

Antenna Spec

Shen zhen Golden-Resource Electronic Co.,Ltd.

- Antenna model: 2.4G inner needle small fold
 - **Date:** 2022/11/17

Check	Review	Approval

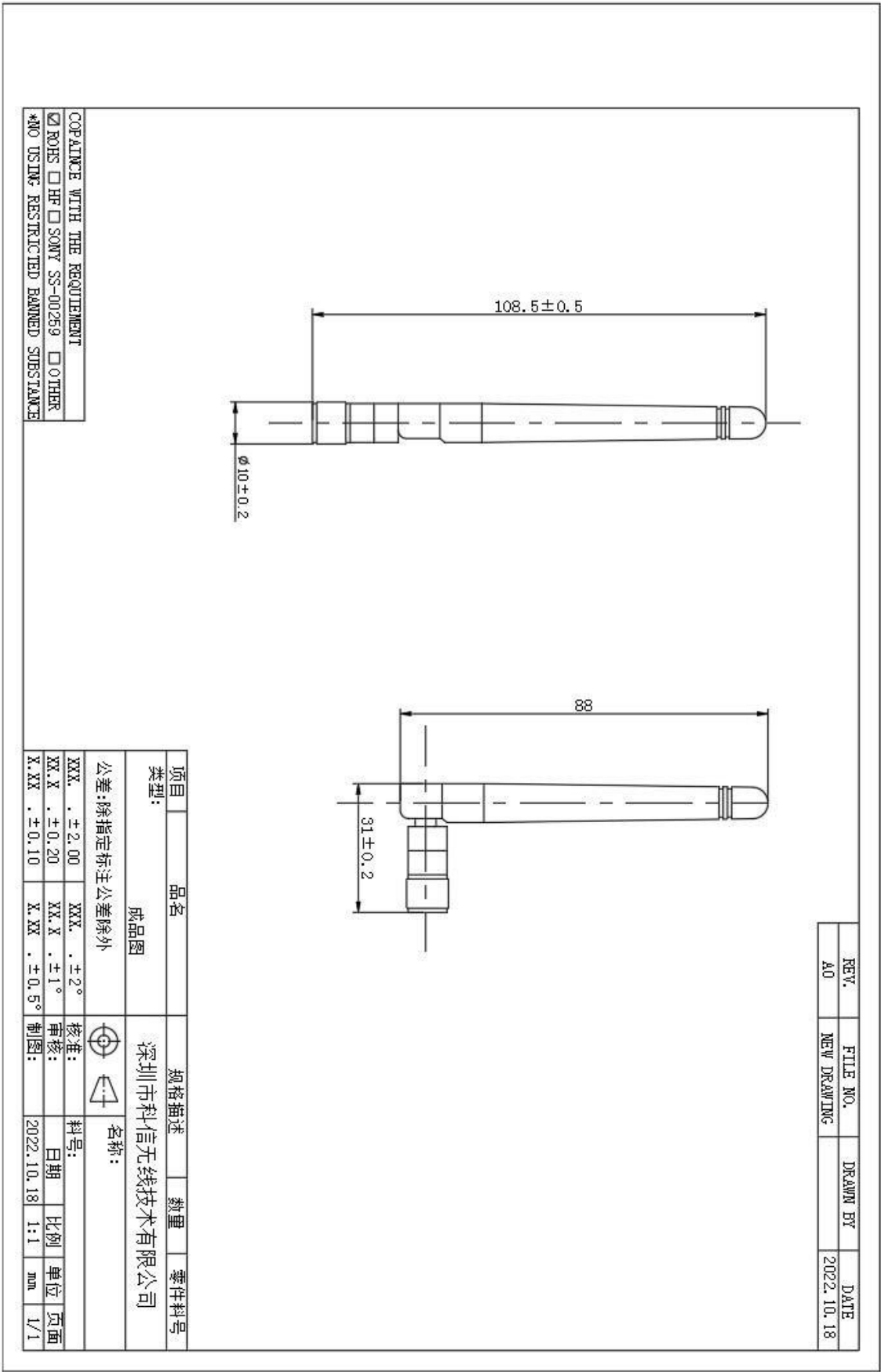
△ History

Name	Date	Version	Remark	Prepare	Approval
Antenna spec	2022. 11. 17	V1	First	Liu Jing xiong	Li Bin

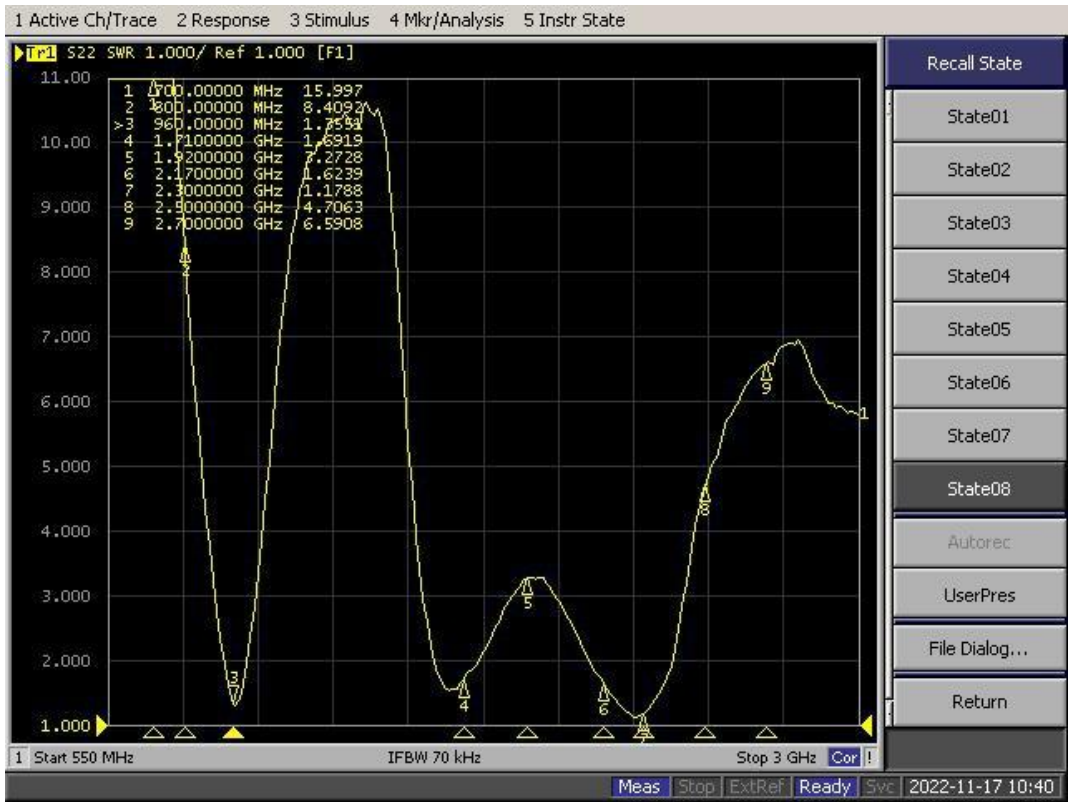
1、Specification

电性能指标Electrical Specifications	
频率范围Frequency Range (MHz)	700-960/1700-2700
输入阻抗Input Impedence (Ω)	50
增益Gain (dBi)	2.0±0.5
类型 Type	Folding rod antenna
极化形式Polarization Type	垂直Vertical
最大功率Maximum power(W)	10W
垂直面波瓣角度Vertical lobe Angle（E）	28~50°
水平面波瓣角度Water plane lobe Angle（H）	360°
机械指标Mechanical Specifications	
天线材质Material	铜管Copper Tube
连接器型号Connect Type	SMA-J
天线尺寸Size	Ø10*108.5mm
工作温度Operating Temp	-20 ~ +65 °C
储存温度Storage Temp	-30 ~ +75°C

2、Design drawing



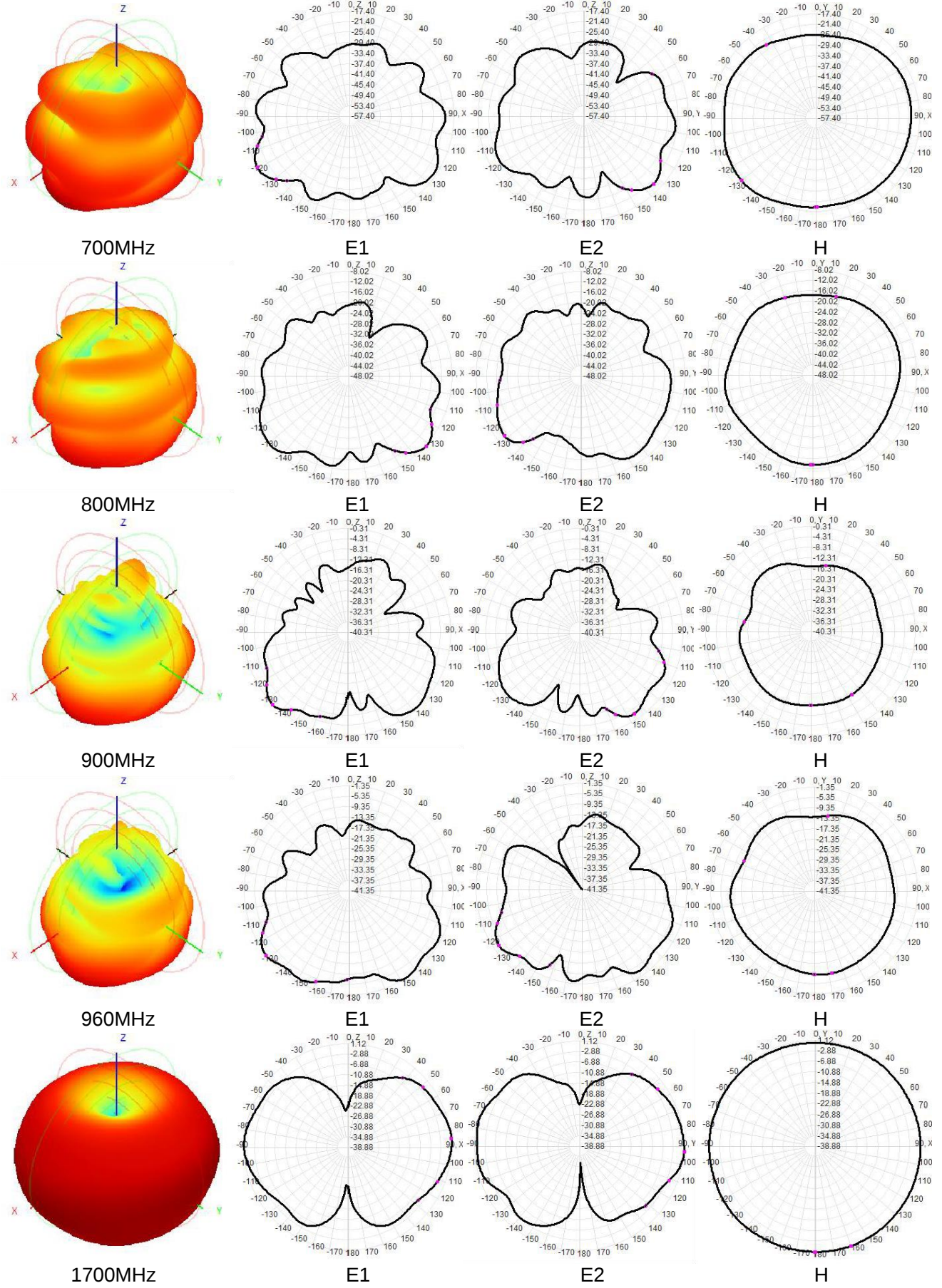
3、S Parameter Test data
VSWR:

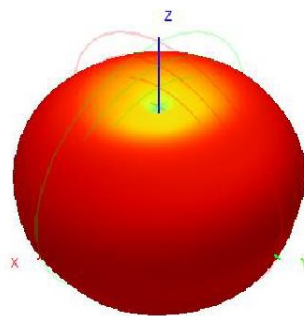


4 Gain

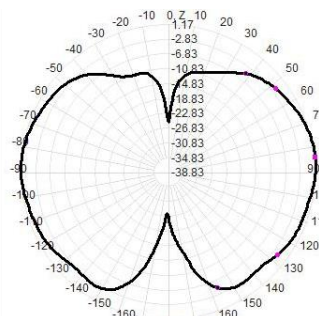
Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak Gain (dBi) (增益)
700	0.41	-17.34
800	3.49	-7.99
900	16.24	-0.26
960	17.39	-0.15
1700	63.89	1.15
1800	77.09	1.24
1900	53.59	1.12
2000	42.72	2.90
2100	38.80	1.99
2200	21.69	1.15
2300	13.78	-0.85
2400	16.85	-3.90
2500	26.45	1.54
2600	27.11	1.62
2700	24.52	0.66

5. 3D&2D Pattern

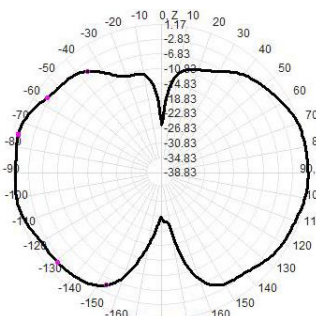




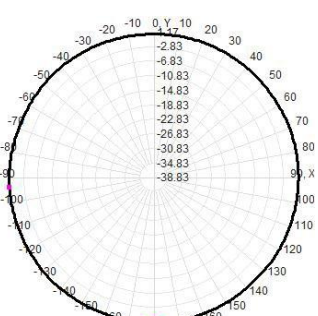
1800MHz



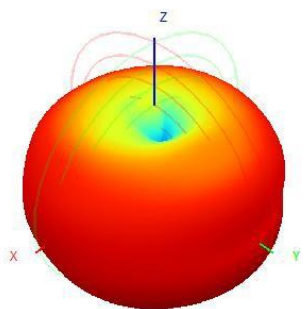
E1



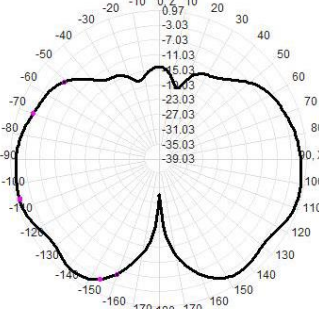
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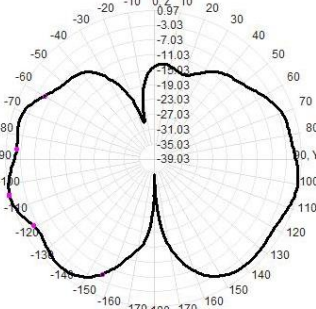
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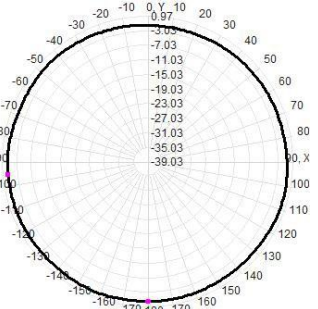
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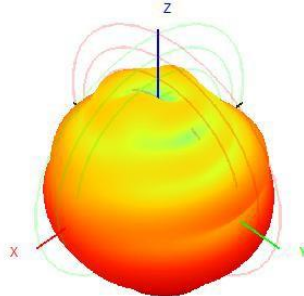
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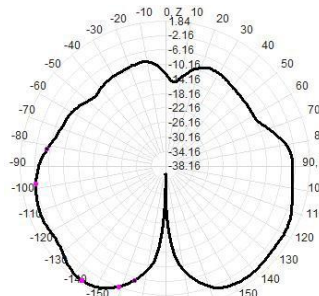
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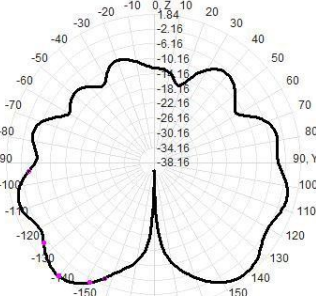
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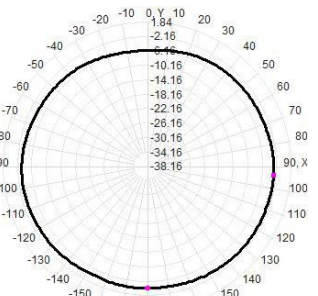
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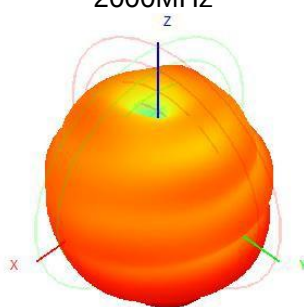
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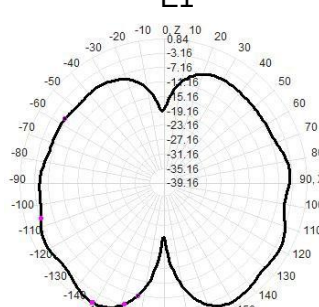
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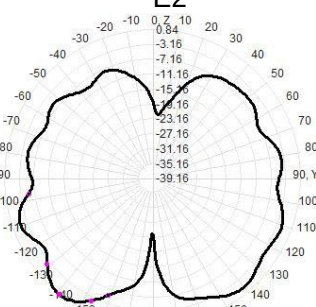
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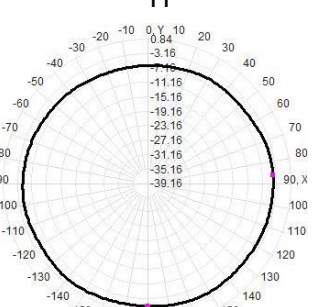
2100MHz



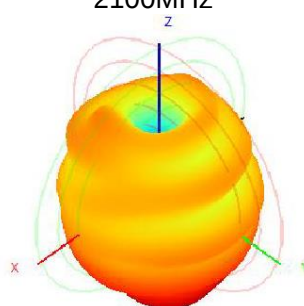
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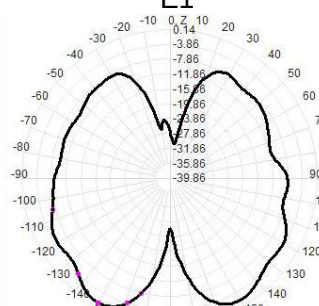
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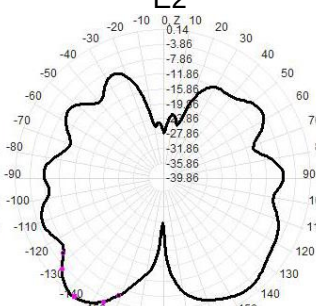
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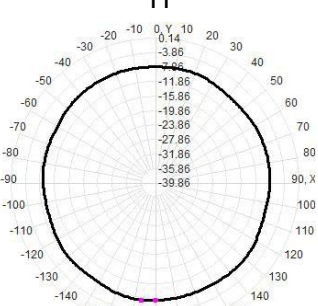
2200MHz



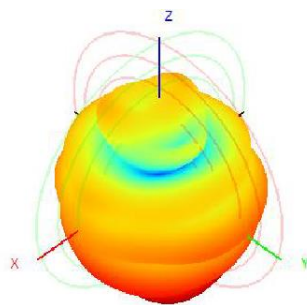
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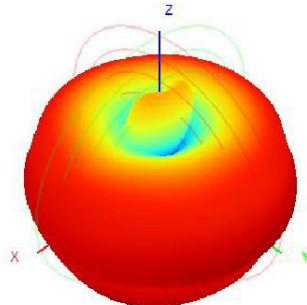
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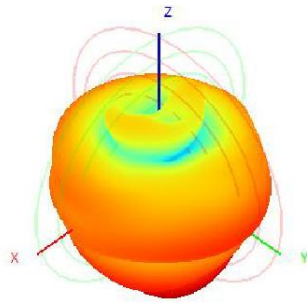
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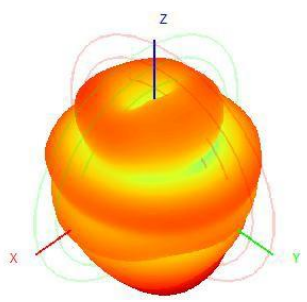
2300MHz



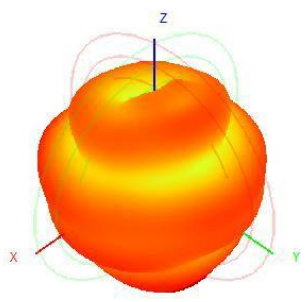
2400MHz



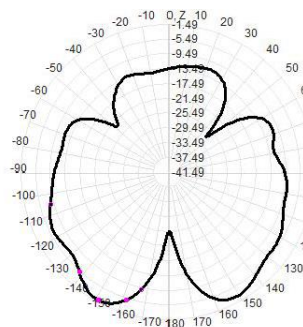
2500MHz



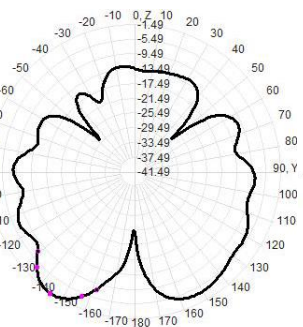
2600MHz



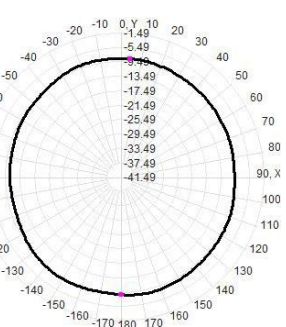
2700MHz



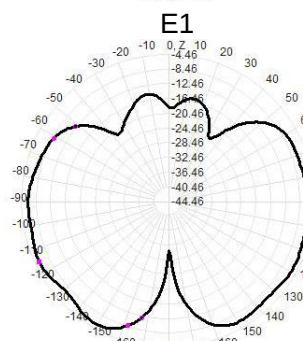
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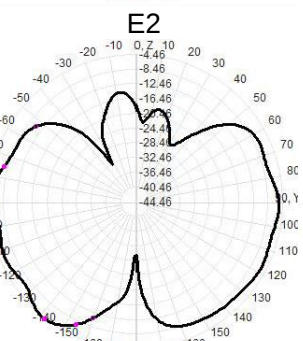
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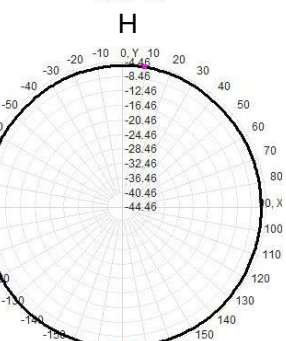
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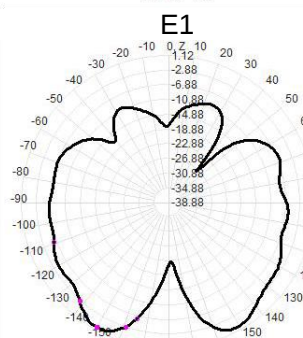
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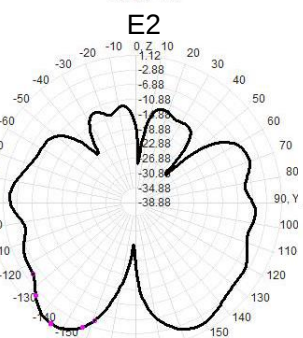
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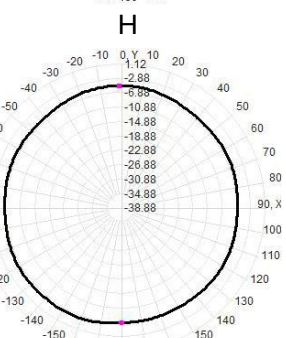
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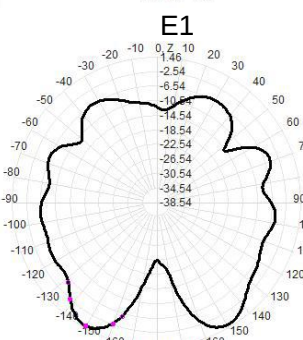
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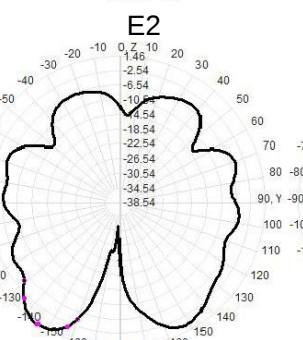
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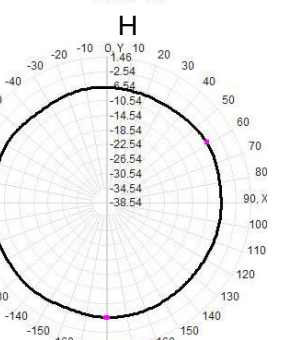
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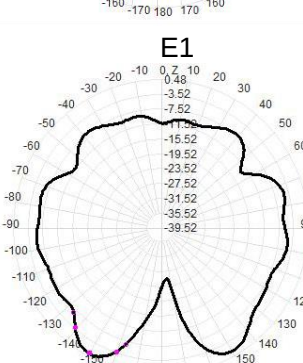
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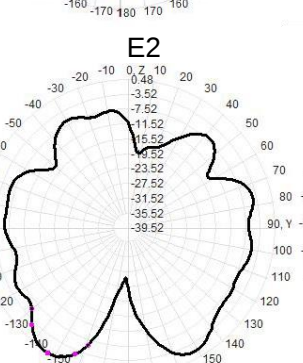
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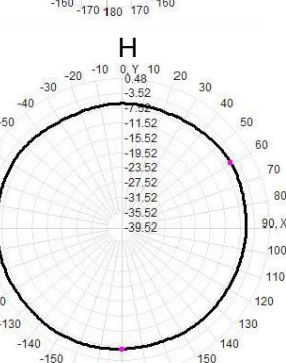
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E1



E2



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