深圳旭航通讯科技有限公司

Shenzhen Xuhang Communication Technology Co., Ltd

规格承认书

客户 CUSTOMER	深圳市一路客科技有限公司
客户料号 CUSTOMER NO.	
供方品名 PART NAME	双频 WIFI 天线
规格名称 SUPPLIER NO.	XH240083-B

客户确认 CUSTOMER APPROVED BY		
检验 APPROVAL	审核 CHIEF	批准 SUPERVISOR

设计 DESIGN	审核 CHECK	批准 APPROVAL
Luo	Robert	SHANG

Date:June 14,2024

Address:Room 105, Building 1, Evergrande Fashion Wisdom Valley Plaza, Adjacent to Fulong Road, Shanghenglang Community, Dalang Street, Longhua District, Shenzhen

DIRECTORY

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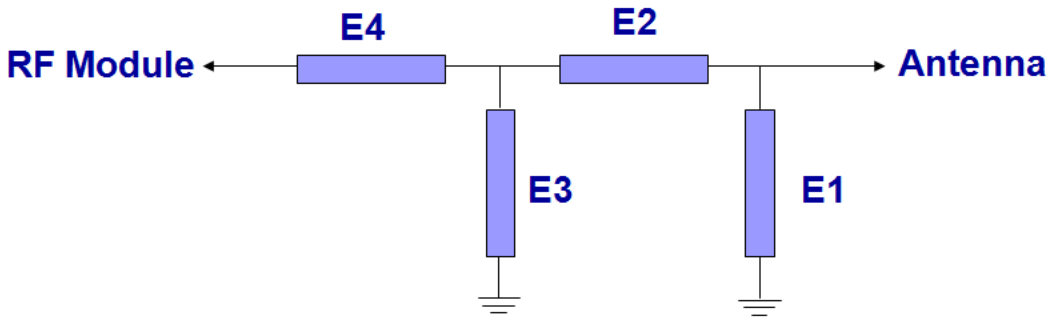
电性测试报告
TEST REPORTS

频率 Frequency	WIFI(2400~2500MHz;5150~5850MHz)
阻抗 Impedance	50 0hm Nominal
驻波比 V.S.W.R	≤2.0
回波损耗 Return Loss	-10dB Max
辐射 Radiation	Omni-directional
增益 Gain(Peak)	2.4G：4.56dBi 5G：2.98dBi
极化方式 Polarization	Linear,Vertical
功率 Admitted Power	1W
连接器 Connector	I-PEX I
Physical Properties	
天线材质 Antenna Material	FPC
线材类型 Cable Type	O.D.1.13mm
工作温度 Operating Temp.	-10-+60℃
存储温度 Storage Temp.	-10-+70℃
线材颜色 Cable Color	Black

匹配电路

Matching Circuits



匹配电路

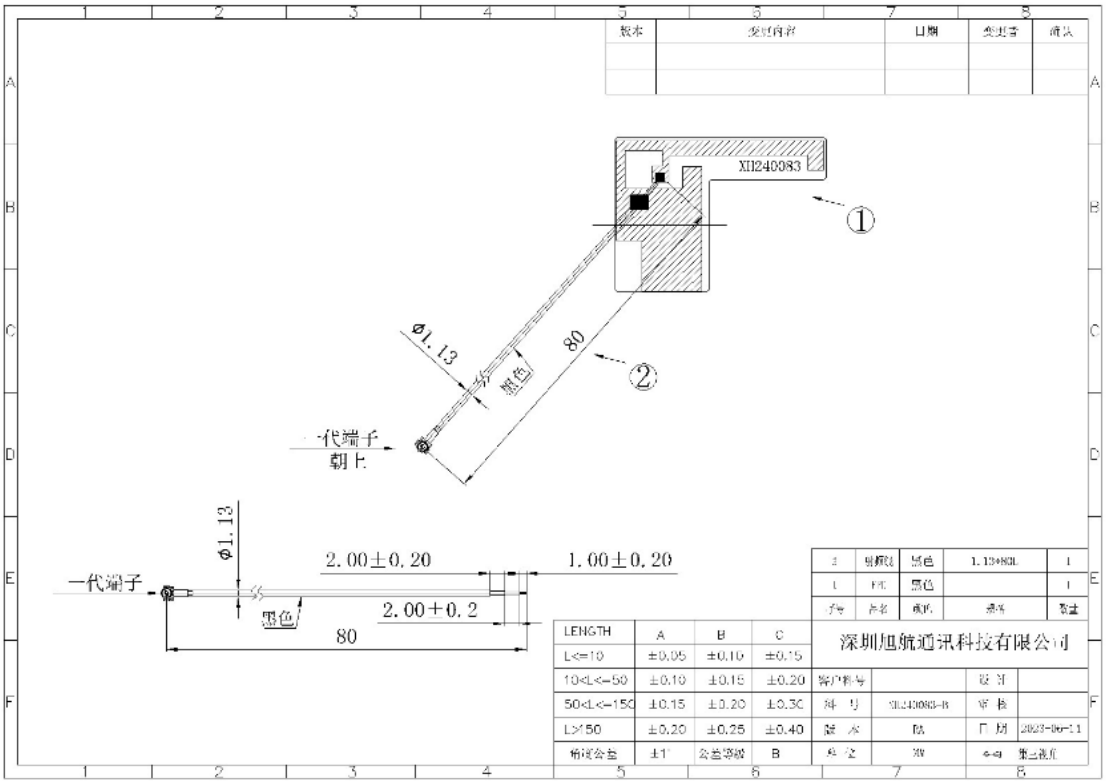
Element	Value	Vender
E1(0402)		
E2(0402)	0Ω	
E3(0402)		
E4(0402)	0Ω	

原匹配电路无修改

The original matching circuit has not been modified

工程图

DRAWING



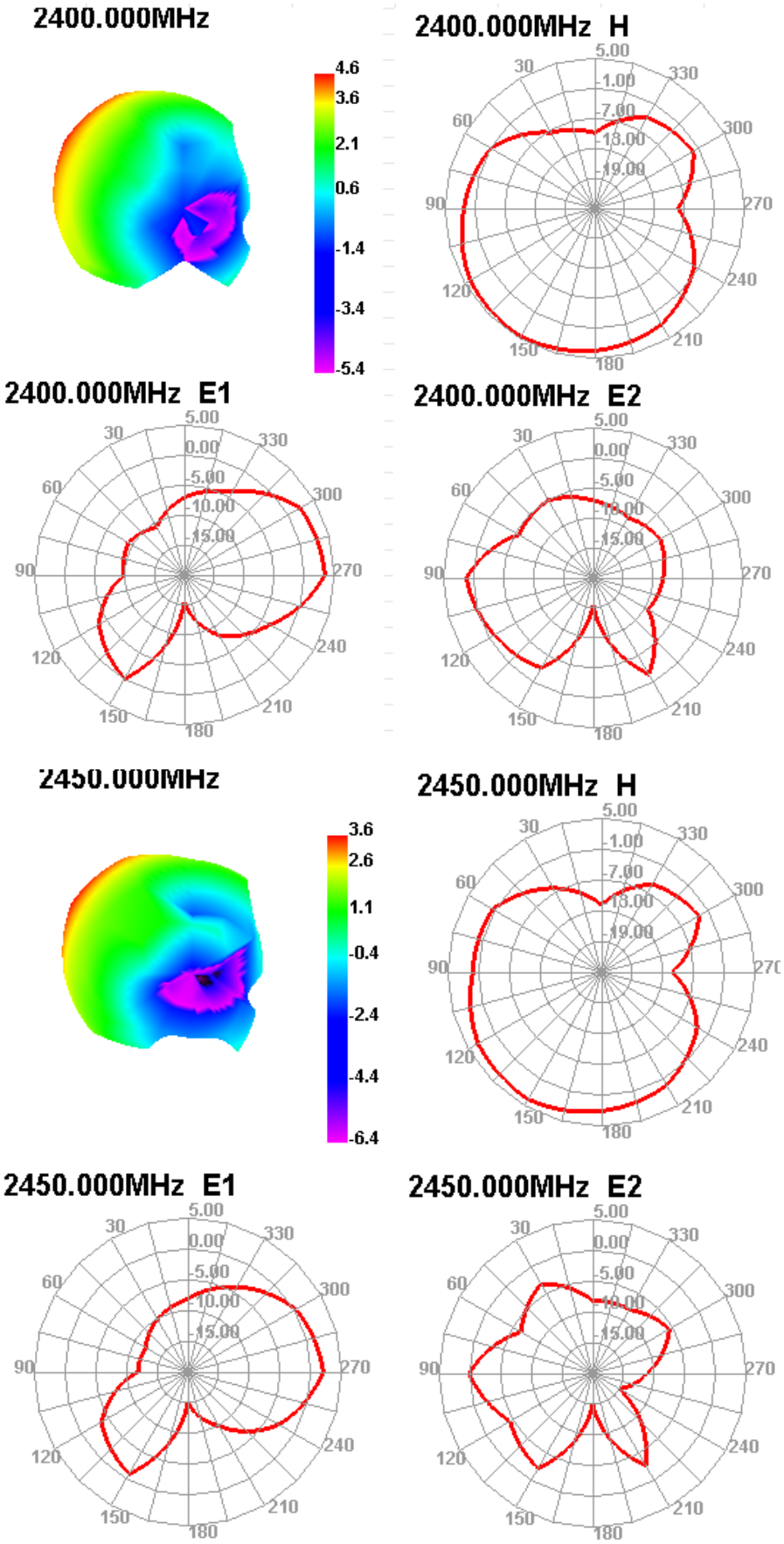
测试数据

Test Data

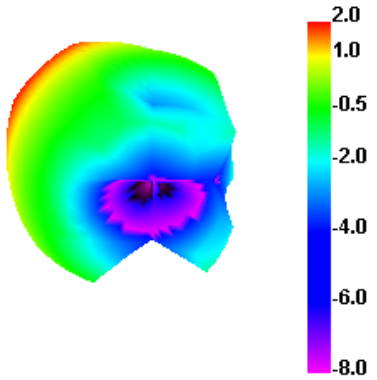
Freq (MHz)	Effi (%)	Gain (dBi)
2400	65.69	4.56
2410	57.79	3.57
2420	55.08	3.25
2430	56.87	2.9
2440	52.96	3.37
2450	53.39	3.58
2460	55.85	3.75
2470	58.17	3.52
2480	60.43	2
2490	62.34	2.56
2500	58.89	2.02

Freq (MHz)	Effi (%)	Gain (dBi)
5150	47.58	-1.4
5550	53.7	1.57
5850	57.02	2.98

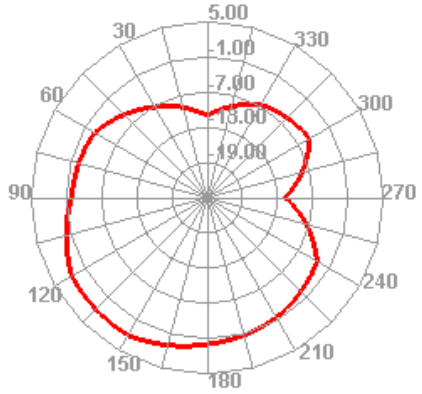
3D 方向图


2400.000MHz
4.6
3.6
2.1
0.6
-1.4
-3.4
-5.4
2400.000MHz H
2400.000MHz E1
2400.000MHz E2
2450.000MHz
3.6
2.6
1.1
-0.4
-2.4
-4.4
-6.4
2450.000MHz H
2450.000MHz E1
2450.000MHz E2

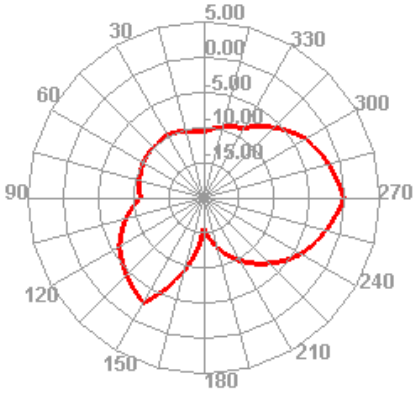
2500.000MHz



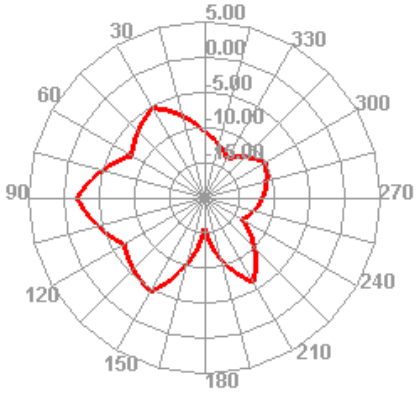
2500.000MHz H



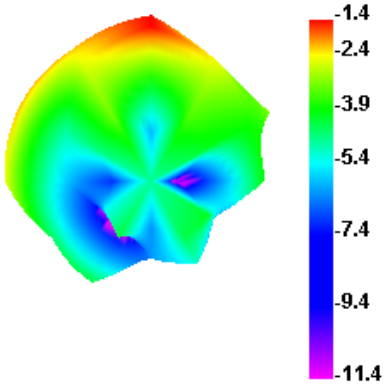
2500.000MHz E1



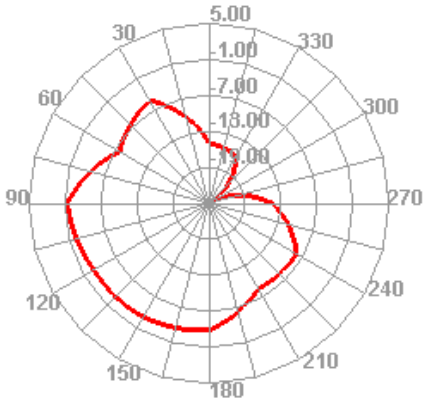
2500.000MHz E2



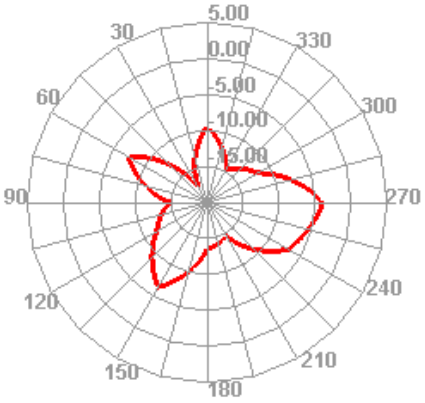
5150.000MHz



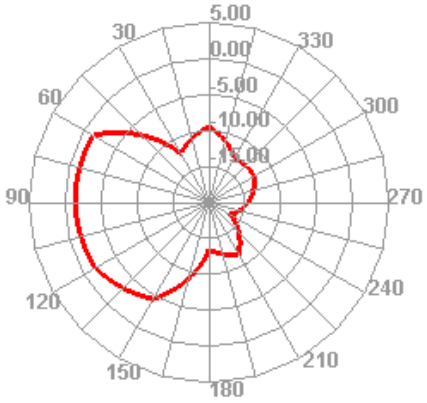
5150.000MHz H



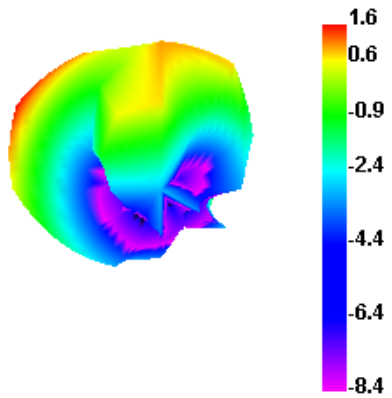
5150.000MHz E1



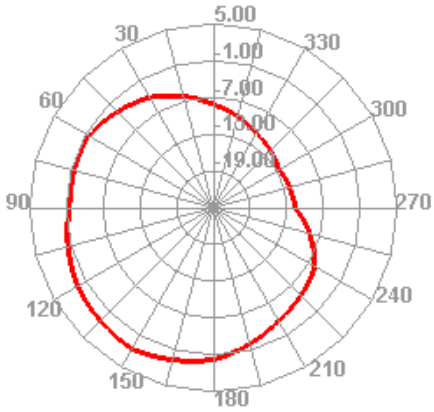
5150.000MHz E2



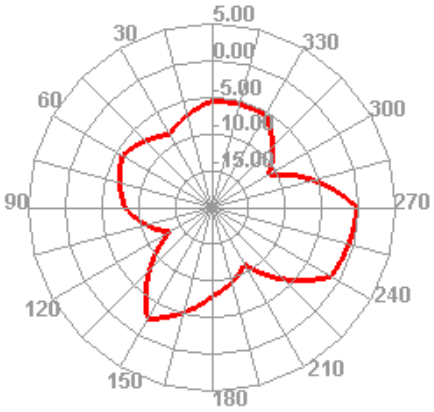
5550.000MHz



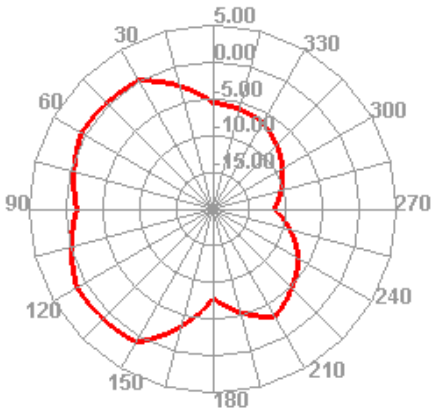
5550.000MHz H



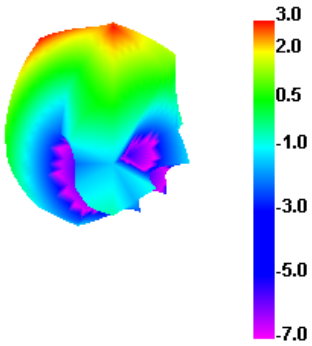
5550.000MHz E1



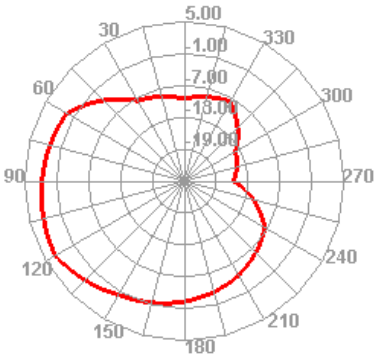
5550.000MHz E2



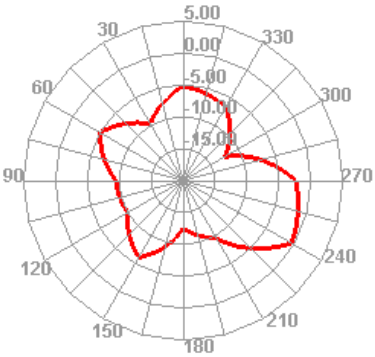
5850.000MHz



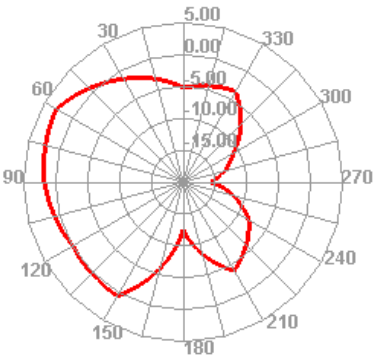
5850.000MHz H



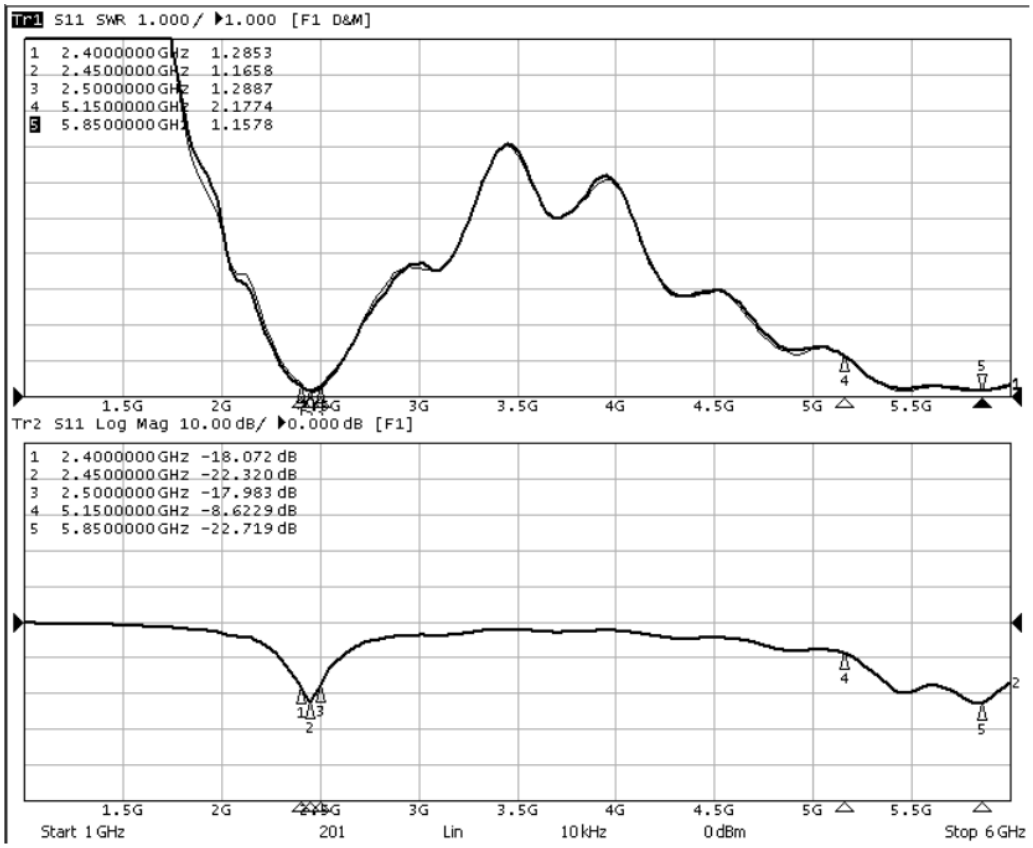
5850.000MHz E1



5850.000MHz E2



无源驻波


Tr1 S11 SWR 1.000/ ▶1.000 [F1 D&M]
1 2.4000000GHz 1.2853
2 2.4500000GHz 1.1658
3 2.5000000GHz 1.2887
4 5.1500000GHz 2.1774
5 5.8500000GHz 1.1578
1.5G 2G 2.5G 3G 3.5G 4G 4.5G 5G 5.5G
Tr2 S11 Log Mag 10.00dB/ ▶0.000dB [F1]
1 2.4000000GHz -18.072dB
2 2.4500000GHz -22.320dB
3 2.5000000GHz -17.983dB
4 5.1500000GHz -8.6229dB
5 5.8500000GHz -22.719dB
1.5G 2G 2.5G 3G 3.5G 4G 4.5G 5G 5.5G
Start 1GHz 201 Lin 10kHz 0dBm Stop 6GHz