



1. Antenna specification/天线标准

Antenna specification/天线技术参数		
Electrical specification/电气特性		
Item/目录	Specification/规格	Comment/备注
Freq. range/频段范围	2400-2530 (MHz)	
Impedance/阻抗	50 (Ω)	
VSWR/驻波比	≤ 1.5	
Directional/辐射方向	Omni directional	
Polarization/极化形式	Vertical	
Peak gain/峰值增益	3.97(dBi)	
Test condition/测试条件	passive test (无源测试)	
Passive efficiency/无源效率	$> 58\%$	
Mechanical Specification/机械指标		
Antenna type/天线类型	FPC	
Connector type/连接器类型	USS RF I	
RF cable type/射频线型号	1.37 BK	
Connector torque test/连接器扭力	N/A	
Connector pull test/连接器拉力	15N MIN	
Salt spray/盐雾测试	48 (H)	
Environmental specification /环境指标		
Operating temp/工作温度	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$	
Storage temp/存储温度	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	

2. Antenna picture/天线图片



ELECTRIC
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Product specification

P/N:

81800V478

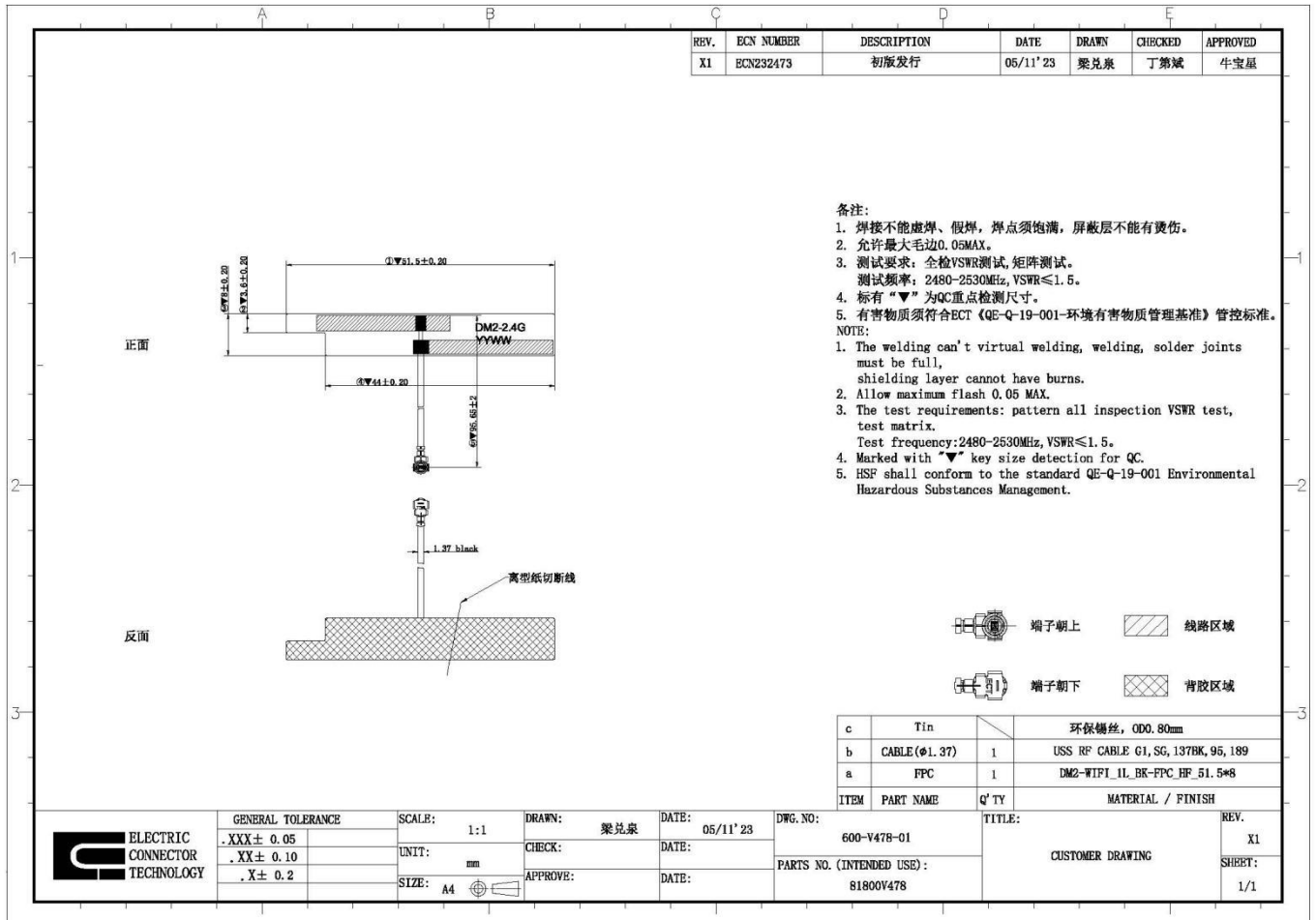
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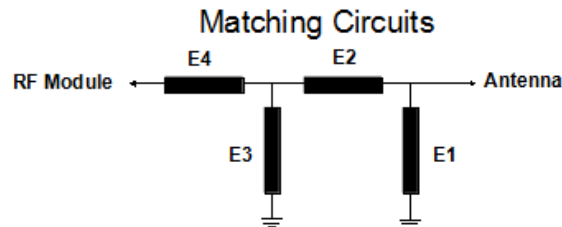
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3. DWG/工程图纸



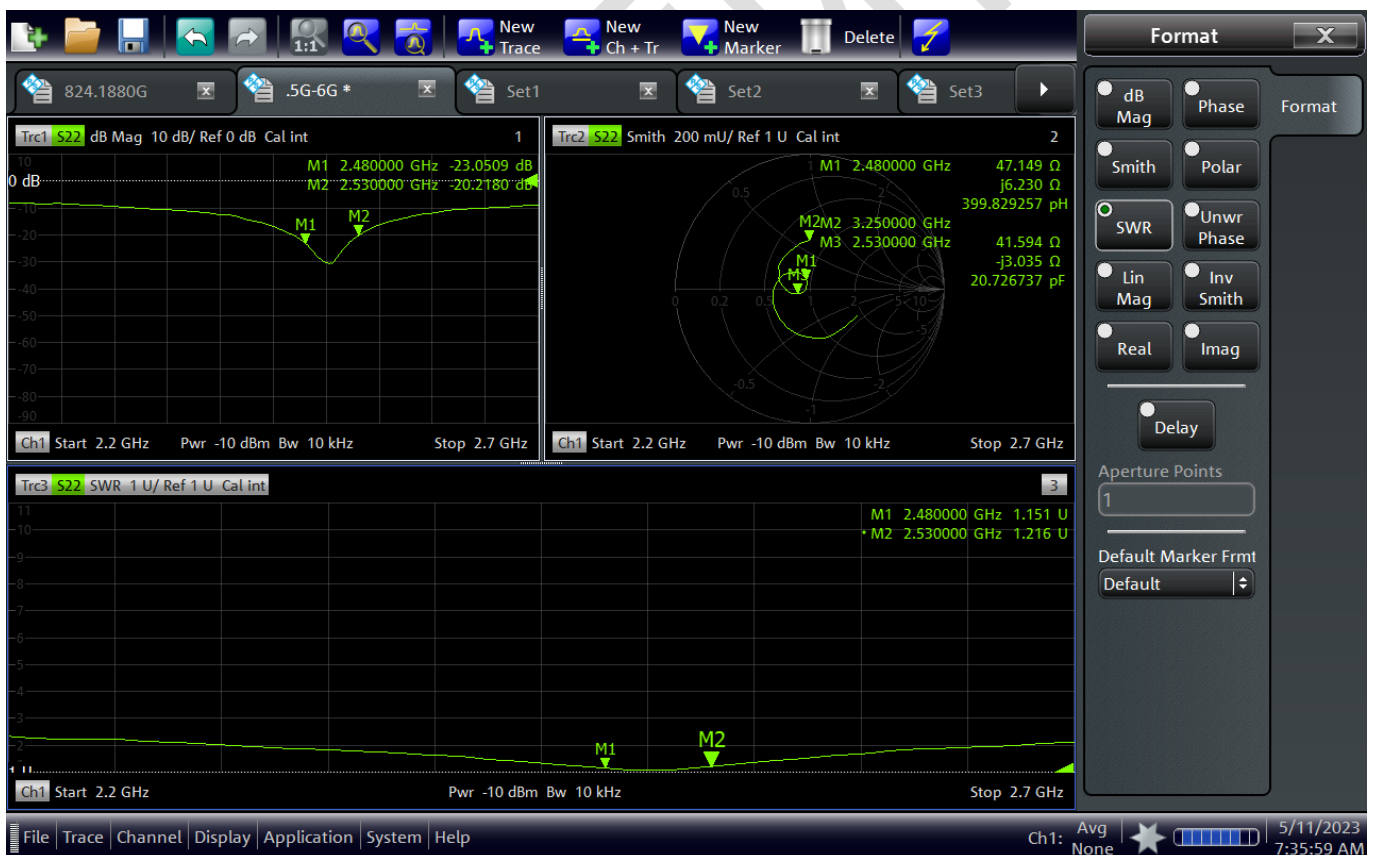
4. Antenna test result/测试结果

4.1 The matching circuits/匹配电路



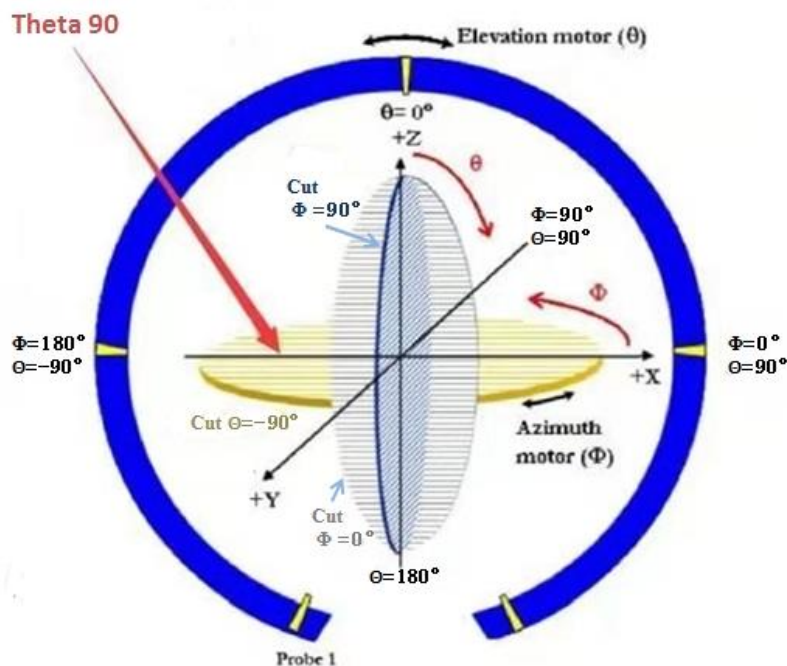
Element	Value
E1(0201)	NC
E2(0201)	0 Ω
E3(0201)	NC
E4(0201)	0 Ω

4.2 Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波比

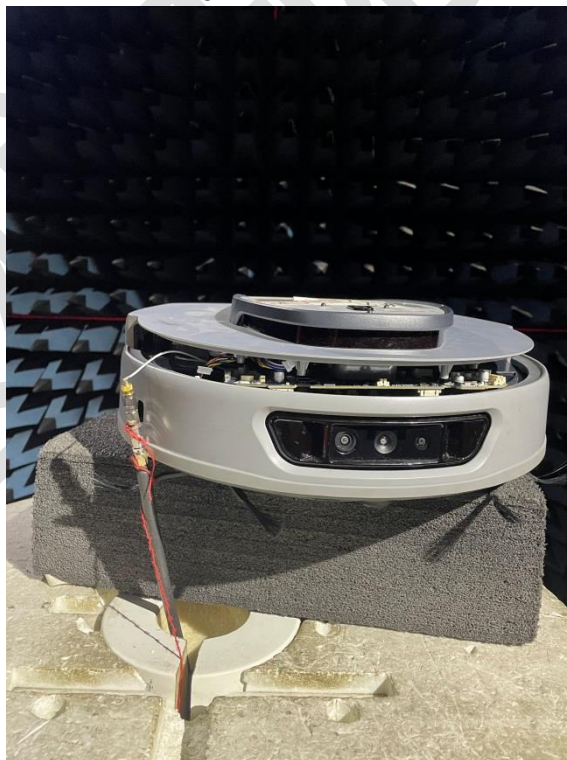


4.3 The gain and total efficiency test/增益和效率测试

4.3.1 The definition of coordinate system/坐标系定义-Satimo SG24



The coordinate system of Chamber/暗室坐标系



The production test position/天线测试放置位置



4.3.2 The test result of total efficiency and total gain/天线效率及增益测试结果

2400MHz-2530MHz

Frequency	Efficiency (%)	Gain (dBi)
2400MHz	62%	3.76
2402.5MHz	62%	3.82
2405MHz	62%	3.89
2407.5MHz	62%	3.95
2410MHz	62%	3.91
2412.5MHz	62%	3.89
2415MHz	62%	3.83
2417.5MHz	62%	3.76
2420MHz	62%	3.73
2422.5MHz	62%	3.67
2425MHz	62%	3.63
2427.5MHz	62%	3.58
2430MHz	62%	3.5
2432.5MHz	62%	3.56
2435MHz	62%	3.57
2437.5MHz	62%	3.63
2440MHz	61%	3.56
2442.5MHz	62%	3.71
2445MHz	61%	3.73
2447.5MHz	61%	3.82
2450MHz	61%	3.84
2452.5MHz	61%	3.85
2455MHz	61%	3.8
2457.5MHz	61%	3.76
2460MHz	61%	3.78
2462.5MHz	60%	3.97
2465MHz	60%	3.86
2467.5MHz	60%	3.83
2470MHz	60%	3.74
2472.5MHz	60%	3.68
2475MHz	61%	3.65
2477.5MHz	61%	3.55
2480MHz	58%	3.74
2482.5MHz	59%	3.69
2485MHz	59%	3.64
2487.5MHz	59%	3.61
2490MHz	59%	3.59
2492.5MHz	59%	3.54
2495MHz	60%	3.52
2497.5MHz	60%	3.51
2500MHz	60%	3.52
2502.5MHz	59%	3.48



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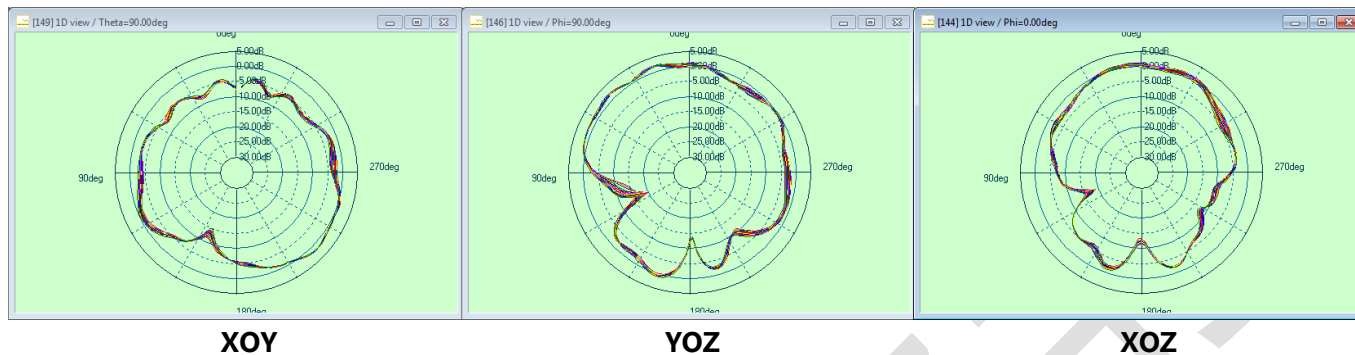
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2505MHz	59%	3.45
2507.5MHz	59%	3.43
2510MHz	59%	3.43
2512.5MHz	58%	3.4
2515MHz	58%	3.37
2517.5MHz	58%	3.32
2520MHz	58%	3.26
2522.5MHz	58%	3.24
2525MHz	58%	3.17
2527.5MHz	58%	3.06
2530MHz	58%	2.94
AVG	60%	3.62

4.3.3 The antenna radiation pattern(1D View)/天线辐射方向图 (2D View)

2400MHz-2530MHz



4.3.4 The antenna radiation pattern(3D View)/天线辐射方向图 (3D View)

Frequency/频点 2505MHz

