

Shenzhen Zhitong Lian Technology Co. , Ltd

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APPROVAL SHEET

客 户

Customer:

品 名 规 格

DESCRIPTION:

YD-008-WIFI-PCB Antenna -113 Black -L200

料 号

PART NO.:

客 户 料 号

CUS PART NO.:

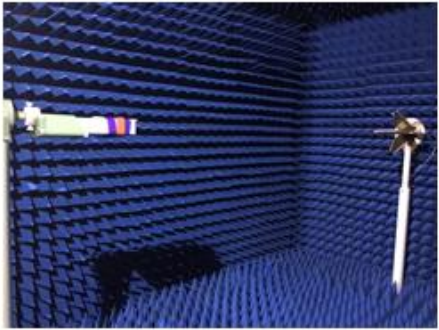
日 期

D A T E:

2024. 4. 15

1.测试项目与设备 (Test items and equipment)

	测试项目 Test items	设备 Equipment
1. S11 参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	网络分析仪: Agilent E5071B Network analyzer: HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. 暗室: ETS 7x4x3 m (3D) Chamber Darkroom: ETS 5x3x3 m (3D) Chamber 2.综合测试仪: Agilent 8960 E5515B ×2 Comprehensive tester: StarPoint SP6011
3.无源测试 (Passive)	1.天线增益 (Gain) 2.天线效率 (Efficiency)	1. 暗室: ETS 7x4x3 m (3D) Chamber Darkroom: ETS 5x3x3 m (3D) Chamber 2. 网络分析仪: Agilent E5071B Network analyzer: HP 8753D



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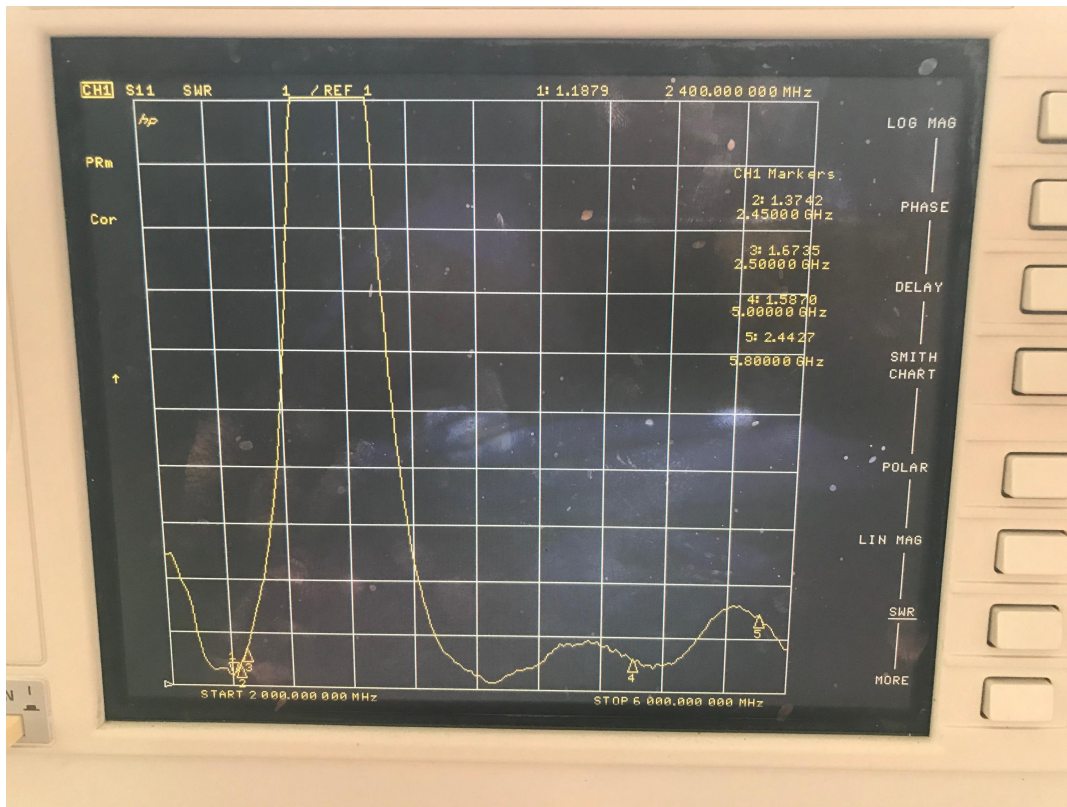
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2.WiFi 天线性能 (WiFi antenna performance)

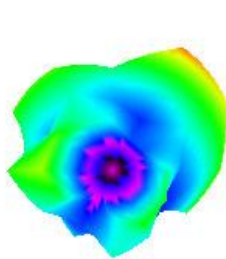
SWR



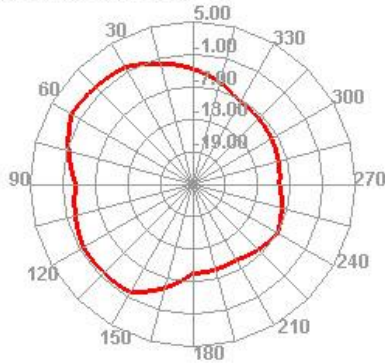
3.WiFi 天线效率与增益 （ WiFi antenna efficiency and gain）

Passive Test For WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenuat Hor	Attenuat Ver
2400	42.6	-3.71	1.14	-1.01	20.069	22.531	1.14	-20.67	48.09	47.94
2410	42.07	-3.76	0.99	-1.16	19.589	22.482	0.99	-21.9	48.07	47.87
2420	40.27	-3.95	0.69	-1.46	18.558	21.717	0.69	-22.97	48.18	48
2430	42.37	-3.73	0.77	-1.38	19.394	22.972	0.77	-23.15	48.17	47.99
2440	45.92	-3.38	1.31	-0.84	20.978	24.94	1.31	-22.51	48.33	48.11
2450	46.54	-3.32	1.47	-0.68	21.196	25.349	1.47	-21.75	48.44	48.14
2460	46.21	-3.35	1.57	-0.58	20.994	25.217	1.57	-22.41	48.41	48.06
2470	48.25	-3.17	1.82	-0.33	21.846	26.402	1.82	-21.92	48.49	48.11
2480	47.73	-3.21	1.78	-0.37	21.52	26.213	1.78	-21.78	48.63	48.18
2490	48.07	-3.18	1.72	-0.43	21.536	26.53	1.72	-21.8	48.76	48.29
2500	47.76	-3.21	1.56	-0.59	21.341	26.418	1.56	-22.05	48.69	48.16

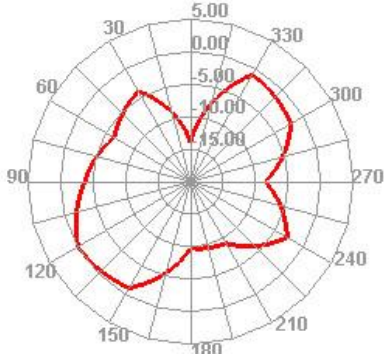
2450.000MHz



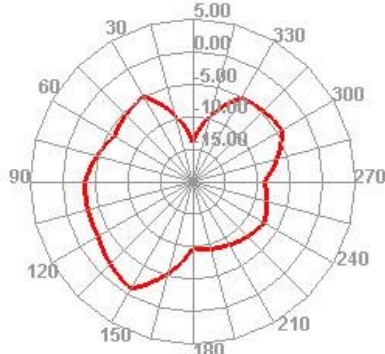
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



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4. 天线测试图 (Antenna test diagram)



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5.WIFI 天线结构图：（Structural diagram of WIFI antenna:）

