样品承认书

P/N		
Sample adaptability model		CR15Q05P
Sample description		WIFI Aux-antenna/with four terminals line length 270mm/CR15Q05P
Development Department	**electronic**	
	structure	
Development approval		
Quality Department		
Purchasing Department		
Remark		

Approval Sheet

Customer	Yanghua Digital	Data	2025/03/19
Product	WiFi Aux antenna	Models	CR15Q05P
P/N	F414A-14RG-270	Customer P/N	
Specifications	Black FPC; RF0.81 fourth generation terminal grey coaxial line； Length:L=270mm		

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

Document revision Resume

Version	Revise The Content	Revused	Approval	Date	Note

Address:1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen
Tel：0755-82103639 QQ：487580356 Email：Stephdeng_Vis@126.com

Content

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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi; 5GWiFi
Antenna From	PIFA
Impedance	50Ω
Polarization	Linear
Peak Effi	50%@2.4G; 49%@5G
Peak Gain	2.1dBi@2.4G; 1.2dBi@5G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10℃~+60℃
Storage Temp	-10℃~+70℃
Humidity	10~95%RH

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WiFi Ant Test Information

Frequency	2.4G(2402~2483)Mhz	5G(5150~5850)Mhz
Module information		
Driver version information		

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Antenna Placement

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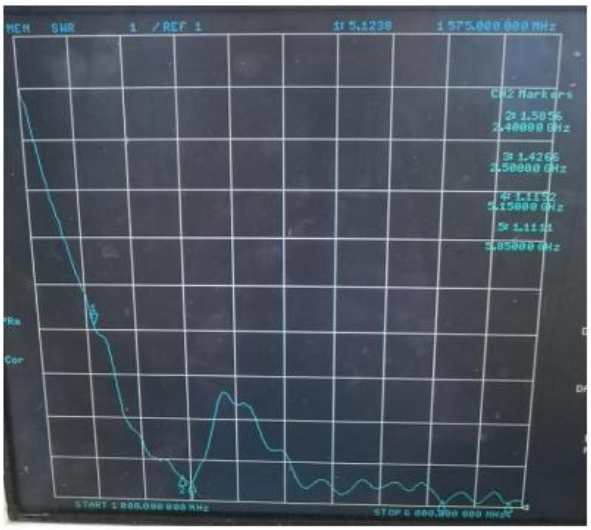
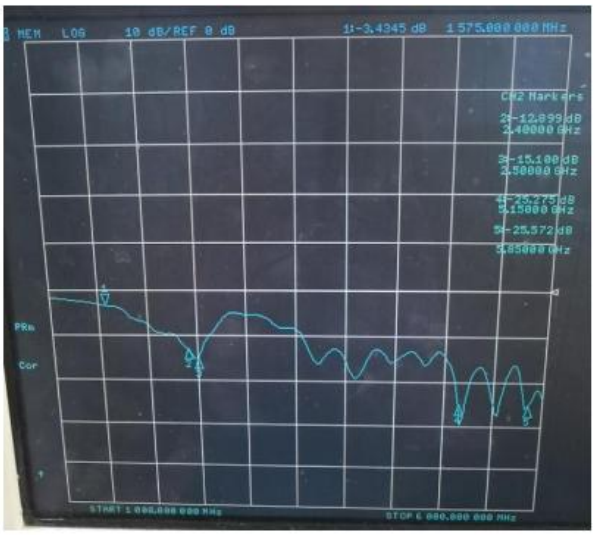
Test Data

S11 Parameter-VSWR





Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.58	1.42	1.11	1.11
Return Loss (DB)	-12.89	-15.10	-25.27	-25.57

WiFi Active Test Data

	Frequency	TRP		TIS(LCD ON)	
802.11b	2412	CH1 11Mbps	11.58	CH1 11Mbps	-80.47
	2437	CH6 11Mbps	12.38	CH6 11Mbps	-80.52
	2467	CH11 11Mbps	12.46	CH11 11Mbps	-80.51
802.11a		TRP		TIS(LCD ON)	
	5180	CH36 6Mbps	10.38	CH36 54Mbps	-69.21
	5300	CH60 6Mbps	10.42	CH60 54Mbps	-69.44
	5700	CH140 6Mbps	10.54	CH140 54Mbps	-69.56

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Efficiency Table

Passive Test For WIFI2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	42.06	-3.76	1.35	-0.8	23.761	18.301	1.35	-13.54	5.11	0	45.78	46.01
2410	39.06	-4.08	0.95	-1.2	22.044	17.019	0.95	-14.43	5.03	0	46.01	46.29
2420	42.4	-3.73	1.59	-0.56	23.91	18.491	1.59	-15.34	5.32	0	45.73	46
2430	42.86	-3.68	1.58	-0.57	24.234	18.623	1.58	-15.24	5.26	0	46.01	46.36
2440	41.2	-3.85	1.45	-0.7	23.259	17.942	1.45	-15.51	5.3	0	46.12	46.48
2450	42.87	-3.68	1.85	-0.3	24.131	18.744	1.85	-14.22	5.52	0	46.12	46.54
2460	47.11	-3.27	2.16	0.01	26.42	20.694	2.16	-13.17	5.43	0	46.14	46.52
2470	46.46	-3.33	1.98	-0.17	25.972	20.49	1.98	-13.09	5.3	0	46.4	46.8
2480	47.75	-3.21	1.99	-0.16	26.77	20.976	1.99	-13.14	5.2	30	46.26	46.64
2490	50.1	-3	2	-0.15	28.289	21.811	2	-12.79	5	30	46.51	46.91
2500	48.4	-3.15	1.61	-0.54	27.58	20.823	1.61	-13.91	4.76	30	46.47	46.86
Passive Test For WIFI5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	31.87	-4.97	-0.63	-2.78	16.704	15.165	-0.63	-19.89	4.34	0	49.82	49.4
5170	31.65	-5	-0.74	-2.89	16.436	15.217	-0.74	-17.89	4.26	0	50.13	49.77
5190	31.57	-5.01	-0.61	-2.76	16.562	15.011	-0.61	-17.45	4.39	30	50.42	49.95
5210	34.75	-4.59	-0.25	-2.4	18.425	16.326	-0.25	-19.41	4.34	30	50.88	50.49
5230	34.79	-4.59	-0.39	-2.54	18.319	16.466	-0.39	-20.57	4.2	30	50.42	50.08
5250	39.25	-4.06	0.25	-1.9	20.428	18.82	0.25	-20.21	4.31	0	51.02	50.72
5270	39.61	-4.02	0.46	-1.69	20.678	18.933	0.46	-17.02	4.48	0	50.85	50.6
5290	42.83	-3.68	0.49	-1.66	22.521	20.309	0.49	-17.24	4.17	0	51.34	51.12
5310	41.78	-3.79	0.45	-1.7	21.924	19.856	0.45	-18.58	4.24	0	50.44	50.36
5330	44.52	-3.51	1.19	-0.96	23.154	21.369	1.19	-19.66	4.7	0	51.08	51.01
5350	45.73	-3.4	1.29	-0.86	24.023	21.702	1.29	-20.89	4.69	0	51.02	51.01
5370	44.09	-3.56	1.14	-1.01	23.642	20.452	1.14	-22.13	4.7	0	50.91	50.95
5390	40.53	-3.92	0.68	-1.47	21.818	18.71	0.68	-23.34	4.61	0	50.46	50.43
5410	48.31	-3.16	1.23	-0.92	25.741	22.571	1.23	-27.17	4.39	0	51.18	51.09
5430	42.5	-3.72	0.08	-2.07	22.383	20.12	0.08	-21.52	3.8	0	50.69	50.7
5450	45.26	-3.44	0.17	-1.98	23.686	21.572	0.17	-18.56	3.61	0	50.71	50.85
5470	42.32	-3.73	-0.06	-2.21	21.869	20.453	-0.06	-18.51	3.68	0	50.93	50.83
5490	42.37	-3.73	0.17	-1.98	21.221	21.149	0.17	-20.98	3.9	0	50.92	50.79
5510	43.48	-3.62	0.53	-1.62	21.163	22.32	0.53	-19.33	4.15	30	51.18	51.16
5530	43.17	-3.65	0.62	-1.53	21.12	22.052	0.62	-16.83	4.27	30	51.44	51.3
5550	45.88	-3.38	0.89	-1.26	22.823	23.06	0.89	-15.67	4.27	30	51.89	51.76
5570	41.01	-3.87	0.35	-1.8	20.75	20.26	0.35	-17.72	4.22	30	51.42	51.33
5590	45.42	-3.43	0.46	-1.69	23.422	22	0.46	-17.89	3.89	30	51.71	51.76
5610	41.77	-3.79	-0.53	-2.68	22.097	19.67	-0.53	-14.37	3.26	30	51.17	51.22
5630	49.15	-3.08	0.52	-1.63	26.682	22.472	0.52	-11.91	3.61	30	51.78	51.77
5650	41.49	-3.82	-0.09	-2.24	23.009	18.485	-0.09	-12.67	3.73	30	51.47	51.55
5670	48.32	-3.16	0.51	-1.64	27.075	21.244	0.51	-12.71	3.66	30	52.12	52.28
5690	41.96	-3.77	-0.04	-2.19	23.44	18.523	-0.04	-13.54	3.73	30	52.12	52.25
5710	45.94	-3.38	0.01	-2.14	25.527	20.413	0.01	-15.06	3.39	30	51.95	52.05
5730	47.32	-3.25	0.61	-1.54	26.598	20.718	0.61	-16.67	3.86	30	51.59	51.69
5750	43.34	-3.63	0.25	-1.9	24.542	18.803	0.25	-17.18	3.88	30	51.12	51.15
5770	46.04	-3.37	0.48	-1.67	26.032	20.009	0.48	-16.87	3.85	30	51.02	51.06
5790	43.4	-3.63	0.54	-1.61	24.741	18.66	0.54	-18.58	4.17	30	51.08	51.16
5810	47.08	-3.27	0.9	-1.25	26.979	20.104	0.9	-19.91	4.17	60	51.36	51.43
5830	46.77	-3.3	0.76	-1.39	26.89	19.884	0.76	-18.75	4.05	60	51.65	51.66
5850	49.42	-3.06	0.62	-1.53	28.285	21.139	0.62	-16.9	3.68	60	51.88	52.05

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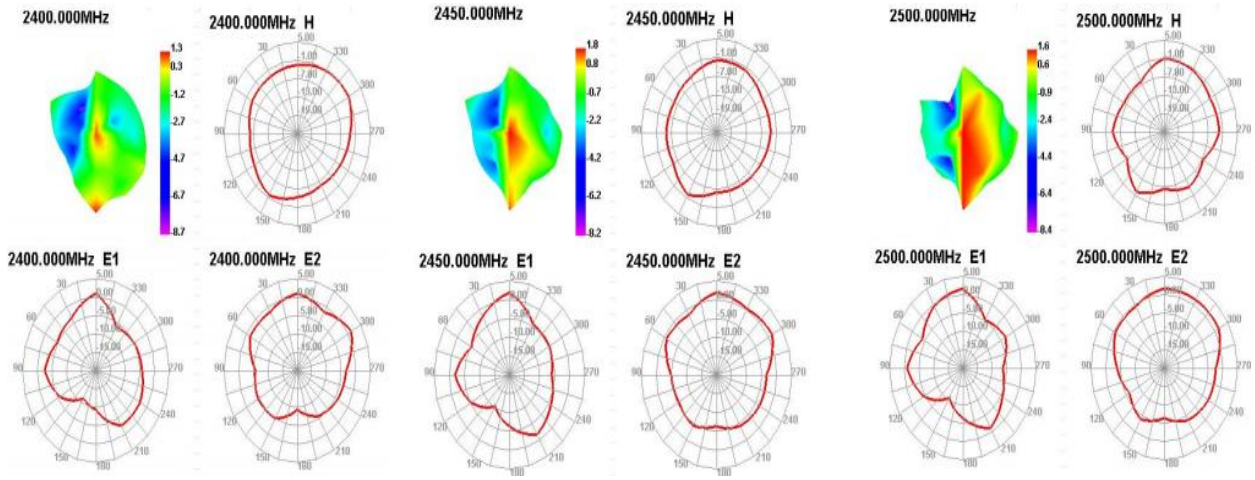
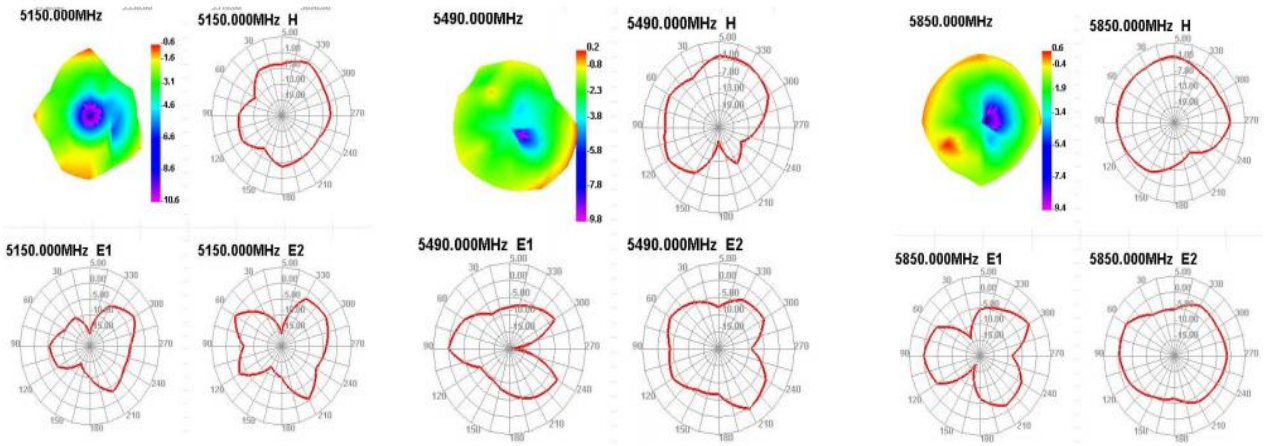
Radiation Pattern(2.4G)



Radiation Pattern(5G)



BT Test

Test environment: Corridor channel

Test tool: Bluetooth speaker

Test distance: 10+M (smooth music playback without stalling)

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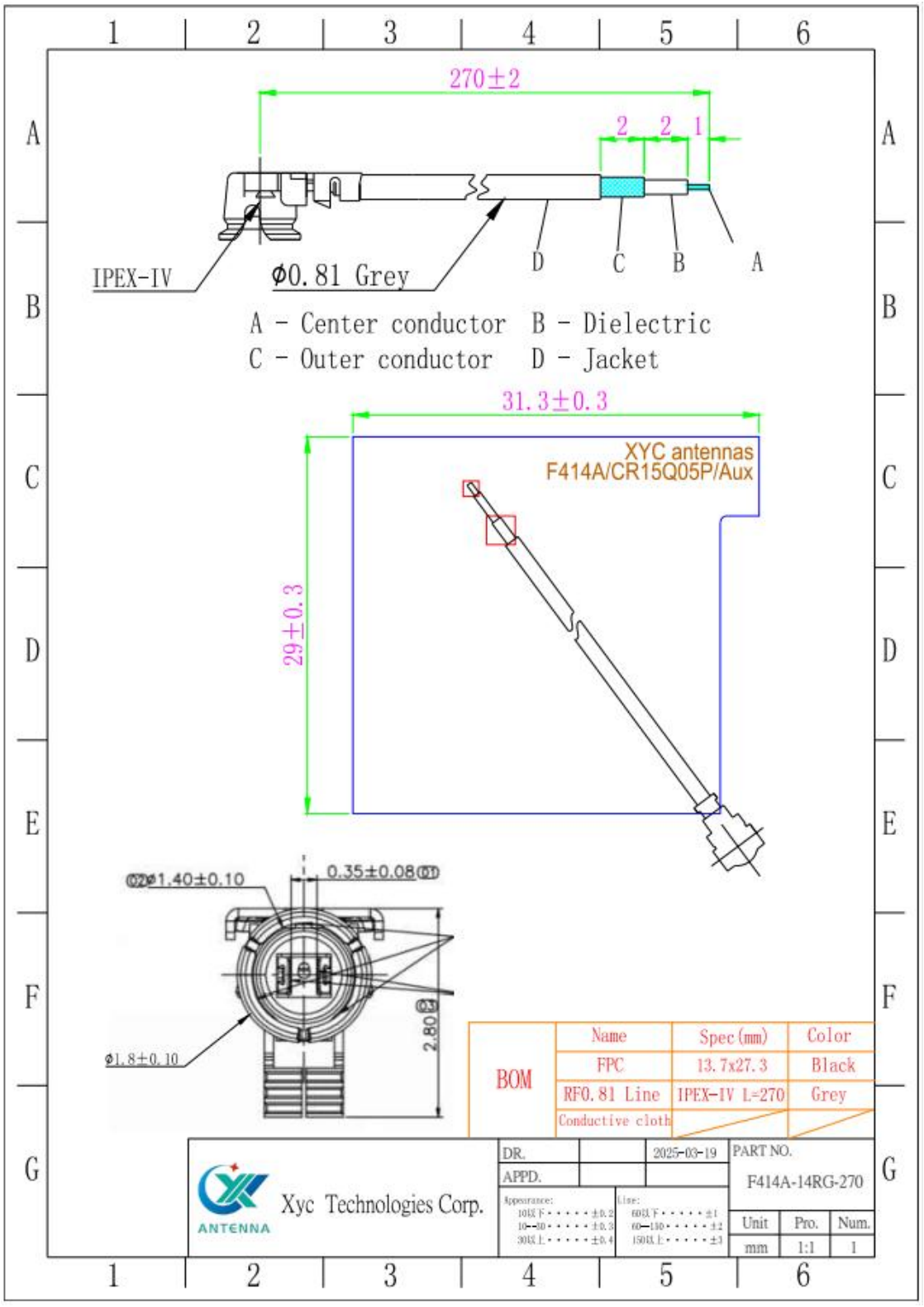
Antenna Assembly



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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

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List Of Raw Materials

Environmental protection parts test report statistical list

The company hereby guarantees that all the information recorded in and attached to this "Environmental Protection Parts Test Report" is true. If there is any inaccuracy (including but not limited to the error in the comparison between the part number and the original test report), the company will be fully liable for any damage caused to Shenzhen Yingzhongshi Intelligent Technology Co., LTD.

Material name: Aux Antennas Supplier part: F414A-14RG-270

Part number : issuer:

fiction: Legal representative:

NO.	Name	Material supplier	Mfr Part Number	Hazardous Substances Concentration in Homogeneous Material(PPM)										HF		Test Lab, organization	Test Report Number	Test Date (YY-MM-DD)	Insert a third party test report
				Cd	Pb	Hg	Cr6+	PBBs	PBDEs	DBP	BBP	DEHP	DIBP	Cl	Br				
				<100	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<900	<900				
1	WIFI Aux Ant	XYC	FPC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Tongbiao standard technical service Co., Ltd.	CANEC2227194601 CANEC2227194602	2022-12-22	CAN22-271946-01_EC_F.PDF
			Rubber backing	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
			Text	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
			Solder shield	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
			Wire rod	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				

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Sample Inspection Report

Customer	Yang Hua	Product	WIFI Aux Antennas	Quantity shipped	5	Sampling quantity	2
Models	CR15Q05P		P/N	F414A-14RG-270		Shipping date	2025/03/19
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	270±3	ruler	270	270			OK
	FPC shape	29±0.3	calliper	29	29			OK
	FPC shape	31.3±0.3	calliper	31.2	31.3			OK

project	program of tests	examination requirement	test method	Defect description	C R	Maj	Min	decide
visual inspectio	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

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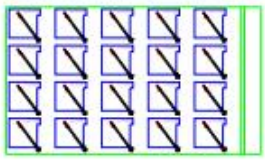
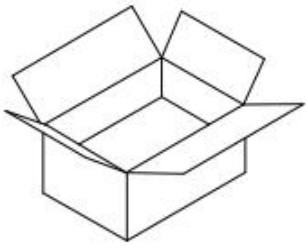
Packing Specification

1、 finished antenna

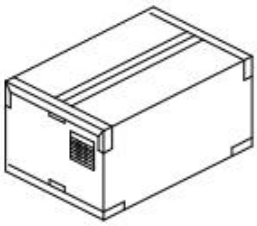
2、Bagging, minimum packing, 100 PCS per pack



3、Packing: the actual packing prevails



4、Seal the box and stick the outer box to our company Material labels and ROHS labels



Xyc Technologies Corp.	Customer	Yang Hua		PART NO.	
	Pro. Name	CR15Q05P		Product packaging specification	
	Mate. Name	WIFI Antennas			
	DR.		2025-03-19	Unit	Pro. Num.
	APPD.			mm	1

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