

产 品 规 格 书

PRODUCT SPECIFICATION SHEET

客户名称 Customer Name: _____

品名规格 Product Name: 2.4G WiFi Antenna L=37mm

零件编号 Part No. : LYA10137A

样品数量 Quantity: 0 Pcs

送样日期 Approve Date: 2025-12-12

版本 Version: V0

工程确认:

核准	工程	制作	签章
Approval	Quality	Engineer	

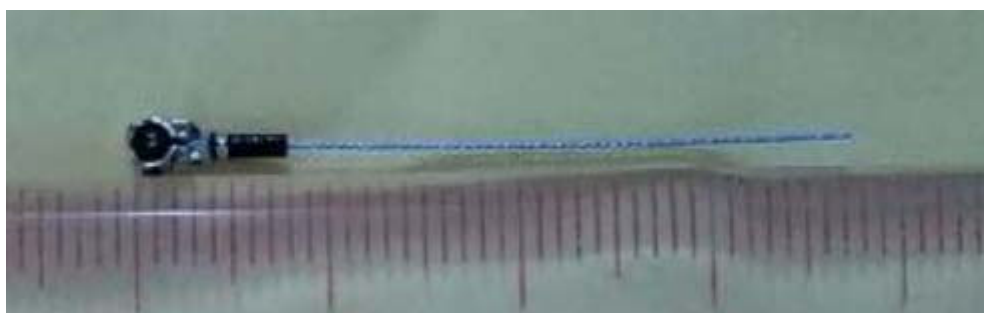
客户确认:

核准	研发	品质	签章
确认结果: ☐ 合格 ☐ 不合格 ☐ 其它			

本测试报告属于东莞市蓝一通讯科技有限公司和相关客户文件，请妥善保管，在没有我们公司允许的情况下，任何人都不能重新向公众公布的权利。

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1.0 实物图 (Physical drawing)



2.0 Electrical Properties

- | | |
|-----------------------------------|----------------------------|
| 1.1 中心频率 (Center Frequency) | 2.4-2.5GHz |
| 1.2 馈电阻抗 (impedance) | 50ohm |
| 1.3 电压驻波比 (VSWR) | <2.0:1MAX |
| 1.4 回波损耗 (Return Loss) | -10dB Max |
| 1.5 最大增益(Peak Gain) | 2.4-2.5GHz ≤2dBi Peak Gain |
| 1.6 极化 (Polarization) | Linear |
| 1.7 天线接口 (Interface) | IPEX |
| 1.8 天线尺寸 (Size) | Ø1.13mm×37mm |

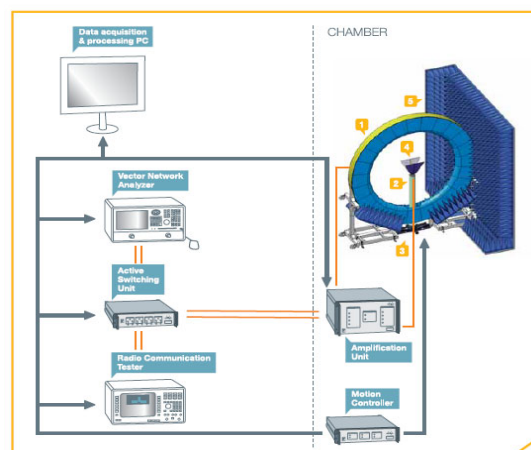
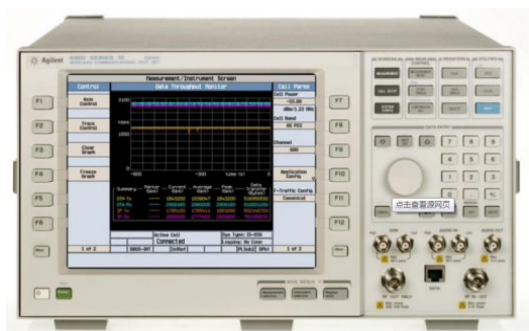
Mechanical Specification:

- | | |
|--|------------|
| 2.0 工作温度 (Operation Temperature) | -40℃- +80℃ |
|--|------------|

3.0测试设备 (Test equipment)

我司产品的测试环境为 SATIMO SG24 3D 暗室，

所用设备为安捷伦 E5071C 网络分析仪和 8960 综测仪。



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4.0 图纸 Mechanical Drawing (Unit: mm)

RoHS Compliant

Specification:

Frequency Rang:2.4~2.5GHz

Return Loss:-10dB or less

VSWR:1.92 Max

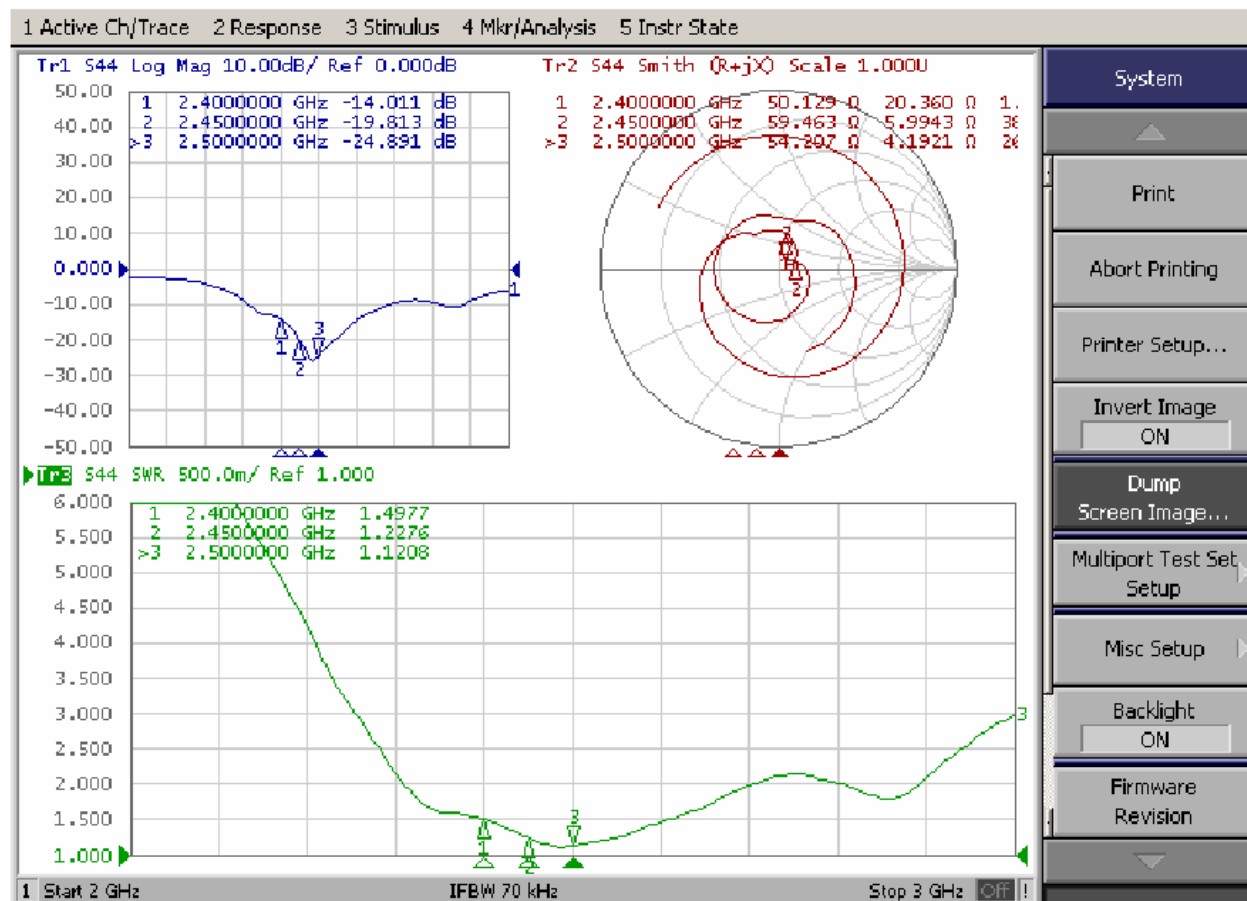
Gain:2.0 dBi

2	Connector	CONN	U.FL Au Plated	1
1	Cable	RG1.13	Black	1
No.	Description	Material	Finished	Q'ty

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TITLE: 2.4GHz天线 L=37mm								
PART NO.: LYA10137A		DWG NAME:HL-A101.dwg						
APPROVED BY	CHECKED BY	DESIGNED BY	 		Tolerance X. ±1.0 X.X ±0.5 X.XX ±0.2			
		马 兰						
			UNITS: mm					
			SCALE: 1/1					
			REVISION: A					

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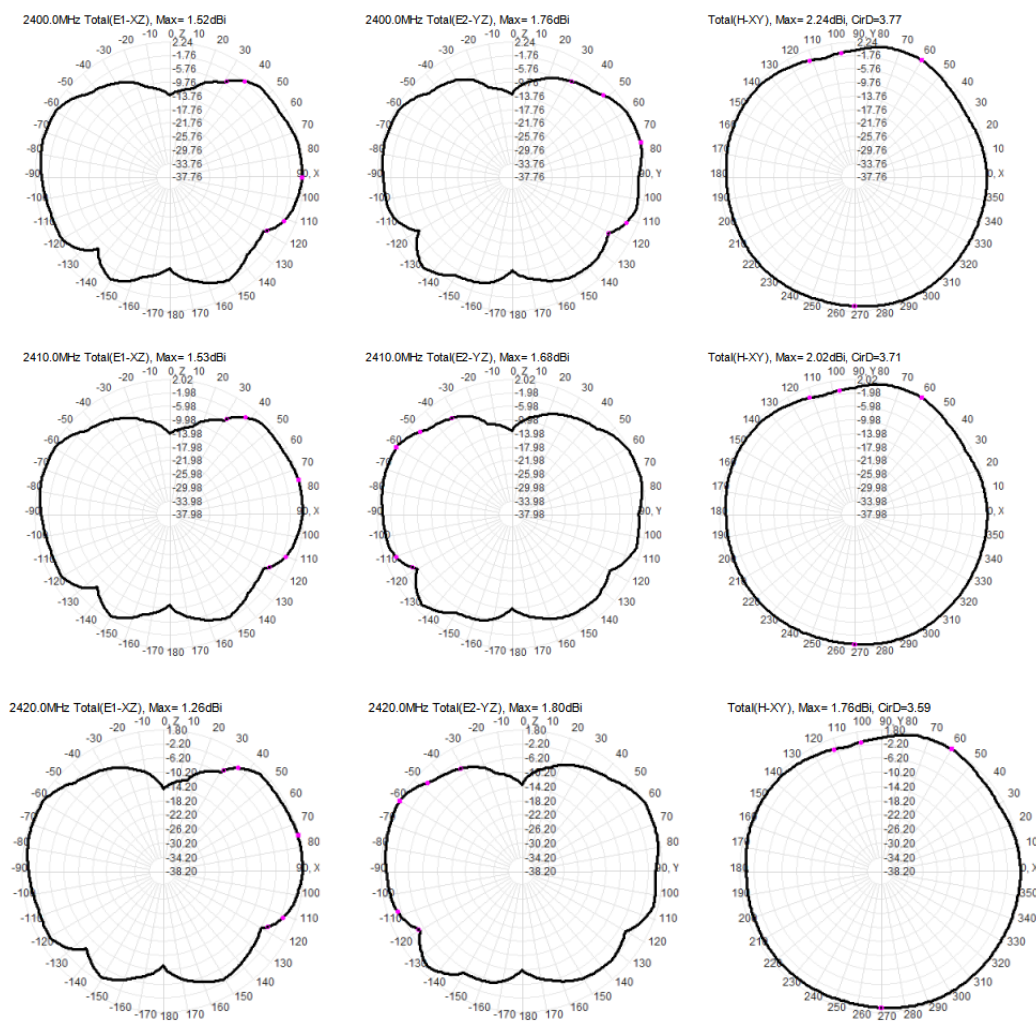
5.0 Return Loss, SWR



6.0 Efficiency&Gain

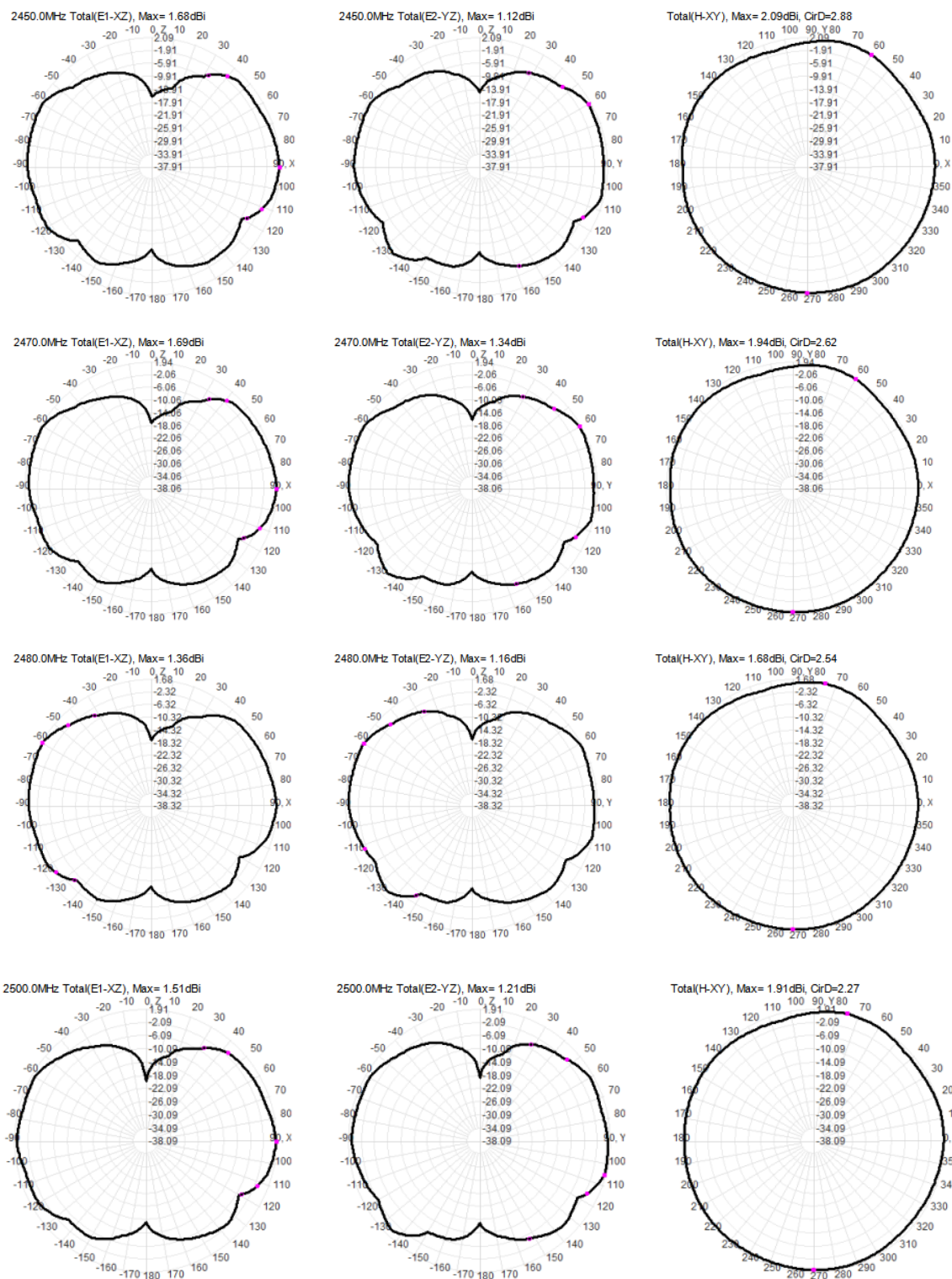
Frequency ID	1	2	3	6	8	9	11
Frequency (MHz)	2400.0	2410.0	2420.0	2450.0	2470.0	2480.0	2500.0
Gain (dBi)	2.67	2.51	2.12	2.09	1.94	1.68	1.91
Efficiency (%)	80.57	80.95	79.57	80.28	80.41	78.63	78.38
Directivity (dB)	3.61	3.43	3.12	3.05	2.89	2.73	2.97
Peak Gain Position (Theta)	75.00	75.00	75.00	90.00	90.00	90.00	90.00
Peak Gain Position (Phi)	105.00	105.00	105.00	60.00	60.00	75.00	75.00
Efficiency ThetaPol (%)	76.27	76.92	75.83	77.06	77.62	76.03	75.98
Efficiency PhiPol (%)	4.30	4.03	3.74	3.22	2.79	2.60	2.40
Upper Hem. Efficiency (%)	47.82	49.29	48.46	45.55	46.99	45.22	43.00
Lower Hem. Efficiency (%)	32.74	31.66	31.12	34.72	33.42	33.41	35.38

7.0 2D Radiation Pattern



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