



Approval Sheet

Customer	Yi Botong	Data	2023/08/03
Product	WiFi Antennas	Models	T106W
P/N	F903S-14RB-110	Customer P/N	
Specifications	Black FPC; RF0.81 IPEX-IV Black Line;Long=110mm		

Vender Approved By	Customer Approved By
Checked By:	Checked By:
Audit By:	Audit By:
Approval By:	Approval By:

File Revision Table

Version	Revise The Content	Revused	Approval	Date	Note



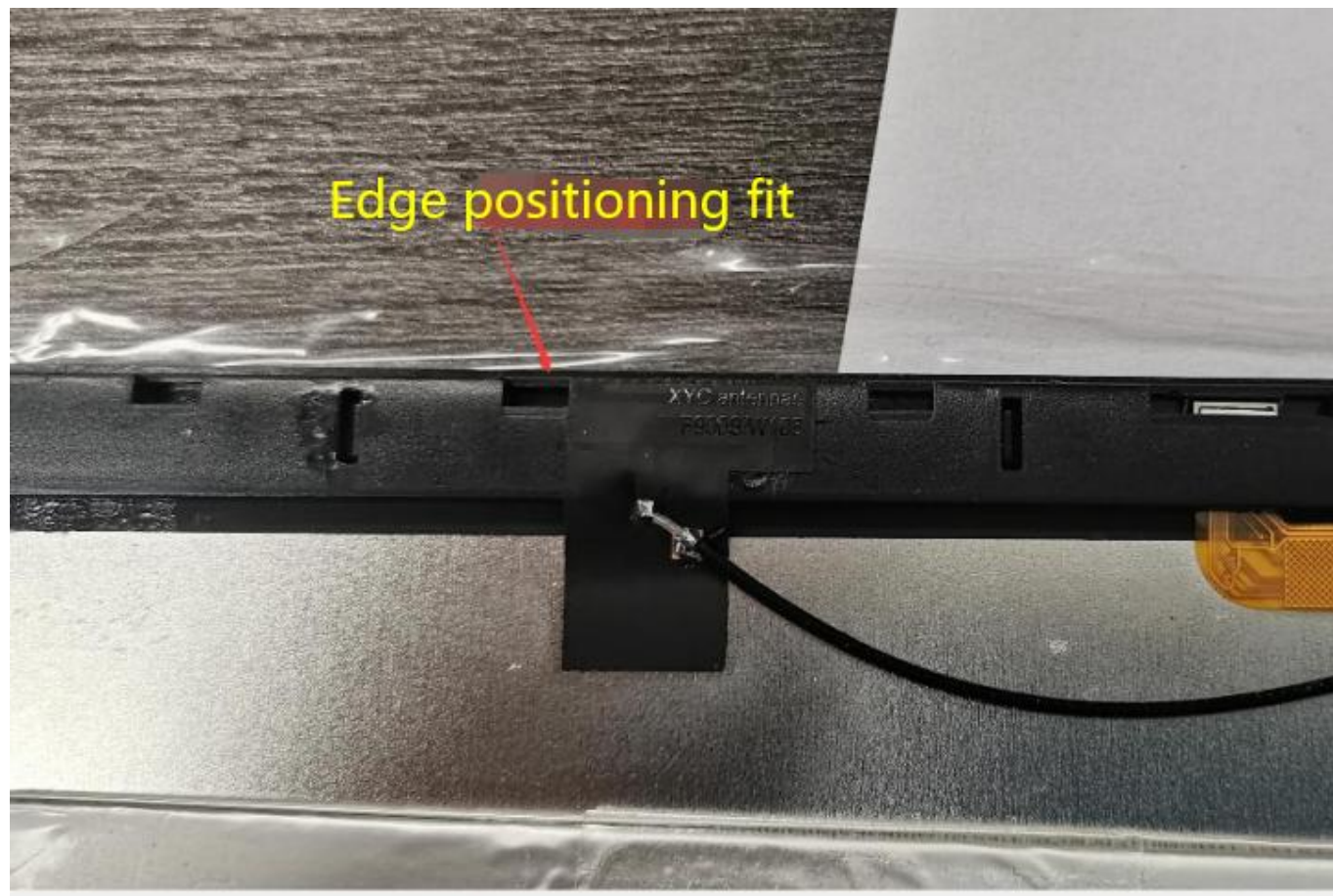
Content		
NO.	Proect	Page NO.
1	Specification	4
2	Antenna Placement	5
3	Test Data	6~~7
4	Antenna Assembly	8
5	Notes	9
6	Inspection Standard	10
7	Sample Inspection Report	11
8	Packing Specification	12



Specification	
1.1 Electrical Properties	
Characteristics	Specifications
Working Band	2.4G WiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	59%@2.4G
Peak Gain	2.5dBi@2.4G
1.2 Physical Properties	
Characteristics	Specifications
Operating Temp	-10°C ~+60°C
Storage Temp	-10°C ~+70°C
Humidity	10~95%RH

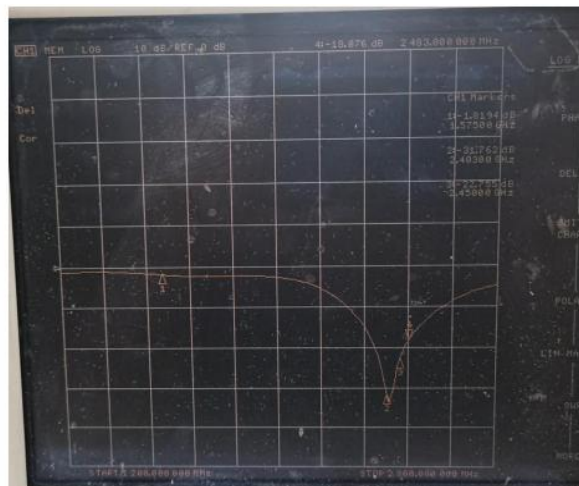
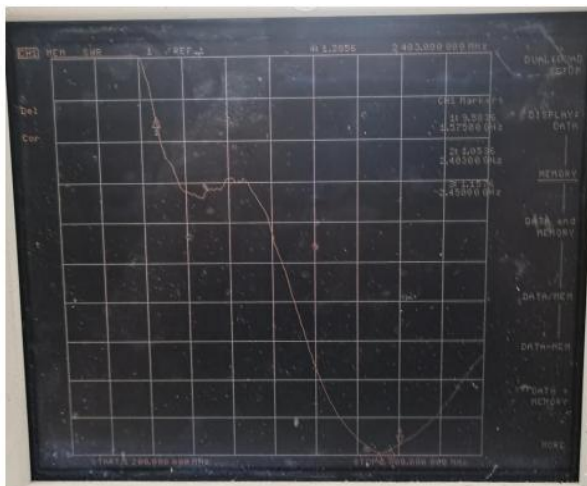


Antenna Placement



Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2450	2483	5150	5500	5850
VSWR	1.05	1.15	1.28			
Return Loss (DB)	-31.76	-22.70	-10.07			

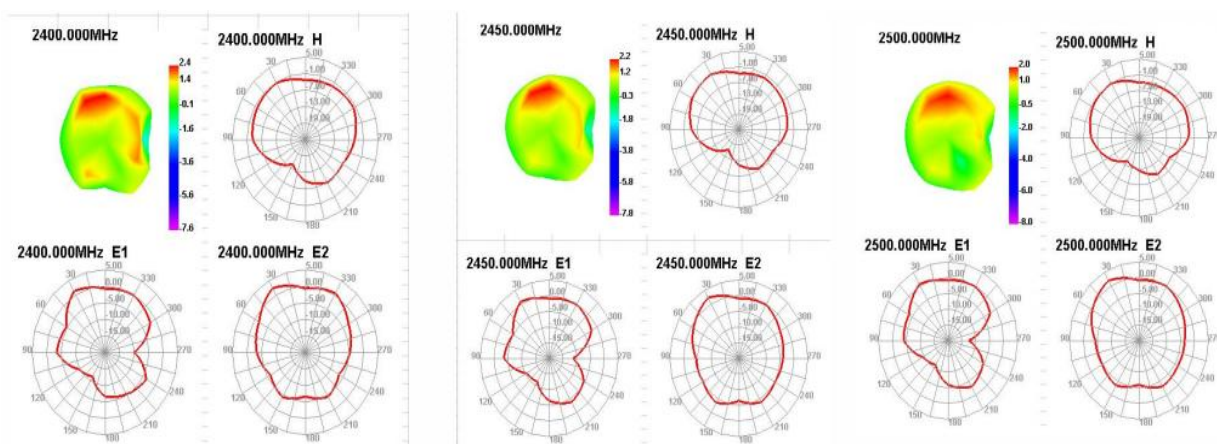
WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	16.76	CH1 11Mbps	-84.06
	2437	CH6 11Mbps	16.06	CH6 11Mbps	-84.43
	2467	CH11 11Mbps	15.46	CH11 11Mbps	-83.07

Efficiency Table

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	58.8	-2.31	2.42	0.27	38.139	20.659
2410	56.52	-2.48	2.26	0.11	36.262	20.257
2420	57.62	-2.39	2.37	0.22	37.015	20.608
2430	56.93	-2.45	2.33	0.18	36.274	20.652
2440	56.85	-2.45	2.22	0.07	35.944	20.905
2450	56.88	-2.45	2.25	0.1	35.639	21.243
2460	56.77	-2.46	2.25	0.1	35.545	21.228
2470	56.01	-2.52	2.49	0.34	35.311	20.701
2480	57.67	-2.39	2.16	0.01	36.113	21.553
2490	59.83	-2.23	2.54	0.39	37.572	22.256
2500	57.02	-2.44	1.96	-0.19	35.666	21.352

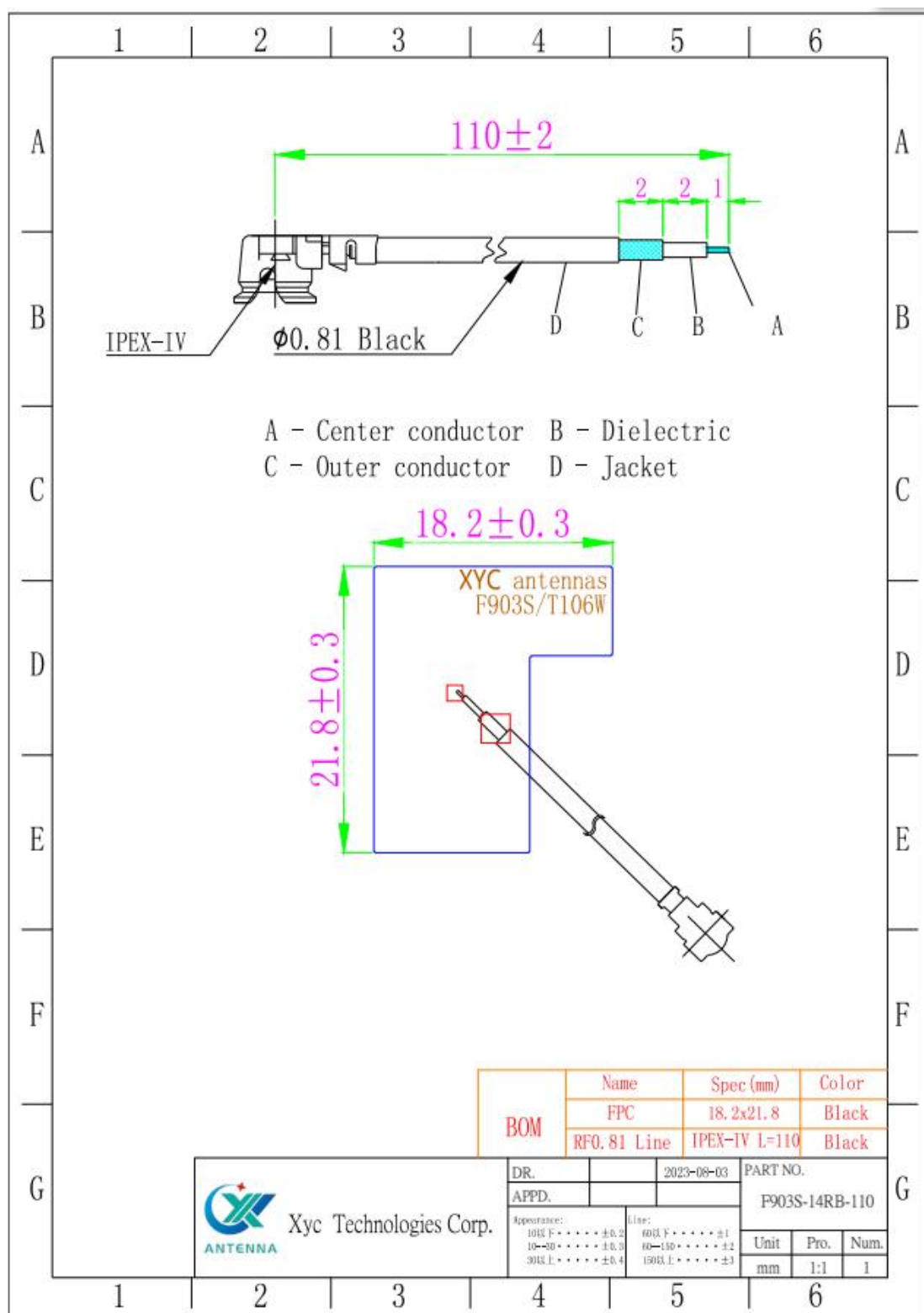
Radiation Pattern



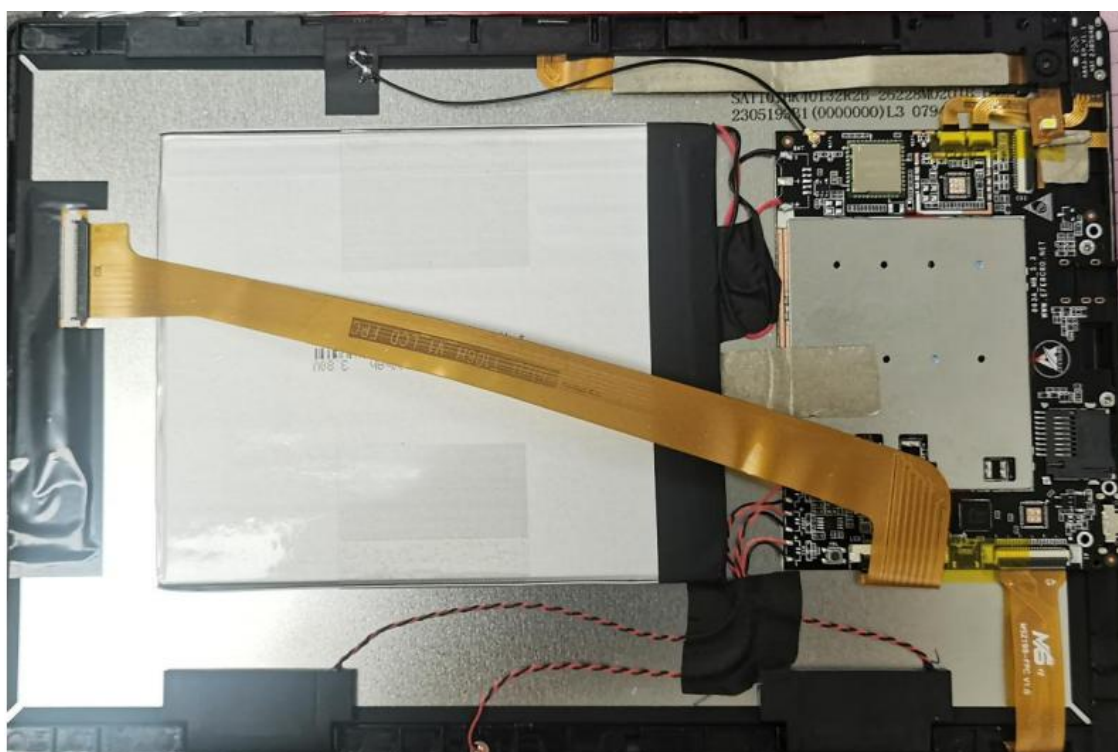
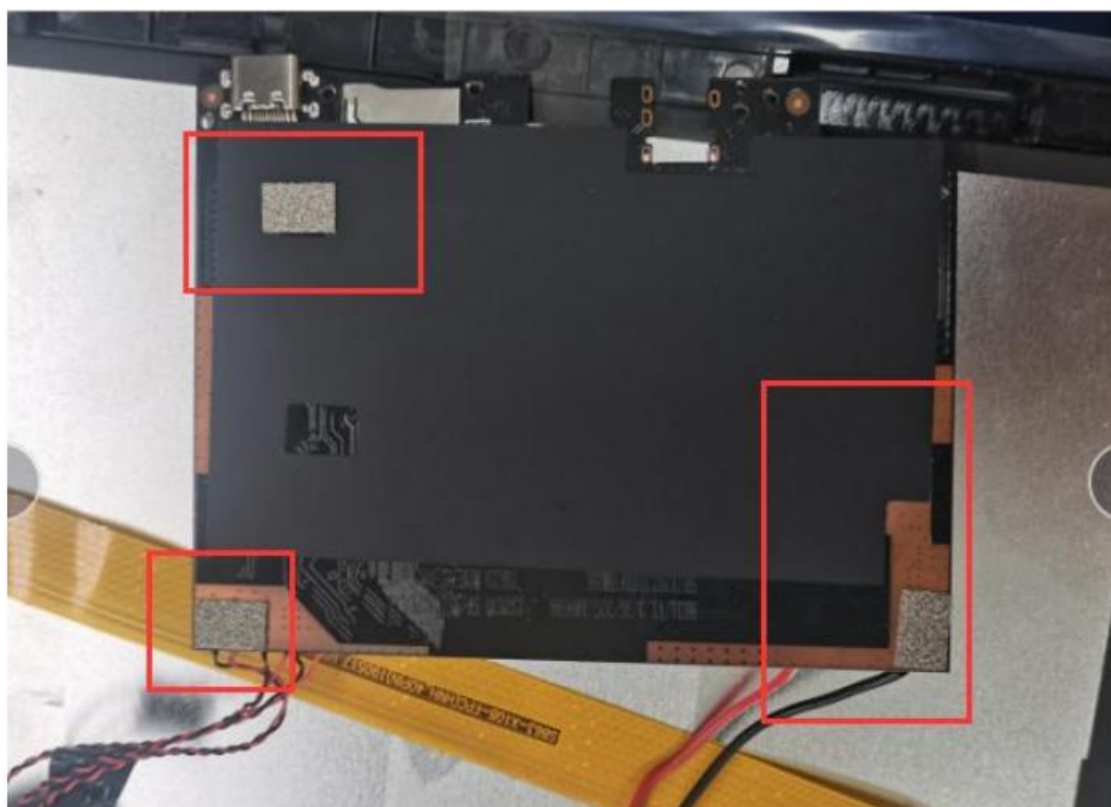
BT Measured

Test environment: Open space (channel)
 Test tool: Bluetooth speaker
 Test distance: 15m
 Results: Play music smoothly, no noise.

Antenna Assembly



Notes





Inspection Standard

Xyc Technologies Corp.	File Cod.	XYC-WI-PZ-02	Page.
	File Vers.	A0	1 of 1
File Name	Sampling Plan		

Sampling Level Table

Special Check				General			Batch Scope	Sample Word	Sampling	0.65		1.0		1.5		2.5		4.0		6.0	
S-1	S-2	S-3	S-4	I	II	III				AC	RE	AC	RE	AC	RE	AC	RE	AC	RE	AC	RE
A	A	A	A	A	A	B	2--8	A	2	0	1	0	1	0	1	0	1	0	1	0	1
A	A	A	A	A	B	C	9--15	B	3	0	1	0	1	0	1	0	1	0	1	0	1
A	A	B	B	B	C	D	16--25	C	5	0	1	0	1	0	1	0	1	0	1	1	2
A	B	B	C	C	D	E	26--50	D	8	0	1	0	1	0	1	0	1	1	2	1	2
B	B	C	C	C	E	F	51--90	E	13	0	1	0	1	0	1	1	2	1	2	2	3
B	B	C	D	D	F	G	91--150	F	20	0	1	0	1	1	2	1	2	2	3	3	4
B	C	D	E	E	G	H	151--280	G	32	0	1	1	2	1	2	2	3	3	4	5	6
B	C	D	E	F	H	J	281--500	H	50	1	2	1	2	2	3	3	4	5	6	7	8
C	C	E	F	G	J	K	501--1200	J	80	1	2	2	3	3	4	5	6	7	8	10	11
C	D	E	G	H	K	L	1201--3200	K	125	2	3	3	4	5	6	7	8	10	11	14	15
C	D	F	G	J	L	M	3201--10000	L	200	3	4	5	6	7	8	10	11	14	15	21	22
C	D	F	H	K	M	N	10001-35000	M	315	5	6	7	8	10	11	14	15	21	22	21	22
D	E	G	J	L	N	P	35001-150000	N	500	7	8	10	11	14	15	21	22	21	22	21	22
D	E	G	J	M	P	Q	150001-500000	P	800	10	11	14	15	21	22	21	22	21	22	21	22
D	E	H	K	N	Q	R	500001and over	Q	1250	14	15	21	22	21	22	21	22	21	22	21	22
								R	2000	21	22	21	22	21	22	21	22	21	22	21	22

AC-Qualified RE-No Qualified



Sample Inspection Report

Customer	Yi Botong	Product	WiFi Antennas	Quantity shipped	5	Sampling quantity	2	
Models	T106W		P/N	F903S-14RB-110		Shipping date	2023/08/03	
Sampling standard	☒ Normal inspection ☐ Tightened inspection ☐ Decrement inspection							
Sampling mode	MIL-STD-105D (II) Single sampling Acceptance limit AQL:CR: 0 Maj: 0.4 Min: 1.5							
Quality acceptance level			CR Acc	0	Maj ACC	0	Min ACC	0
			CR REJ	1	Maj REJ	1	Min REJ	1
project	program of tests	examination requirement	test method	inspection result				decide
				1	2	3	4	
Dimensional inspection	Line length	110±3	ruler	110	110			OK
	FPC shape	18.2±0.3	calliper	18.2	18.1			OK
	FPC shape	21.8±0.3	calliper	21.7	21.8			OK
project	program of tests	examination requirement	test method	Defect description	C R	Maj	Min	判定
visual inspection	wire sheath	There is no scratching phenomenon on the outer cover	visual	No abnormality	0	0	0	OK
	Solder pad	No oxidation, tin point and other phenomena	visual	No abnormality	0	0	0	OK
	IPEX	No color difference, shrinkage, oxidation, deformation and other undesirable phenomena	visual	No abnormality	0	0	0	OK
electrical specification								
final judgment	☒ OK ☐ NG							

FORM ID NO: XYC-WF-PZ-001

Packing Specification

