



Antenna Test Report



Customer Name:

Project Name: 2dbInternal andexternal

Model name: WIFI (2.4G)

version: A

Production date: 2025-9-15

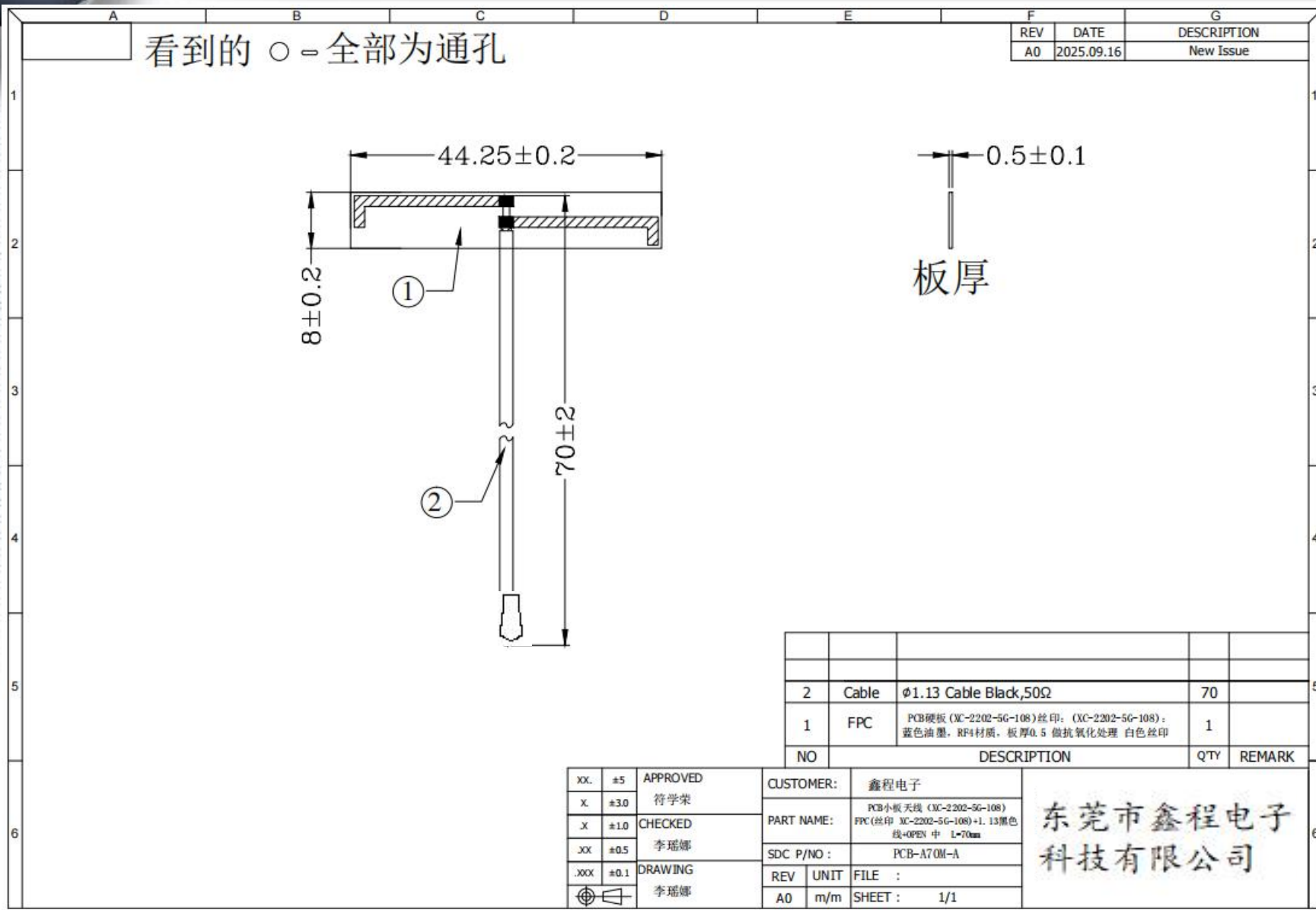


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2	Cable	φ1.13 Cable Black,50Ω	70	
1	FPC	PCB硬板 (XC-2202-5G-108) 丝印: (XC-2202-5G-108); 蓝色油墨, RF4材质, 板厚0.5 做抗氧化处理 白色丝印	1	
NO	DESCRIPTION		Q'TY	REMARK

XX.	±5	APPROVED
X	±3.0	符学荣
X	±1.0	CHECKED
XX	±0.5	李瑶娜
XXX	±0.1	DRAWING
⊕		李瑶娜

CUSTOMER:		鑫程电子
PART NAME:		PCB小板 天线 (XC-2202-5G-108) FPC (丝印 XC-2202-5G-108)+1.13黑色 线+OPEN 中 L=70mm
SDC P/NO :		PCB-A70M-A
REV	UNIT	FILE :
A0	m/m	SHEET : 1/1

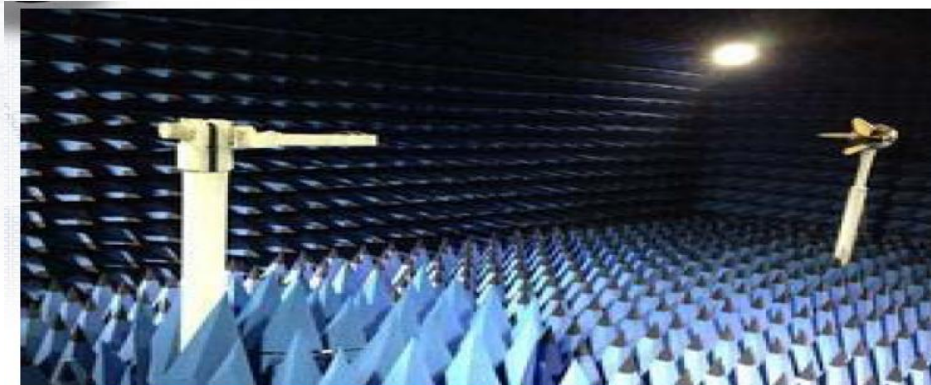
东莞市鑫程电子
科技有限公司



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1. Test system

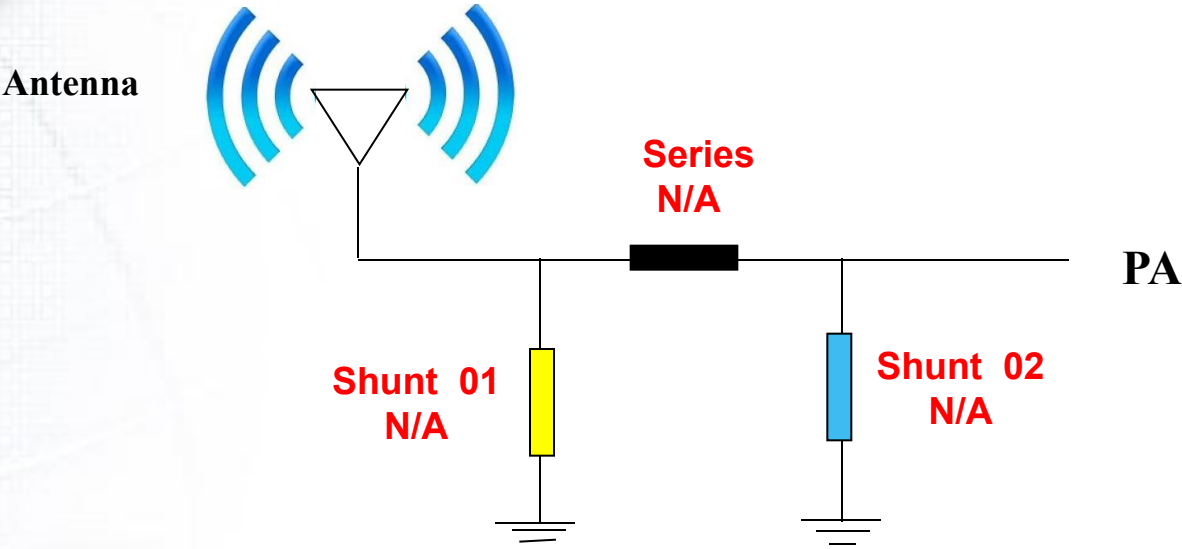
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW2 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C





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2. Antenna Matching Network



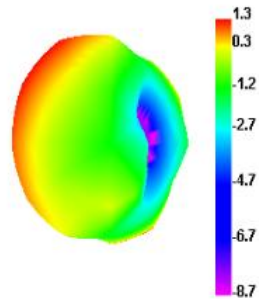
Location	Description	Vendor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

No modification to the motherboard matching circuit

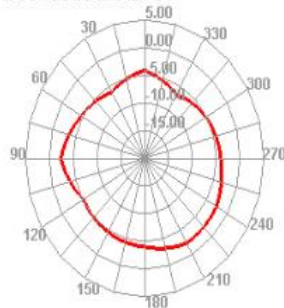
Gain & Efficiency

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	53.29	-2.73	1.28	-0.87	26.67	26.62	1.28	-17.75	4.01	30	48.27	48.32
2425	54.38	-2.65	1.41	-0.74	26.746	27.63	1.41	-21.75	4.06	30	48.35	48.41
2450	60.7	-1.89	2.48	0.33	31.223	33.472	2.48	-21.09	4.37	30	48.97	48.93
2475	60.22	-1.92	2.43	0.28	30.22	34.003	2.43	-18.59	4.35	30	48.91	48.71
2500	63.96	-1.43	2.75	0.6	33.401	38.556	2.75	-18.34	4.18	30	49.09	48.78

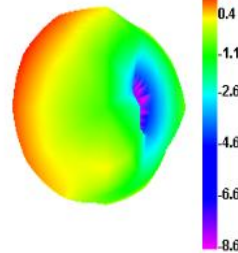
2400.000MHz



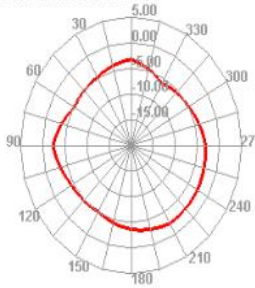
2400.000MHz H



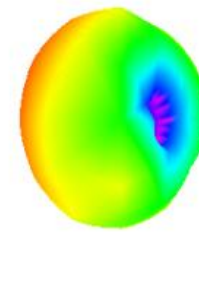
2425.000MHz



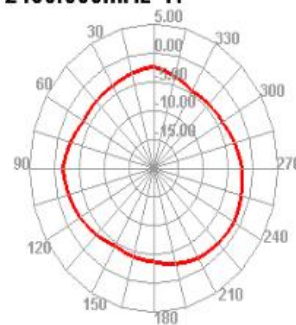
2425.000MHz H



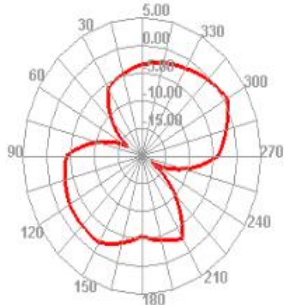
2450.000MHz



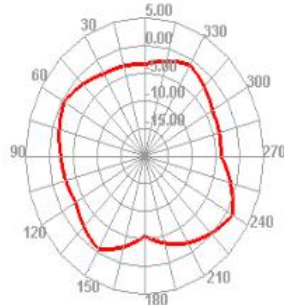
2450.000MHz H



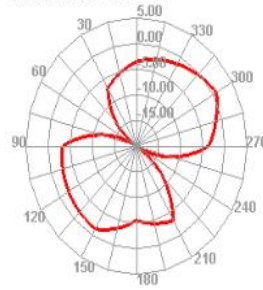
2400.000MHz E1



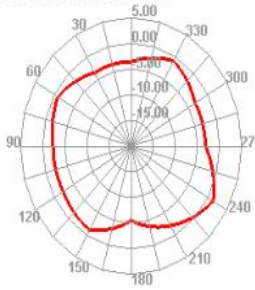
2400.000MHz E2



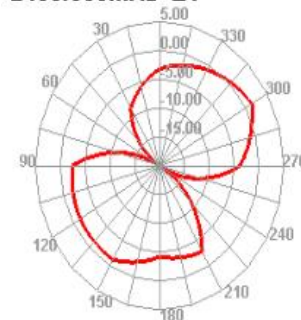
2425.000MHz E1



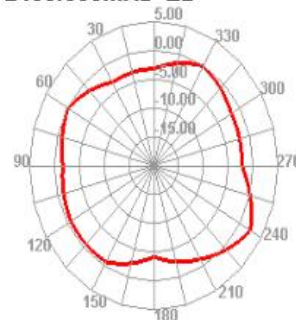
2425.000MHz E2



2450.000MHz E1



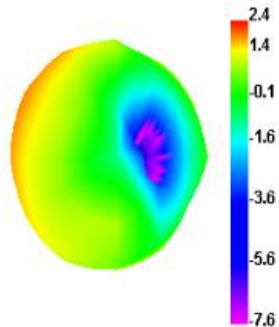
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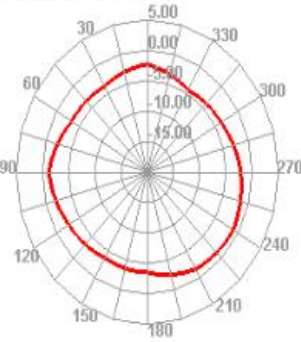
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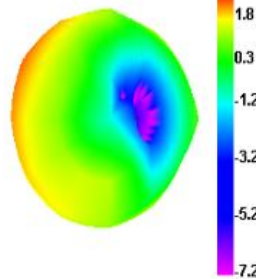
2475.000MHz



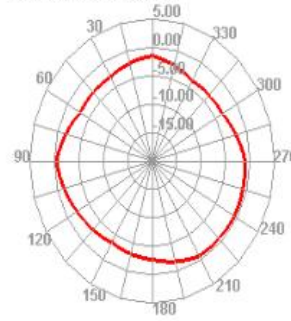
2475.000MHz H



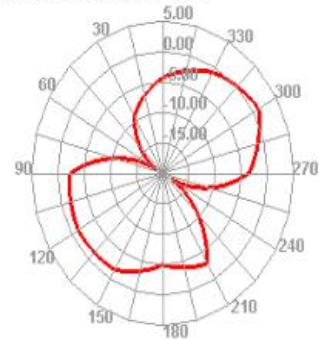
2500.000MHz



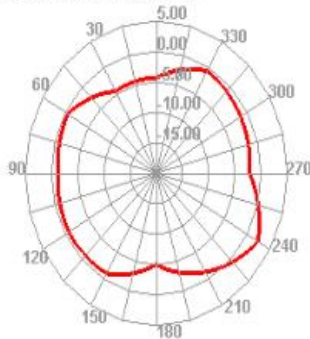
2500.000MHz H



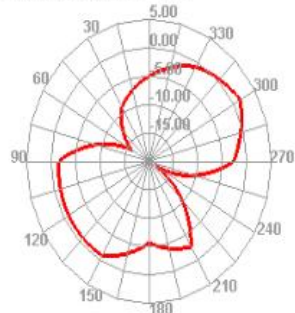
2475.000MHz E1



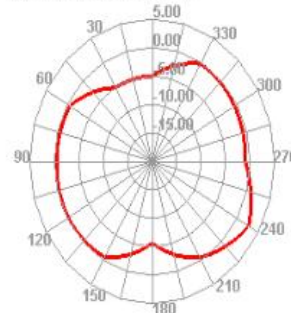
2475.000MHz E2



2500.000MHz E1



2500.000MHz E2





Dongguan Xincheng Electronic Technology Co., Ltd

Xincheng, thank you for your support

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