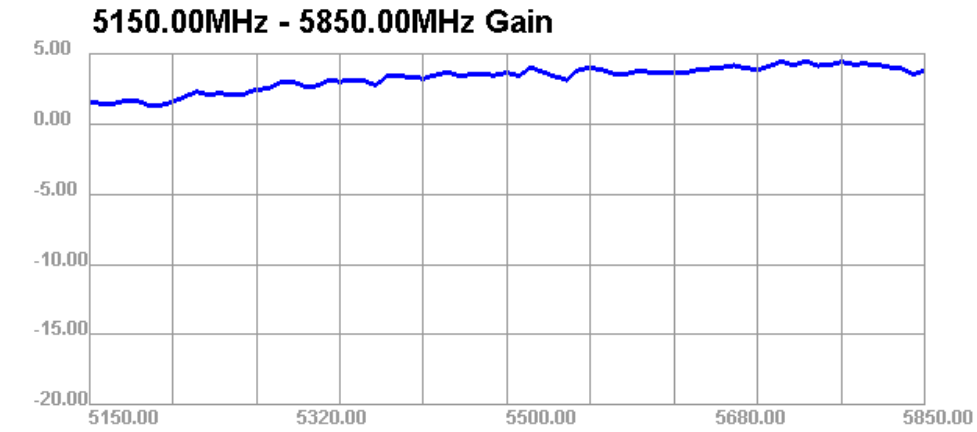
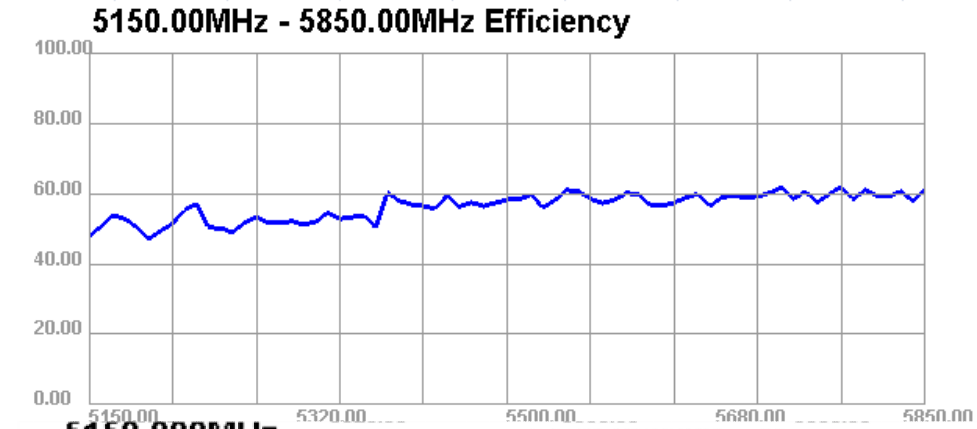
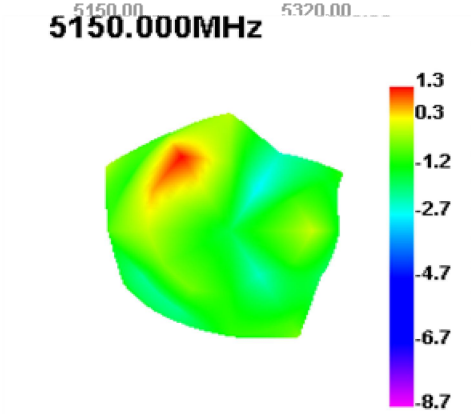


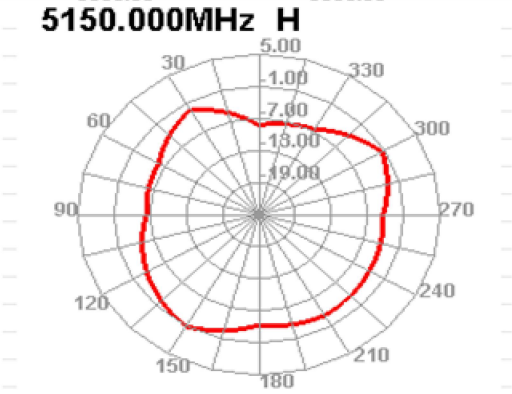


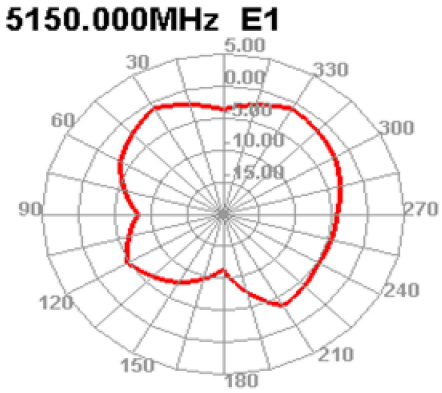
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	50. 95	1. 33
5350	52. 9	2. 23
5550	55. 89	1. 98
5650	51. 36	2. 62
5850	56. 45	2. 51

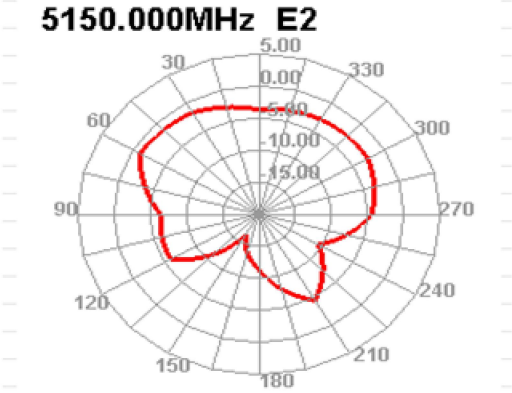












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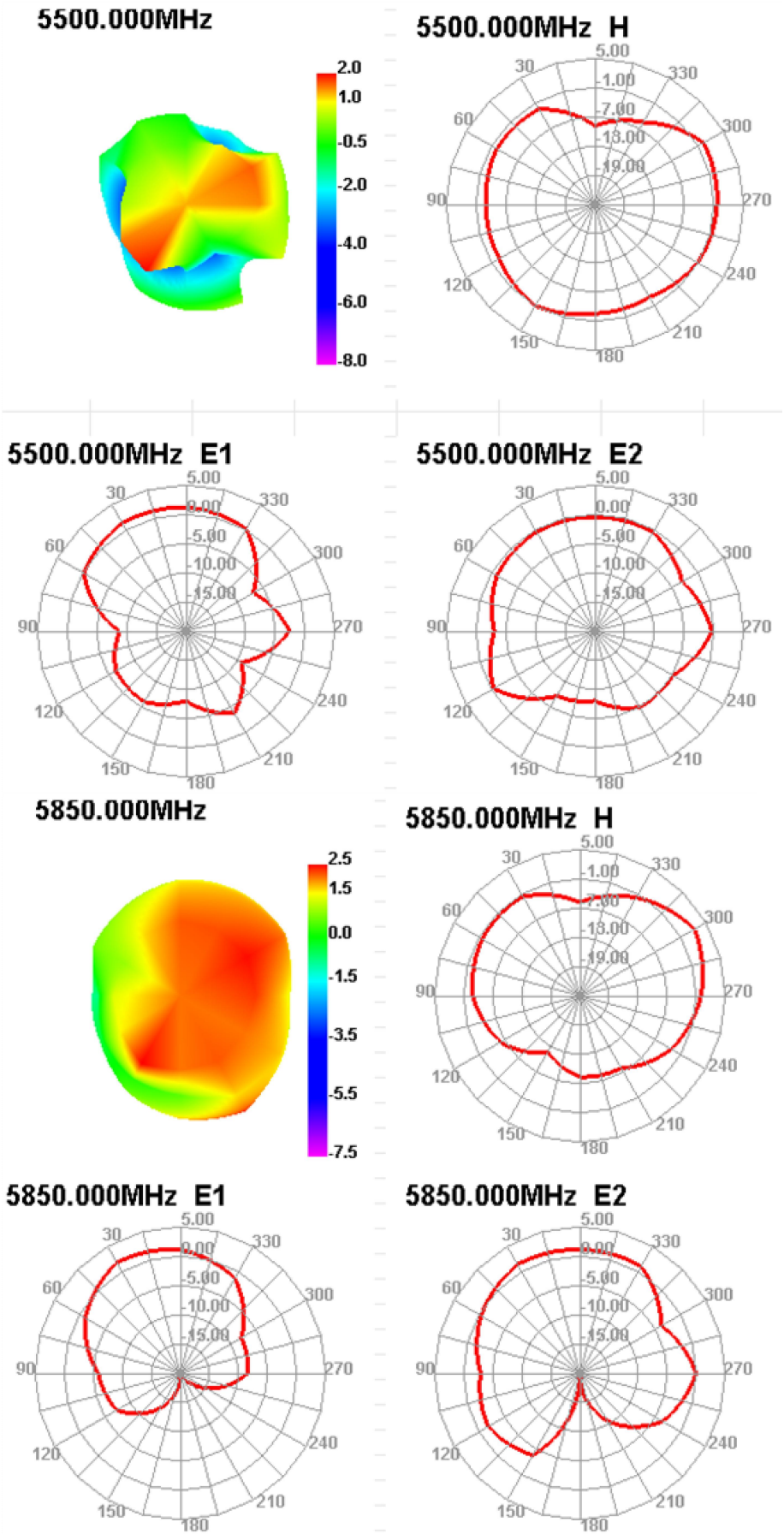

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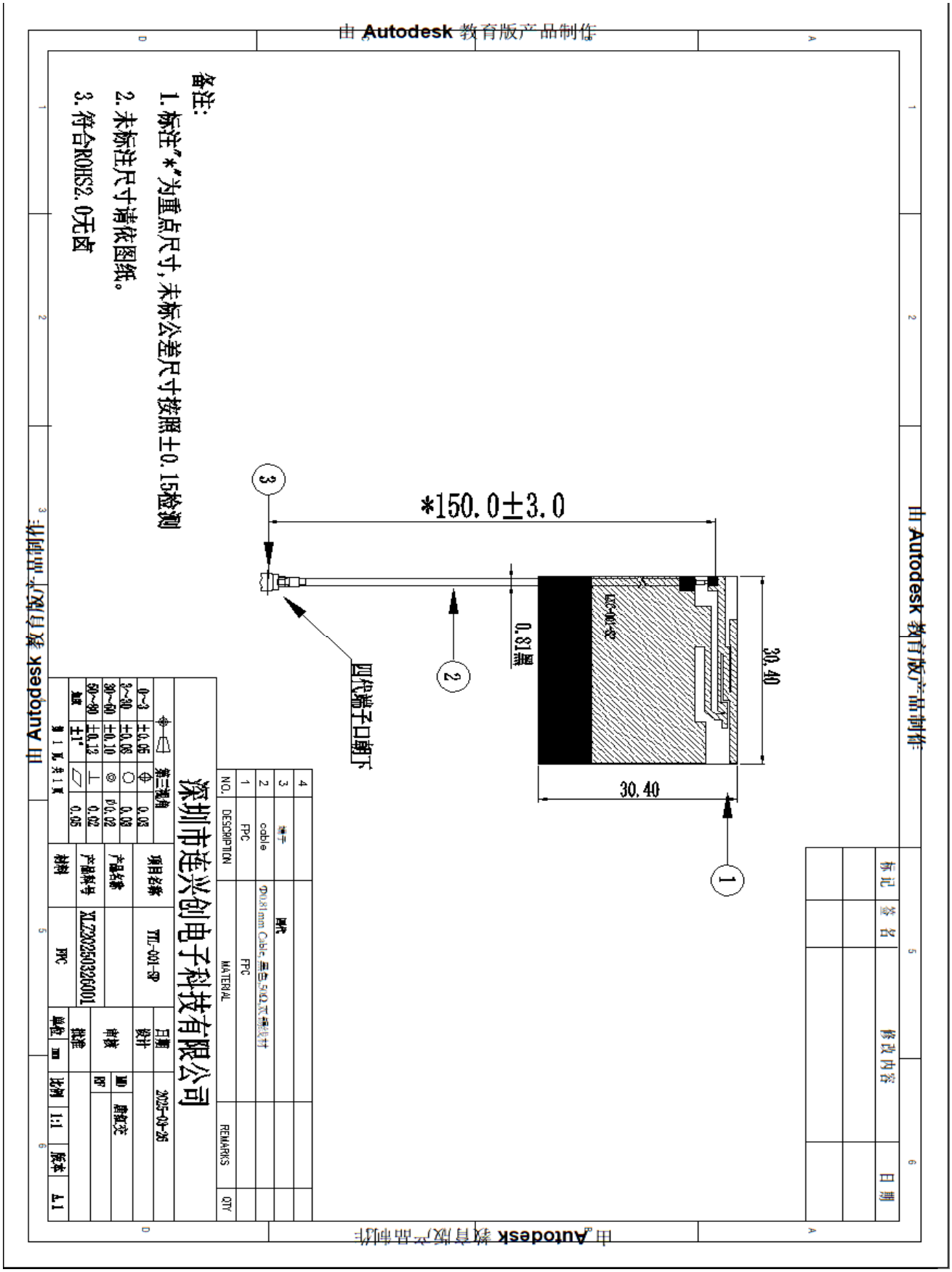
6 Mechanical drawing



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