



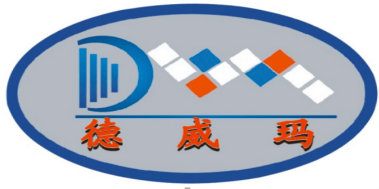
Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME (客户名称)	ShenZhen FLYSKY Technology Co.,Ltd
CUSTOMER P/N (客户料号)	FS-MG7-V1.2
PART NAME (品 名)	2.4G On-board antenna
DWM P/N (料 号)	
APPROVAL REV. 版次	

CONTRACTOR			DATE : 2022.6.6
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

CUSTOMER		DATE :
Approved By	Checked By	Prepared By



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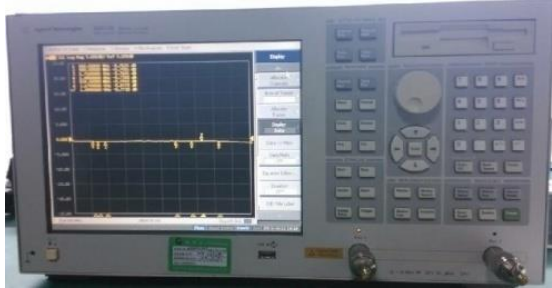
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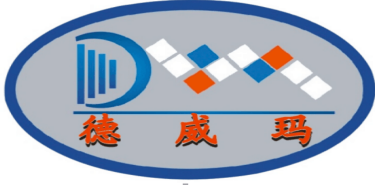
1. Product Application/产品应用

This antenna product is used for the transmission of 2400~2500MHz signals.

该天线产品用于 2400~2500MHz 信号的传输。

2. The test environment, equipment/测试环境、设备

Item 项目	Description 项目描述	Test Condition/测试条件	Requirement /规格要求
2.1	Passive testing /无源测试	<p>The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurement Cable → Customer-providing Devices. (VSWR 测量装置依次连接：网络分析仪测量电缆 agilent5071B→→客户提供终端。)</p>	<p>Standing wave ratio 驻波比： 2400~2500MHz<2.0 impedance 阻抗： 50 ohm</p>
		Test equipment/测试设备	
			
Item 项目	Description 项目描述	Test Condition/测试条件	Requirement /规格要求
2.2	增益及 效率测试	<p>Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances. (以下图片显示的天线的测量条件被放在测量装置，它是用于所有的测量电性能。)</p>	<p>Antenna gain 天线增益： 2400~2500MHz:0.5dBi±1dBi Antenna efficiency 天线效率： 2400~2500MHz>25%</p>



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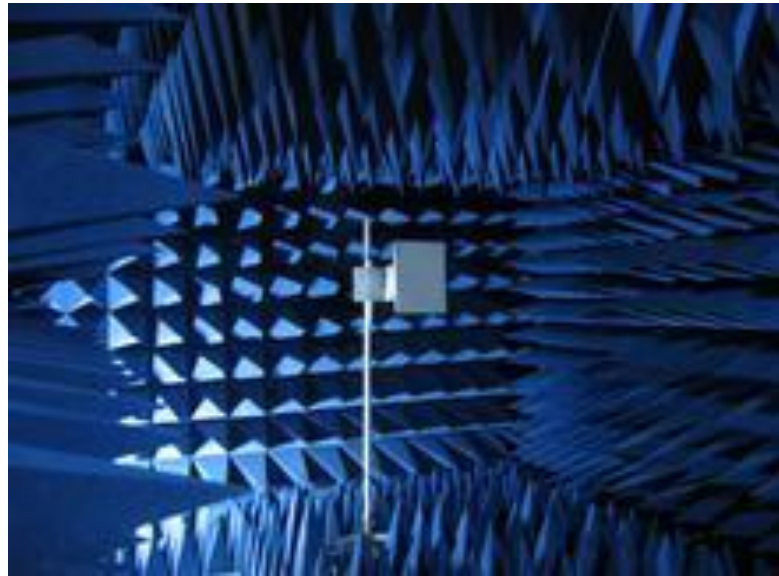
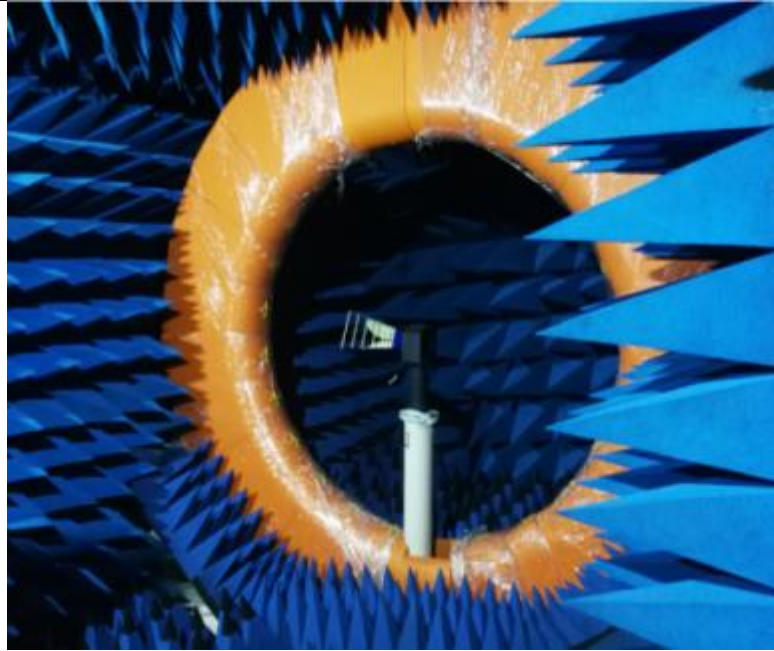
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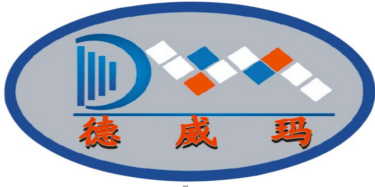
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Test equipment/测试设备

2.3

Microwave
Anechoic
(Satimo&ETS
)
/微波暗室





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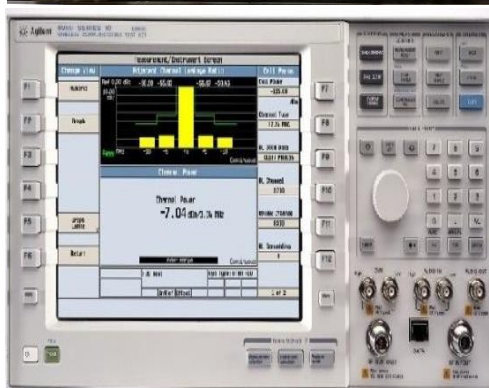
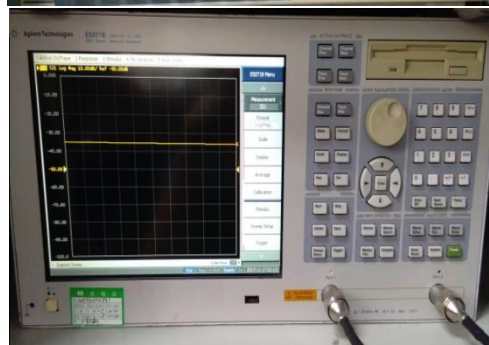
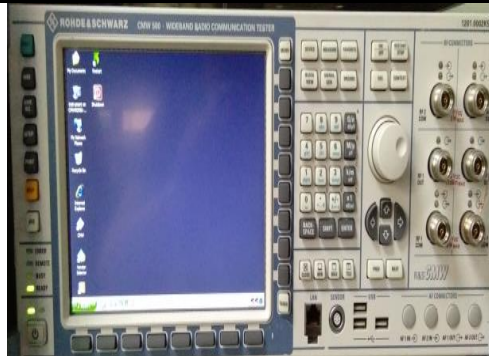
CMW500

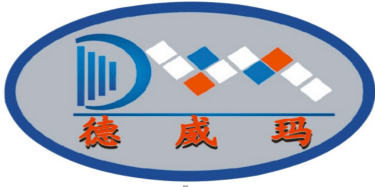
Agilent5071B

2.4

AgilentE4405B

Agilent8960





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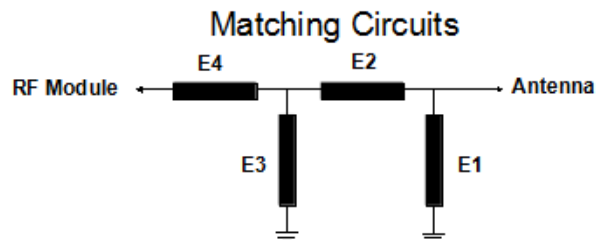
3. Technology Parameters/技术参数

Frequency Range/频率范围: 2400-2500MHz
 Operating Humidity/工作湿度: 85% R.H.MAX
 Temperature Rating/温度范围: -40°C~+85°C

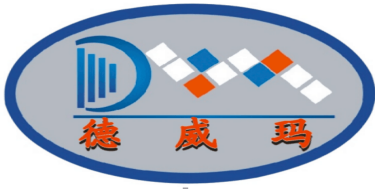
3.1 The matching test value/调试匹配值

我司没有对天线的匹配电路做调试

Element	Value
E1(0402)	
E2(0402)	
E3(0402)	
E4(0402)	



3.2 VSWR/驻波比:



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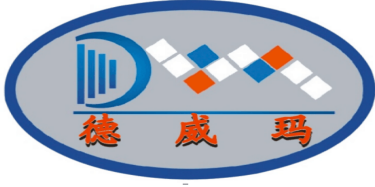
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3.3. Efficiency And Gain/效率和增益

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-5.2	30.2	0.45
2410	-5.34	29.24	0.38
2420	-5.12	30.76	0.76
2430	-5.28	29.65	0.39
2440	-5.52	28.05	-0.14
2450	-5.33	29.31	-0.15
2460	-5.2	30.2	-0.13
2470	-5.4	28.84	-0.29
2480	-5.34	29.24	-0.08
2490	-5.18	30.34	-0.19
2500	-5.35	29.17	-0.55



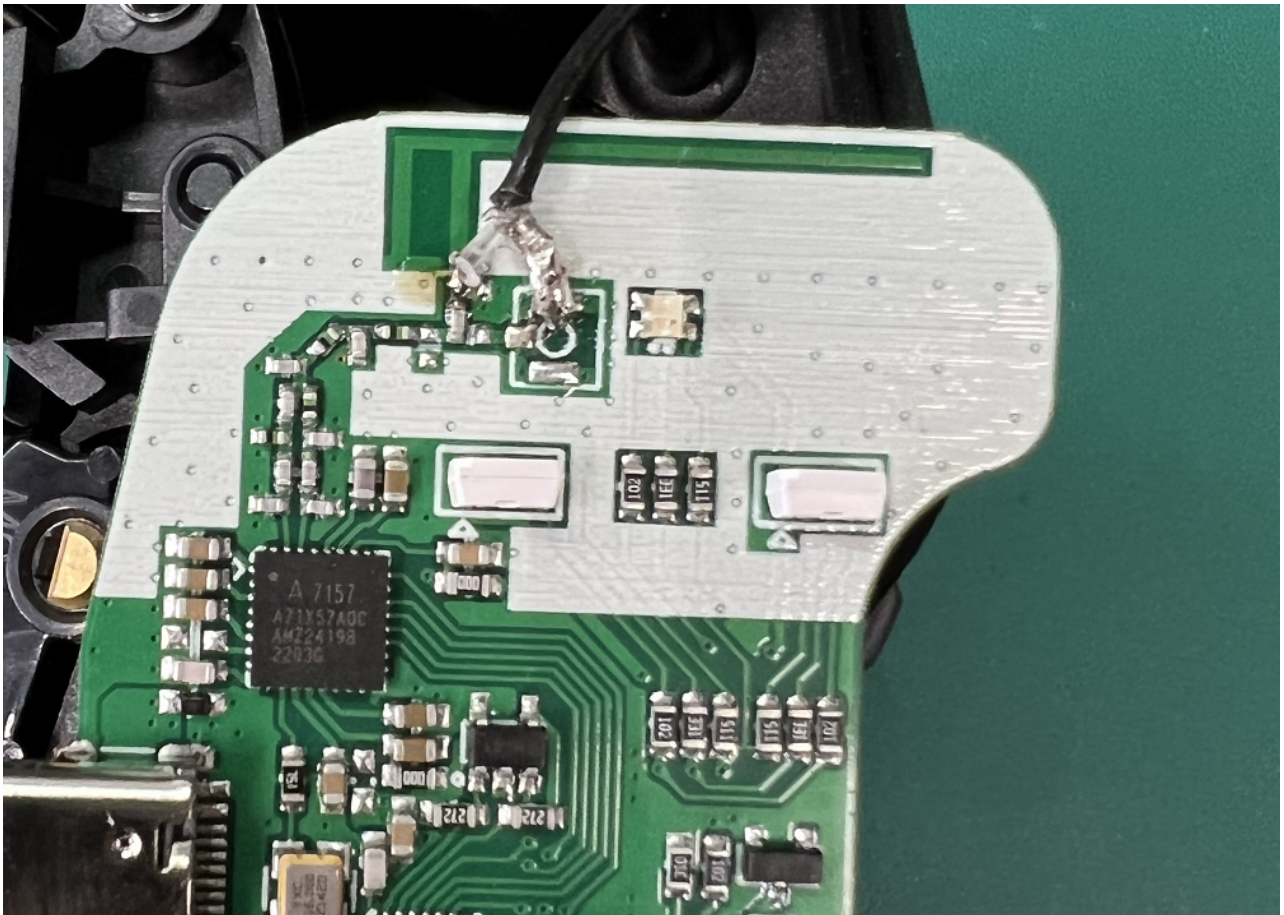
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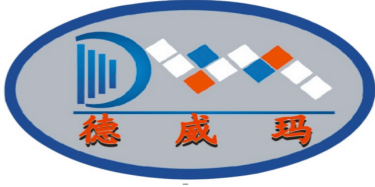
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3.4.Product Picture/产品实物图片





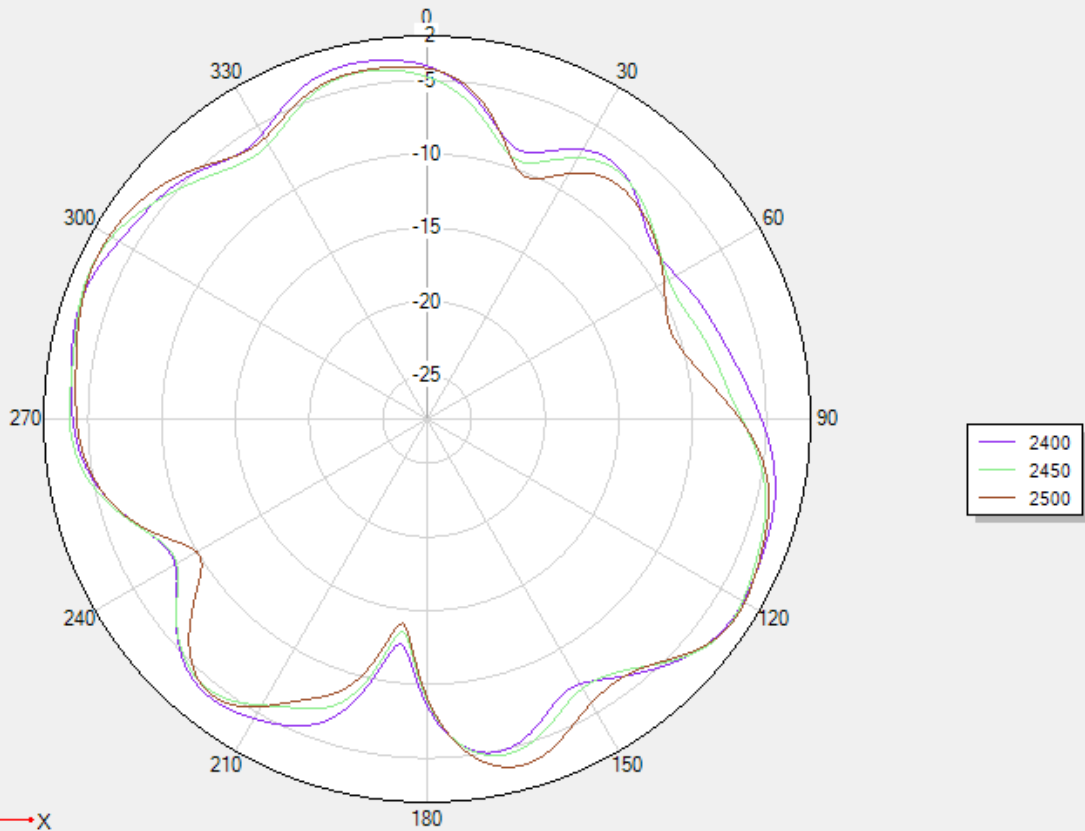
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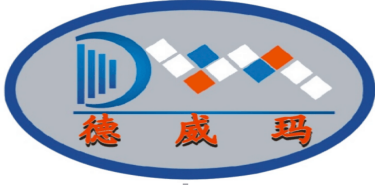
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4.1 2D/3D Pattern/2D/3D 方向图:





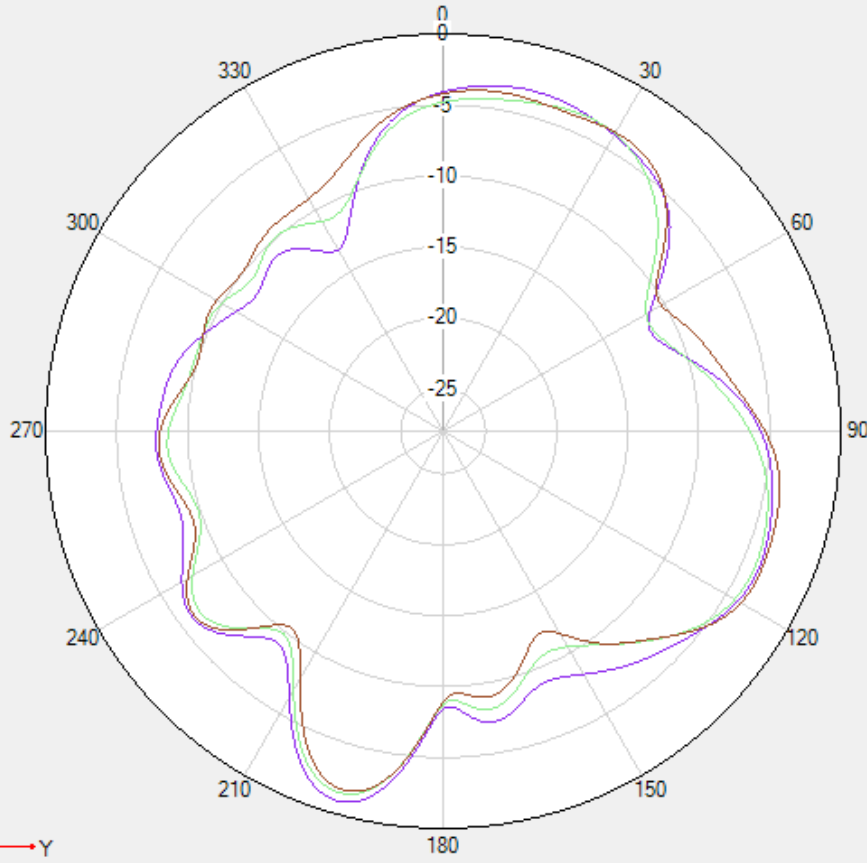
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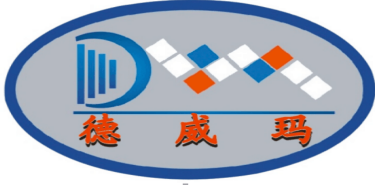
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— 2400
— 2450
— 2500



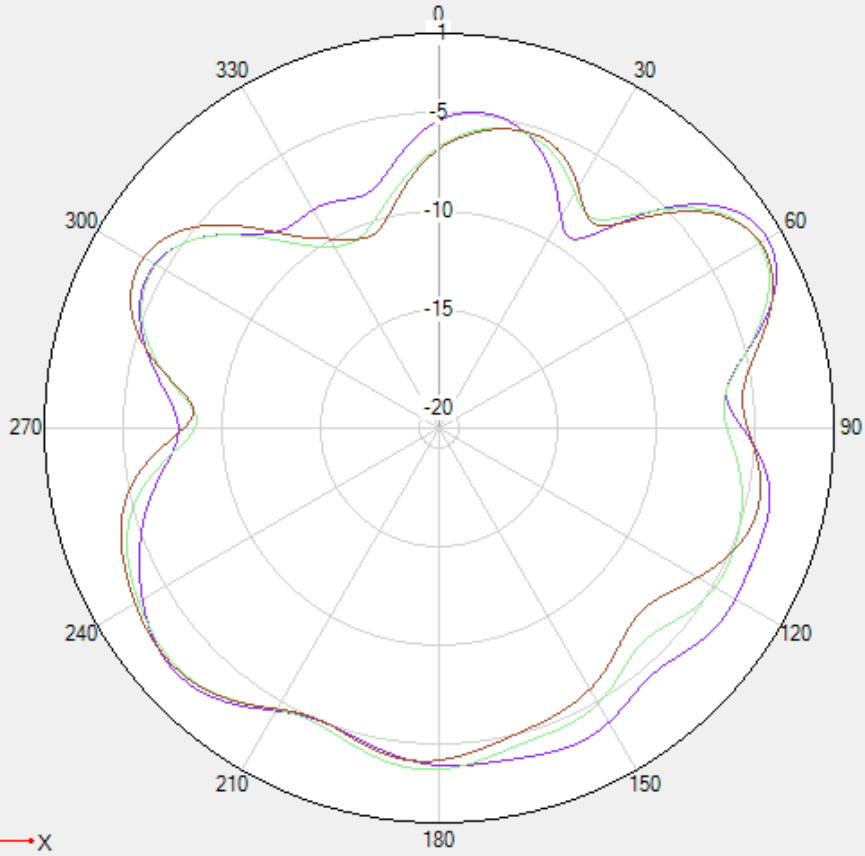
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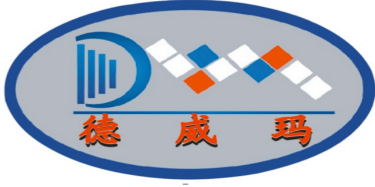
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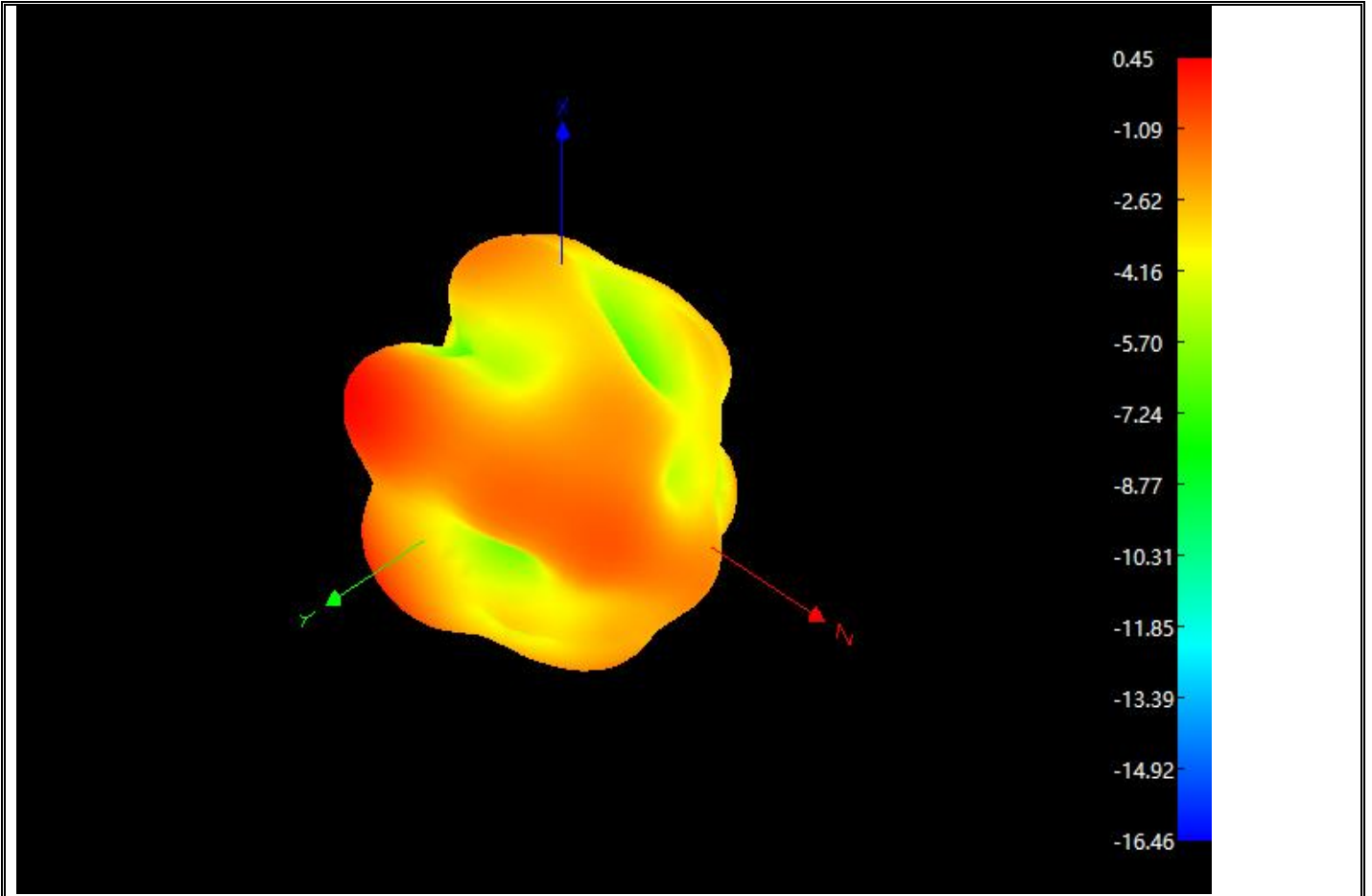


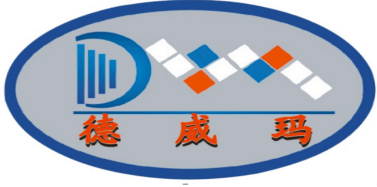
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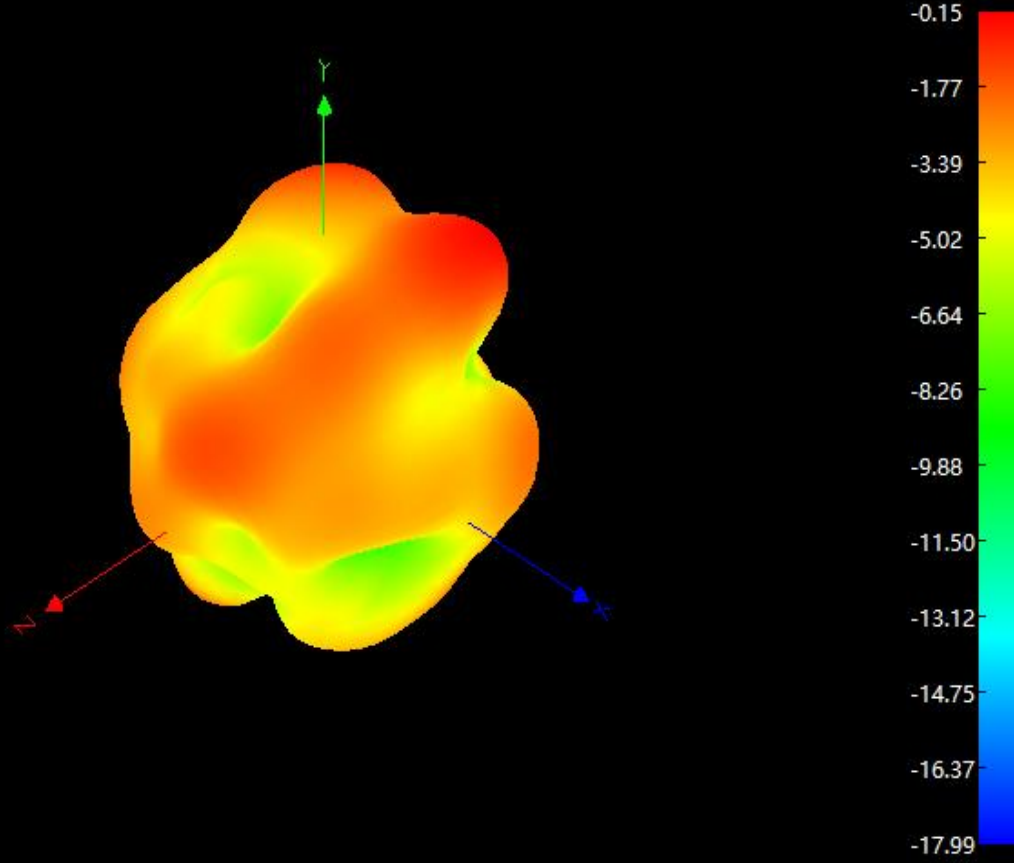


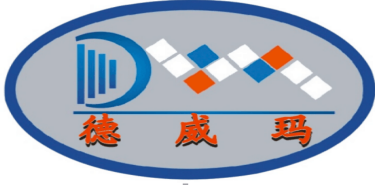
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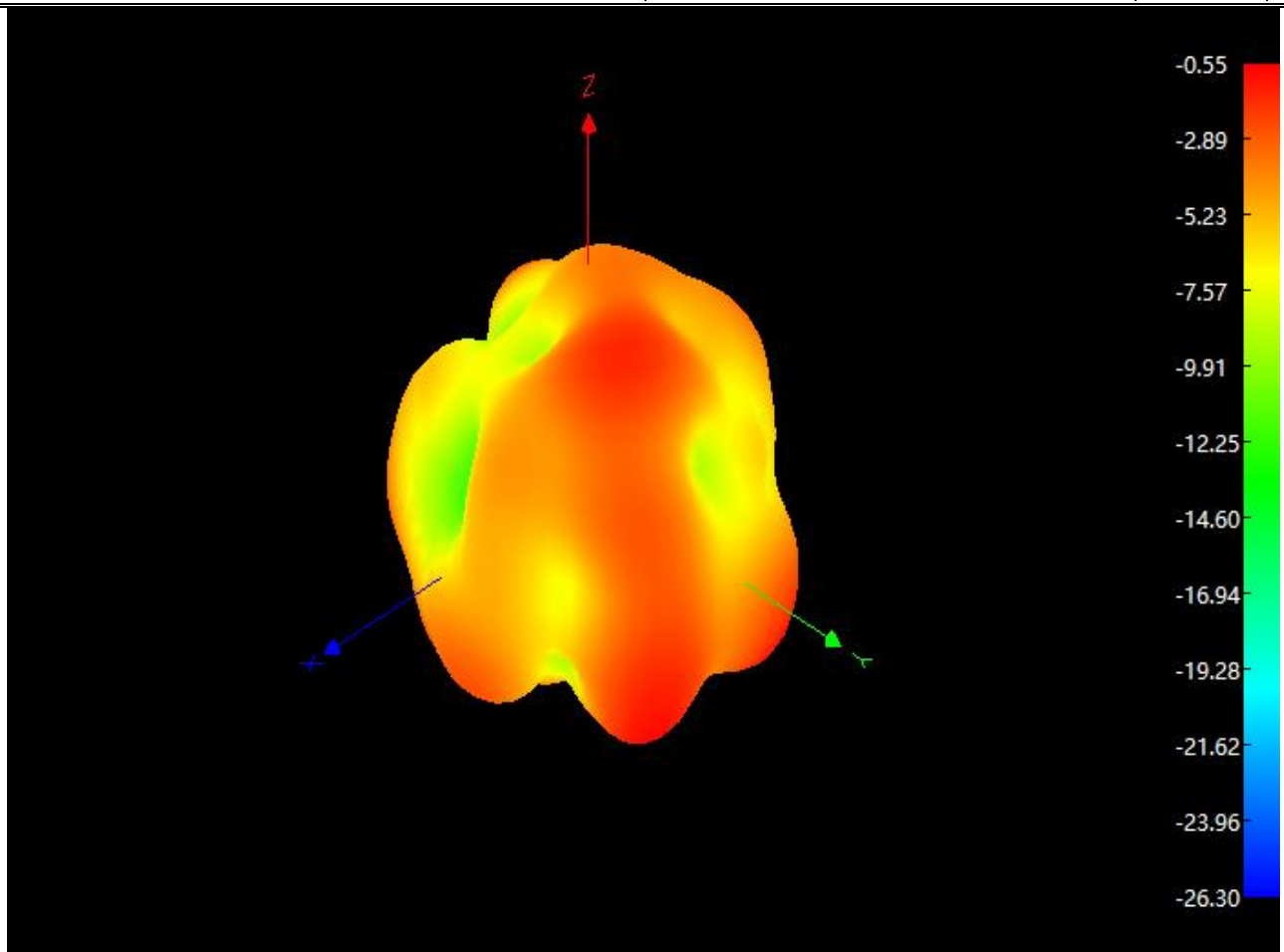
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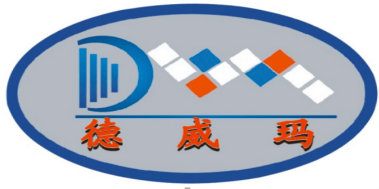
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5.Environmental Performance/环境性能

Item 项目	Description 项目描述	Test Condition 测试条件	Requirement 规格要求
5.1	High and low temperature test 高低温测试	Temp.: -40 °C Time: 48 hours Temp.: 85°C Time: 48 hours	1. No visible damage. (无可见损伤) 2. The electric performances reach the standard. (电气性能达标)
Item 项目	Description 项目描述	Test Condition 测试条件	Requirement 规格要求



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5.2	Salt Spray 盐雾测试	<p>5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1℃ Time:24 hours</p>	<p>1. No color change. (无颜色变化) 2. the appearance of the antenna does not flake off. (天线无外观脱落)</p>
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6.Usage Precaution/使用禁忌或注意事项

No	Items 项目	Matter 事项
6.1	Precautions 禁忌	<p>a)Please avoid the cleaning of this product a)请避免清洁此产品</p>
6.2	Stockpile condition 存储条件	<p>Use this product within 6 months after receipt Condition : Temp: 5~30℃ Humidity:≤70%</p> <p>有效期：请在产品接收后的 6 个月内使用 存储环境：温度:5~30℃； 湿度:≤70%</p>