

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	Hesung	
	CS P/N(客户机种)	DR-HHM003S (6L Humidifier)	
	PART NAME(品名)	WIFI Antenna	
	FREQUENCY(频率)	2412-2462MHz	
	ZTX NO.(物料编号)	2.00005807	
	DATE(日期)	2023-07-17	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Chang lin liu	Pei Wang	



Shenzhen ZTX Communication Technology Co., Ltd

Address: No.34, Shilong Avenue, Shiyan Town, Baoan District, Shenzhen City (Tengda Industrial Park)

Postcode: 518000

Tel: 0755-27588320

Fax: 0755-27588045

<http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N :DR-HHM003S(6L Humidifier) WIFI Antenna ApplicationDate:Jul,17,2023

Rev: R:A1

ZTX P/N :DR-HHM003S(6LHumidifier) WIFI Antenna Editor:

Page 1 of 8

Revision history

Edition	Date	State
A1	2023-07-17	The first edition

ANTENNA SPECIFICATION

CUS P/N :DR-HHM003S(6L Humidifier) WIFI Antenna ApplicationDate:Jul,17,2023

Rev: R:A1

ZTX P/N :DR-HHM003S(6LHumidifier) WIFI Antenna Editor:

Page 2 of 8

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification(WIFI Antenna)	3
2		Test equipment	4
3		Test Results Surmmary	5
	3-1	OTA Test	5
	3-2	VSWR	5
	3-3	No-source test data	5
	3-4	Environment treatment	6
	3-5	2D/3D Radiation Pattern Results	6
4		Environment Characteristic	7
5		The packing way	8

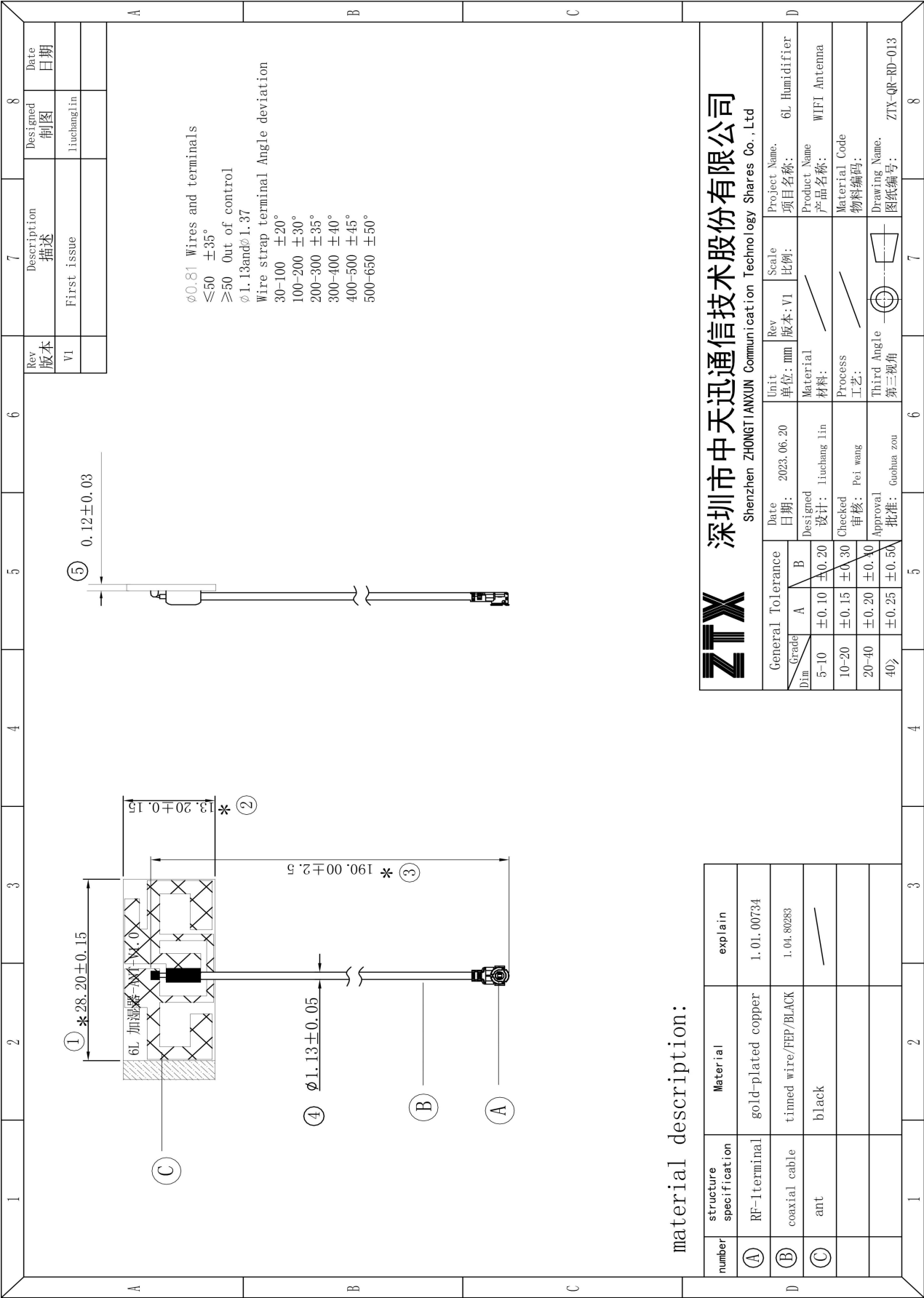
ANTENNA SPECIFICATION

CUS P/N :DR-HHM003S(6L Humidifier) WIFI Antenna ApplicationDate:Jul,17,2023
ZTX P/N :DR-HHM003S(6LHumidifier) WIFI Antenna Editor:

Rev: R:A1
Page 3 of 8

1. Mechanical Specification

1-1 Mechanical Configuration (WIFI Antenna)



ANTENNA SPECIFICATION

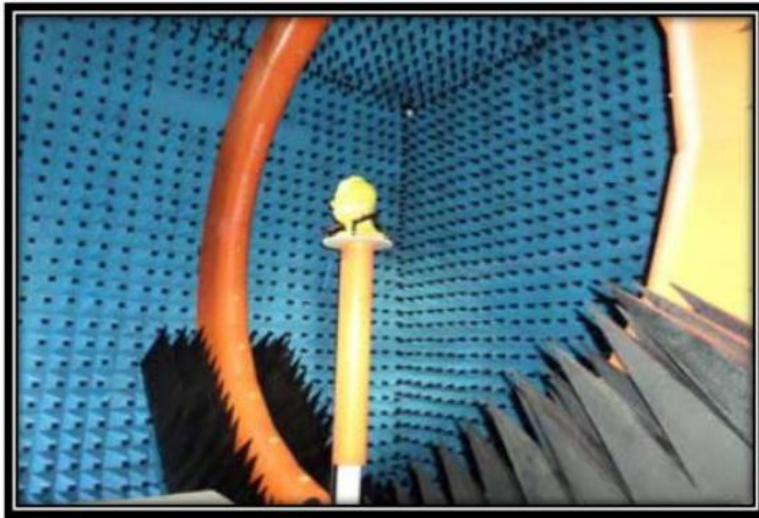
CUS P/N :DR-HHM003S(6L Humidifier) WIFI Antenna ApplicationDate:Jul,17,2023

Rev: R:A1

ZTX P/N :DR-HHM003S(6LHumidifier) WIFI Antenna Editor:

Page 4 of 8

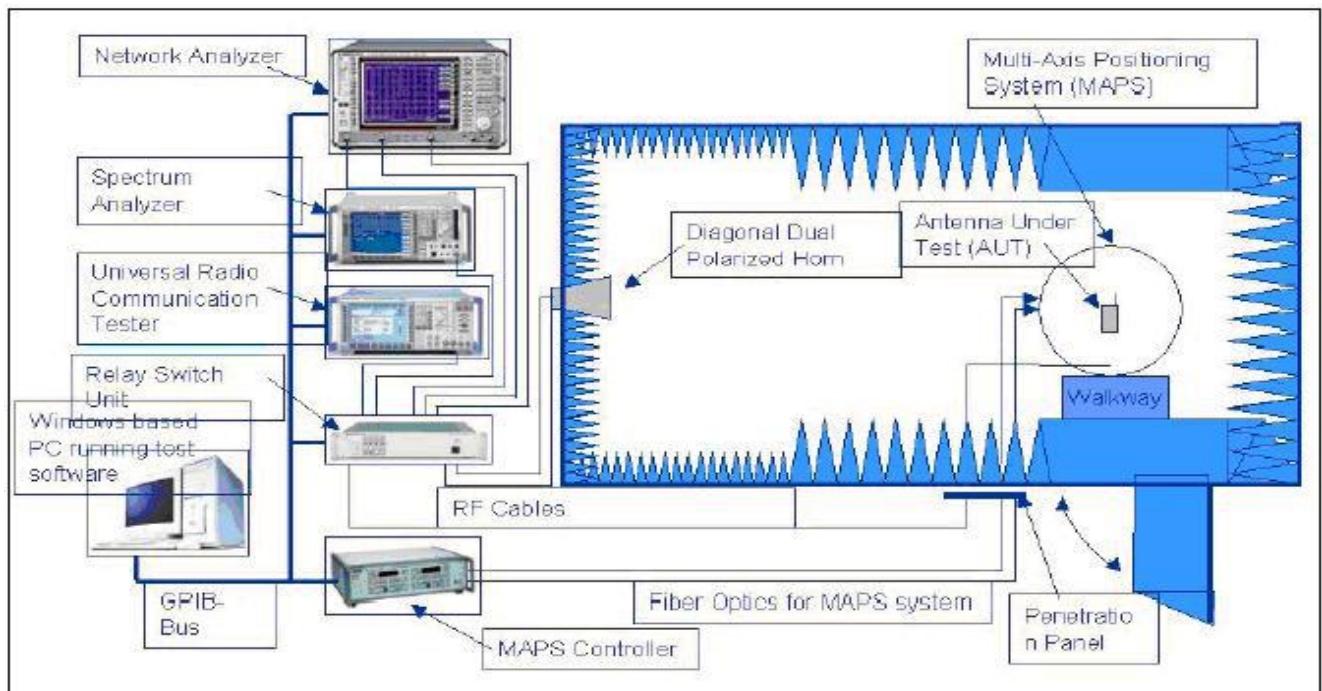
2. Test equipment



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 :DR-HHM003S(6L Humidifier) WIFI Antenna ApplicationDate:Jul,17,2023

Rev: R:A1

ZTX P/N :DR-HHM003S(6L Humidifier) WIFI Antenna Editor:

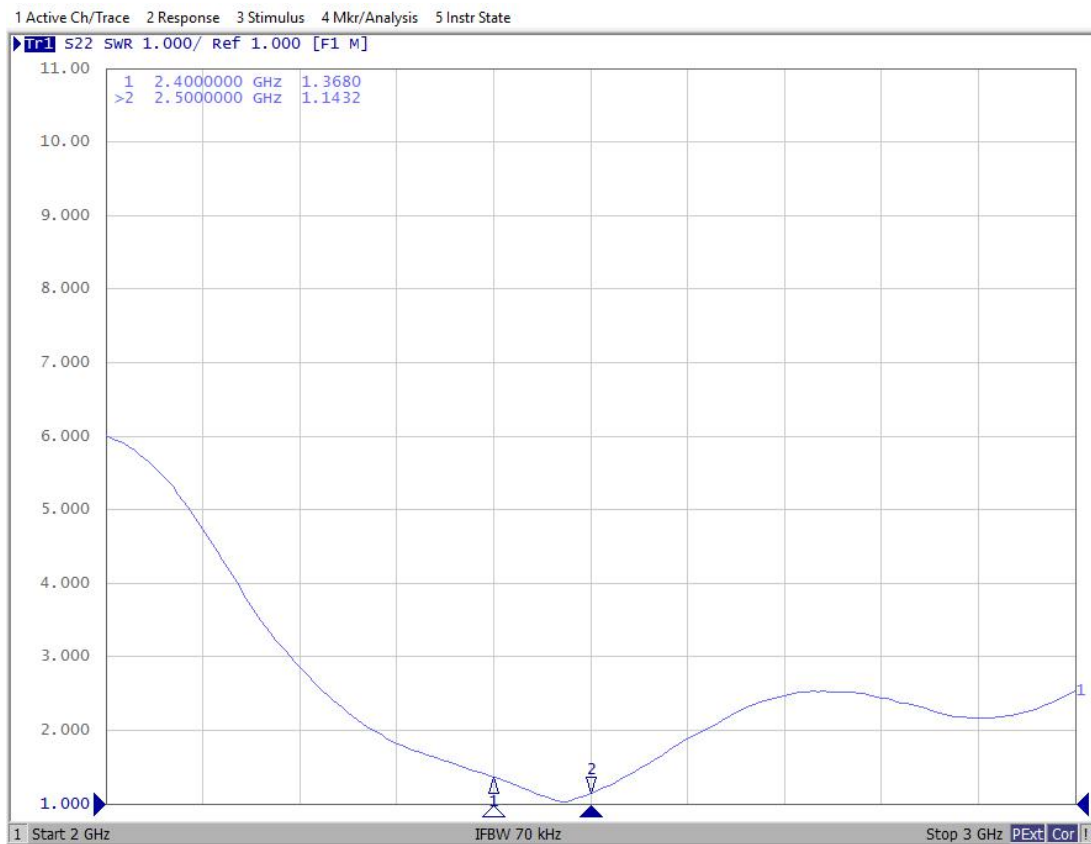
Page 5 of 8

3.Test Results Summary

3-1 OTA Test

	B		G		N	
Channels	TRP	TIS	TRP	TIS	TRP	TIS
1	15.31	-84.02	12.91	-69.41	12.65	-63.53
6	14.73	-84.12	13.17	-69.51	12.94	-63.48
11	14.83	-84.24	13.24	-69.27	12.87	-63.26

3-2 VSWR



3-3 No-source test data

Frequency	Efficiency	Efficiency . dB	Gain . dBi
2400MHz	58%	-2.40	5.25
2410MHz	58%	-2.39	5.22
2420MHz	59%	-2.26	5.31
2430MHz	60%	-2.25	5.25
2440MHz	61%	-2.13	5.28
2450MHz	62%	-2.11	5.31
2460MHz	62%	-2.10	5.30
2470MHz	61%	-2.13	5.05
2480MHz	59%	-2.28	5.11
2490MHz	58%	-2.35	5.18
2500MHz	57%	-2.44	4.95

ANTENNA SPECIFICATION

CUS P/N :DR-HHM003S(6L Humidifier) WIFI Antenna ApplicationDate:Jul,17,2023

Rev: R:A1

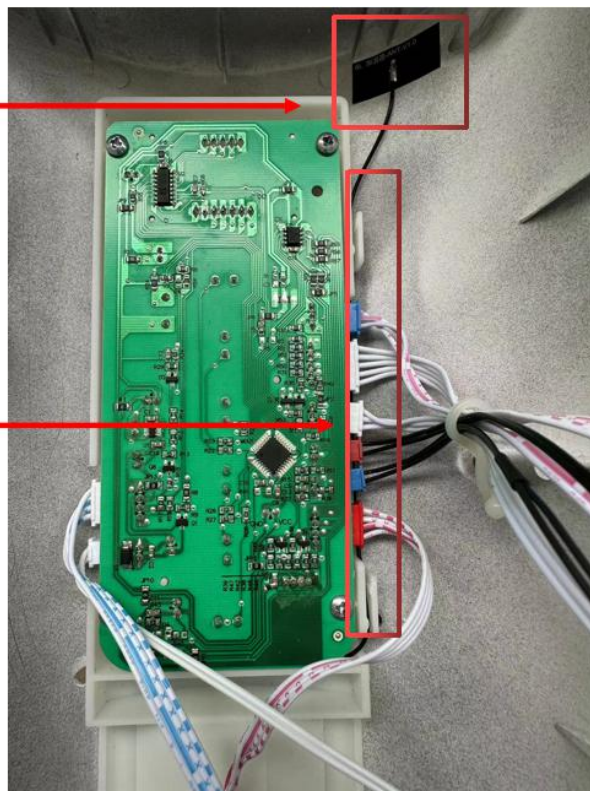
ZTX P/N :DR-HHM003S(6LHumidifier) WIFI Antenna Editor:

Page 6 of 8

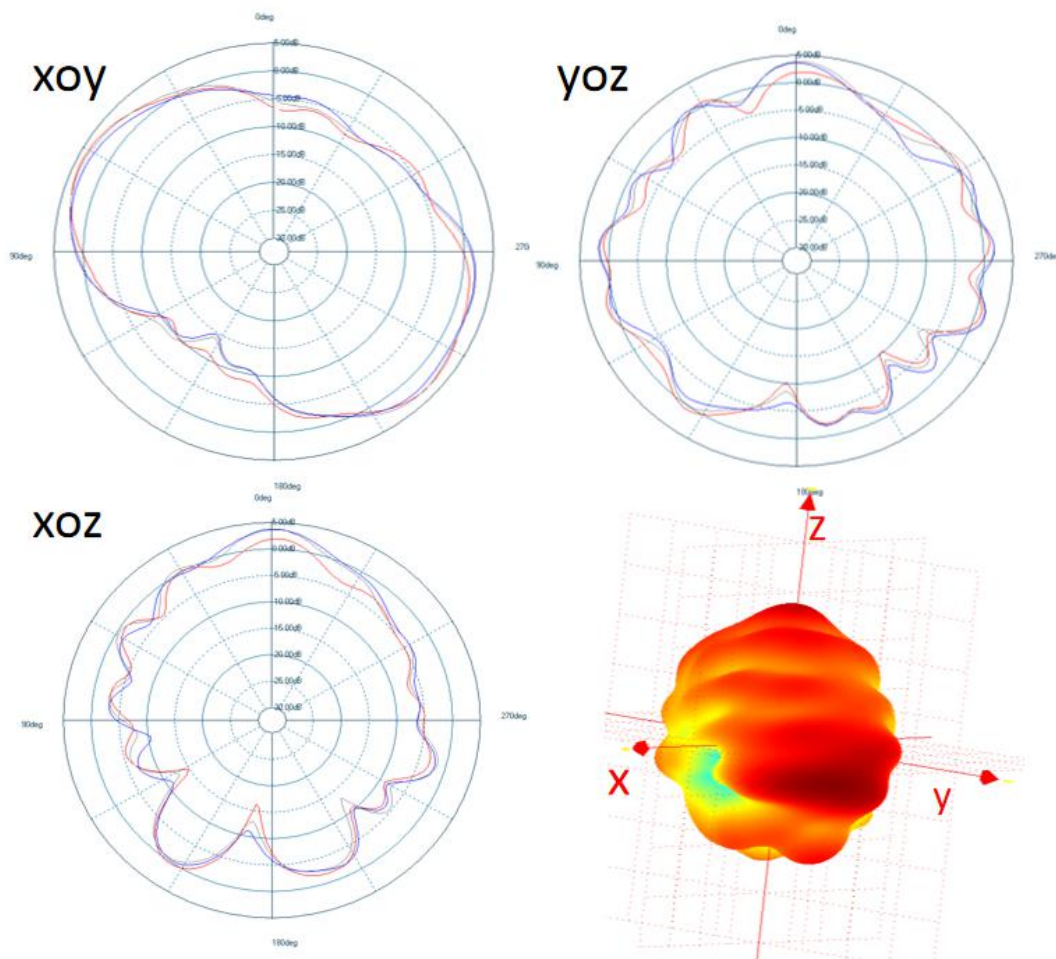
3-4 Environment treatment

WIFI Antenna position

Antenna cable wiring



3-5 2D/3D Radiation Pattern Results



ANTENNA SPECIFICATION

CUS P/N :DR-HHM003S(6L Humidifier) WIFI Antenna ApplicationDate:Jul,17,2023

Rev: R:A1

ZTX P/N :DR-HHM003S(6LHumidifier) WIFI Antenna Editor:

Page 7 of 8

4.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

CUS P/N :DR-HHM003S(6L Humidifier) WIFI Antenna ApplicationDate:Jul,17,2023

Rev: R:A1

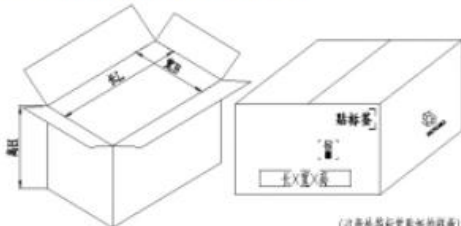
ZTX P/N :DR-HHM003S(6LHumidifier) WIFI Antenna Editor:

Page 8 of 8

5.The packing way



包装规范&作业指导书 SOP

客户名称 customer name	Hesung	产品型号 product model	DR-HHM003S (6LHumidifier)		产品名称 product	WIFI Antenna																		
纸箱规格Carton specifications	K=K45*32.5*21CM		物料编号 Material number	1.12.000002	用量 dosage	1PCS																		
PE封口袋PE seal pocket	360*280*0.10mm		物料编号 Material number	1.12.000026	用量 dosage	10PCS																		
PE开口袋PE open the pocket	240*160*0.05mm		物料编号 Material number	1.12.000030	用量 dosage	100PCS																		
纸板规格Paper board	2PCS / box		其他物料unclassified stores	标签/胶带Tags / tape																				
每箱数量Number of boxes per box	5000PCS	PE开口袋数量 PE open pocket number	50~100PCS	PE封口袋数量Number of PE sealing pockets	500~1000PCS																			
注意事项 Matters need attention	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。 1. Whether the customer material code and quantity are correct, the label must be printed by machine. 2. Internal label, external label, shipment report and delivery form should be consistent. 3. If the trial production materials or change, the corresponding identification shall be affixed, the mantissa box shall be affixed, and the inspection report shall be attached.																							
包装简图Packaging diagram: : 1.取（50~100pcs）产品，装袋，贴物料标签； 1. Take (50~100pcs) products, bag and label materials; 2.将包装好的产品装入大袋（500~1000pcs），贴物料标签； 2. Put the packaged products into large bags (500~1000pcs) and label the materials; 3.将包装好的装箱（5000pcs），贴物料标签； 3. Box the packaging (5000pcs) and label the materials; 4.封箱。 4. Seal the box.    <table border="1"><tr><td colspan="2">深圳市中天盛源技术有限公司</td></tr><tr><td>型号</td><td>001</td></tr><tr><td>品名</td><td>无线网卡 (V2, 4000PCS)</td></tr><tr><td>物料编号</td><td>00000000000000000000</td></tr><tr><td>规格/单位</td><td>毫米</td></tr><tr><td>1:1 数量</td><td>00000000000000000000</td></tr><tr><td>数量</td><td>5000 PCS</td></tr><tr><td>生产日期</td><td>2022年02月04日</td></tr><tr><td>检验员</td><td>李金霞</td></tr></table> 							深圳市中天盛源技术有限公司		型号	001	品名	无线网卡 (V2, 4000PCS)	物料编号	00000000000000000000	规格/单位	毫米	1:1 数量	00000000000000000000	数量	5000 PCS	生产日期	2022年02月04日	检验员	李金霞
深圳市中天盛源技术有限公司																								
型号	001																							
品名	无线网卡 (V2, 4000PCS)																							
物料编号	00000000000000000000																							
规格/单位	毫米																							
1:1 数量	00000000000000000000																							
数量	5000 PCS																							
生产日期	2022年02月04日																							
检验员	李金霞																							
NO	变更内容Change content	变更人及日期 Change person and date																						
标签简图Tag diagram: :		外箱简图Short diagram of outer box :  (注意外箱标签需贴附在指定位置)																						

制表(Tabulation): 韦泓佳 HONGJIA WEI

审核(Checked by): 向恒锋HENG FENG XIANG

核准(Approved by): 党非非FEIFEI DANG