



FTY-G284

Antenna test report

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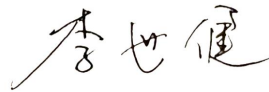
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Aidimengtuo Industrial Park, the 4th
Industrial Zone, shutianpu Community,
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Website: www.phaten.com

Customer Approval

Company Shenzhen Phaten Technology Co., Ltd.

Signature



Date

2022-3-15

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1. Product Description

Product Name	FTY-G284
Antenna Type	PCB antenna
Maximum	Gain: 1.96dBi
	Efficiency: 44.48%

2. General Description

EUT Name	FTY-G284
Wireless type	WIFI
Antenna Type	PCB antenna
Dimensions	Appendix A

3. Technical Information

Frequency Range	2402MHz~2480MHz
Test Frequency	2400,2410.....2500MHz

4. Test Standards

Identity	Document Title
IEEE 149-1979	IEEE Standard Test Procedures for Antennas

5. Test Item

Report Section	Description
Appendix B	S11A/SWR
Appendix C	Gain and Efficiency
Appendix D	Radiation Pattern (1D and 3D)

6. Test Photo

Report Section	Description
Appendix E	Test Setup Photo

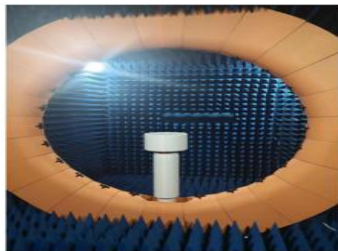
7. Darkroom test equipment and data

5.0 Test Equipment

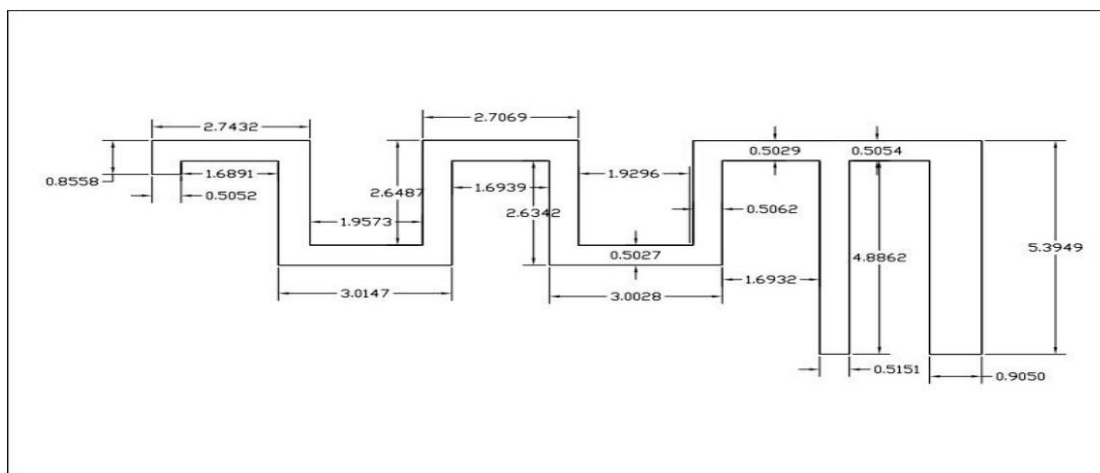
Test system: shielded darkroom

Test environment: temperature $22\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$, humidity $50\% \pm 15\%$

Test equipment: when testing passive data, use AgilentE5071C network analyzer; When testing the active data, use the comprehensive tester CMW500

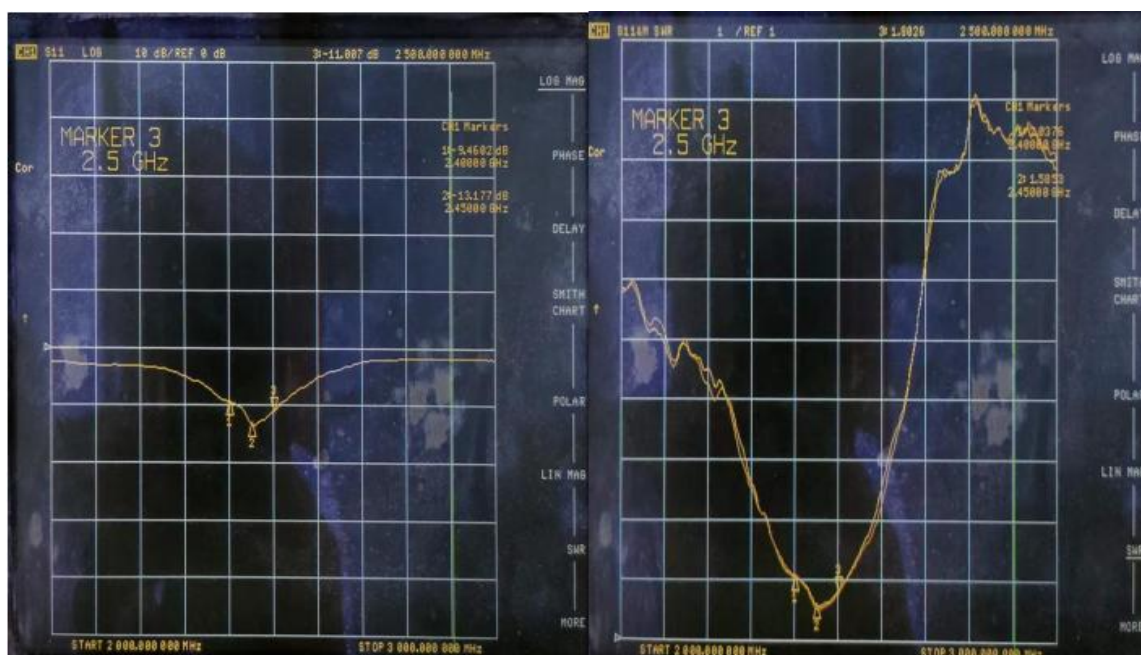


8. Appendix A Antenna Dimension



9. Appendix B SII/VSWR

frequency (MHz)	2400	2450	2500
Return Loss	-9.46	-13	-11
SWR	1.8	1.5	1.8



10. Appendix C Gain and Efficiency

Passive Test For D44										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	40.43	-3.93	0.7	-1.45	16.061	24.371	0.7	-17.16	49.18	49.3
2410	39.54	-4.03	0.86	-1.29	15.756	23.785	0.86	-16.67	49.23	49.45
2420	40.88	-3.89	1.4	-0.75	16.635	24.243	1.4	-18.58	49.06	49.29
2430	42.5	-3.72	1.67	-0.48	17.57	24.935	1.67	-17.79	49.12	49.32
2440	44.48	-3.52	1.96	-0.19	18.796	25.689	1.96	-16.72	49.75	50.01
2450	43.2	-3.65	1.84	-0.31	18.687	24.512	1.84	-17.35	49.82	50.08
2460	41.57	-3.81	1.53	-0.62	18.485	23.085	1.53	-19.76	49.85	50.08
2470	38.01	-4.2	1.07	-1.08	17.234	20.774	1.07	-21.44	49.76	49.97
2480	38.23	-4.18	0.77	-1.38	17.723	20.511	0.77	-21.64	49.66	49.8
2490	35.02	-4.56	0.3	-1.85	16.519	18.504	0.3	-20.83	49.54	49.68
2500	28.21	-5.5	-0.77	-2.92	13.358	14.85	-0.77	-21.32	49.32	49.42

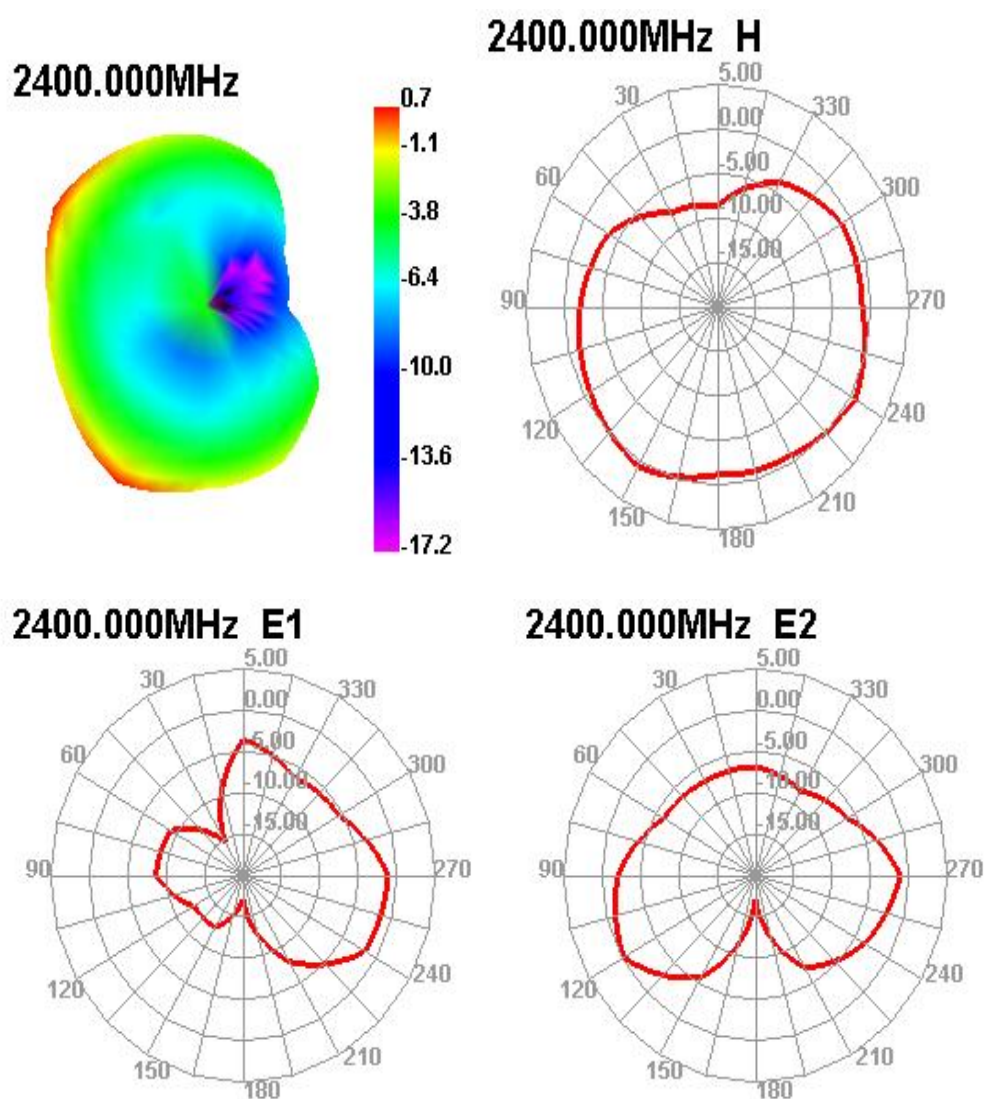
2400.00MHz - 2500.00MHz Gain



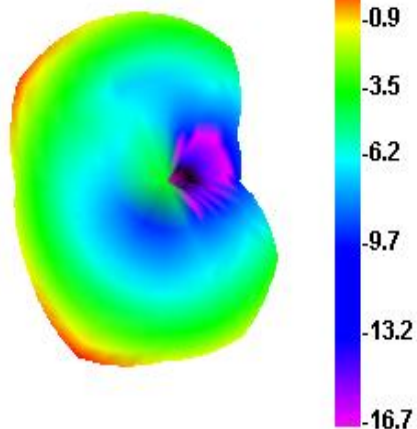
2400.00MHz - 2500.00MHz Efficiency



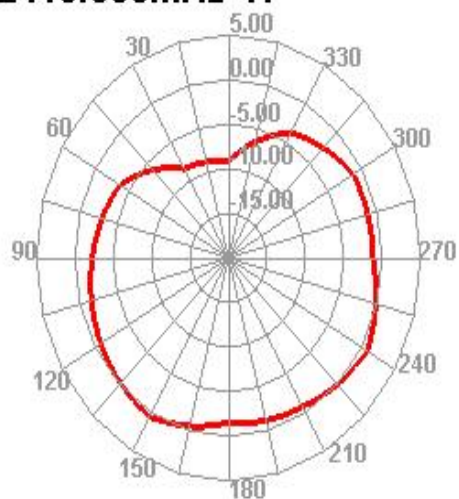
11. Appendix D Radiation Pattern(ID and 3D)



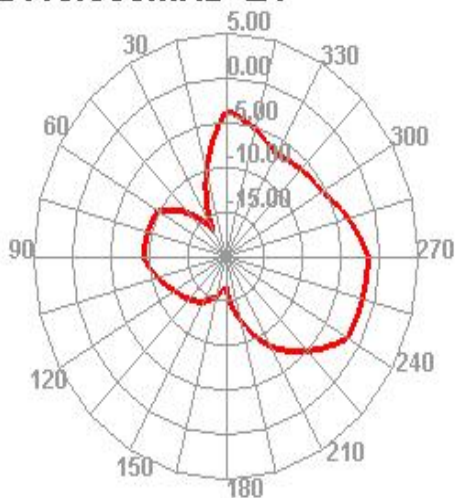
2410.000MHz



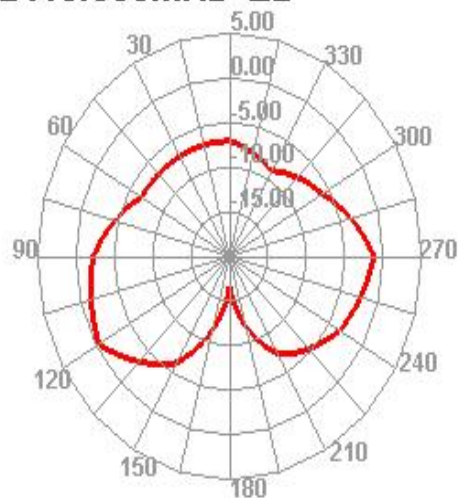
2410.000MHz H



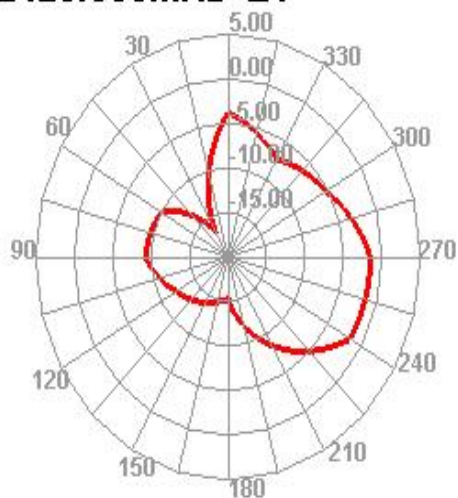
2410.000MHz E1



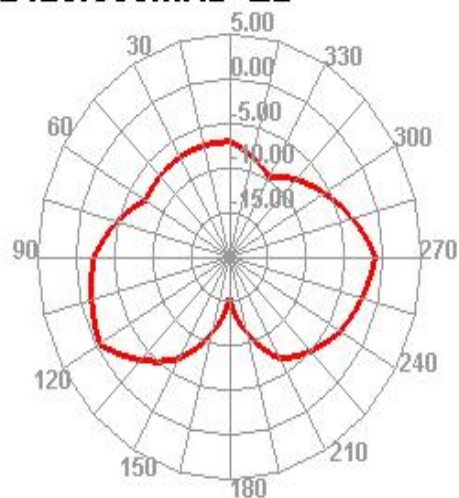
2410.000MHz E2



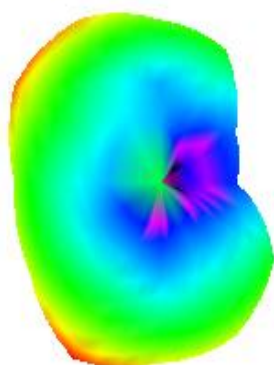
2420.000MHz E1



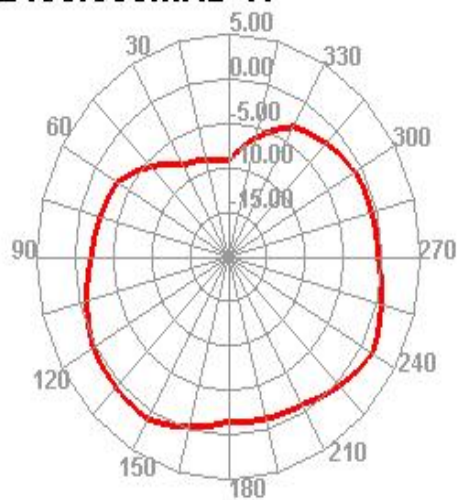
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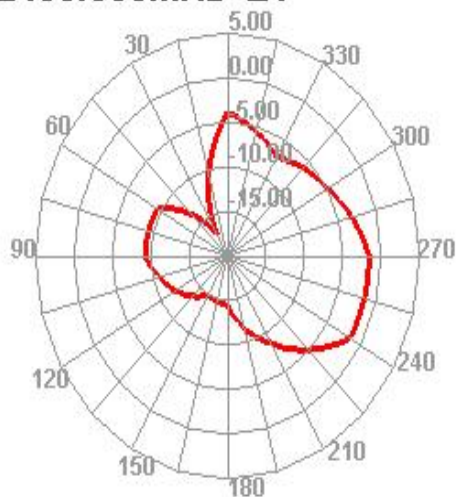
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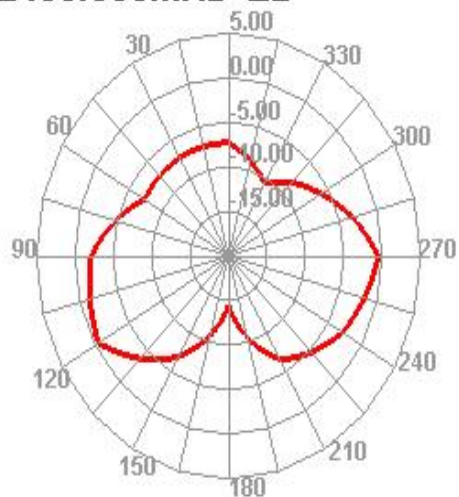
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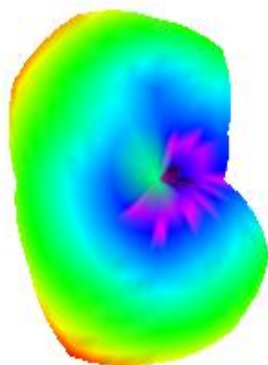
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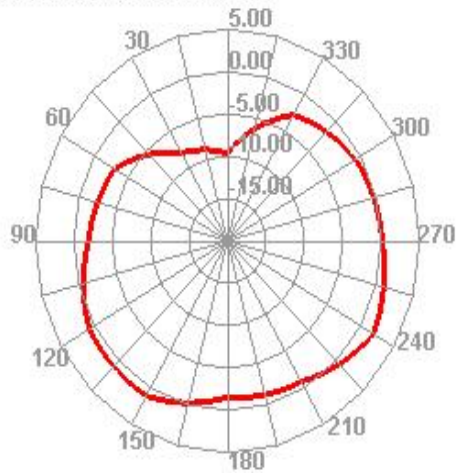
2430.000MHz E2



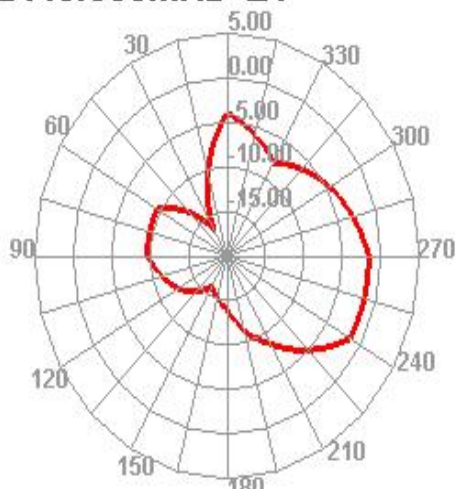
2440.000MHz



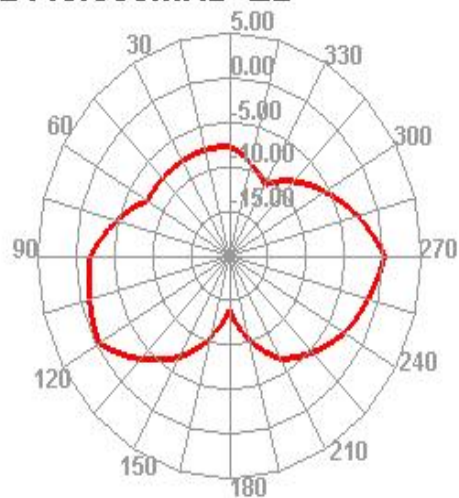
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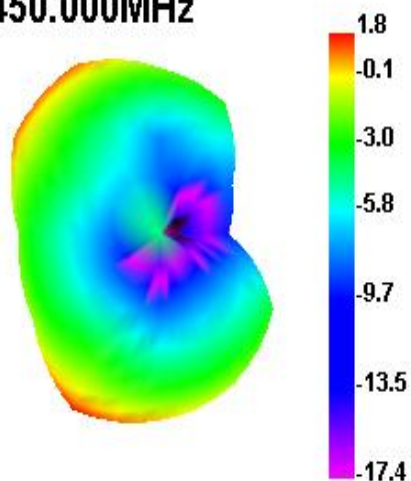
2440.000MHz E1



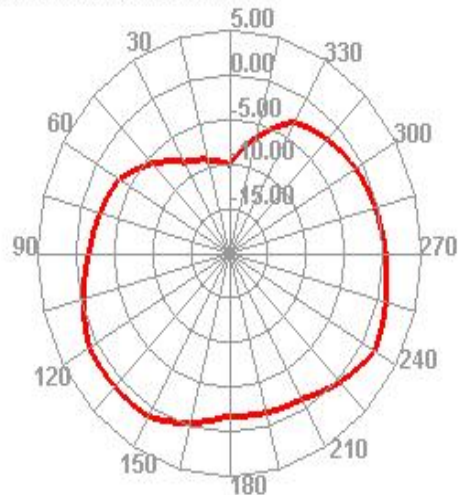
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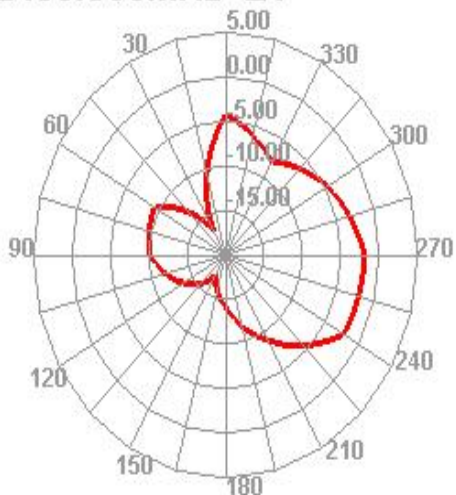
2450.000MHz



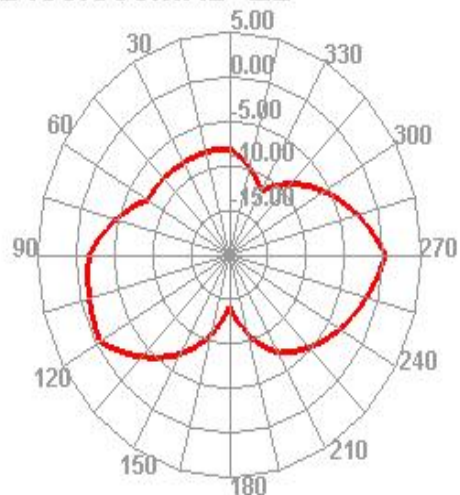
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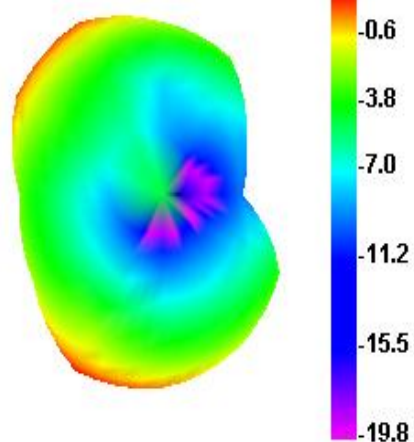
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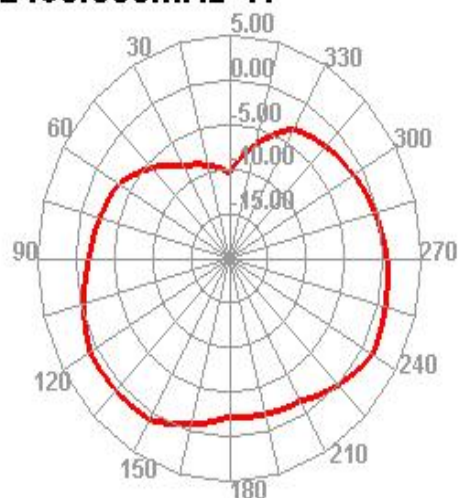
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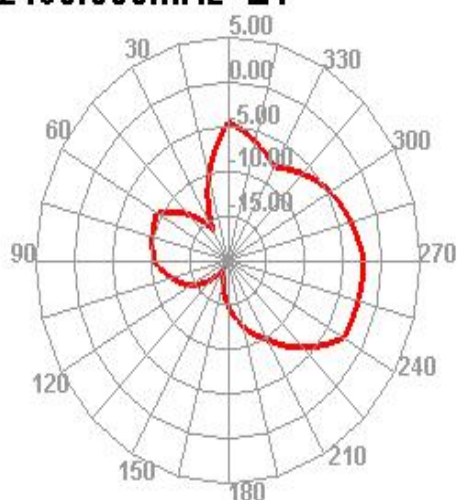
2460.000MHz



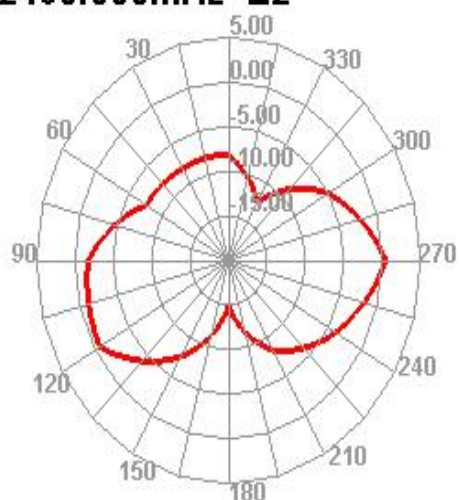
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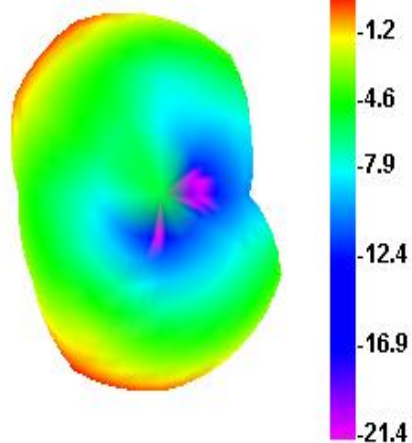
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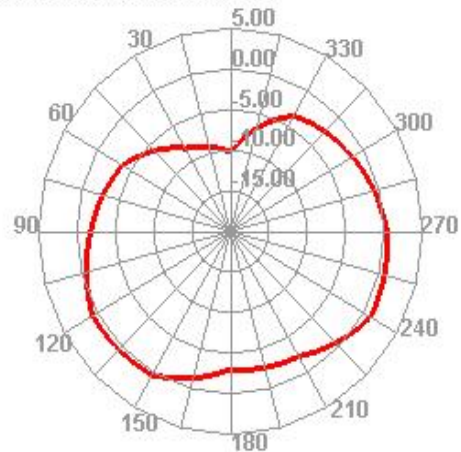
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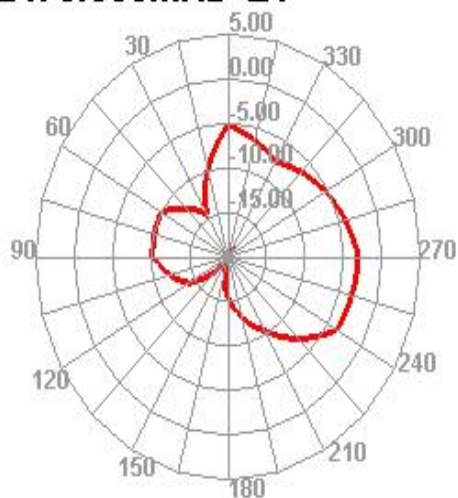
2470.000MHz



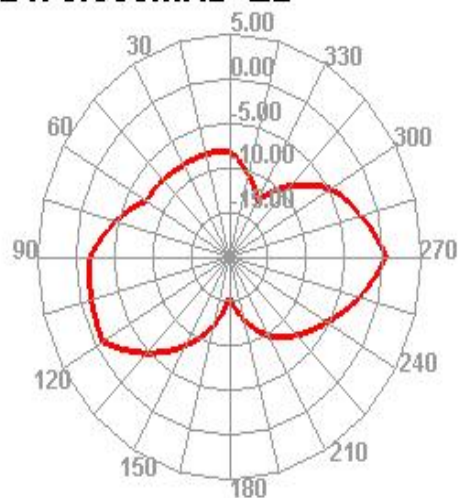
2470.000MHz H



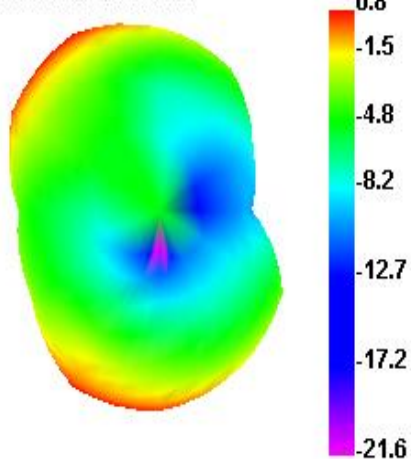
2470.000MHz E1



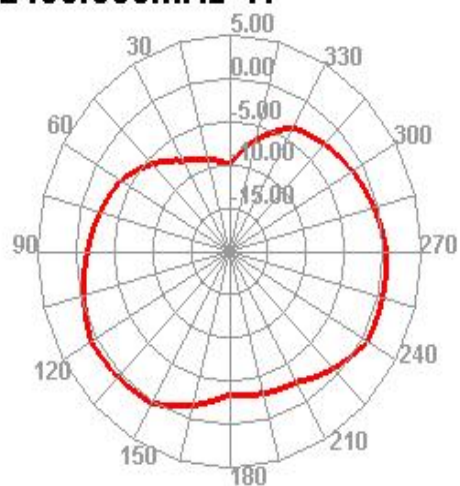
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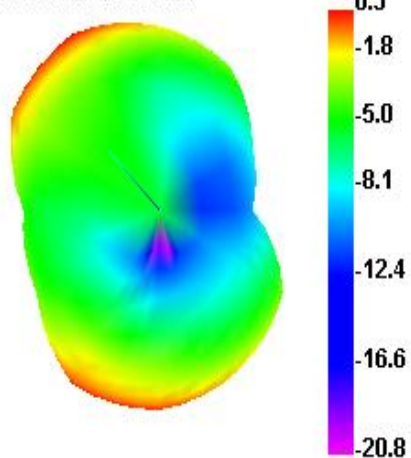
2480.000MHz



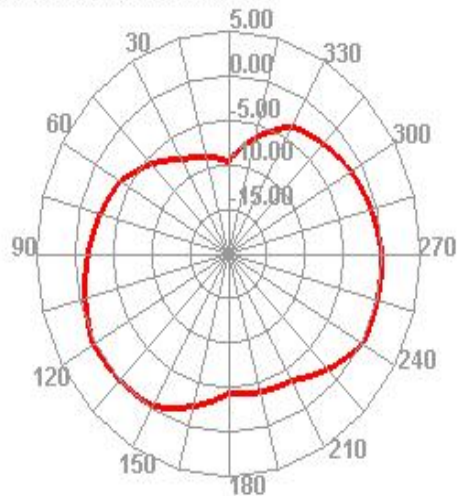
2480.000MHz H



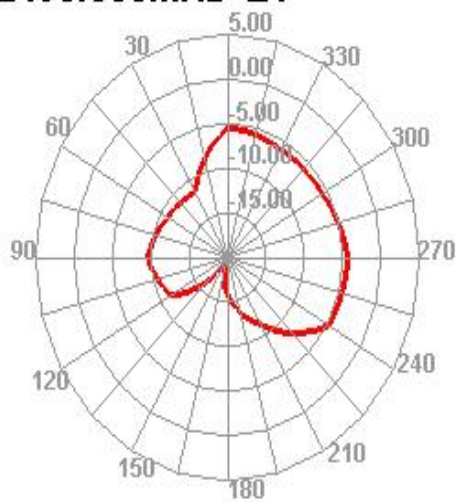
2490.000MHz



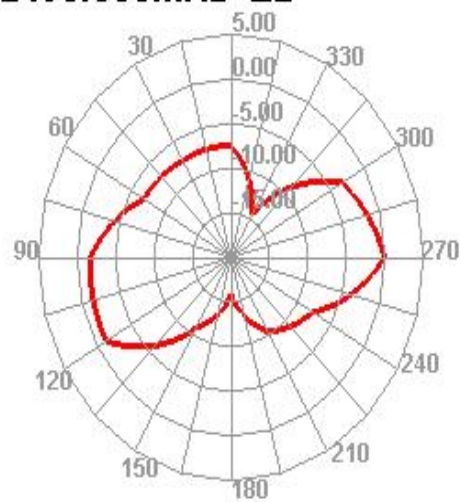
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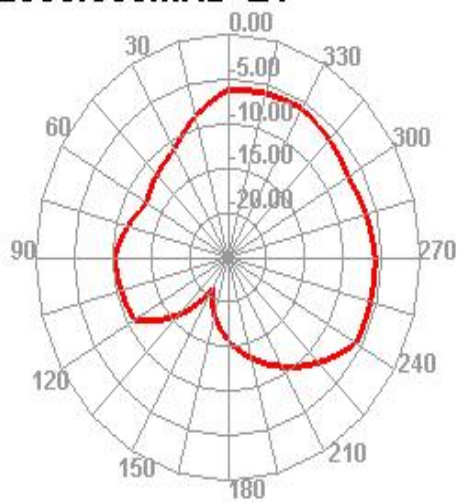
2490.000MHz E1



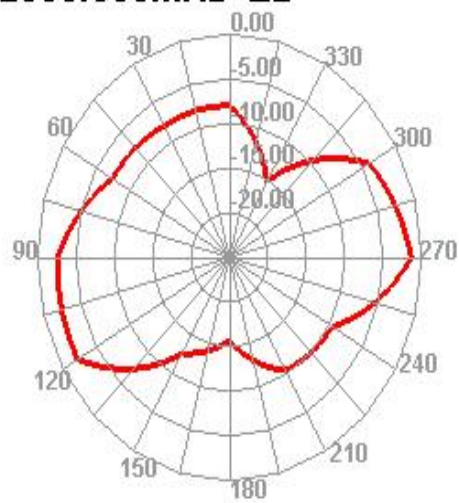
2490.000MHz E2



2500.000MHz E1



2500.000MHz E2



12. Appendix E Test Setup Photo

