

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER(客户名称)	TCL	
	CS P/N(客户机种)	WCT5S-8-D	
	PART NAME(品名)	WIFI 天线组件	外露线长 L=80mm
	FREQUENCY(频率)	2400-2500MHz/5150~5850MHz	
	GSD NO.(物料编号)	2.00006223	G.5.13.WCT5S29XAE
	DATE(日期)	2023-06-01	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

ANTENNA SPECIFICATION

CUS P/N :WCT5S-8-D WIFI 天线

ApplicationDate:Jun,01,2023

Rev: R:A1

GSDP/N :WCT5S-8-D WIFI 天线

Editor:

Page 1 of 9

Revision history

版本	日期	状态
A1	2023-06-01	首版

ANTENNA SPECIFICATION

CUS P/N :WCT5S-8-D WIFI 天线

ApplicationDate:Jun,01,2023

Rev: R:A1

GSD P/N :WCT5S-8-D WIFI 天线

Editor:

Page 2 of 9

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification（WIFI 组件）	3
2		Test equipment	4
3		Antenna test data	5
	3-1	VSWR	5
	3-2	Matching circuit	5
	3-3	No-source test data	5
	3-4	Environment treatment	5
	3-5	产品实物图片	6
4		Environment Characteristic	7
5		Raw Material Detection List	7
6		The packing way	8
		附页：出货标签模板	9

ANTENNA SPECIFICATION

CUS P/N :WCT5S-8-D WIFI 天线

GSD P/N :WCT5S-8-D WIFI 天线

ApplicationDate:Jun,01,2023

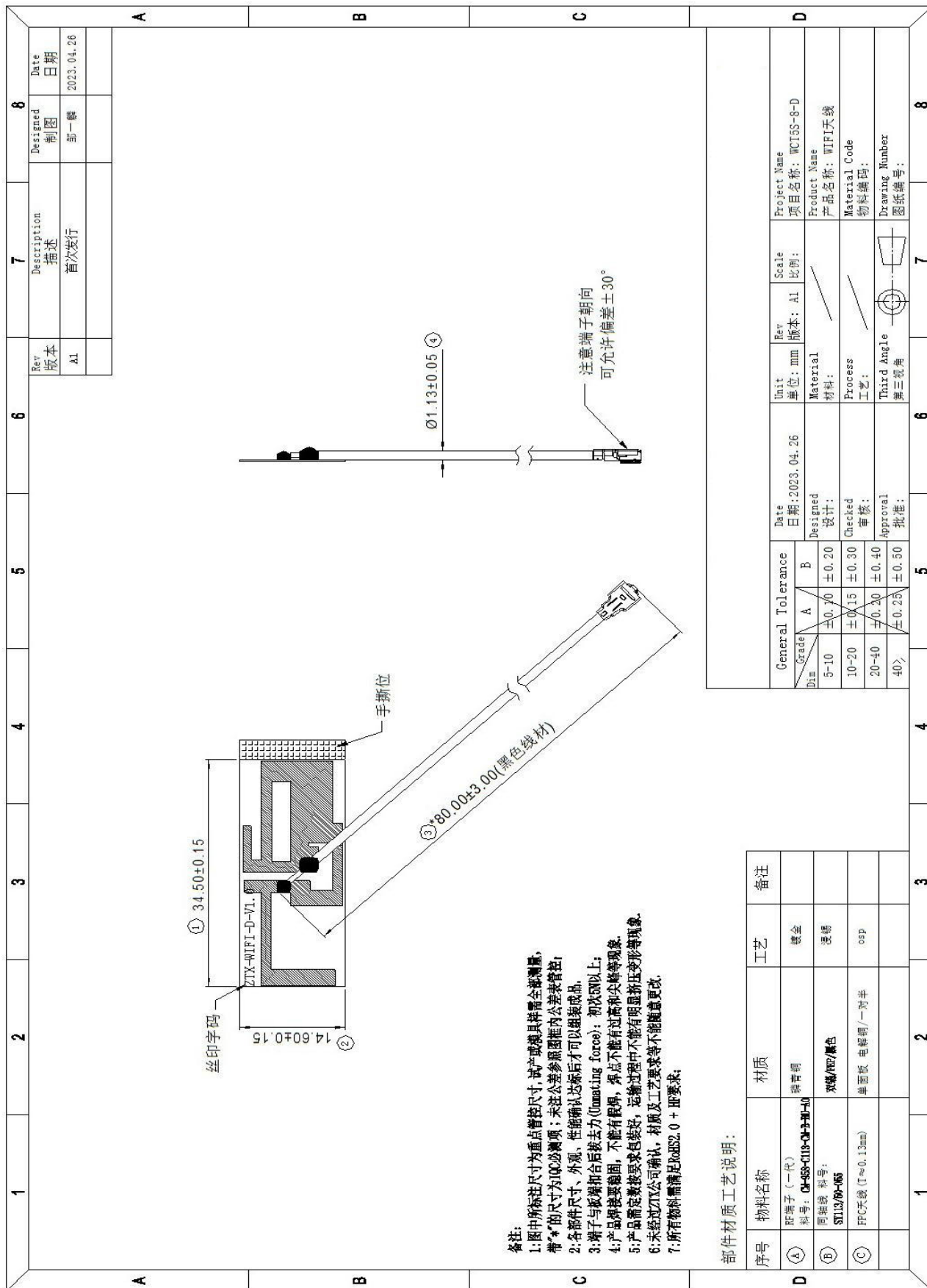
Editor:

Rev: R:A1

Page 3 of 9

1. Mechanical Specification

1-1 Mechanical Configuration (WIFI 组件)



ANTENNA SPECIFICATION

CUS P/N :WCT5S-8-D WIFI 天线

ApplicationDate:Jun,01,2023

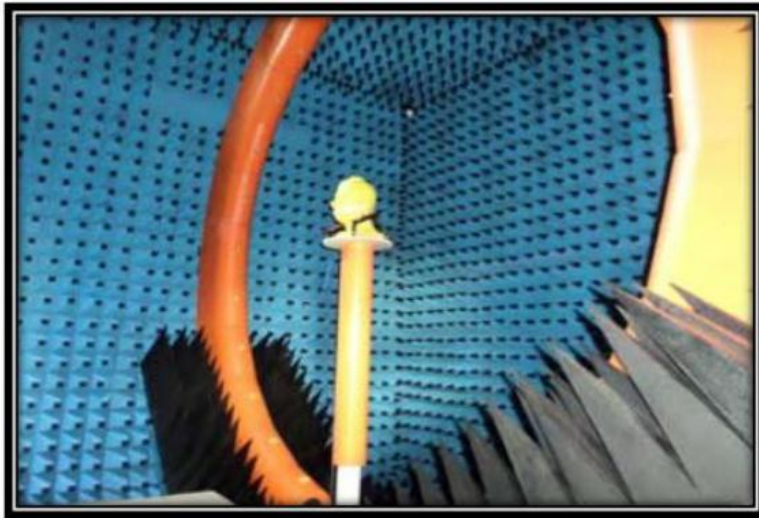
Rev: R:A1

GSD P/N :WCT5S-8-D WIFI 天线

Editor:

Page 4 of 9

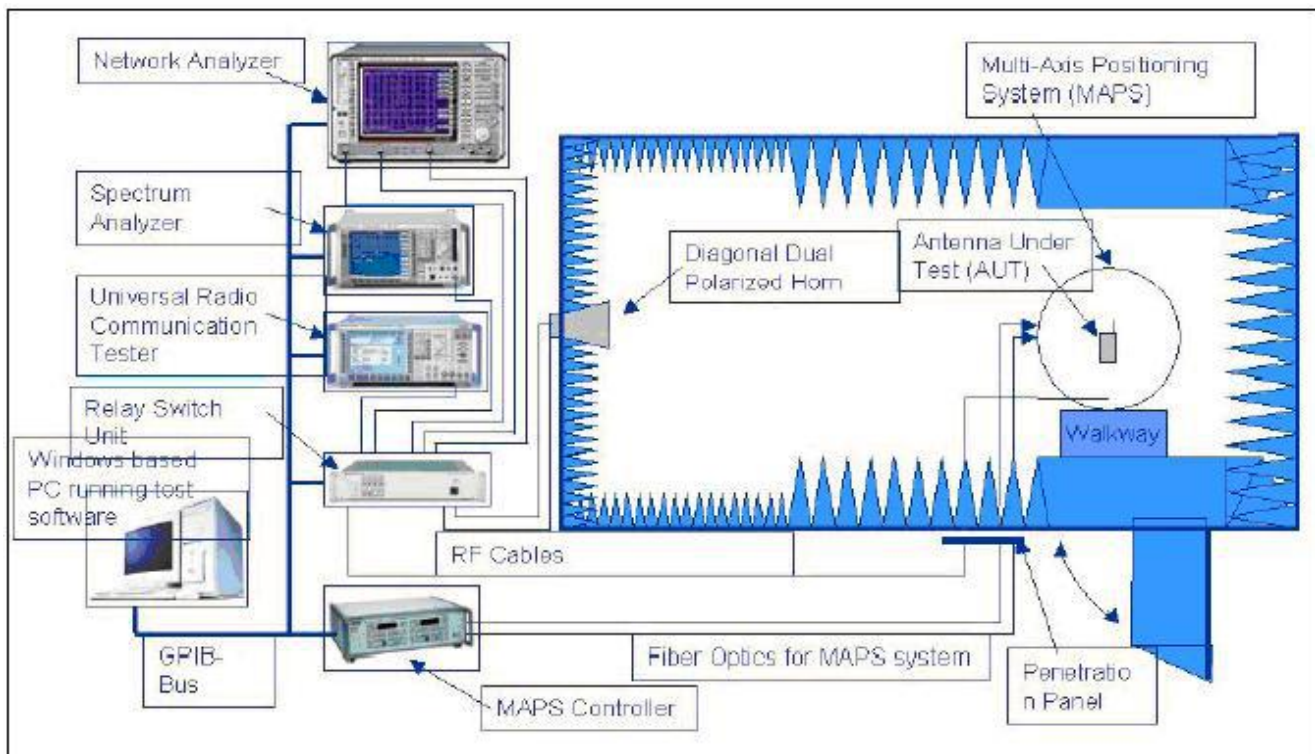
2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



ANTENNA SPECIFICATION

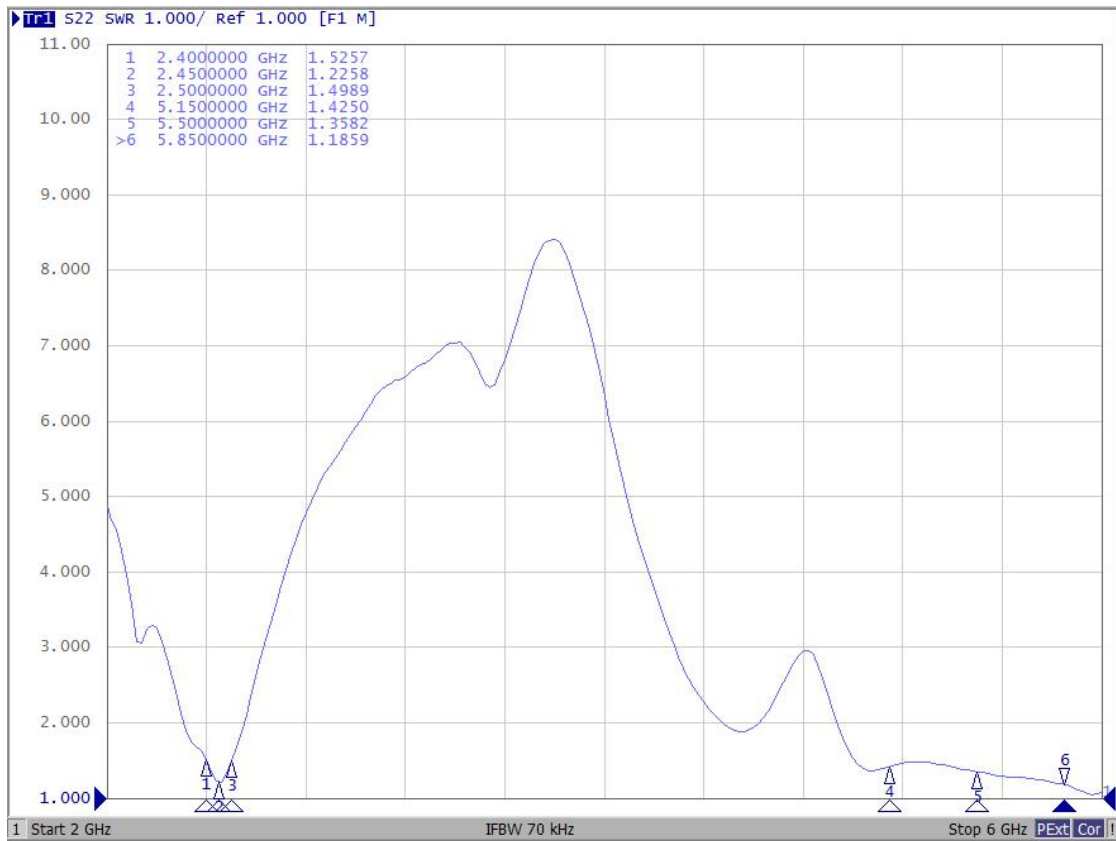
CUS P/N :WCT5S-8-D WIFI 天线
GSD P/N :WCT5S-8-D WIFI 天线

ApplicationDate:Jun,01,2023
Editor:

Rev: R:A1
Page 5 of 9

3.Antenna test data

3-1 VSWR



3-2 Matching circuit

N/A

3-3 No-source test data

Frequency				Frequency			
Mhz		Efficiency		Mhz		Efficiency	
		%	dB			%	dB
2400		63.15	-2.00	5150		66.57	-1.77
2410		61.96	-2.08	5200		62.24	-2.06
2420		61.98	-2.08	5250		66.04	-1.80
2430		65.53	-1.84	5300		67.92	-1.68
2440		65.59	-1.83	5350		69.01	-1.61
2450		66.34	-1.78	5400		63.53	-1.97
2460		62.87	-2.02	5450		62.42	-2.05
2470		62.99	-2.01	5500		65.97	-1.81
2480		65.03	-1.87	5550		72.05	-1.42
2490		64.59	-1.90	5600		70.16	-1.54
2500		63.93	-1.94	5650		70.16	-1.54
				5700		68.07	-1.67
				5750		70.28	-1.53
				5800		69.41	-1.59
				5850		70.37	-1.53

3-4 Environment treatment

N/A

ANTENNA SPECIFICATION

CUS P/N :WCT5S-8-D WIFI 天线

ApplicationDate:Jun,01,2023

Rev: R:A1

GSD P/N :WCT5S-8-D WIFI 天线

Editor:

Page 6 of 9

3-5 产品实物图片



ANTENNA SPECIFICATION

CUS P/N :WCT5S-8-D WIFI 天线

ApplicationDate:Jun,01,2023

Rev: R:A1

GSD P/N :WCT5S-8-D WIFI 天线

Editor:

Page 7 of 9

4. Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +80 ±2℃ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: -30±2℃ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

5.Raw Material Detection List

Raw Material Detection List 原材料检测清单							
描述 Description	Material/Type name 原材料名称/型号	Raw Material Manufacturers 原材料制造商名称	Test Lab 测试机 构名称	Test Report NO. 测试报告编号	Report date 测试日期	Validity Date (有效日期)	Remark 备注
FPC	FPC-基材	CAILUNGED I	SGS	SHAEC2210344202	2022/7/25	2023/7/24	
	FPC-油墨	YOU LI	SGS	ETR22705905	2022/8/5	2023/8/4	
	FPC-OSP	TAIDAFU	SGS	SZSEC23000119401	2023/2/27	2024/2/26	
RF端子 (1代)	端子-金属	ZIJIN	SGS	SZSEC2203454505	2022/10/28	2023/10/27	
	端子-镀金	CM	CTI	A2220404860101001C	2022/9/9	2023/9/8	
	端子-塑胶	CM	SGS	A2230035037101001E	2023/2/11	2024/2/10	
同轴线	镀锡铜线	MINGXING	CTI	SHAEC2217007511	2022/12/15	2023/12/14	
	同轴线-FEP护套	DAIKIN	SGS	SHAEC23000346911 SHAEC23000346913	2023/1/13	2024/1/12	
	同轴线-FEP绝缘	DAIKIN	SGS	SHAEC22004639301	2022/12/15	2023/12/14	
	同轴线-色母黑色	COLORANT	SGS	SHAEC23002162901 SHAEC23002162903	2023/3/9	2024/3/7	

ANTENNA SPECIFICATION

CUS P/N :WCT5S-8-D WIFI 天线

ApplicationDate:Jun,01,2023

Rev: R:A1

GSD P/N :WCT5S-8-D WIFI 天线

Editor:

Page 8 of 9

6.The packing way

包装规范&作业指导书

客户编号	TCL	产品型号	WCT5S-8-D WIFI 天线		产品名称	WIFI 天线组件
纸箱规格	K=K(牛皮纸) 46CM*32.5CM*42CM		物料编号	1.12.000004	用量	1PCS
纸箱(内)	K3K 38*26*9cm		物料编号	1.12.000044	用量	5PCS
PE 开口袋	240*160*0.05mm		物料编号	1.12.000030	用量	50PCS
纸板规格	2PCS/箱*5		其他物料	标签/橡皮筋/胶带		
每箱数量	5000PCS	内箱数量	1000pcs	PE 开口袋数量	100PCS	

包装简图：

1.取（100pcs）产品整齐，线端采用橡皮筋包扎，装袋，贴物料标签；

2.将包装好的产品装入内箱（1000pcs），“十”字卡板间隔；贴标签，



NO	变 更 内 容	变更人及日期	2023.05.17
标签简图：		外箱简图：	

(注意外箱标签贴纸的样板)

制表：

审核：

核准：

ANTENNA SPECIFICATION

CUS P/N :WCT5S-8-D WIFI 天线

ApplicationDate:Jun,01,2023

Rev: R:A1

GSD P/N :WCT5S-8-D WIFI 天线

Editor:

Page 9 of 9

附页：出货标签模板

现品票			
Box ID:	BL1041603232200001	物料名称: Part Name:	外拉天线
		物料编码: Part Number:	11702-500018
数量: QTY:	3600	生产日期: Date Code:	20230601
供应商名称: Supplier Name:	惠州高盛达科技有限公司		
供应商代码: Supplier Code:	L1041601		
原产地: Source Area:	Made in china		
批次/BIN信: Lot/BIN NO:		备注: Note:	外拉天线 WCT5S-8-D/PCB/2.4G+5G /外拉/80mm/TCL/黑色

Part Number:	11702-500018	Reel ID:	L10416082322000001
			
QTY:	720	物料描述:	外拉天线 WCT5S-8-D/PCB/2.4G+5G/外拉 /80mm/TCL/黑色
Supplier Name:	惠州高盛达科技有限公司		
Supplier Code:	L1041601		
Lot NO:	2322		
Date Code:	20230601		
原产地:	Made in china		

11702-500018	
外拉天线WCT5S-8-D/PCB/2.4G+5G/外拉 /80mm/TCL/黑色	
QTY: 40	PCS
20230601	
16:50:31	
Made in china	
重量: xxx	g
	