

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	利利普	
	CS P/N(客户机种)	AN-UW	
	PART NAME(品名)	DIV	
	FREQUENCY(频率)	700-960MHz, 1710-2690MHz。	
	ZTX NO.(物料编号)	F.00000691	
	DATE(日期)	2024-5-7	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章):

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		胡小良	王而栋	



福州中天迅通信技术有限公司

ZHONGTIAN XUN Communication Technology Co.,Ltd.

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ANTENNA SPECIFICATION

Revision history

版本	日期	状态
A1	2024-5-7	初版。



ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 3 of 16

Index

		<i>Revision history</i>	
1.		<i>Test equipment</i>	4
2.		<i>Antenna test data</i>	5~13
	2-1	<i>VSWR</i>	5
	2-2	<i>Antenna passive test</i>	6~10
	2-3	<i>3D radiation drawing</i>	11
	2-4	<i>Matching circuit</i>	12
	2-5	<i>Environment treatment</i>	13
3.		<i>Mechanical Specification</i>	14
4.		<i>Size report</i>	15
5.		<i>Salt-Spray test</i>	15
6.		<i>Environment Characteristic</i>	15
7.		<i>The packing way</i>	16



ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

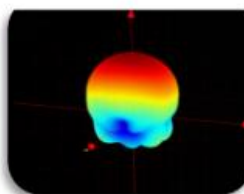
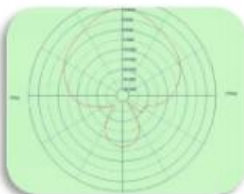
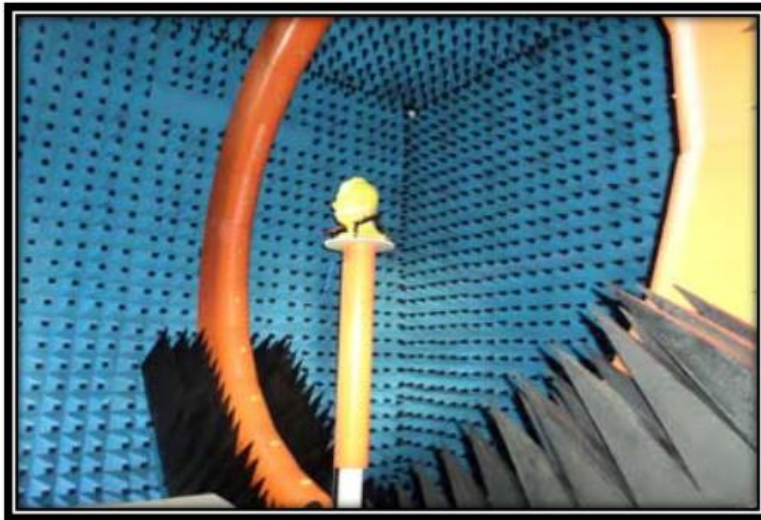
Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 4 of 16

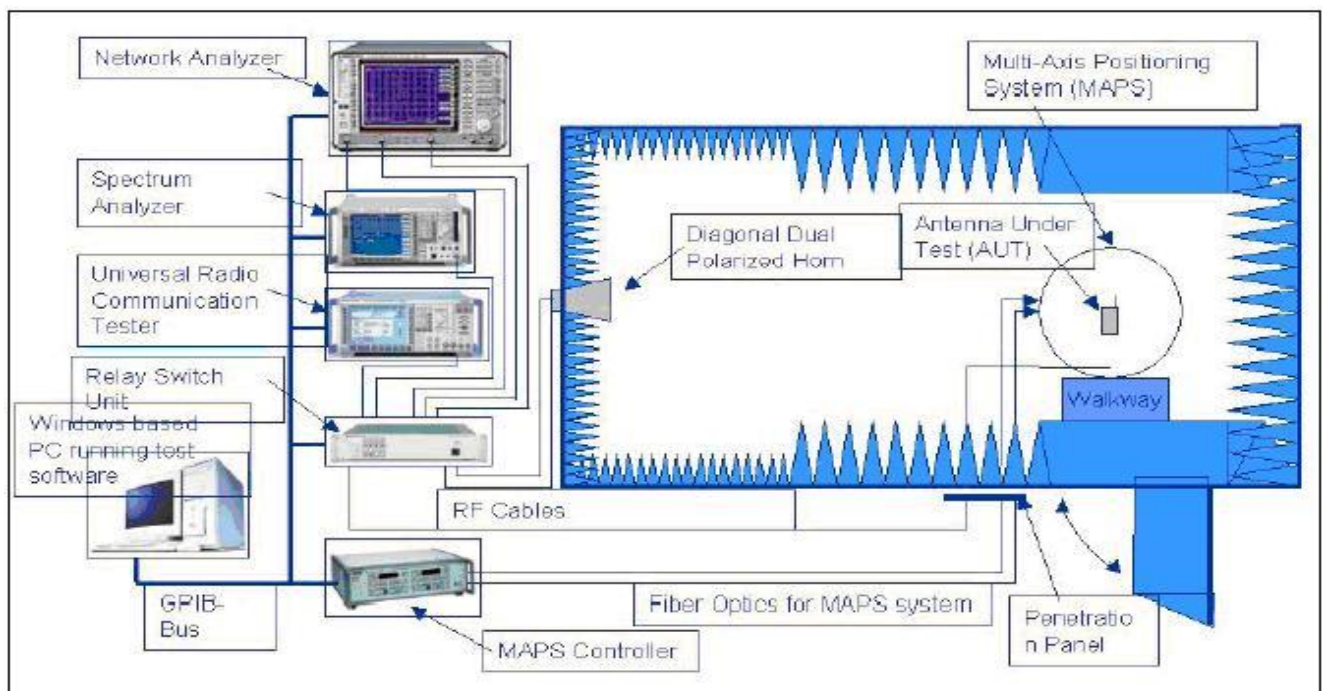
1. Test equipment



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 CITA 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 : AN-UW DIV

ApplicationDate:May,7,2024

Rev: R:A1

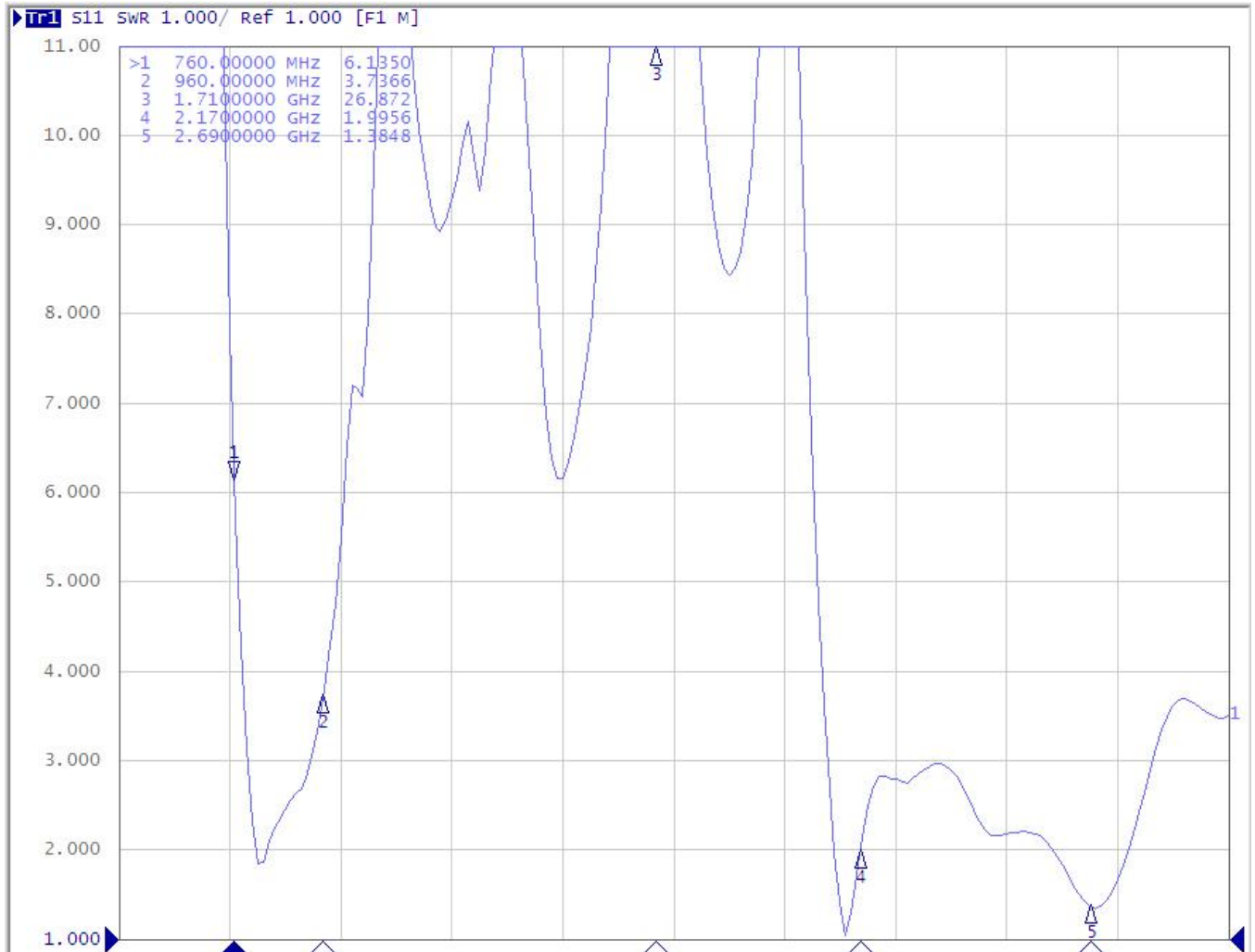
ZTX P/N : AN-UW DIV

Editor:

Page 5 of 16

2.Antenna test data

2-1 VSWR



ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 6 of 16

2-2 Antenna passive test

chNo	Freq	Gain	Efficiency_Pcent
1	700	-9.41536	4.190977
2	710	-10.2651	4.168517
3	720	-8.37815	6.890725
4	730	-6.77975	9.332407
5	740	-5.26923	12.09925
6	750	-4.2059	15.08607
7	760	-3.59865	17.16833
8	770	-2.10919	23.37735
9	780	-1.01502	30.27352
10	790	-0.14977	36.27618
11	800	0.597705	43.83209
12	810	0.581253	45.74841
13	820	0.678801	48.16415
14	830	0.515252	48.49245
15	840	1.274747	51.04963



ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 7 of 16

chNo	Freq	Gain	Efficiency_Pcent
16	850	1. 35736	48. 85957
17	860	1. 836244	43. 35959
18	870	1. 588048	38. 2325
19	880	0. 995296	35. 10833
20	890	1. 120665	35. 20985
21	900	0. 821239	33. 27687
22	910	-0. 09808	28. 39257
23	920	-0. 91849	26. 56847
24	930	-0. 58637	29. 76255
25	940	0. 042058	33. 04412
26	950	-0. 87488	32. 11905
27	960	-1. 84906	28. 22032
28	1710	-14. 6028	1. 797594
29	1730	-14. 7231	1. 632852
30	1750	-14. 3626	1. 818965
chNo	Freq	Gain	Efficiency_Pcent



ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 8 of 16

31	1770	-13.3394	2.027323
32	1790	-13.204	2.114711
33	1810	-12.6116	2.324361
34	1830	-12.7137	2.473481
35	1850	-13.0351	2.467296
36	1870	-12.8532	2.560232
37	1890	-12.0995	2.962741
38	1910	-11.9114	3.038529
39	1930	-10.4342	3.444468
40	1950	-9.46472	4.195336
41	1970	-7.83794	5.599766
42	1990	-7.086	7.23653
43	2010	-7.21418	8.506491
44	2030	-5.91052	11.5014
45	2050	-4.43087	15.12971
chNo	Freq	Gain	Efficiency_Pcent
46	2070	-2.47168	20.35882



ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 9 of 16

47	2090	-1.03009	27.40816
48	2110	0.362107	35.90624
49	2130	1.081102	42.14283
50	2150	1.372632	46.43095
51	2170	1.259854	49.18373
52	2300	0.001399	30.15665
53	2320	-0.2955	28.88366
54	2340	-0.63359	29.02201
55	2360	0.214095	35.11861
56	2380	1.255118	40.08669
57	2400	1.373485	43.37084
58	2500	0.658518	42.38725
59	2520	0.734465	40.66228
60	2540	1.173211	42.28081
chNo	Freq	Gain	Efficiency_Pcent
61	2560	1.936473	48.97974
62	2580	2.135409	51.93248



ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 10 of 16

63	2600	2.263712	54.6879
64	2620	2.234008	53.9656
65	2640	1.627274	52.49187
66	2660	1.11464	52.30941
67	2680	0.994241	50.09601
68	2690	0.586577	48.55477



ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

Rev: R:A1

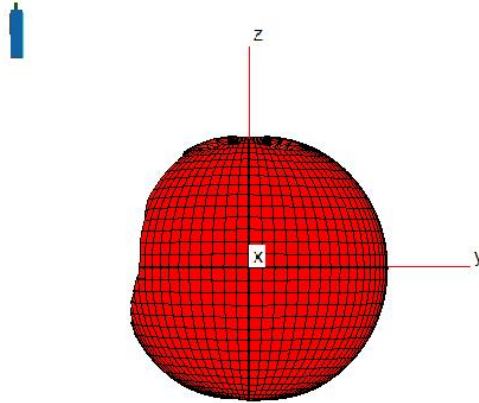
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Editor:

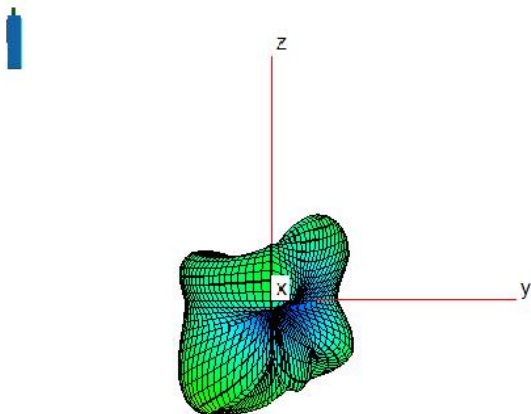
Page 11 of 16

2-3 3D radiation drawing

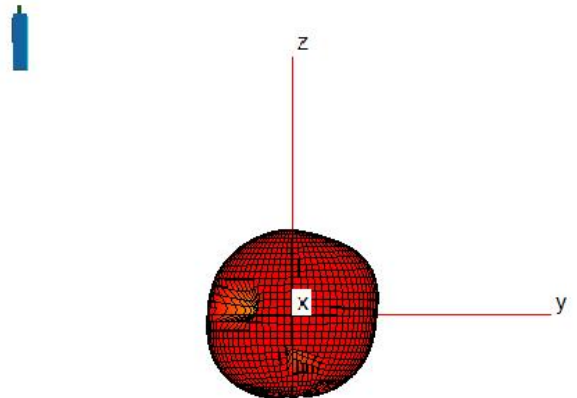
800MHz



1710MHz

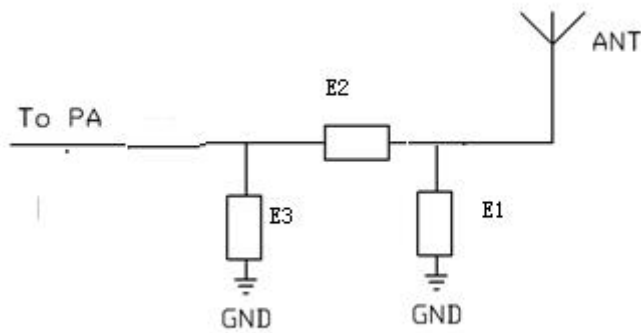


2500MHz



ANTENNA SPECIFICATION

2-4 Matching circuit



匹配说明	
E1	NC
E2	0Ω
E3	NC

ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 13 of 16

2-5 Environment treatment



ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

ApplicationDate:May,7,2024

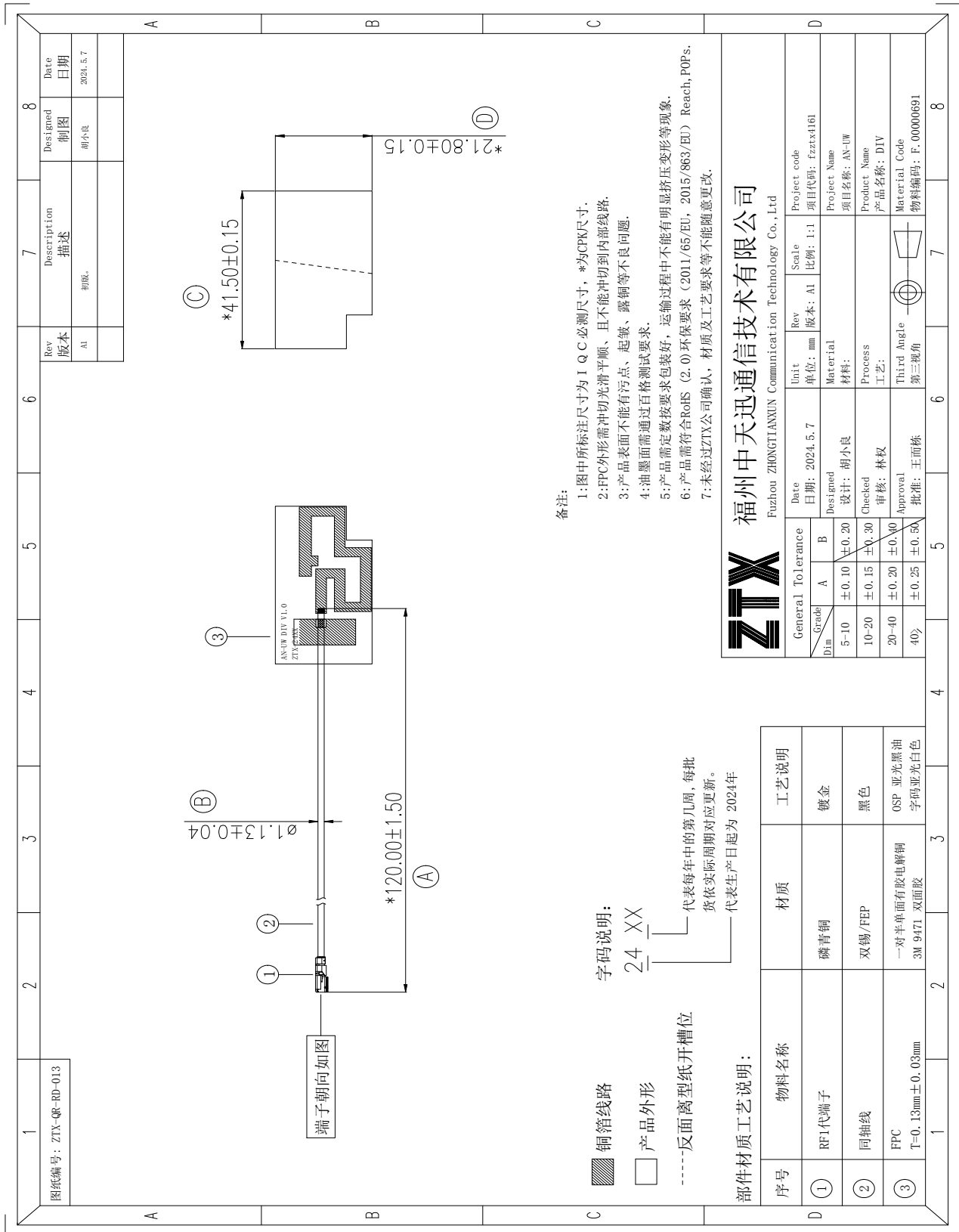
Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 14 of 16

3. Mechanical Specification



福州中天迅通信技术有限公司
ZHONGTIAN XUN Communication Technology Co.,Ltd.

ANTENNA SPECIFICATION

CUS P/N : AN-UW DIV

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Rev: R:A1

ZTX P/N : AN-UW DIV

Editor:

Page 15 of 16

4.Size report

5.Salt-Spray test

6.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+70 \pm 2^{\circ}\text{C}$ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: $-30 \pm 2^{\circ}\text{C}$ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.



ANTENNA SPECIFICATION

7.The packing way

福州中天迅通信技术有限公司 Fuzhou ZHONGTIANXUN Communication Technology Co., Ltd				包装规范			
产品名称	DIV	产品型号	AN-UW	工序序号/名称	版本	文件编号	仪器校准及要求:
				包装	A1	ZTX-QD-WI-023	1. 测试设备必须接地; 2. 重新连接接口后或连接测试不稳定时,需对仪器进行校正; 3. 测试产品时保证天线直立,并远离人体或金属器件30cm以上;
图1: 确认数量 图2: 封口PE袋包装/贴标签 图3: 封口PE袋包装/贴标签 图4: 装箱 图5: 贴外箱标签/附出货检验报告 图6: 封箱				作业方法a 作业参数 (自检验工序作业合格后,方能流入下一道工序)			操作防护要求:
				1. 确认数量50pcs产品橡皮新包孔;			1. 作业人员需带手套进行作业, (特殊产品需带手套);
				2. 将50pcs产品装入 (240*160mm) PE开口袋中,贴小标签,填写产品名称、物料号、数量、周期等信息;			2. 检测过程中检测产品做到轻拿轻放;
				2. 每5袋装入 (330*230mm) PE封口袋装好 (250PCS)的PE袋袋,贴小标签,填写产品名称、物料号、数量、周期等信息;			3. 操作测试器具时,严格按照操作规范使用,避免伤手;
				3. 装箱,纸箱规格 (45*32.5*21cm), 每箱装 (5000pcs) 尾数除外,并附手写检验报告一份;			6S要求:
				4. 标签贴于外箱的右上角,外标签内容 (含: 企业名称, 供应商代码, 客户规格号, 生产周期, 生产批次包装数量, 供应商代码, 内附检验报告, ROHS等);			1. 保持检测现场台面整洁, 无尘、水、油污;
				5. 将贴好标签的箱子用胶纸以“工”字型封箱;			2. 物料摆放整齐, 标识清楚;
							注意事项: 1. 客户物料编码和数量是否正确, 标签必须用机打印的 2. 内标签、外标签、出货报告、送货单内容需一致。
							3. 如是试产物料或有变更均需贴相应标识, 尾数箱需贴尾数标识, 内附检验报告等
物料名称	物料代码	规格	用量	备注			
PE开口袋	1. 12. 000030	240*160*0. 05mm	100/ 袋				
PE封口袋	1. 12. 000023	330*230*mm	10/ 袋				
纸板	1. 13. 000003	42*30cm	2张/ 箱				
纸箱	1. 12. 000086	45*32. 5*21cm	1/ 箱				
标签							
橡皮筋							
				修订内容		修订日期	修订人
版本							
制订	胡小良	审核	易爱玲	批准		张武民	