

规格承认书

SPECIFICATIONFORAPPROVAL

客 户 Customer	CVTE
项目名称 Project Name	AKATW03 WIFI-4 antenna
客户料号 Customer NO.	004.032.0052852
规 格 specification	WIFI-2 antenna assembly
供方料号 Supplier NO.	2.00000438
规格书编号 specification NO.	
编写人 Write by	Youjie.Ke
版本 REV.	A2
日期 Date	2024/9/18
备注 Note	

客户确认 CUSTOMERAPPROVEDBY		
批准 Approved by	审核 checked by	制表 prepared by
供方确认 SUPPLIERAPPROVEDBY		
批准 Approved by	审核 checked by	制表 prepared by
Guohua.Zou	Jianeng.Feng	Youjie.Ke



ANTENNA SPECIFICATION

Document the revision of the resume				
Version	date	Formulate/modify/abolish content	prepared by	Check
A1	2024-01-31	First edition	Youjie.Ke	Jianeng.Feng
A2	2024-09-18	Fix the foam back glue	Youjie.Ke	Jianeng.Feng

ANTENNA SPECIFICATION

CUS P/N :AKATW03 WIFI-4 antenna_WIFI-2 antenna assembly Application Date:Sep,18,2024
ZTX P/N : AKATW03 WIFI-4 antenna_WIFI-2 antenna assembly Editor:

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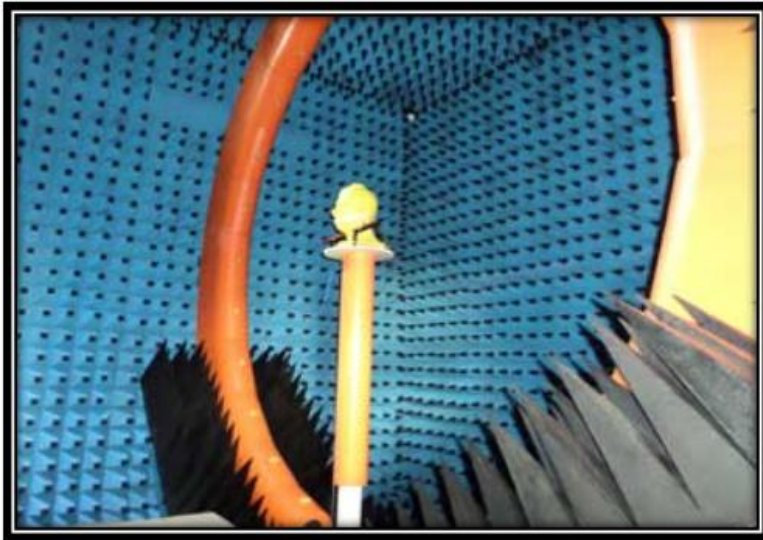
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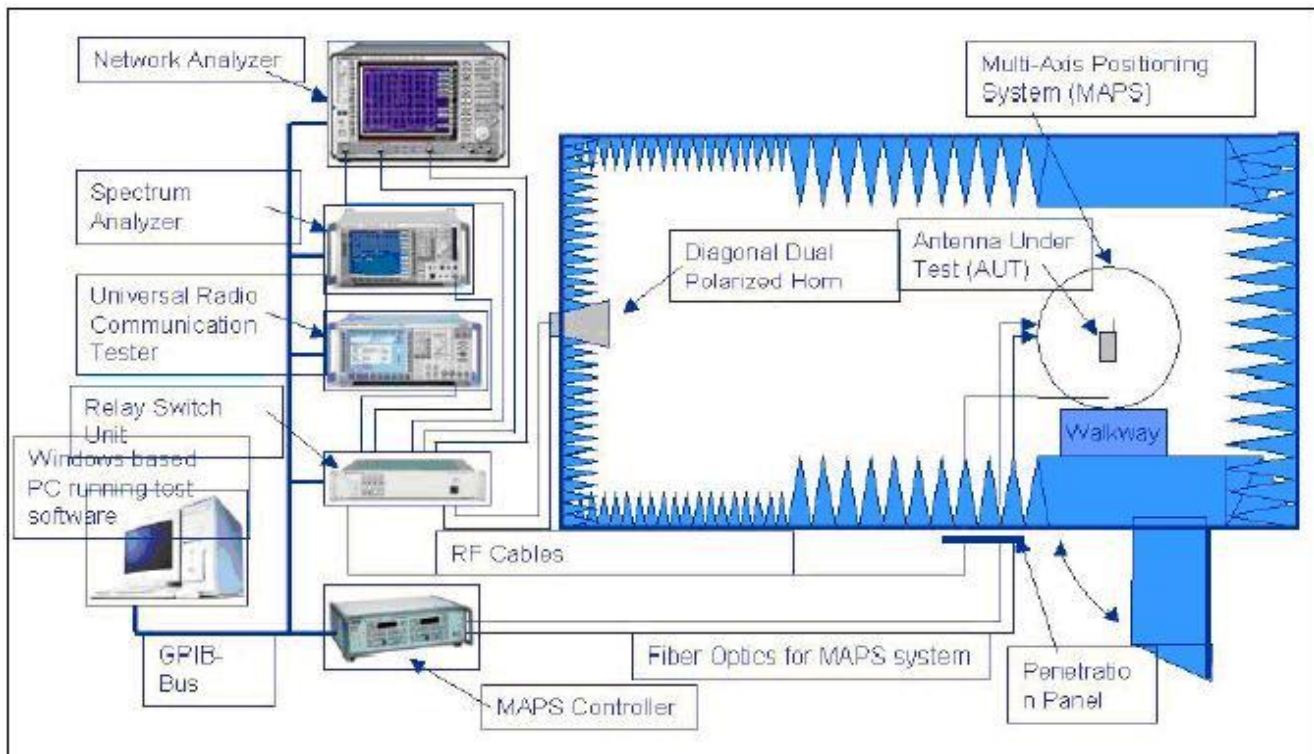
2. Test Equipment & Conditions



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.



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2-1 Passive Test

Frequency	Efficiency	Efficiency . dB	Gain . dB	5150	40%	-3.98	2.87
2400	47%	-3.28	3.76	5200	41%	-3.87	2.77
2410	48%	-3.19	3.99	5250	43%	-3.67	4.02
2420	46%	-3.37	3.23	5300	42%	-3.77	3.87
2430	47%	-3.28	3.45	5350	42%	-3.77	3.89
2440	49%	-3.10	3.48	5400	43%	-3.67	3.33
2450	49%	-3.10	3.41	5450	40%	-3.98	4.05
2460	48%	-3.19	3.23	5500	42%	-3.77	3.26
2470	49%	-3.10	3.32	5550	44%	-3.57	3.46
2480	48%	-3.19	3.44	5600	42%	-3.77	3.48
2490	47%	-3.28	3.27	5650	40%	-3.98	3.43
2500	46%	-3.37	3.96	5700	41%	-3.87	3.64
				5750	41%	-3.87	3.65
				5800	43%	-3.67	3.65
				5850	42%	-3.77	3.87

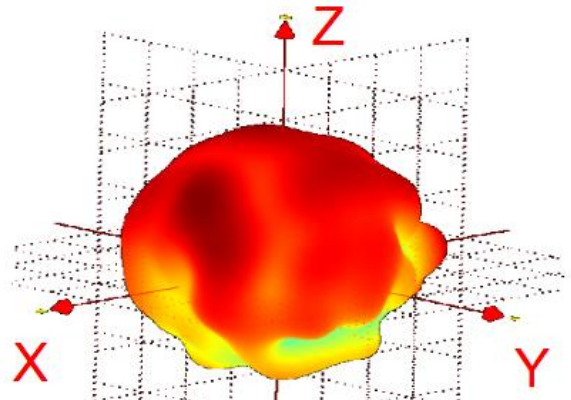
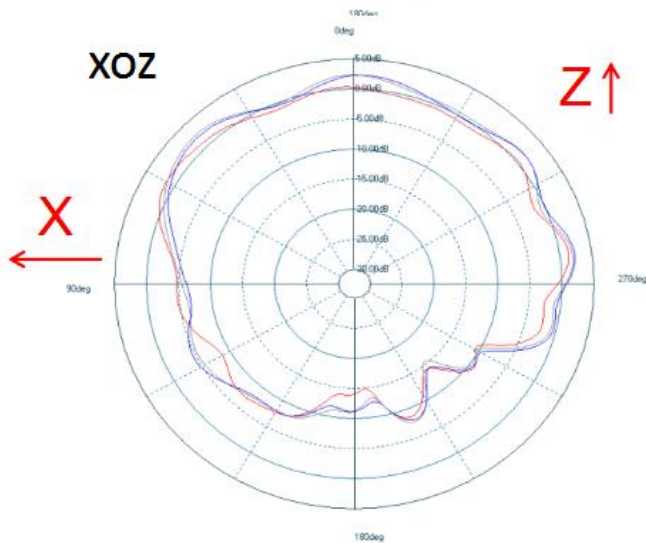
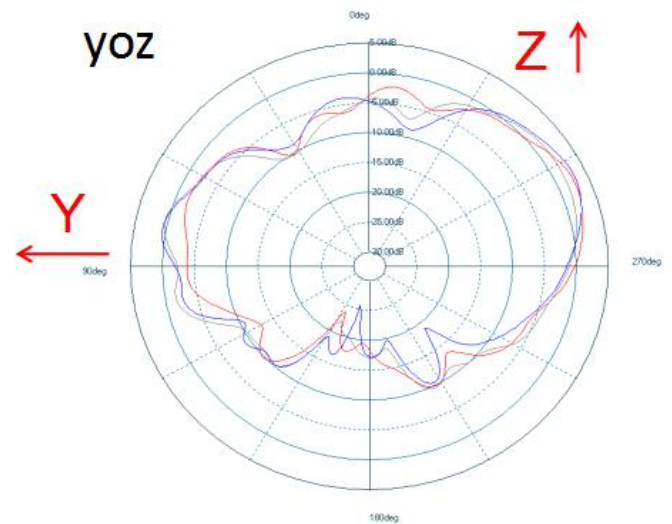
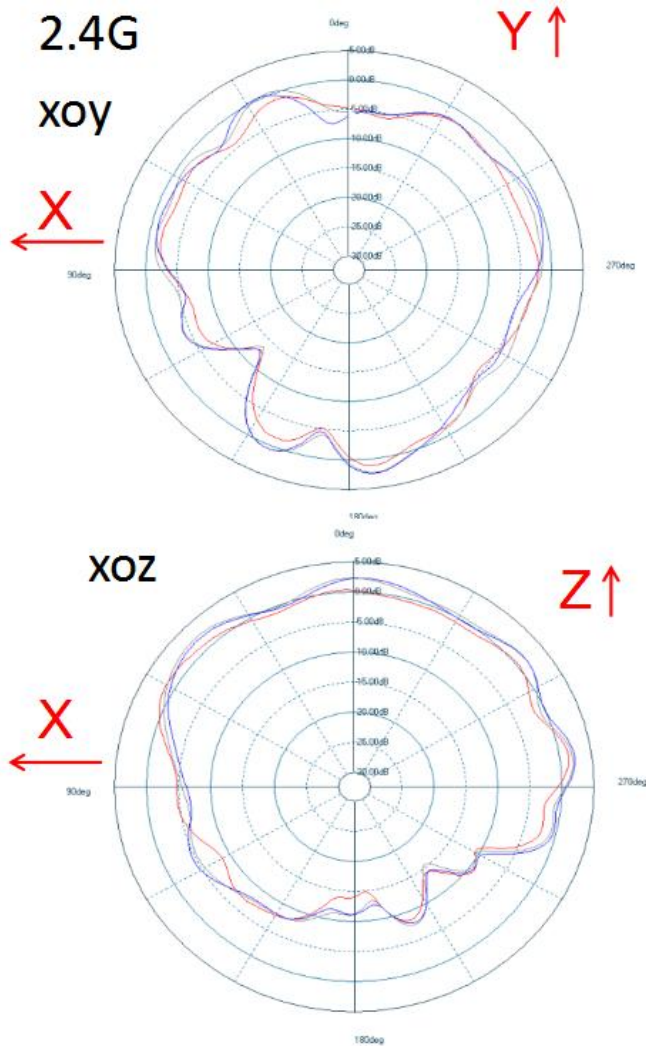
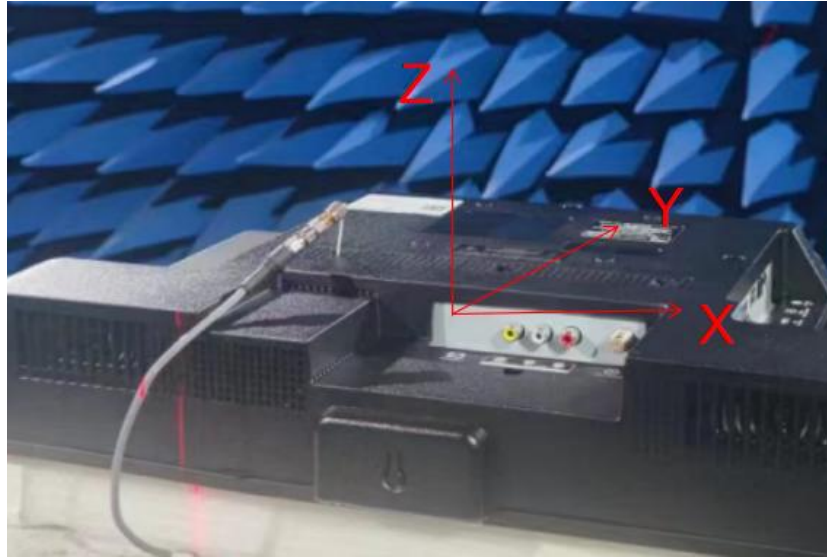


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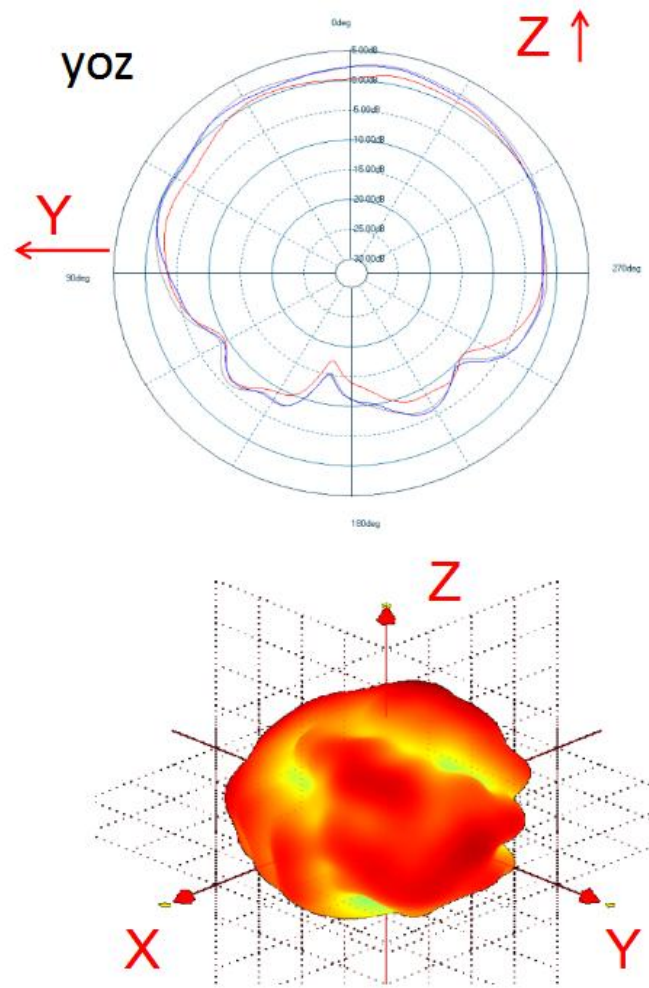
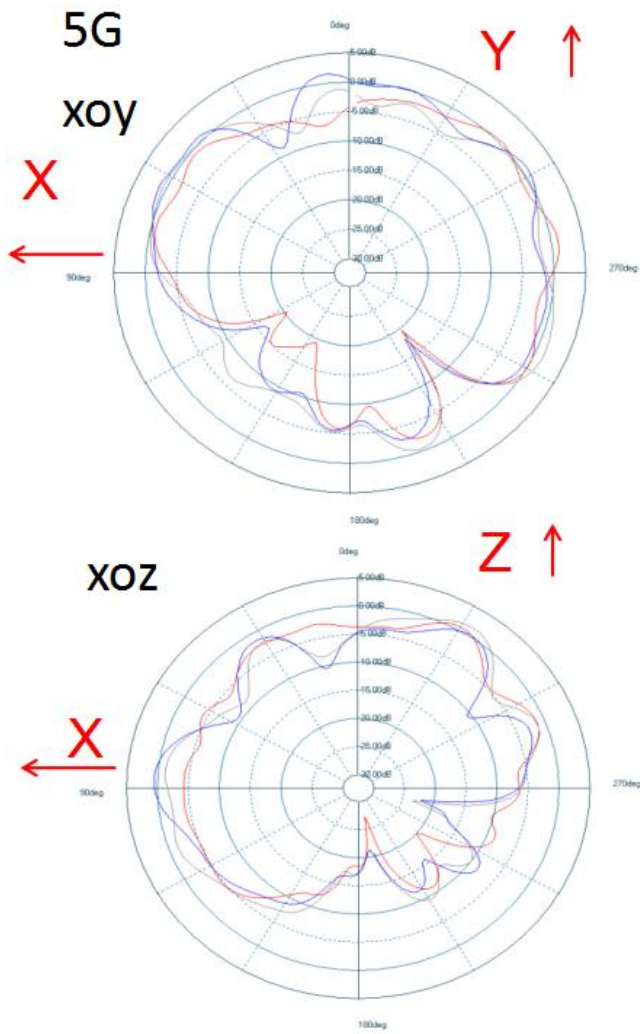
2-2 2D/3D Radiation Pattern Results



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2-3 Environmental treatment



Location markers can be added to BT antenna in the later stage



The edge of the wifi antenna is positioned at the corner of the screw

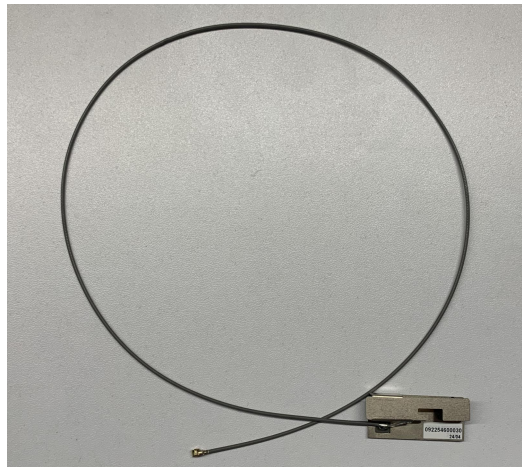


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3.Antenna physical picture

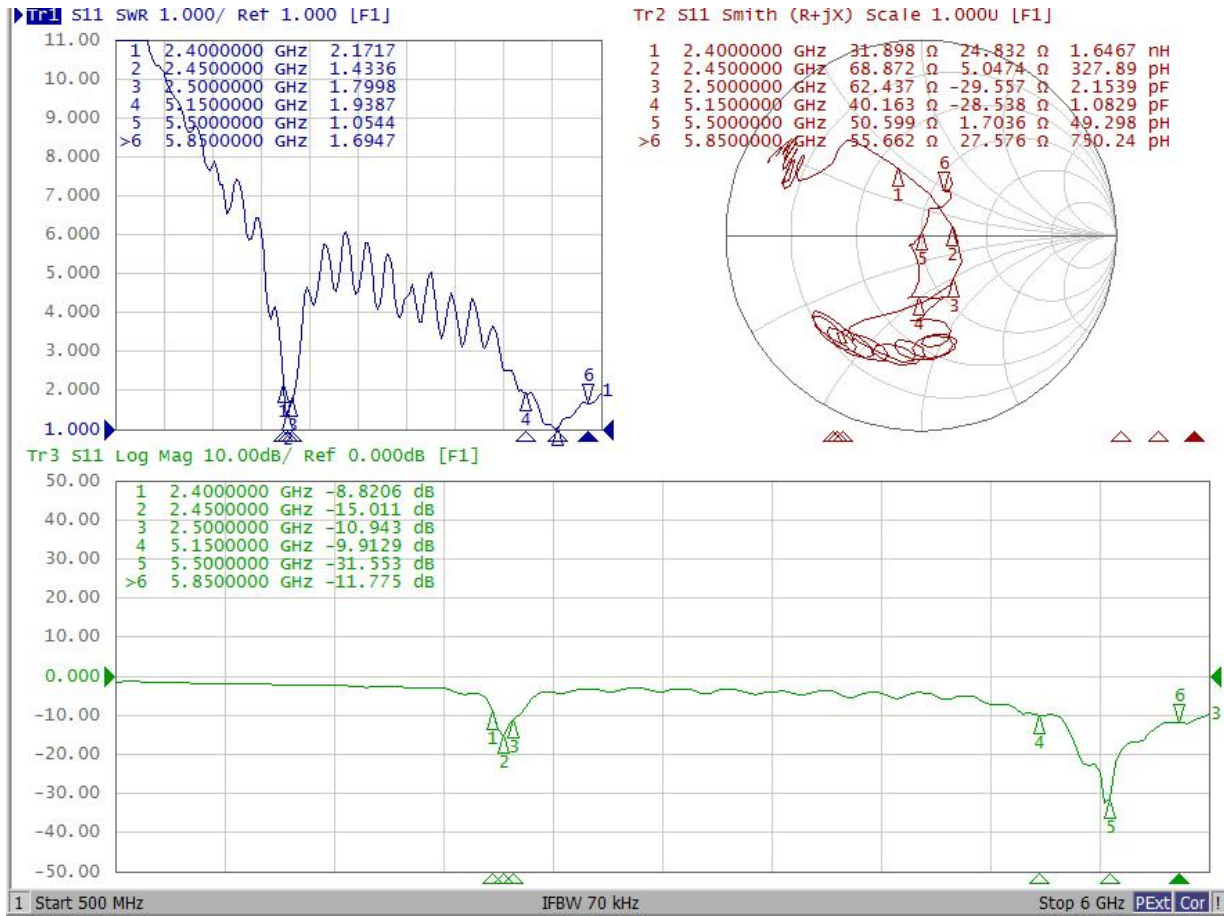


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4.S11



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Drawing Number:ZTX-QR-RD-013

Unmating force after the terminal and the board end are engaged: more than 5N for the first time.
After riveting the terminal and the wire, the tensile force should be 25N>Φ1.13>9.8N.

ROHS 2. 0 /Reach

A

B

C

D

①

31.80±0.20

②

14.00±0.20

③

5.20±0.20

④

Ø1.13±0.05

⑤

The exposed wire is long*410.00±3.00(grey)

⑥

*2.10±0.10

Wire braiding
Welding position

092254600030
XX/XX

The First liner: 線碼
The second liner: Date Code

Wire core

Welding position

Hand tear handle

Material description:

Serial number	Material name	Material description	Quantity	Remark
(A)	First-generation terminals + coaxial cables	FEP/ Grey + Phosphor Bronze/Gold-plated	1	
(B)	WiFi shrapnel	SUS304 T=0.30mm/ nickel-plated	1	
(C)	Supporting foam	Foam adhesive 3M 9495/ Black	1	
(D)	Fixed foam adhesive	Foam adhesive (3M 5611) grey	1	
(E)	Tag	PET/ White background + black text	1	

ZTX

Shenzhen ZHONGTIANXUN Communication Technology Shares Co., Ltd

Date: 2025. 07. 08

Unit: mm

Rev: A1

Scale: 1:1

Project code ztx3700

Designed: Youjie, Ke

Checked: Jianpeng, Feng

Approval: Guohua, Zou

Material:

Process:

Project Name:
AKATW03 WIFI-4 Antenna

Product Name:
WIFI-2 Antenna assembly

Material Code: 2.00000438

General

Tolerance

Grade

Dim

A

B

0-10

±0.10

±0.20

10-20

±0.15

±0.30

20-40

±0.20

±0.40

40>

±0.25

±0.50

Third Angle

Symbol

Material description: