

深圳有力科技有限公司

ShenZhen Powerful Technology CO., Limited

規 格 书

SPECIFICATION FOR APPROVAL

客 户

CUSTOMER:

客 户 料 号

CUSTOMER NO:

品 名

PART NAME:

供 方 料 号

SUPPLIER NO:

JACS

WIFI-2天线：FPC黑色/加补强0.1mm/2代端子/0.81黑线 L=40MM

YL1653-WIFI-2-V4-L40

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 Lab Testing Environment and Equipment



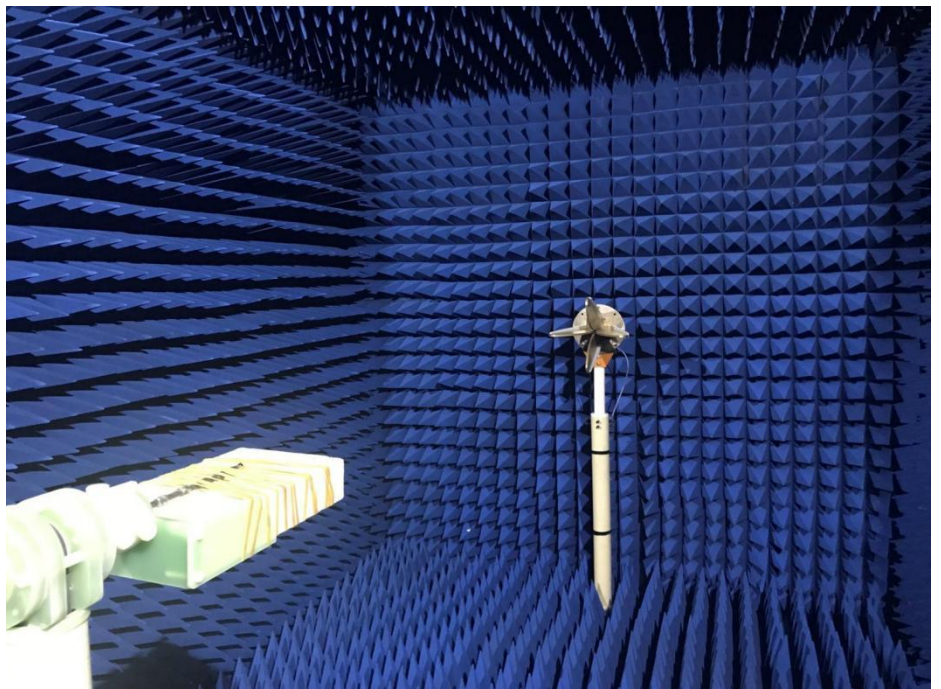
CMW500



E5071B



Aglient 8960



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

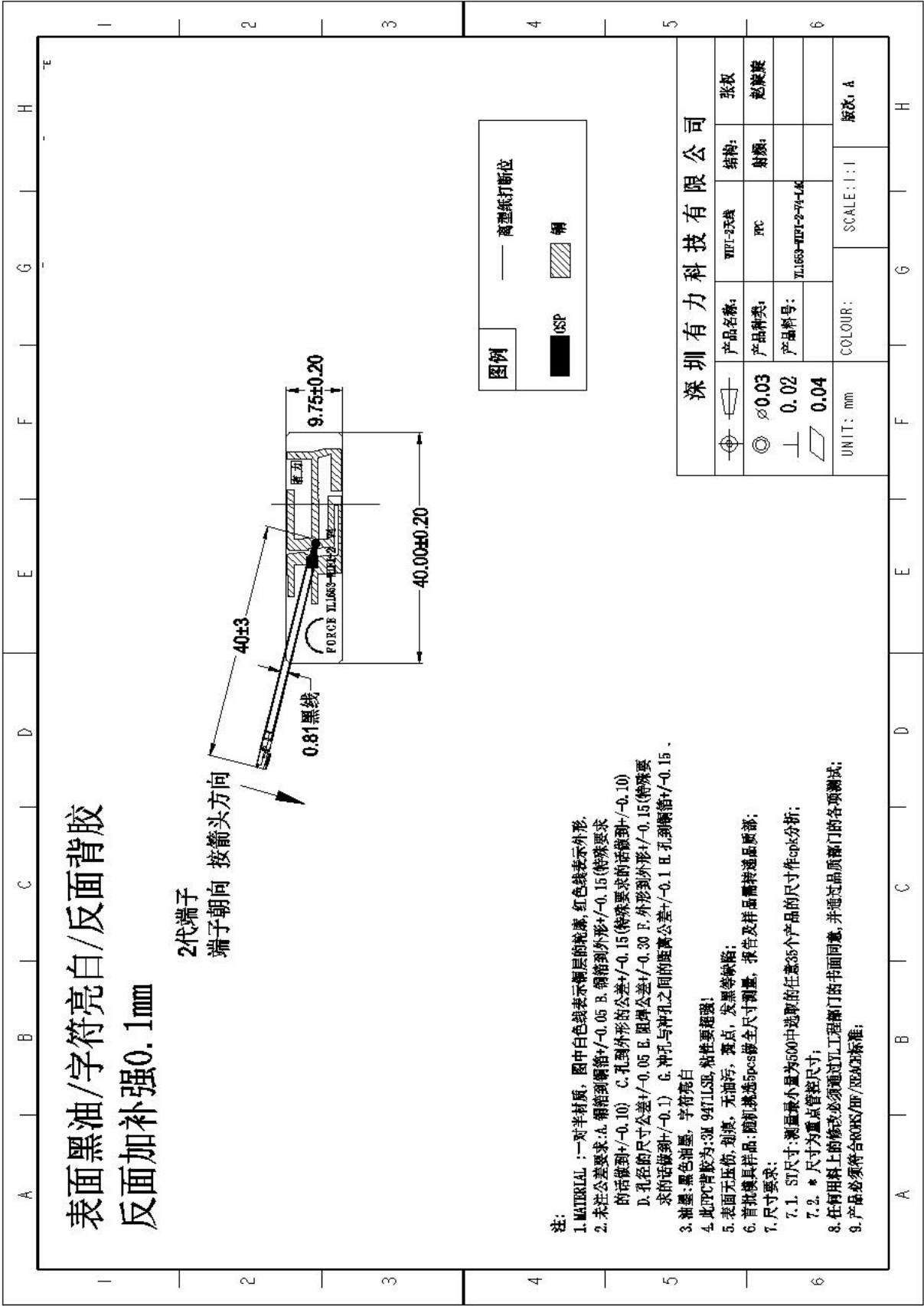
規 格 承 認 書 (Specification Approval Sheet)..... 3

1.工程图纸（Mechanical Drawing） 4

2.技术指标（Technical Index） 5

3.天线测试数据（Antenna test data）6-15

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 3.46 dBi 5150-5850MHz MAX 4.68 dBi
天线形式 Antenna Type	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=40mm
工作温度 （℃） Operating Temperature	-30~+75

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	58.41	3.46
2405	56.49	3.25
2410	53.75	2.97
2415	53.03	2.84
2420	53.8	2.86
2425	51.05	2.56
2430	47.81	2.22
2435	49.74	2.31
2440	51.42	2.39
2445	50.46	2.22
2450	50.92	2.29
2455	50.88	2.32
2460	51.87	2.43
2465	50.94	2.36
2470	47.94	2.06
2475	47.67	2.02
2480	47.37	1.97
2485	47.31	1.98
2490	46.29	1.95
2495	43.64	1.72
2500	46.9	2.07

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Passive Test For 5G		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	41.06	2.14
5160	37.63	1.78
5170	33.86	1.41
5180	34.91	1.63
5190	38.28	2.16
5200	39.78	2.44
5210	41.46	2.69
5220	37.69	2.25
5230	36.24	2.01
5240	36.29	1.95
5250	39.89	2.39
5260	39.98	2.43
5270	39.24	2.45
5280	37.96	2.35
5290	38.02	2.37
5300	40.21	2.61
5310	45.39	3.05
5320	45.74	3.13
5330	44.26	2.93
5340	43.8	2.86
5350	44.35	2.91
5360	48.17	3.24
5370	53.95	3.78
5380	53.42	3.7
5390	51.24	3.49
5400	49.92	3.3
5410	54.34	3.59
5420	57.89	3.83
5430	58.92	3.79
5440	56.37	3.6
5450	55.99	3.51
5460	56.18	3.48
5470	59.23	3.71
5480	61.18	3.72
5490	62.13	3.74
5500	56.32	3.42
5510	53.49	3.17
5520	53.71	3.19
5530	55.68	3.36
5540	55.06	3.33
5550	56.9	3.46
5560	53.36	3.25
5570	52.28	3.11

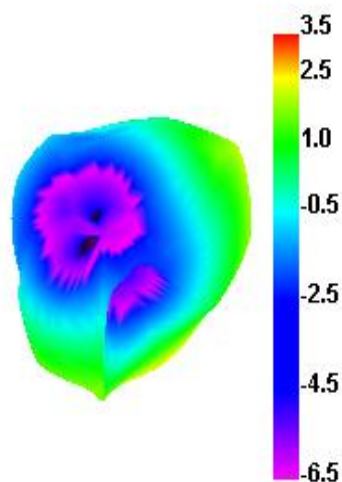
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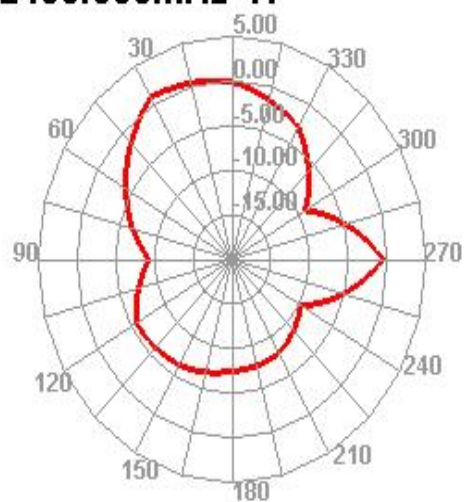
5580	53.25	3.21
5590	54.96	3.36
5600	54.47	3.23
5610	53.2	3.08
5620	50.6	2.87
5630	52.41	3.11
5640	54.38	3.35
5650	57.99	3.69
5660	58.69	3.88
5670	57.8	3.88
5680	56.51	3.9
5690	61.12	4.27
5700	60.85	4.32
5710	62.09	4.43
5720	59.76	4.3
5730	58.39	4.23
5740	58.66	4.25
5750	62.02	4.54
5760	64.02	4.68
5770	65.38	4.67
5780	61.67	4.38
5790	59.12	4.11
5800	59.13	4.03
5810	61.71	4.11
5820	60.53	3.88
5830	60.77	3.88
5840	60.92	3.81
5850	60.91	3.75

3-2 方向图 (Radiation Pattern)

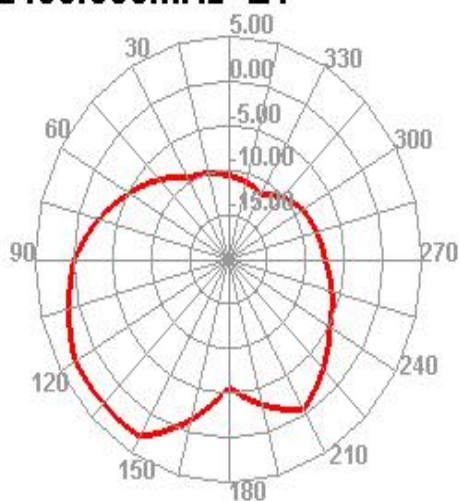
2400.000MHz



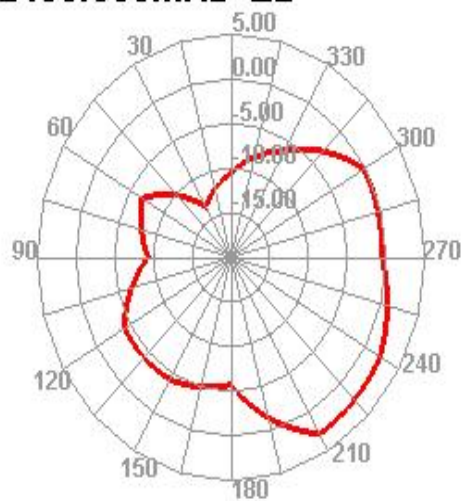
2400.000MHz H



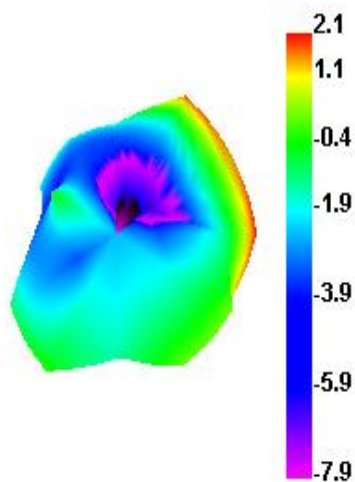
2400.000MHz E1



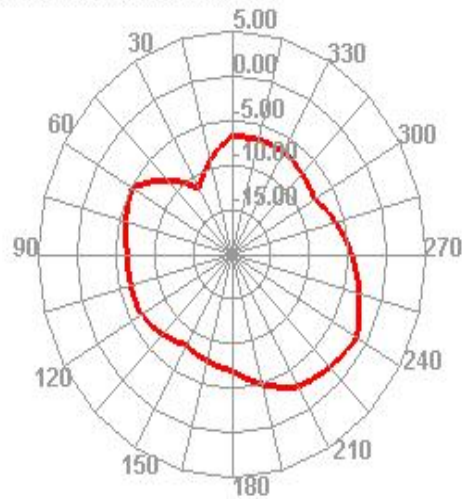
2400.000MHz E2



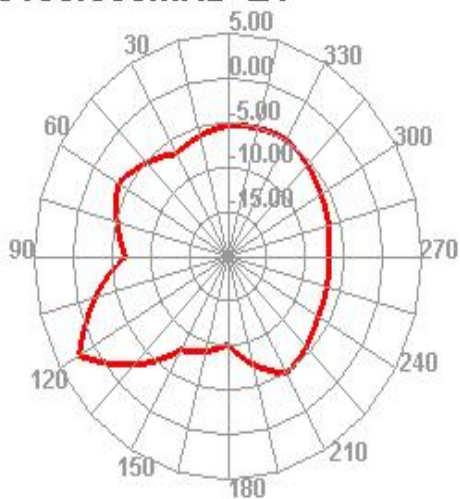
5150.000MHz



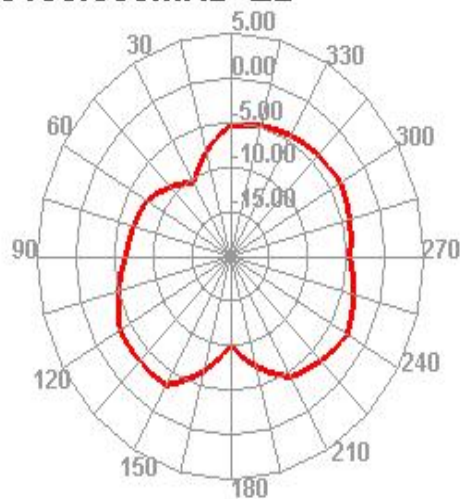
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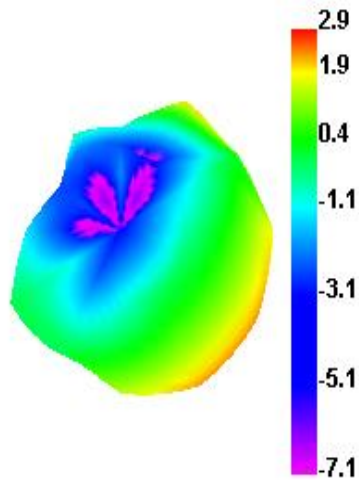
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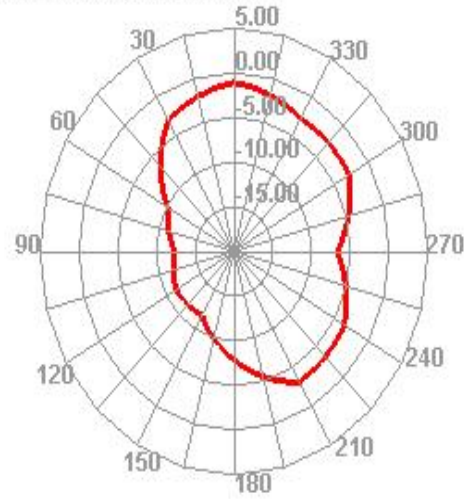
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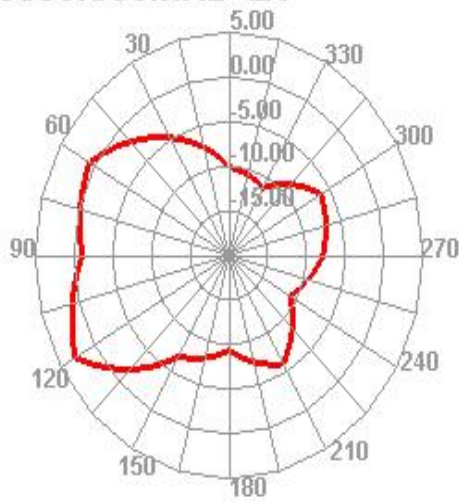
5350.000MHz



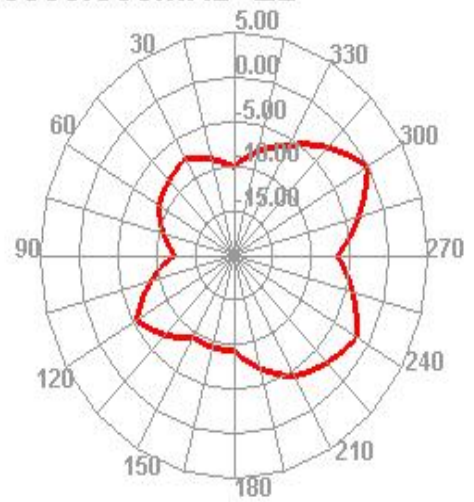
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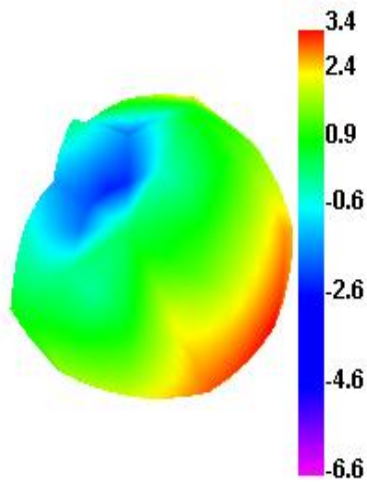
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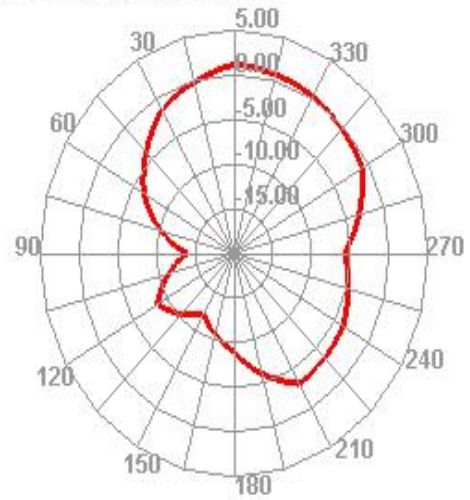
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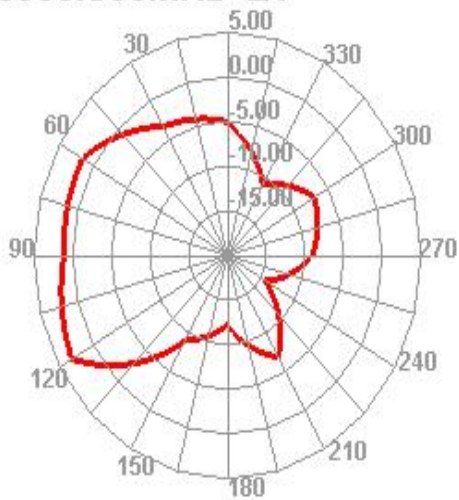
5500.000MHz



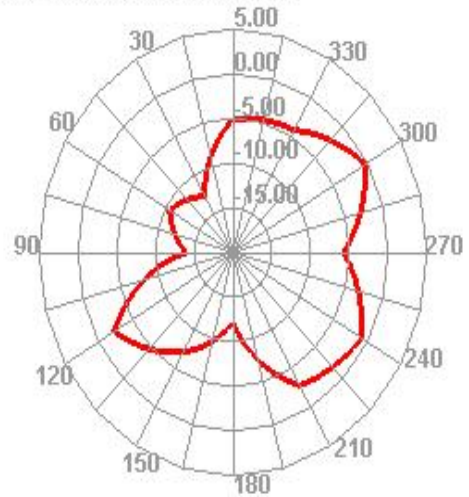
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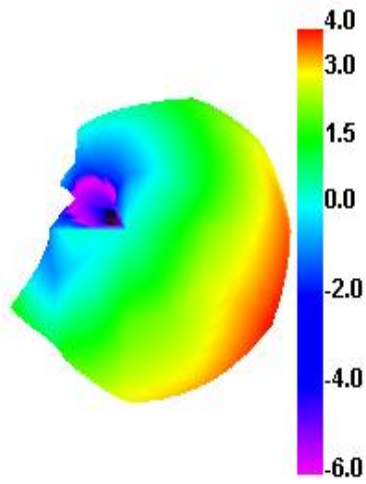
5500.000MHz E1



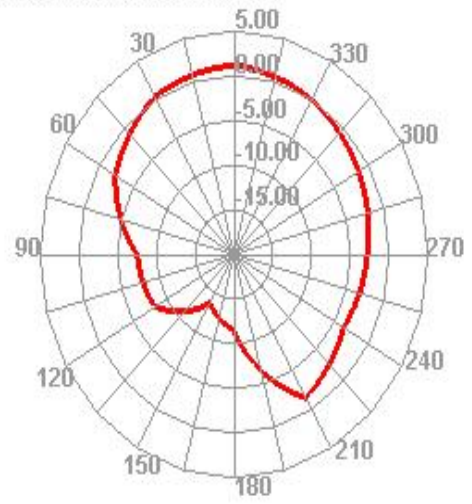
5500.000MHz E2



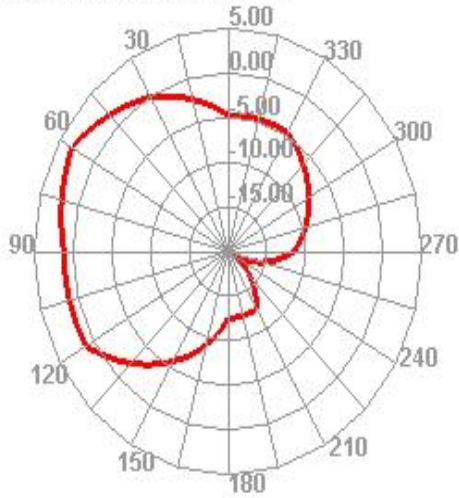
5800.000MHz



5800.000MHz H



5800.000MHz E1



5800.000MHz E2

