

深圳有力科技有限公司

ShenZhen Powerful Technology CO., Limited

規 格 书

SPECIFICATION FOR APPROVAL

客 户

CUSTOMER: JACS

客 户 料 号

CUSTOMER NO:

品 名

PART NAME: WIFI-1天线：FPC黑色/加补强0.1mm/2代端子/0.81黑线 L=52MM

供 方 料 号

SUPPLIER NO: YL1653-WIFI-1-V4-L52

日期 Date: 2026.9.7

客户确认 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
赵旋旋	陈娜	张洋

实验室测试环境及设备 Laboratory Testing Environment and Equipment



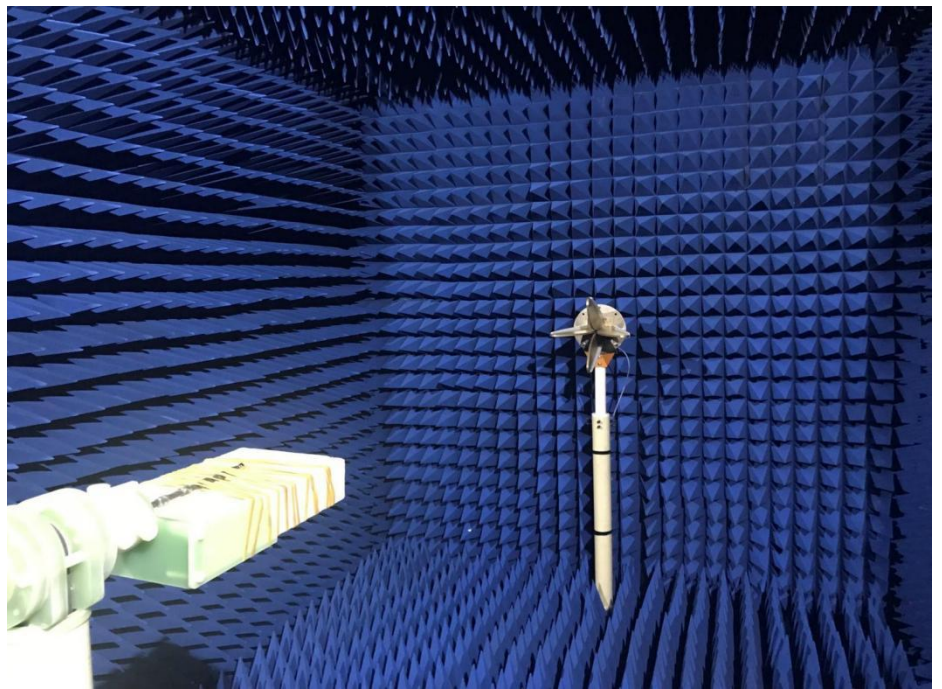
CMW500



E5071B



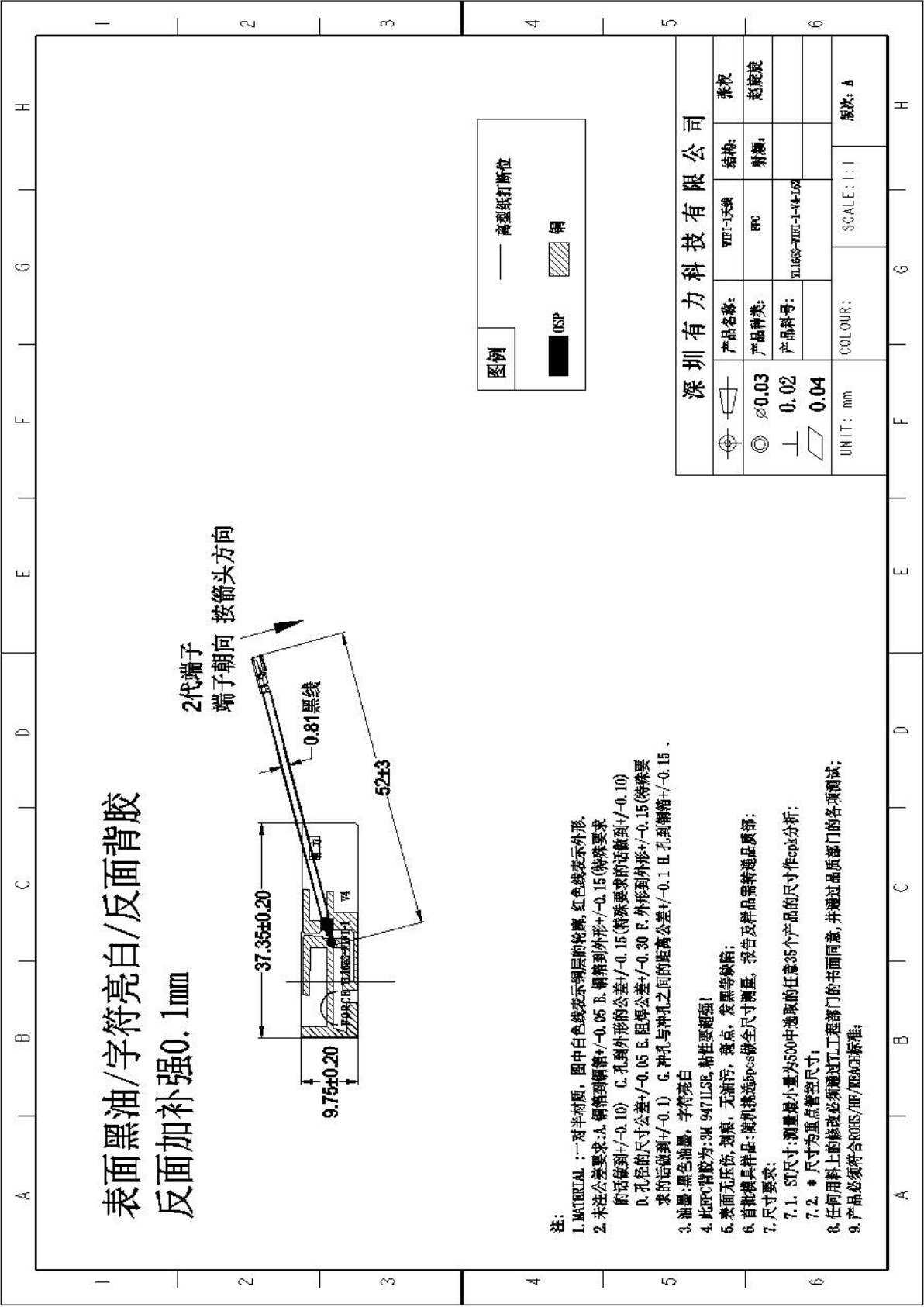
Aglient 8960



测试项目 (Test Project) : S11、S12 、VSWR 、Efficiency、Gain 3D Radiation Pattern 、TRP、TIS

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1.工程图纸（Mechanical Drawing）



2.技术指标（Technical Index）

频率范围 Frequency Range （MHz）	2400-2500MHz/5150-5850MHz	
天线增益 Antenna gain （dBi）	2400-2500MHz	MAX 2.59dBi
	5150-5850MHz	MAX 4.84dBi
天线形式	PIFA	
天线方向 Antenna direction	全向	
驻波比 VSWR/50 Ohms	≤2.0	
输入阻抗 Impedance	50 Ω	
接头 Termination	2代端子 0.81黑线 L=52mm	
工作温度 （℃） Operating Temperature	-30~+75	

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3. 天线测试数据（Antenna test data）

3-1 无源效率/增益 (Passive Efficiency / Gain)

Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	49.39	2.59
2405	48.69	2.53
2410	47.92	2.45
2415	47.78	2.41
2420	47.77	2.35
2425	46.43	2.18
2430	45.91	2.04
2435	47.56	2.1
2440	47.96	2.06
2445	47.74	1.96
2450	48.44	1.94
2455	47.98	1.85
2460	47.47	1.77
2465	45.41	1.59
2470	43.8	1.48
2475	44.15	1.57
2480	43.9	1.61
2485	44.17	1.65
2490	44.14	1.66
2495	45.36	1.79
2500	47.48	1.94

Passive Test For 5G

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Freq (MHz)	Effi (%)	Gain (dBi)
5150	47.51	1.48
5160	49.44	1.46
5170	47.24	1.16
5180	47.27	1.16
5190	43.82	0.88
5200	49.63	1.42
5210	55.52	1.88
5220	58.07	1.99
5230	54.13	1.72
5240	51.88	1.54
5250	52.33	1.62
5260	54.35	1.75
5270	56.66	1.92
5280	59.13	2.11
5290	53.07	1.66
5300	52.93	1.65
5310	53.51	1.73
5320	55.68	1.83
5330	57.15	1.98
5340	54.06	1.78
5350	50.3	1.43
5360	51.84	1.56
5370	51.58	1.61
5380	55.26	1.97
5390	55.69	2.04
5400	50.45	1.55
5410	51.94	1.71
5420	52.46	1.77
5430	53.24	1.88
5440	54.99	2.09
5450	55.45	2.17
5460	53.59	2.09
5470	55.83	2.34
5480	58.45	2.68
5490	62.25	3
5500	59.78	2.96
5510	57.79	2.81
5520	55.91	2.72
5530	56.91	2.9
5540	57.97	3.04
5550	62.02	3.37
5560	60.53	3.29

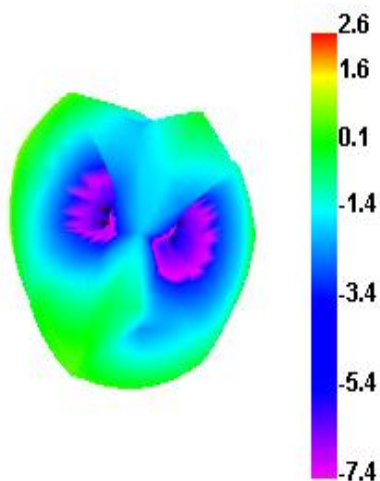
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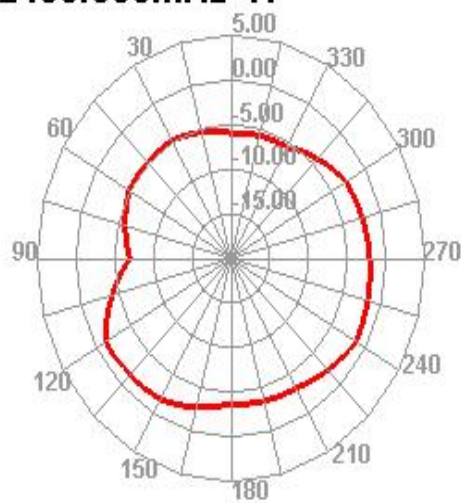
5570	58.63	3.23
5580	55.79	3.09
5590	56.94	3.26
5600	57.61	3.37
5610	56.33	3.37
5620	53.54	3.22
5630	53.57	3.23
5640	51.88	3.2
5650	56.1	3.6
5660	57.93	3.85
5670	57.5	3.8
5680	56.59	3.8
5690	57.68	3.91
5700	56.6	3.81
5710	60.82	4.25
5720	59.15	4.24
5730	58.66	4.21
5740	58.24	4.27
5750	59.53	4.41
5760	61.23	4.6
5770	64.25	4.84
5780	61.9	4.7
5790	59.79	4.65
5800	57.3	4.54
5810	57.56	4.59
5820	56.59	4.56
5830	58.77	4.67
5840	58.96	4.76
5850	57.41	4.6

3-3 方向图 (Radiation Pattern)

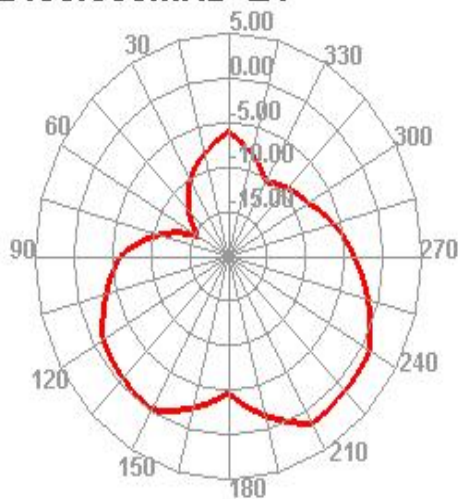
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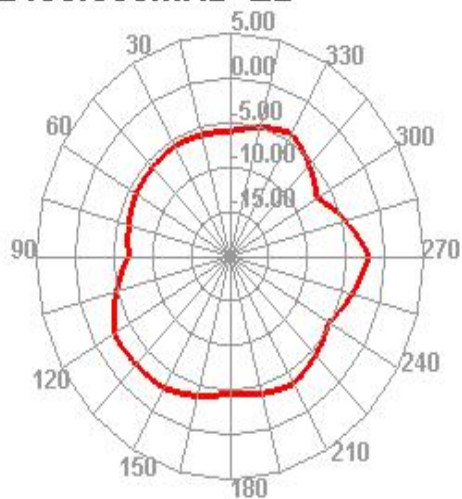
2400.000MHz H



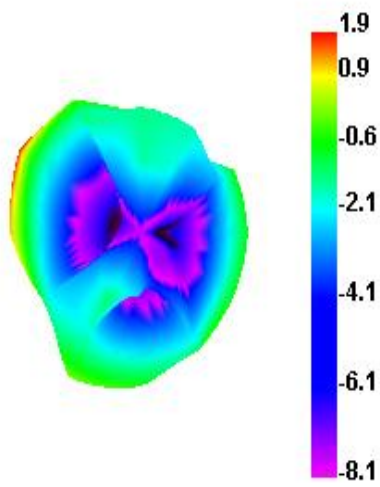
2400.000MHz E1



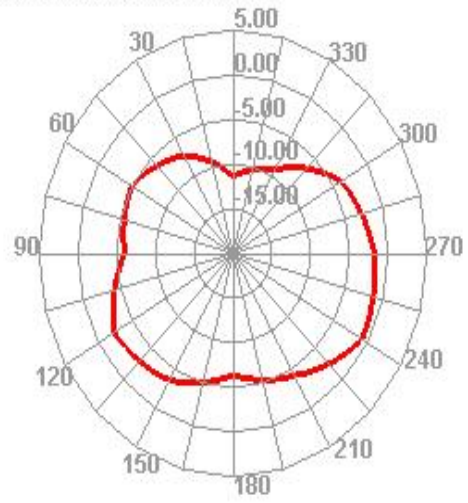
2400.000MHz E2



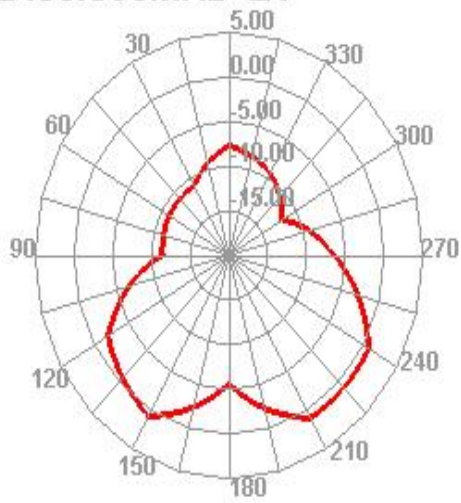
2450.000MHz



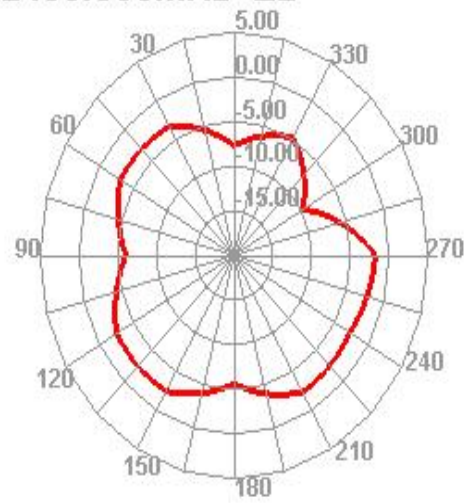
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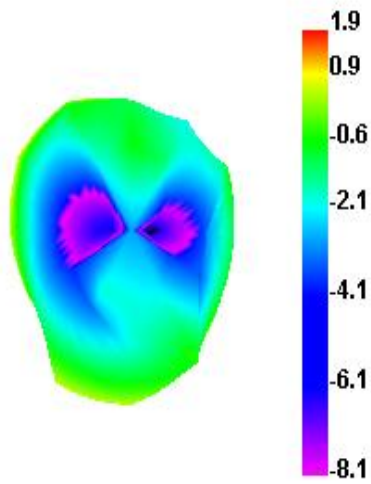
2450.000MHz E1



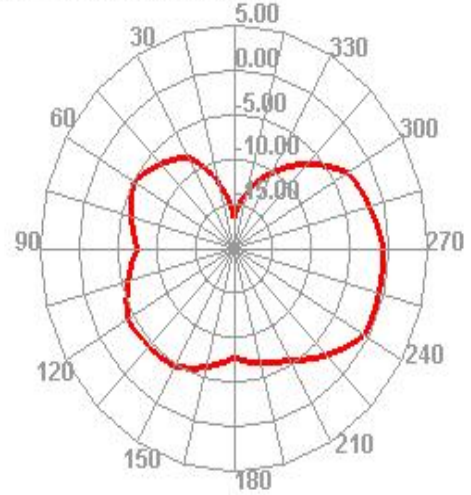
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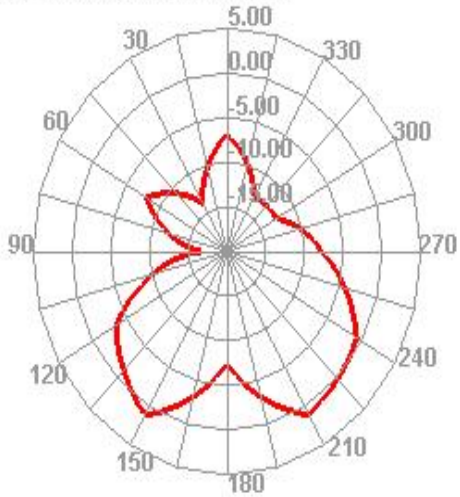
2500.000MHz



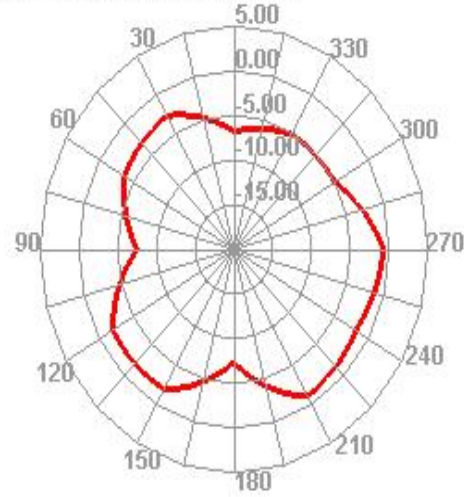
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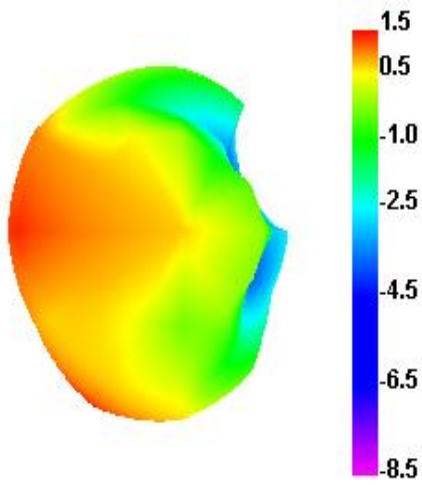
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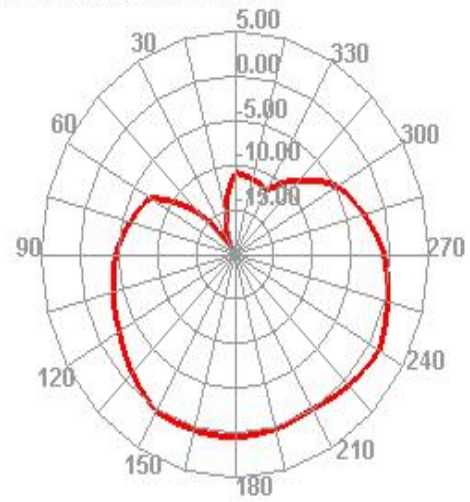
2500.000MHz E2



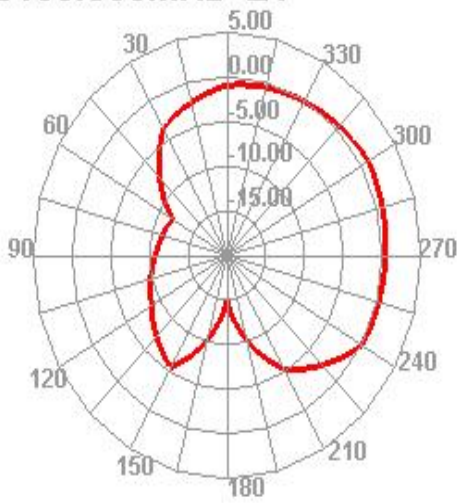
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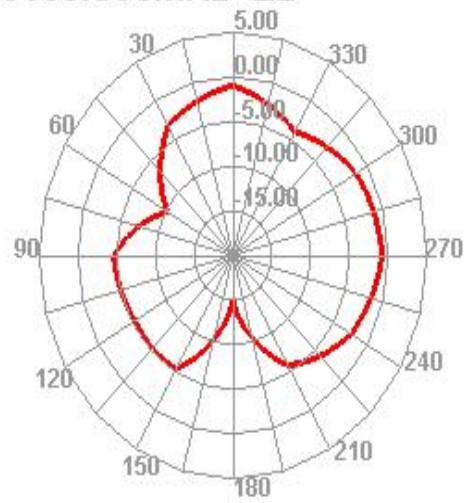
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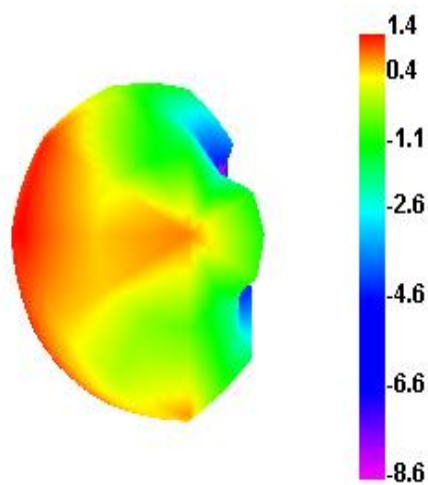
5150.000MHz E1



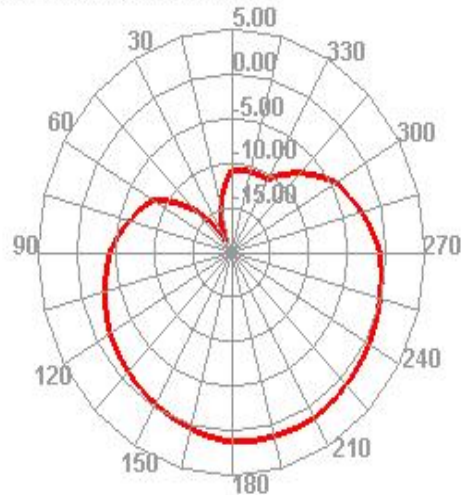
5150.000MHz E2



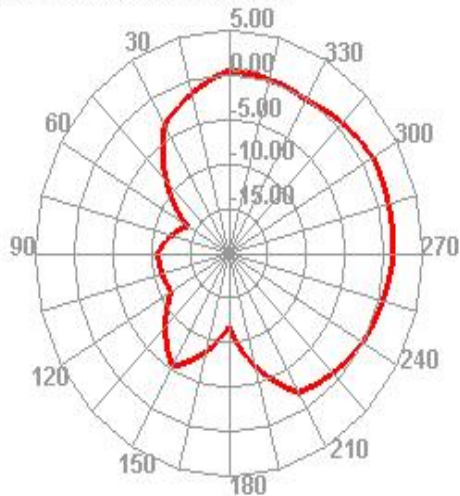
5350.000MHz



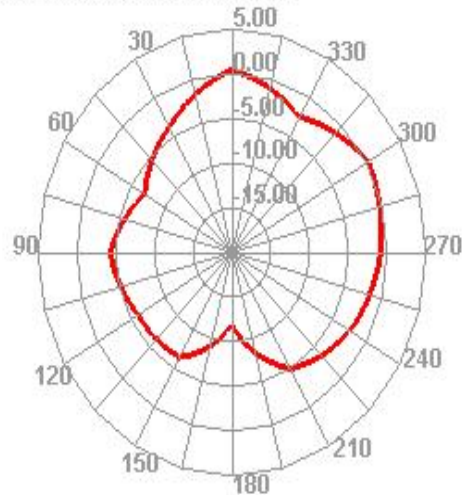
5350.000MHz H



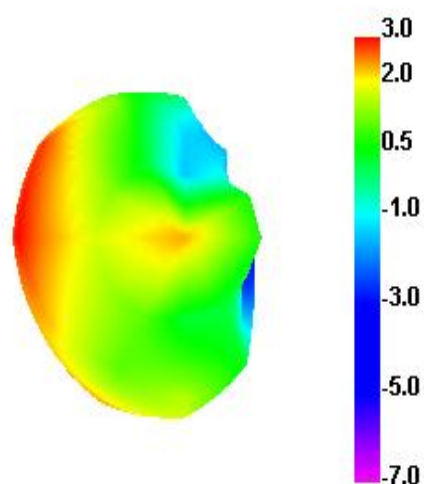
5350.000MHz E1



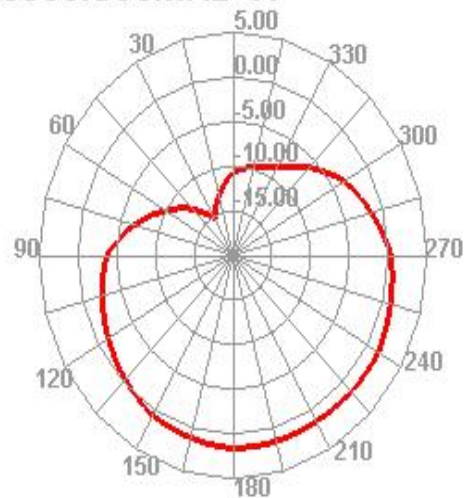
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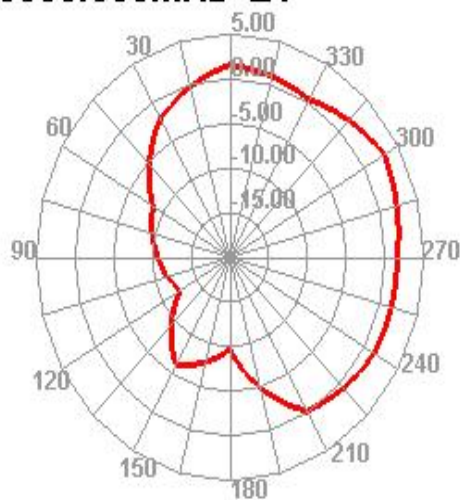
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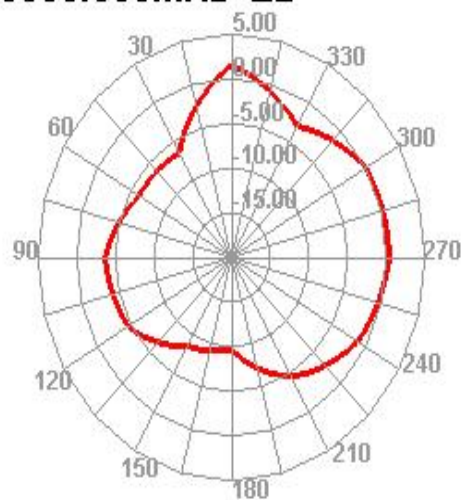
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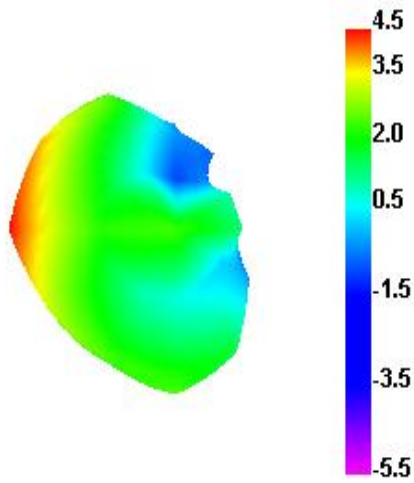
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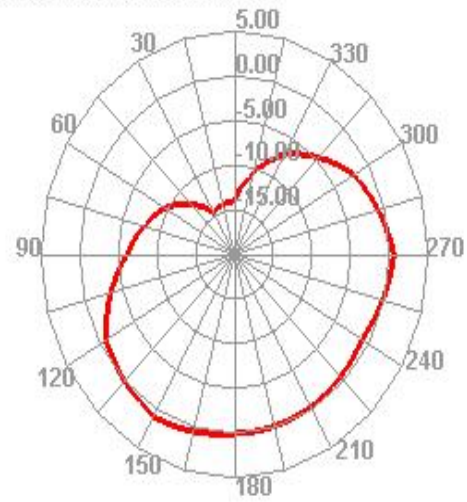
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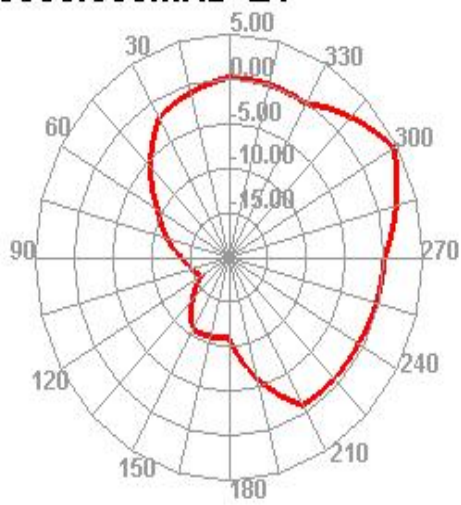
5800.000MHz



5800.000MHz H



5800.000MHz E1



5800.000MHz E2

