



产 品 规 格 书

PRODUCT SPECIFICATION SHEET

Cust.Name : _____

Prod.Name : _____ 2.4G NB Antenna _____

P/N : _____ 22-1000-034 _____

Cust.P/N : _____

Samle Date : _____ 2020-8-6 _____

Engineering Confirmation :

核准	工程	制作	签章
Approval	Quality	Engineer	

Customer Confirmation :

核准	研发	品质	签章
确认结果： ☐ 合格 ☐ 不合格 ☐ 其它			



承认书项目表

Item	Description
1.....	承认书封面
2.....	承认书项目表
3.....	工程图面
4.....	电性测试报告

RF Antenna Cable Assembly

Specification

1. Electrical Properties

- 1.1 Frequency Range.....2400–2500MHZ
- 1.2 Impedance.....50 Ω Nominal
- 1.3 VSWR.....<2.0
- 1.4 Gain(peak)3dBi
- 1.5 Cable loss.....0.3dBi Max
- 1.6 Polarization.....Linear Vertical
- 1.7 Admitted Power.....2W
- 1.8 Cable.....RG-1.13

2. Physical Properties:

- 2.1 Antenna Material.....PCB
- 2.4 Operating Temp.....–20°C– +65°C
- 2.5 Storage Temp.....–30°C– +75°C
- 2.6 Color.....Black

Product Number:22-1000-034

Product Name: 2.4G NB 天线

Index:

- 1. Reliability Testing**
- 2. Specification**
- 3. SParameter Test Data**
- 4. Antenna Radiation Pattern**

1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

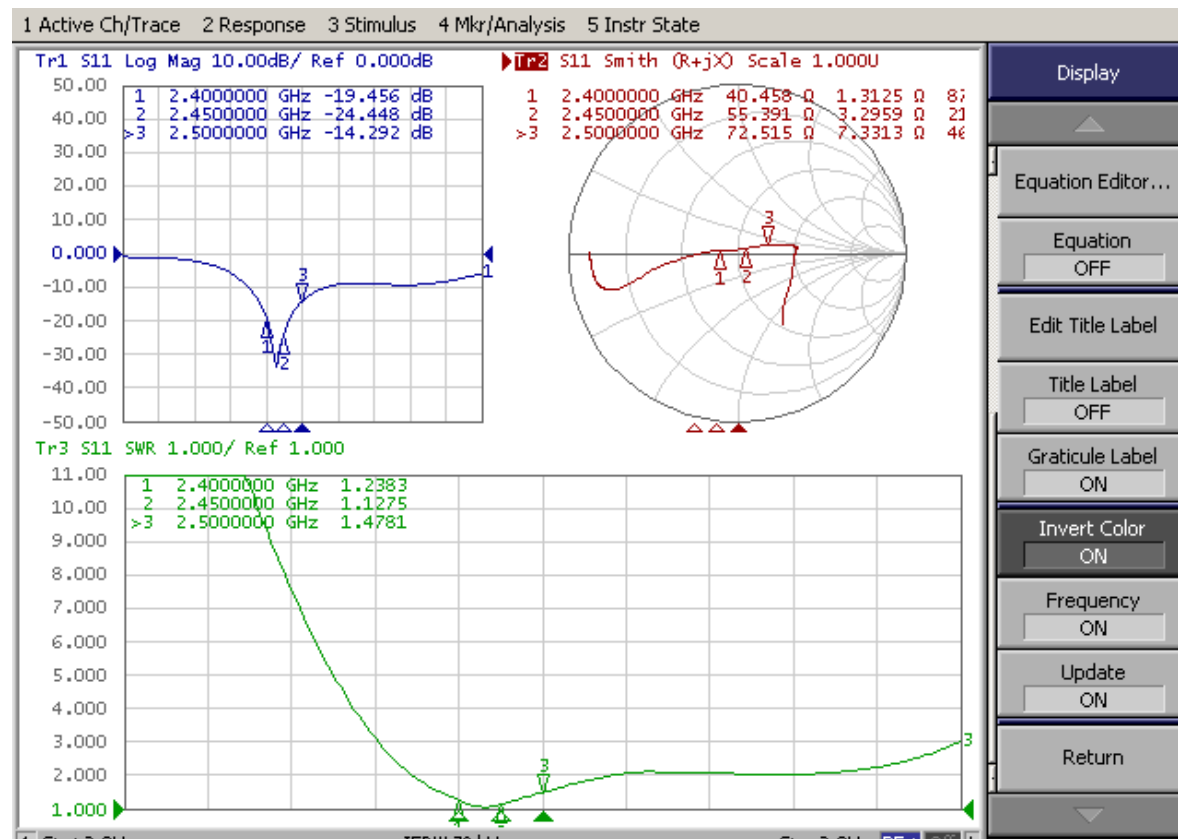
2. Specification

A. Electrical Characteristics	
S.W.R.	2400-2500 MHz: <= 1.6
Antenna Gain	5.71dBi Max
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	welding
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

Product Number:22-1000-034

Product Name: 2.4G NB 天线

3. S Parameter Test data



4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

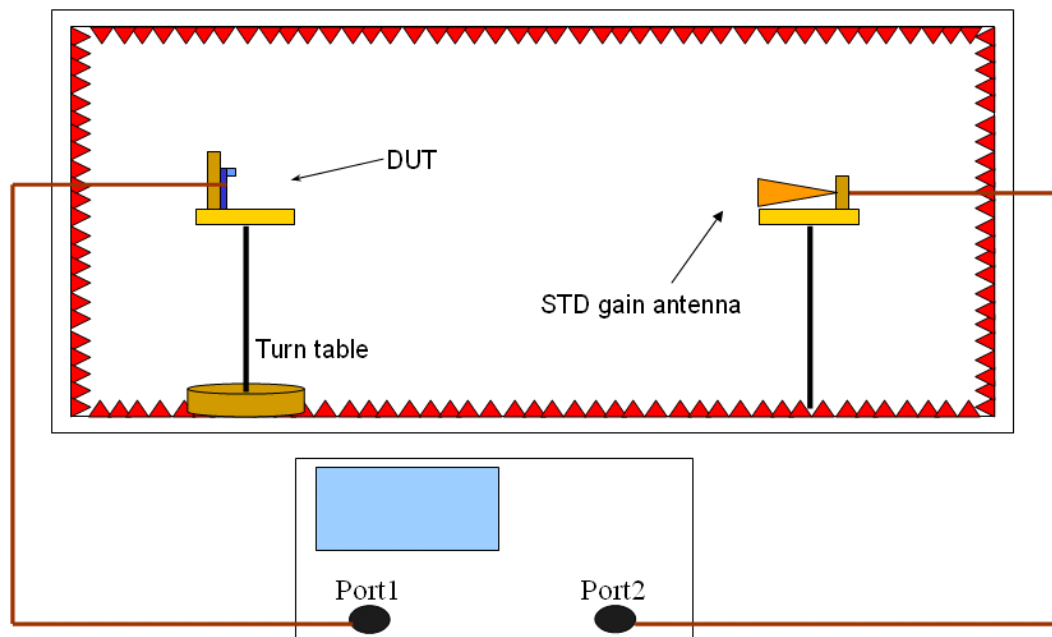
Testing Equipment: Agilent 5071B

Received Antenna: 0.6 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

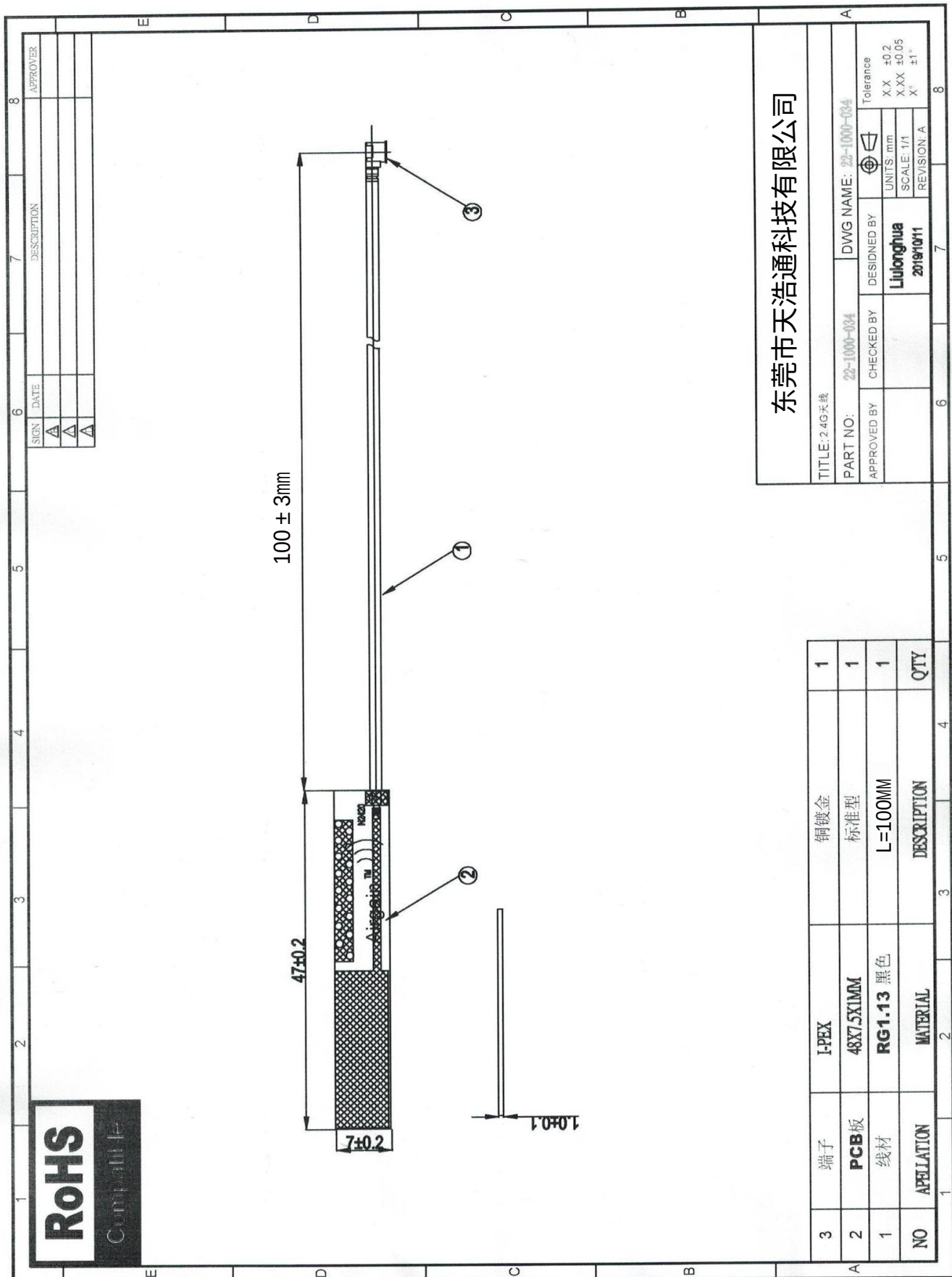
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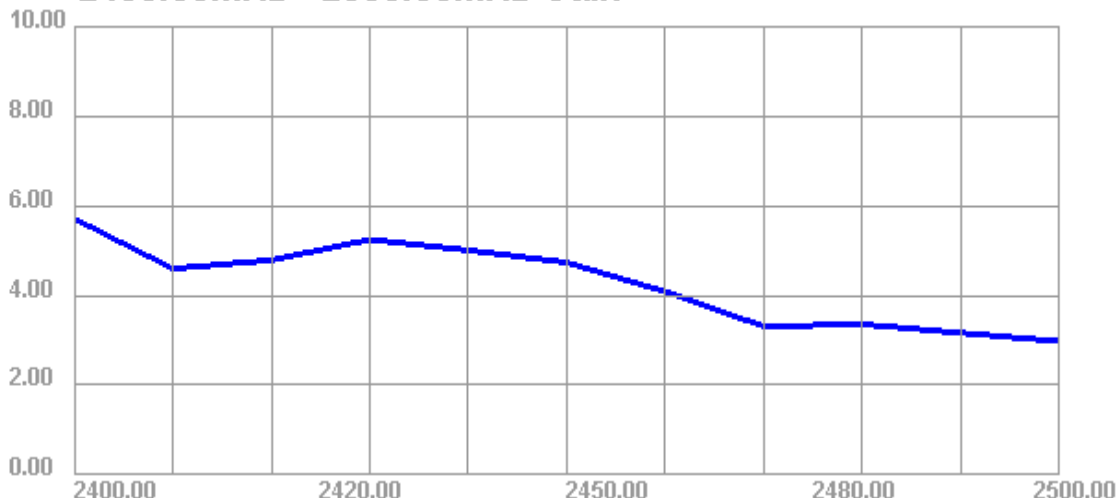




Passive Test For WIFI1

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	87.84	-0.56	5.71	3.56	39.797	48.043	5.71	-9.33	51.59	51.29
2410	68.32	-1.65	4.6	2.45	31.517	36.806	4.6	-10.71	50.23	49.94
2420	73.95	-1.31	4.79	2.64	34.575	39.371	4.79	-10.78	50.68	50.46
2430	81.51	-0.89	5.25	3.1	38.56	42.951	5.25	-10.87	50.88	50.56
2440	79.39	-1	5.01	2.86	37.954	41.433	5.01	-11.63	50.24	49.98
2450	77.69	-1.1	4.74	2.59	37.644	40.045	4.74	-12.3	50.38	50.16
2460	67.26	-1.72	4.09	1.94	33.069	34.189	4.09	-12.88	49.33	49.05
2470	57.78	-2.38	3.31	1.16	28.955	28.826	3.31	-13.32	49.47	49.17
2480	62.31	-2.05	3.36	1.21	31.751	30.557	3.36	-12.65	50.28	50.02
2490	59.7	-2.24	3.17	1.02	30.639	29.057	3.17	-12.81	50.1	49.74
2500	60.52	-2.18	2.98	0.83	31.249	29.272	2.98	-13.12	49.02	48.64

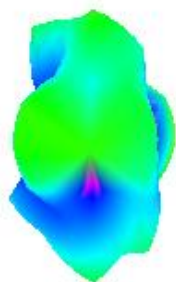
2400.00MHz - 2500.00MHz Gain



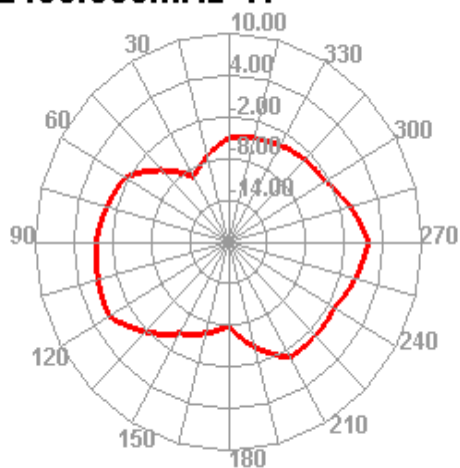
2400.00MHz - 2500.00MHz Efficiency



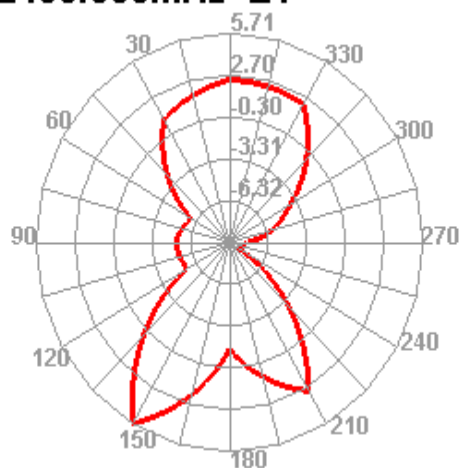
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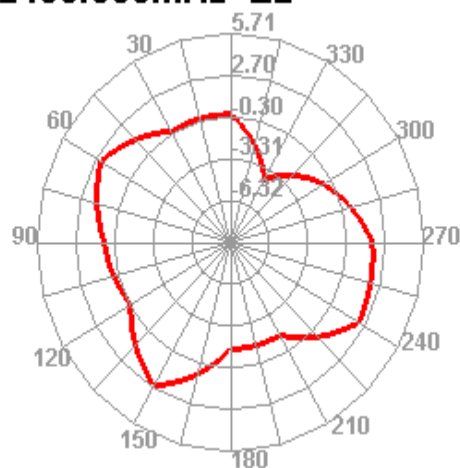
2400.000MHz H



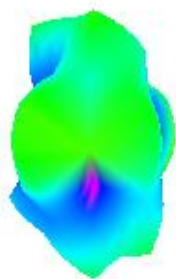
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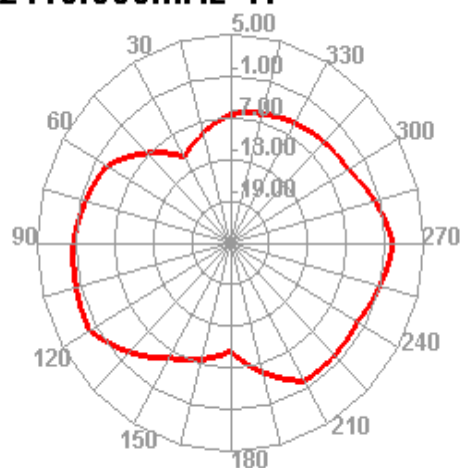
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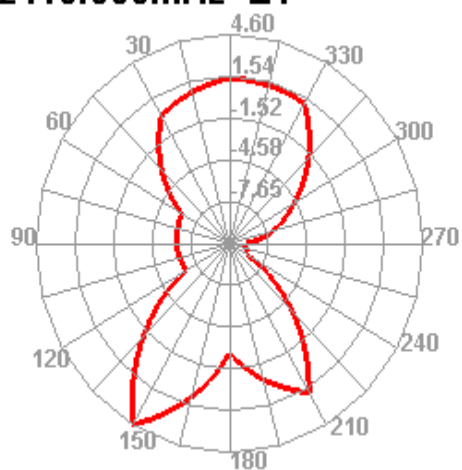
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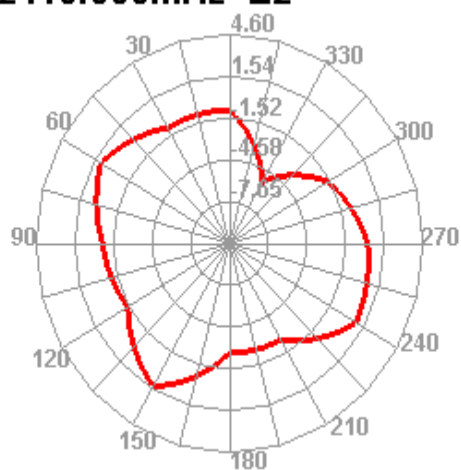
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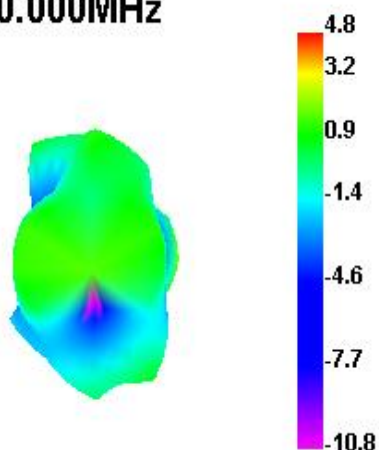
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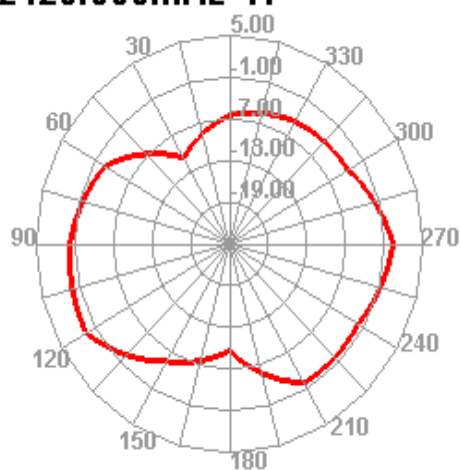
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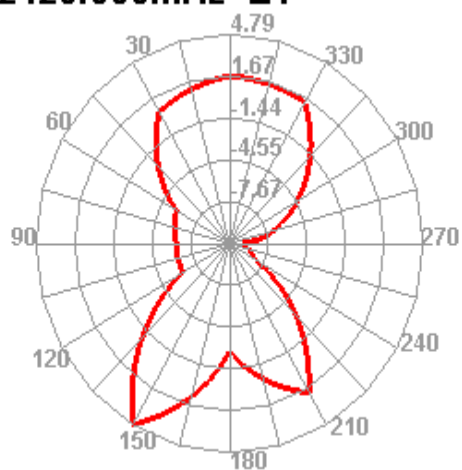
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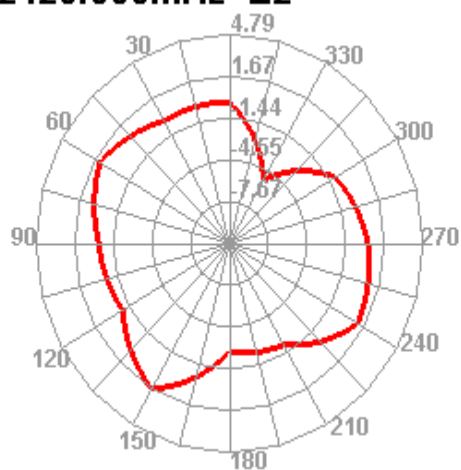
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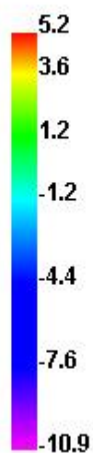
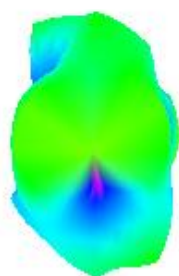
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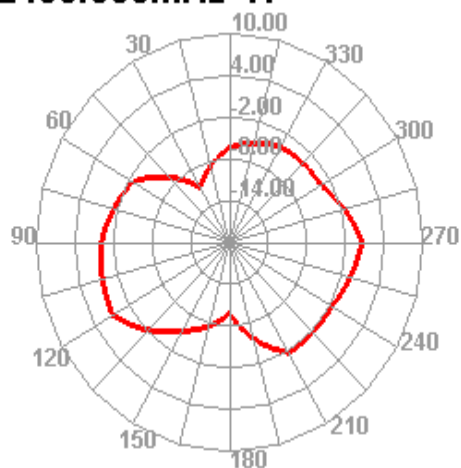
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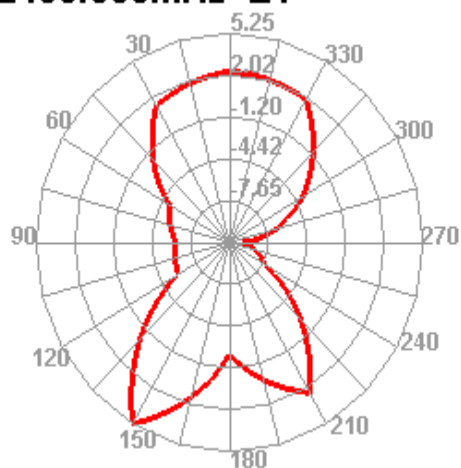
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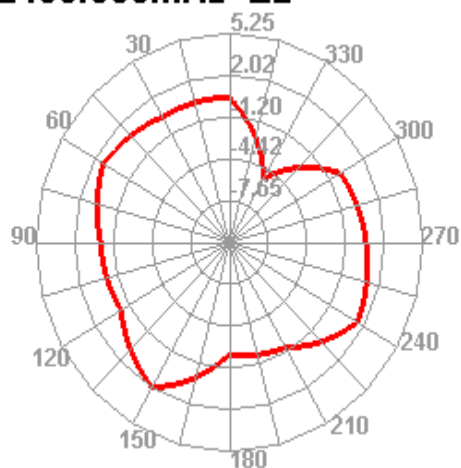
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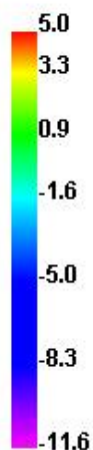
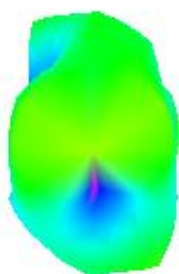
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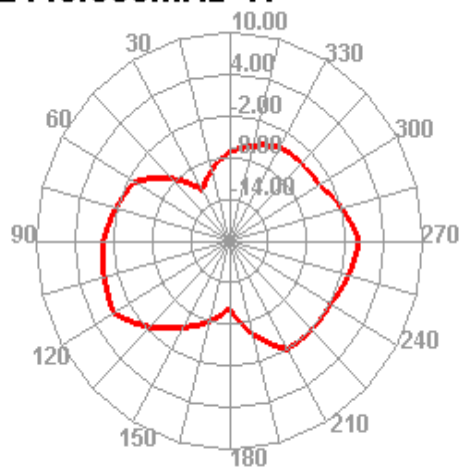
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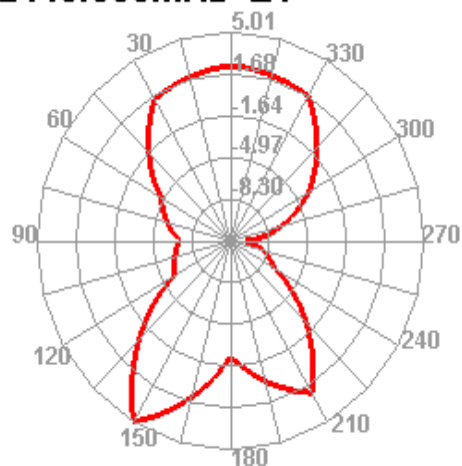
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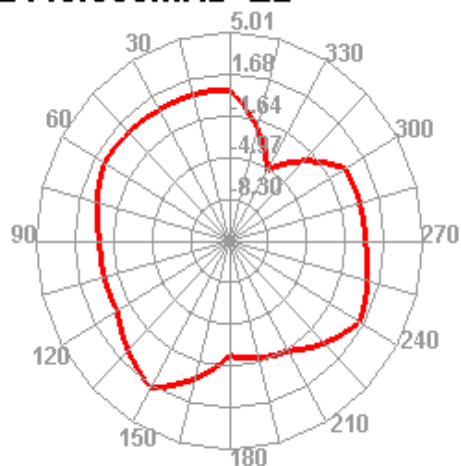
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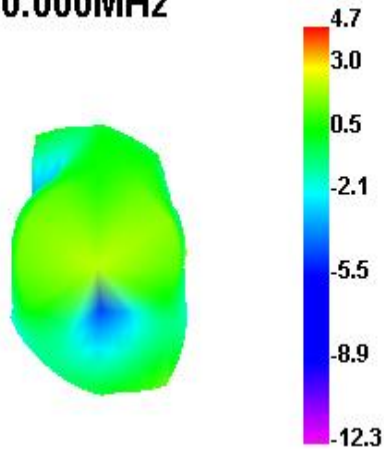
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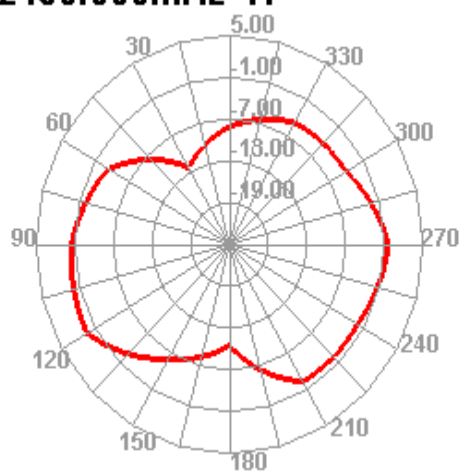
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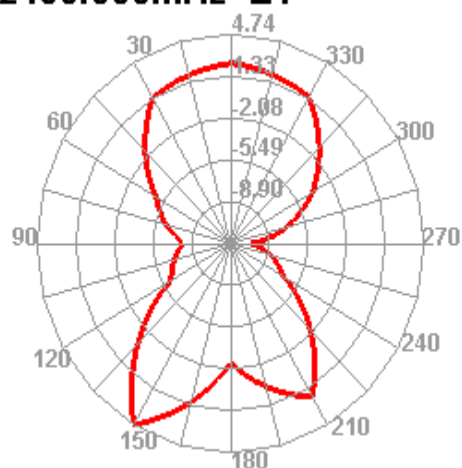
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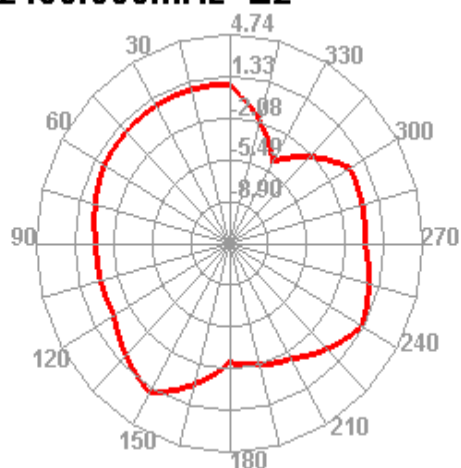
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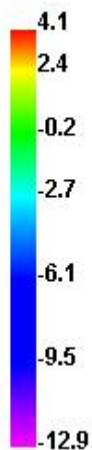
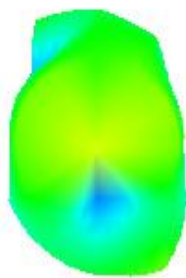
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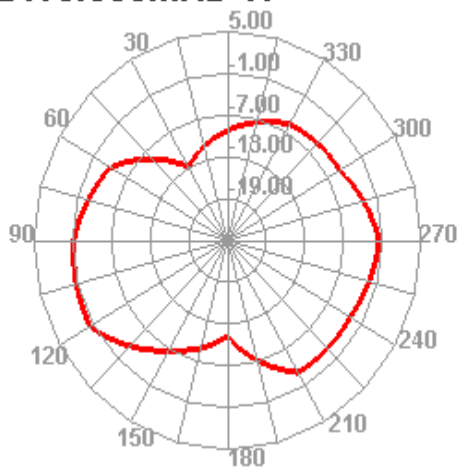
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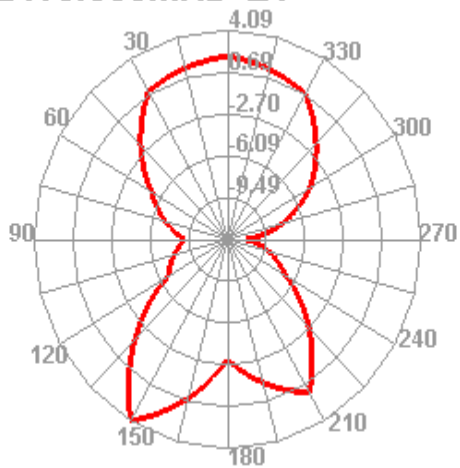
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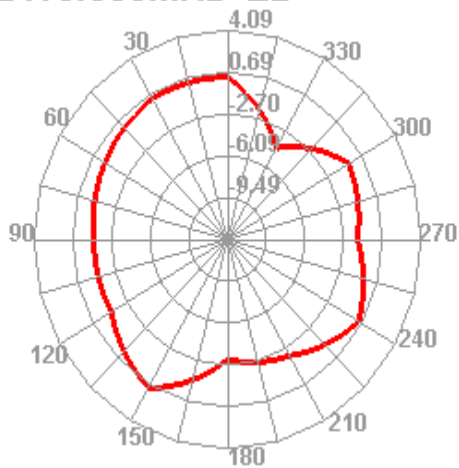
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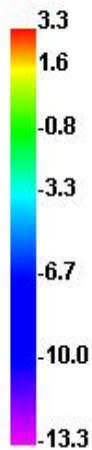
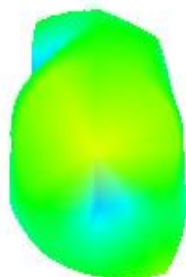
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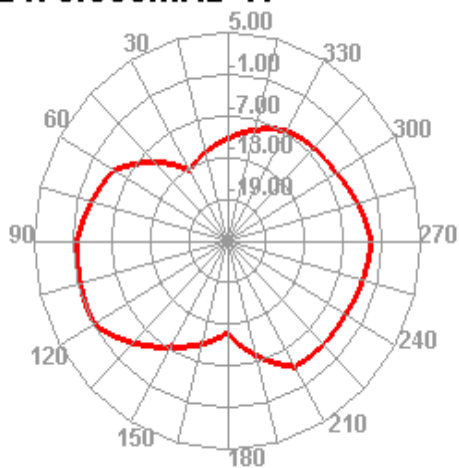
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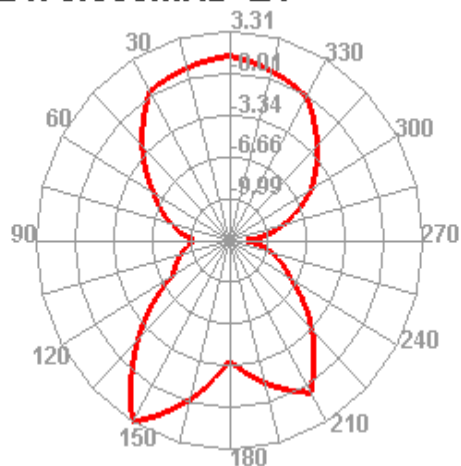
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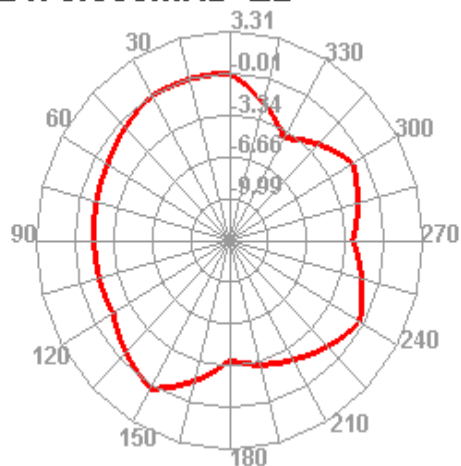
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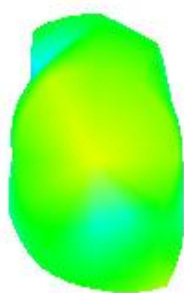
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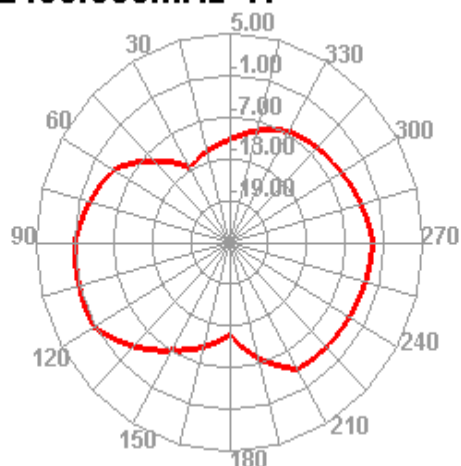
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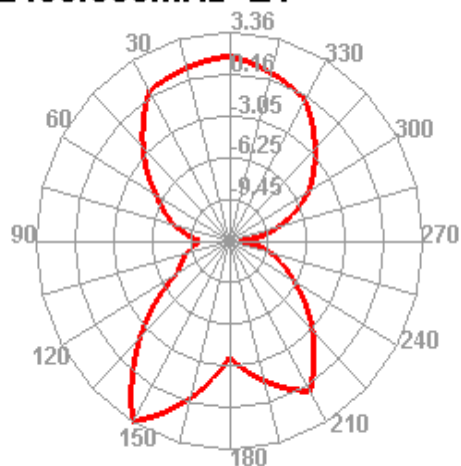
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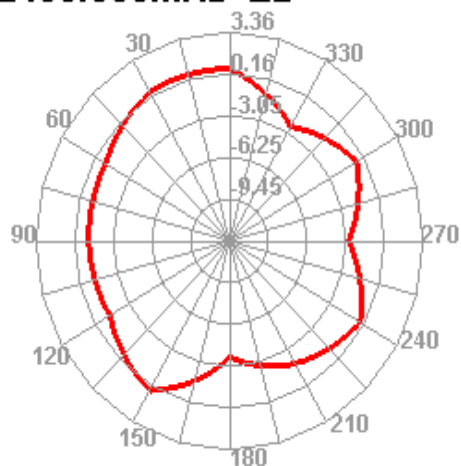
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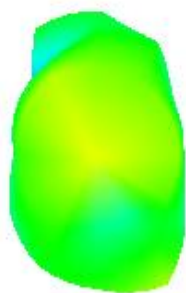
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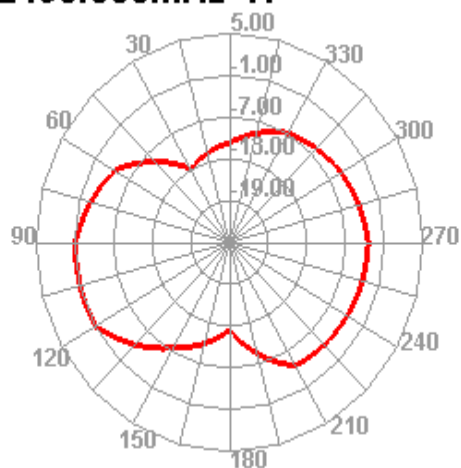
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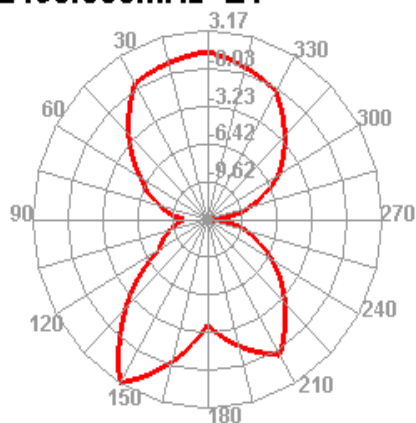
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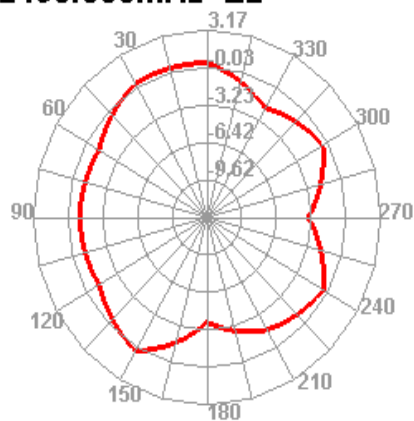
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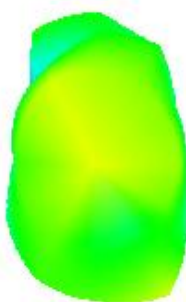
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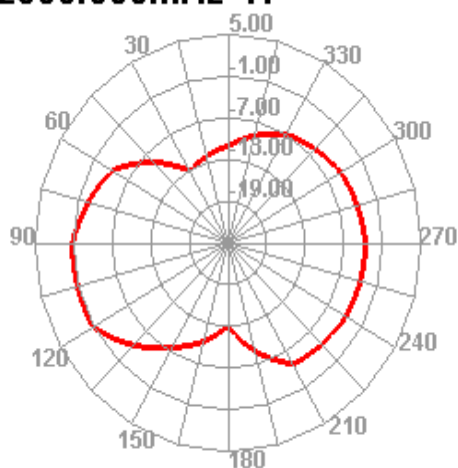
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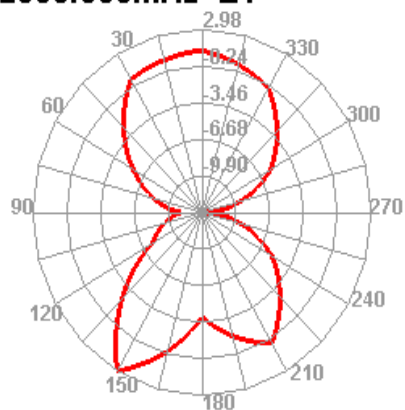
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

