



Antenna Specification

Manufacture: SYL

Product Name: LS-1816F-BT 黑暗骑士 Antenna

Antenna Type: PCB

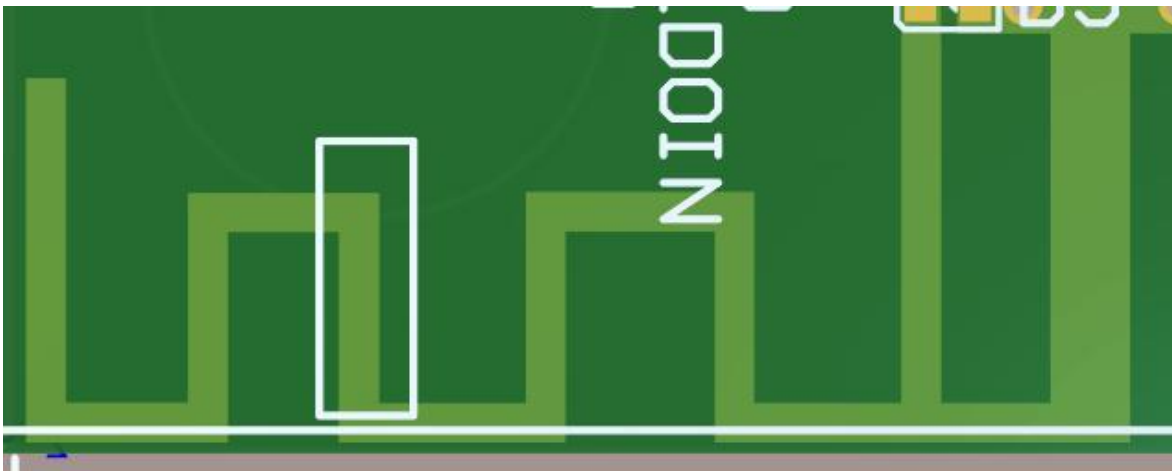
Test Date: 2025/7/26

Tested by:	Checked By:	Approved By:
ChengMingWei	DuLin	QianCongGen



1. General Description

Manufacturer:	Dong Guan SYL Technology CO.,LTD
Address:	Room 203,DongHui Industrial Park,No.198 DaTang Road, DongGuan, GuangDong,China
Product Name:	LS-1816F-BT 黑暗骑士 Antenna
Product model:	LS-1816F-BT 黑暗骑士
Antenna Type:	PCB Antenna
Test Frequency:	2400-2480MHz
Antenna Gain:	>-4dBi
VSWR:	<3.2
Impedance:	50Ω
Polarization:	Linear



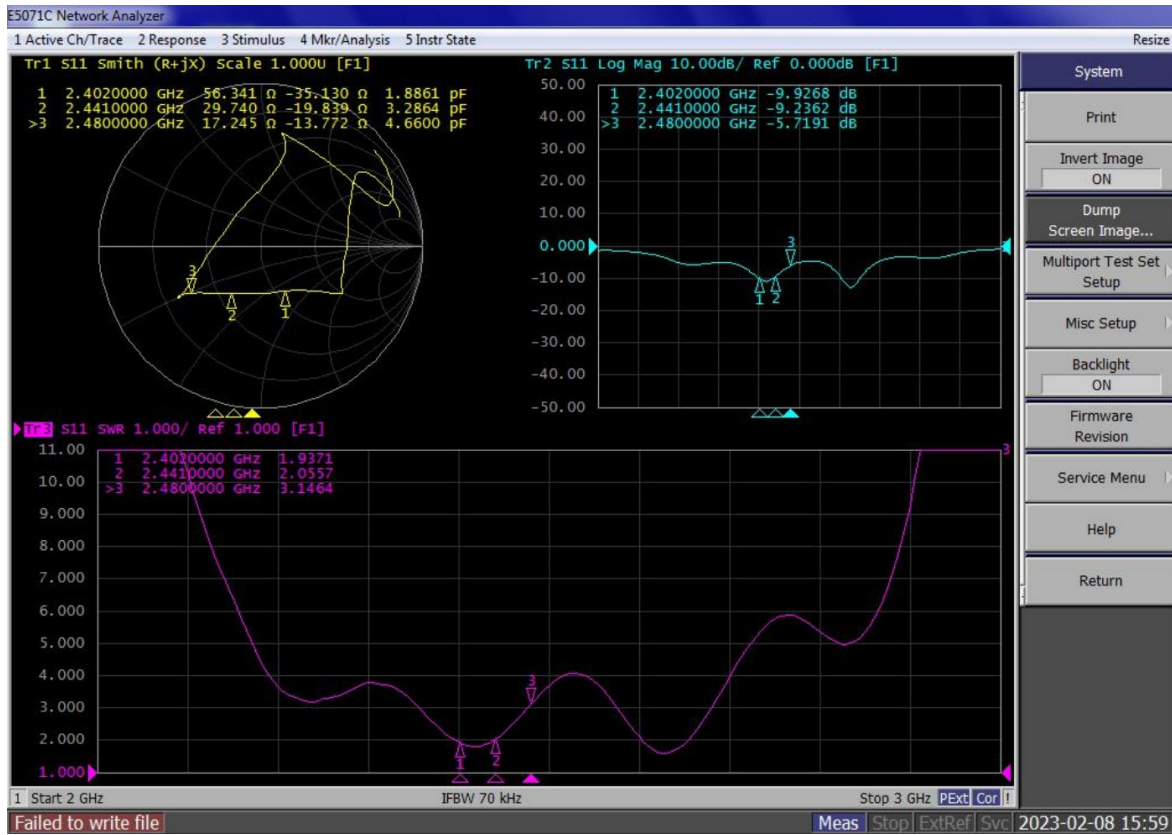


3.Gain and Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)	AverageGain (dBi)	Efficiency (dB)
2400	1.433	59.329%	-2.717	-2.267
2410	0.927	51.861%	-3.416	-2.852
2420	0.829	52.112%	-3.166	-2.831
2430	0.881	49.299%	-3.258	-3.072
2440	1.192	50.672%	-3.144	-2.952
2450	1.688	53.067%	-2.735	-2.752
2460	2.194	59.423%	-2.276	-2.260
2470	2.118	56.680%	-2.438	-2.466
2480	2.499	61.727%	-2.112	-2.095
Average	1.529	54.908%	-2.806	-2.616
Peak	2.499	61.727%	-2.112	-2.095

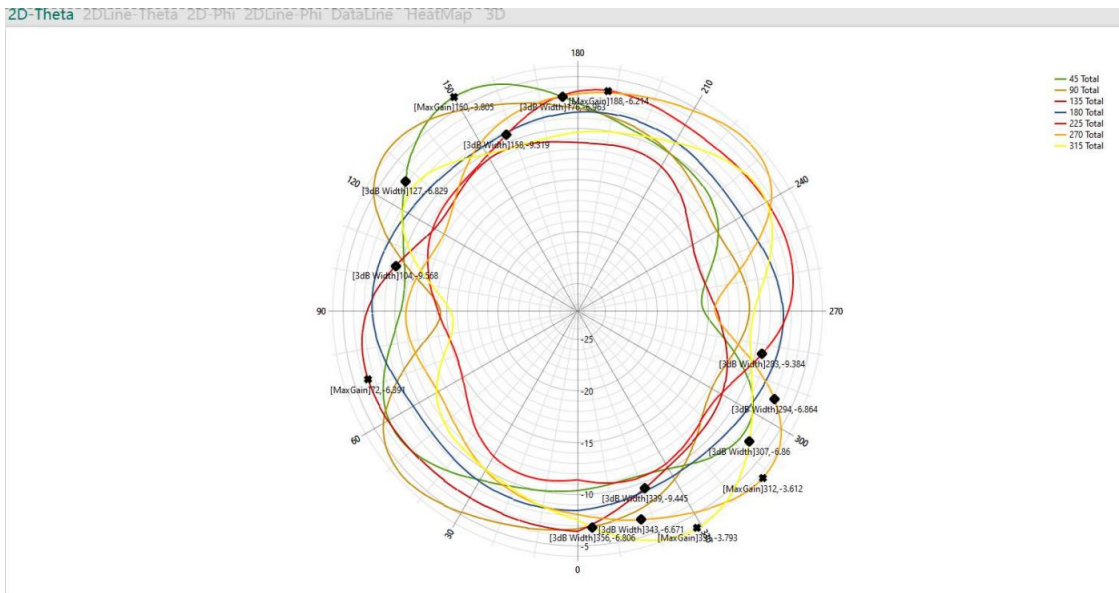


4.ReturnLoss

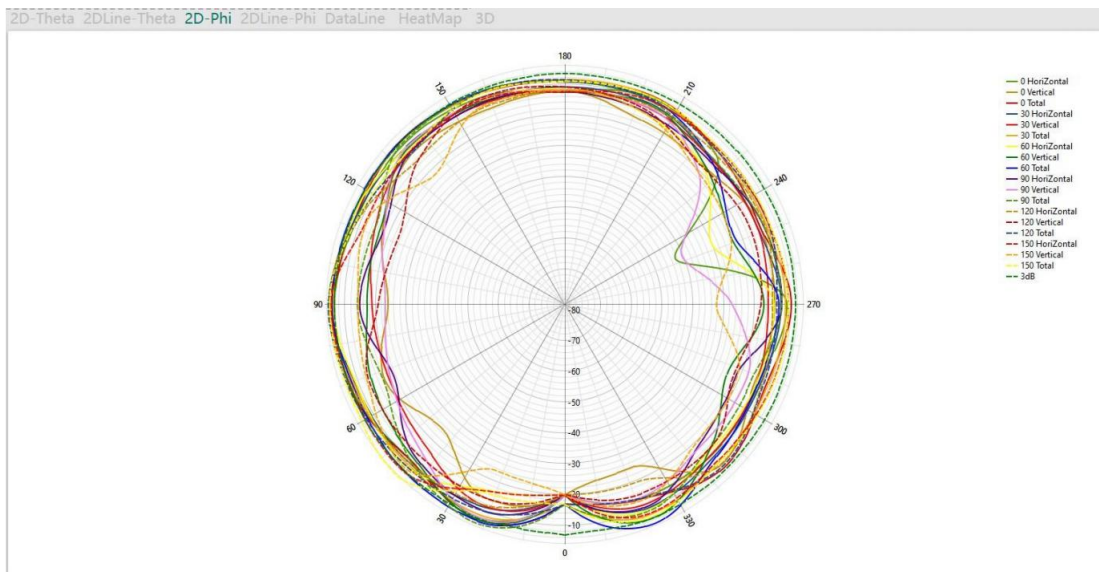




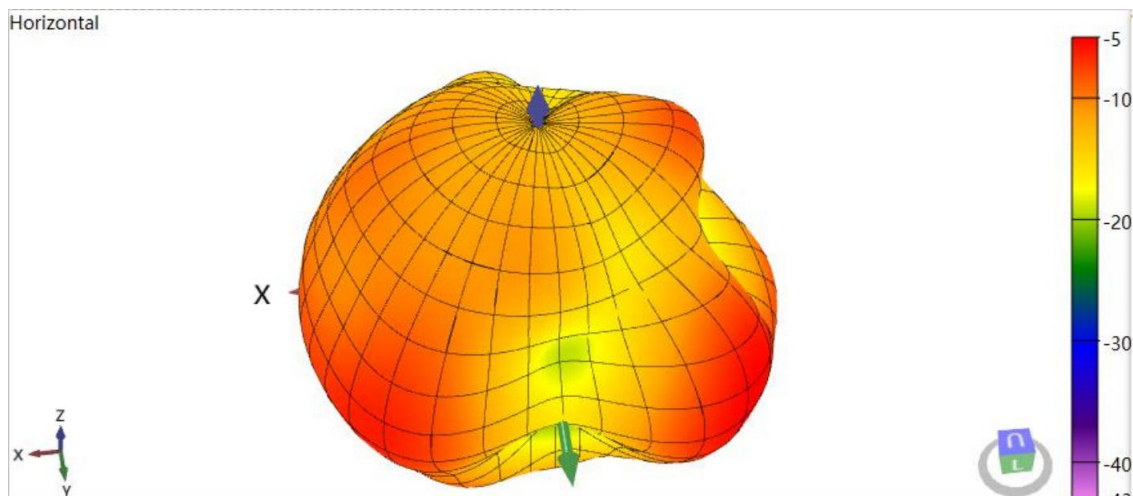
5. Antenna2440MHz2D-ThetaPattern



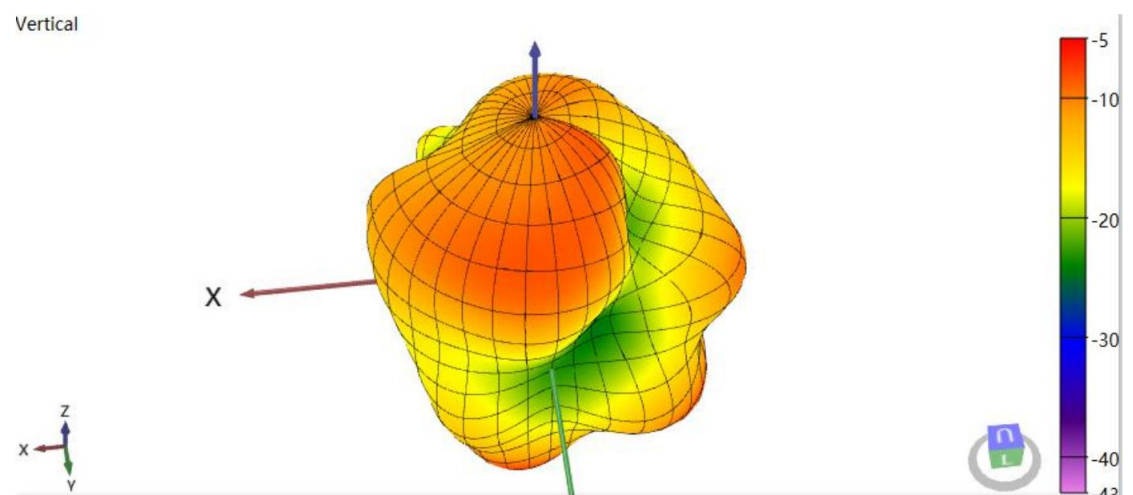
6. Antenna2440MHz2D-PhiPattern



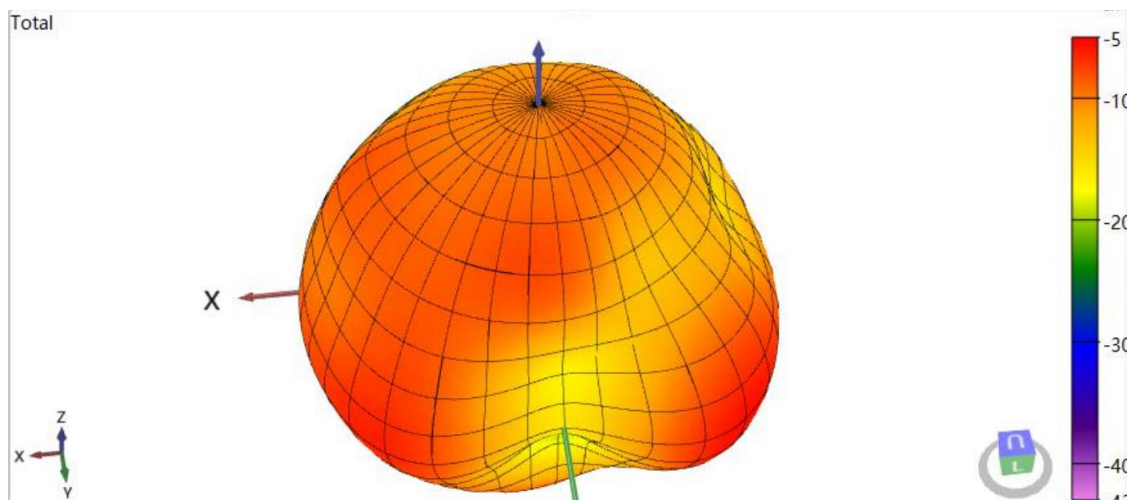
7. Antenna2440MHz3D-HorizontalPattern



8. Antenna2440MHz3D-VerticalPattern



9. Antenna2440MHz3D-TotalPattern



10.Test Setup Photo

