Approval Sheet

Customer	Gong Ke	Data	2022/10/17
Product	WiFi Antennas	Models	AB03
P/N	Main:F615-14LB-152 Aux:F614-14RB-142	Customer P/N	
规格描述 Specifications	Black FPC; Main: RF0.81 IPEX-IV Black Line;Long=152mm; Aux:RF0.81 IPEX-IV Black Line;Long=142mm;		

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

File Revision Table

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	47%@2.4G; 54%@5G
Peak Gain	2.19dBi@2.4G; 4.8dBi@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		

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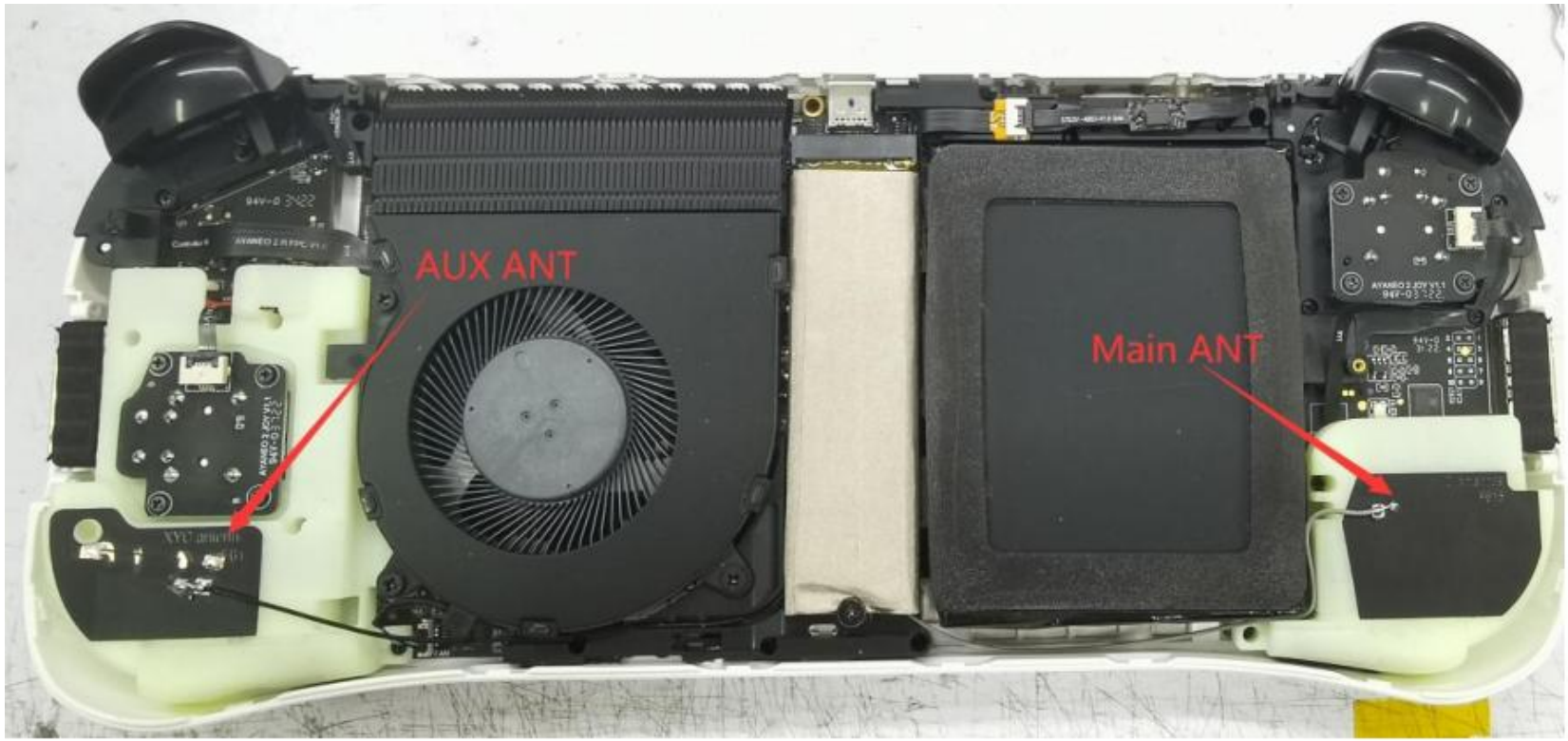
Antenna Placement



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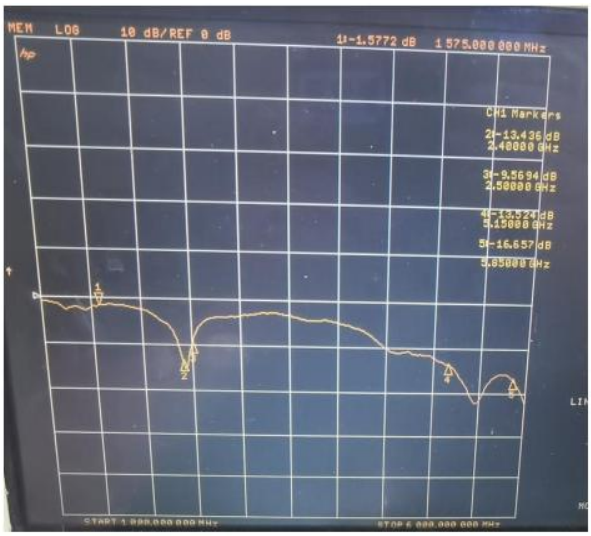
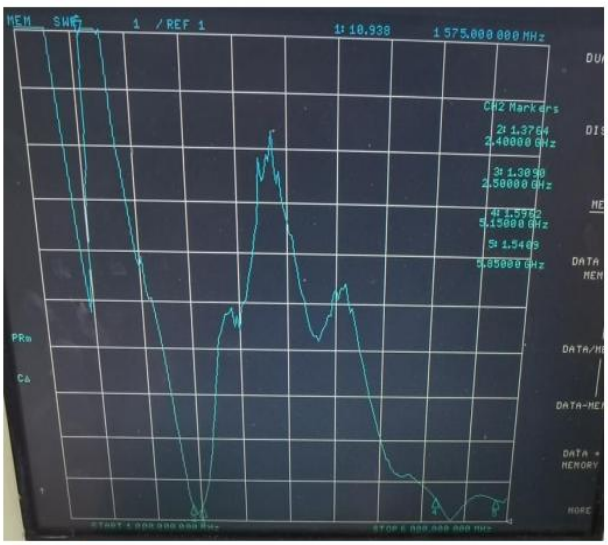
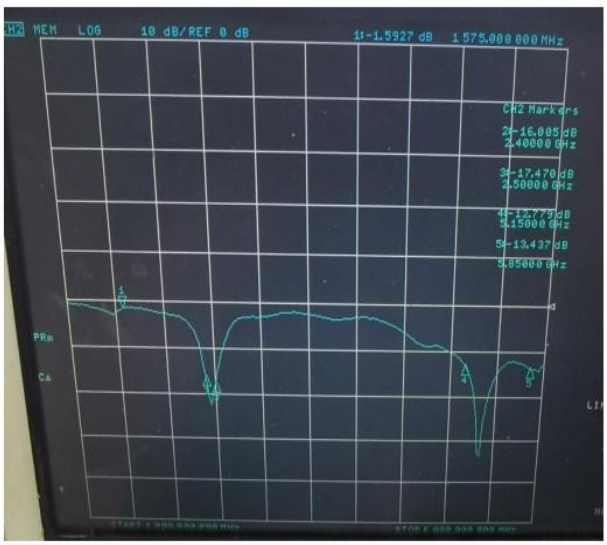
Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.54	1.99	1.53	1.34
Return Loss (DB)	-13.43	-9.56	-13.52	-16.65





Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.37	1.30	1.59	1.54
Return Loss (DB)	-16.00	-17.47	-12.77	-13.43

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WiFi Active Test Data

	Frequency	TRP		TIS	
802.11b	2412	CH1 11Mbps	11.54	CH1 11Mbps	-77.56
	2437	CH6 11Mbps	11.27	CH6 11Mbps	-77.53
	2467	CH11 11Mbps	10.44	CH11 11Mbps	-77.37
802.11a		TRP		TIS	
	5180	CH36 6Mbps	10.52	CH36 54Mbps	-71.24
	5300	CH60 6Mbps	10.53	CH60 54Mbps	-71.32
	5805	CH161 6Mbps	10.55	CH161 54Mbps	-71.25

Efficiency Table（2.4G）

Passive Test For WIFI2.4 Main ANT

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	36.37	-4.39	0.71	-1.44	22.678	13.696	0.71	-14.86	5.11	60	45.78	46.01
2410	34.64	-4.6	0.67	-1.48	21.562	13.078	0.67	-14.64	5.27	60	46.01	46.29
2420	37.71	-4.24	1.19	-0.96	23.504	14.204	1.19	-14.74	5.43	60	45.73	46
2430	40.99	-3.87	1.57	-0.58	25.541	15.448	1.57	-14.45	5.44	60	46.01	46.36
2440	43.62	-3.6	1.81	-0.34	27.318	16.299	1.81	-15.29	5.41	60	46.12	46.48
2450	43.31	-3.63	1.7	-0.45	27.352	15.956	1.7	-16.33	5.34	60	46.12	46.54
2460	42.66	-3.7	1.62	-0.53	27.168	15.495	1.62	-17.29	5.32	60	46.14	46.52
2470	45.25	-3.44	1.87	-0.28	29.024	16.23	1.87	-17.17	5.31	60	46.4	46.8
2480	47.11	-3.27	2.06	-0.09	30.4	16.705	2.06	-16.03	5.33	60	46.26	46.64
2490	46.63	-3.31	2.19	0.04	30.262	16.371	2.19	-14.92	5.51	60	46.51	46.91
2500	41.57	-3.81	1.87	-0.28	27.055	14.511	1.87	-14.48	5.68	60	46.47	46.86

Passive Test For WIFI2.4 AUX ANT

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	27.46	-5.61	-0.84	-2.99	14.583	12.878	-0.84	-22.09	4.78	30	45.78	46.01
2410	24.93	-6.03	-1.23	-3.38	13.397	11.53	-1.23	-21.89	4.8	30	46.01	46.29
2420	27.25	-5.65	-0.78	-2.93	14.751	12.499	-0.78	-20.34	4.87	60	45.73	46
2430	30.1	-5.21	-0.22	-2.37	16.388	13.714	-0.22	-18.95	5	60	46.01	46.36
2440	30.89	-5.1	-0.15	-2.3	16.928	13.96	-0.15	-17.91	4.96	60	46.12	46.48
2450	29.64	-5.28	-0.46	-2.61	16.235	13.409	-0.46	-17.69	4.82	60	46.12	46.54
2460	31.67	-4.99	-0.26	-2.41	17.334	14.34	-0.26	-17.84	4.73	60	46.14	46.52
2470	35.53	-4.49	0.13	-2.02	19.531	15.998	0.13	-18.5	4.62	30	46.4	46.8
2480	37.09	-4.31	0.23	-1.92	20.464	16.624	0.23	-19.6	4.53	60	46.26	46.64
2490	36.99	-4.32	0.18	-1.97	20.422	16.57	0.18	-20.87	4.5	90	46.51	46.91
2500	37.96	-4.21	0.12	-2.03	21.051	16.911	0.12	-21.58	4.33	90	46.47	46.86

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Efficiency Table（5G）

Passive Test For WIFI5G Main ANT												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	36.81	-4.34	4.05	1.9	17.866	18.94	4.05	-17.05	8.39	30	49.82	49.4
5170	34.63	-4.61	3.77	1.62	16.684	17.948	3.77	-14.43	8.38	0	50.13	49.77
5190	38.42	-4.15	4.09	1.94	18.44	19.983	4.09	-15.6	8.25	0	50.42	49.95
5210	37.77	-4.23	3.91	1.76	17.811	19.956	3.91	-15.3	8.14	0	50.88	50.49
5230	42.13	-3.75	4.36	2.21	19.72	22.412	4.36	-14.22	8.11	0	50.42	50.08
5250	43.02	-3.66	4.38	2.23	20.113	22.907	4.38	-13.37	8.04	30	51.02	50.72
5270	49.27	-3.07	4.89	2.74	23.217	26.057	4.89	-14.45	7.96	30	50.85	50.6
5290	47.4	-3.24	4.52	2.37	22.543	24.857	4.52	-15.06	7.76	60	51.34	51.12
5310	47.53	-3.23	4.44	2.29	22.877	24.652	4.44	-14.12	7.67	60	50.44	50.36
5330	49.6	-3.05	4.59	2.44	24.381	25.214	4.59	-14.18	7.63	60	51.08	51.01
5350	53.09	-2.75	4.67	2.52	26.842	26.246	4.67	-14.64	7.42	0	51.02	51.01
5370	51.19	-2.91	4.33	2.18	26.535	24.652	4.33	-15.76	7.24	0	50.91	50.95
5390	46.07	-3.37	3.77	1.62	24.322	21.751	3.77	-13.83	7.13	0	50.46	50.43
5410	54.19	-2.66	4.37	2.22	28.976	25.215	4.37	-12.57	7.03	0	51.18	51.09
5430	48.97	-3.1	3.72	1.57	26.615	22.355	3.72	-12.41	6.82	0	50.69	50.7
5450	51.56	-2.88	4.07	1.92	28.418	23.145	4.07	-12.83	6.94	0	50.71	50.85
5470	47.8	-3.21	3.81	1.66	26.457	21.339	3.81	-14.1	7.01	0	50.93	50.83
5490	47.81	-3.21	3.81	1.66	26.476	21.331	3.81	-14.95	7.02	0	50.92	50.79
5510	49.61	-3.04	3.83	1.68	27.703	21.91	3.83	-16.78	6.87	0	51.18	51.16
5530	50.08	-3	3.57	1.42	28.102	21.975	3.57	-15.37	6.57	0	51.44	51.3
5550	53.91	-2.68	3.61	1.46	30.239	23.672	3.61	-16.89	6.29	0	51.89	51.76
5570	50.39	-2.98	3.1	0.95	28.144	22.249	3.1	-22.92	6.08	0	51.42	51.33
5590	53.37	-2.73	3.28	1.13	29.797	23.577	3.28	-17.56	6	0	51.71	51.76
5610	51.03	-2.92	2.95	0.8	28.241	22.786	2.95	-14.58	5.87	0	51.17	51.22
5630	53.6	-2.71	3.09	0.94	29.439	24.157	3.09	-13.72	5.79	0	51.78	51.77
5650	50.56	-2.96	2.77	0.62	27.664	22.895	2.77	-14.58	5.73	0	51.47	51.55
5670	49.19	-3.08	2.62	0.47	27.027	22.162	2.62	-13.68	5.7	0	52.12	52.28
5690	51.8	-2.86	2.77	0.62	28.578	23.224	2.77	-12.62	5.63	0	52.12	52.25
5710	46.67	-3.31	2.37	0.22	25.571	21.102	2.37	-14.85	5.68	0	51.95	52.05
5730	53.36	-2.73	3.02	0.87	28.929	24.434	3.02	-16.67	5.75	0	51.59	51.69
5750	46	-3.37	2.56	0.41	24.75	21.251	2.56	-16.33	5.93	0	51.12	51.15
5770	50.87	-2.94	3.34	1.19	27.504	23.37	3.34	-15.55	6.27	0	51.02	51.06
5790	45.88	-3.38	3.14	0.99	24.512	21.373	3.14	-17.75	6.52	0	51.08	51.16
5810	50.14	-3	3.58	1.43	26.413	23.723	3.58	-19.31	6.58	0	51.36	51.43
5830	49.4	-3.06	3.43	1.28	25.895	23.5	3.43	-16.31	6.5	0	51.65	51.66
5850	54.38	-2.65	4.02	1.87	28.486	25.892	4.02	-17.07	6.67	0	51.88	52.05

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Efficiency Table（5G）

Passive Test For WIFI5G AUX ANT												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	31.64	-5	-0.72	-2.87	19.076	12.564	-0.72	-19.9	4.27	30	49.82	49.4
5170	29.8	-5.26	-0.97	-3.12	17.932	11.871	-0.97	-19.8	4.29	30	50.13	49.77
5190	33.78	-4.71	-0.41	-2.56	20.345	13.433	-0.41	-20.13	4.31	0	50.42	49.95
5210	32.97	-4.82	-0.37	-2.52	19.843	13.131	-0.37	-20.67	4.45	0	50.88	50.49
5230	35.34	-4.52	0	-2.15	21.369	13.975	0	-20.17	4.52	0	50.42	50.08
5250	35.96	-4.44	0.13	-2.02	21.641	14.319	0.13	-19.93	4.57	0	51.02	50.72
5270	41.89	-3.78	0.83	-1.32	24.857	17.029	0.83	-18.88	4.61	0	50.85	50.6
5290	41.78	-3.79	0.85	-1.3	24.525	17.256	0.85	-20.02	4.64	0	51.34	51.12
5310	40.64	-3.91	0.74	-1.41	23.673	16.967	0.74	-20.87	4.65	0	50.44	50.36
5330	42.1	-3.76	1.05	-1.1	24.259	17.845	1.05	-21.29	4.8	0	51.08	51.01
5350	45.73	-3.4	1.6	-0.55	26.054	19.678	1.6	-19.69	5	0	51.02	51.01
5370	45.55	-3.42	1.53	-0.62	25.508	20.038	1.53	-18.62	4.95	0	50.91	50.95
5390	41.02	-3.87	1.04	-1.11	22.643	18.377	1.04	-20.67	4.91	0	50.46	50.43
5410	47.7	-3.22	1.87	-0.28	25.952	21.743	1.87	-20.31	5.08	0	51.18	51.09
5430	44.14	-3.55	1.73	-0.42	23.855	20.282	1.73	-22.32	5.28	0	50.69	50.7
5450	47.33	-3.25	2.02	-0.13	25.325	22.007	2.02	-23.34	5.27	0	50.71	50.85
5470	45.6	-3.41	1.82	-0.33	24.395	21.203	1.82	-22.97	5.23	0	50.93	50.83
5490	44.93	-3.47	1.73	-0.42	24.096	20.835	1.73	-23.15	5.21	0	50.92	50.79
5510	47.28	-3.25	2.01	-0.14	25.339	21.946	2.01	-21.59	5.27	0	51.18	51.16
5530	47.81	-3.2	2.23	0.08	25.658	22.152	2.23	-21.88	5.43	0	51.44	51.3
5550	52.26	-2.82	2.68	0.53	28.114	24.148	2.68	-17.95	5.49	0	51.89	51.76
5570	46.8	-3.3	2.29	0.14	25.312	21.492	2.29	-15.4	5.58	0	51.42	51.33
5590	48.36	-3.16	2.51	0.36	26.279	22.078	2.51	-15.68	5.67	0	51.71	51.76
5610	45.01	-3.47	2.37	0.22	24.373	20.639	2.37	-15.96	5.84	0	51.17	51.22
5630	48.81	-3.11	2.89	0.74	26.384	22.43	2.89	-14.65	6	0	51.78	51.77
5650	44.63	-3.5	2.45	0.3	24.175	20.455	2.45	-13.52	5.95	0	51.47	51.55
5670	43.44	-3.62	2.32	0.17	23.787	19.653	2.32	-13.14	5.94	0	52.12	52.28
5690	43.97	-3.57	2.32	0.17	24.102	19.872	2.32	-13.16	5.89	0	52.12	52.25
5710	41.29	-3.84	2.13	-0.02	22.285	19.002	2.13	-14.24	5.97	0	51.95	52.05
5730	46.63	-3.31	2.52	0.37	24.946	21.689	2.52	-14.11	5.83	0	51.59	51.69
5750	39.63	-4.02	1.72	-0.43	21.299	18.328	1.72	-14.48	5.74	0	51.12	51.15
5770	43.36	-3.63	1.93	-0.22	23.421	19.942	1.93	-13.03	5.56	0	51.02	51.06
5790	39.7	-4.01	1.49	-0.66	21.4	18.304	1.49	-13.74	5.5	0	51.08	51.16
5810	43.65	-3.6	2.03	-0.12	23.234	20.414	2.03	-15.17	5.63	0	51.36	51.43
5830	43.16	-3.65	2.03	-0.12	23.228	19.93	2.03	-16.97	5.68	0	51.65	51.66
5850	46.7	-3.31	2.42	0.27	25.58	21.117	2.42	-15.83	5.73	0	51.88	52.05

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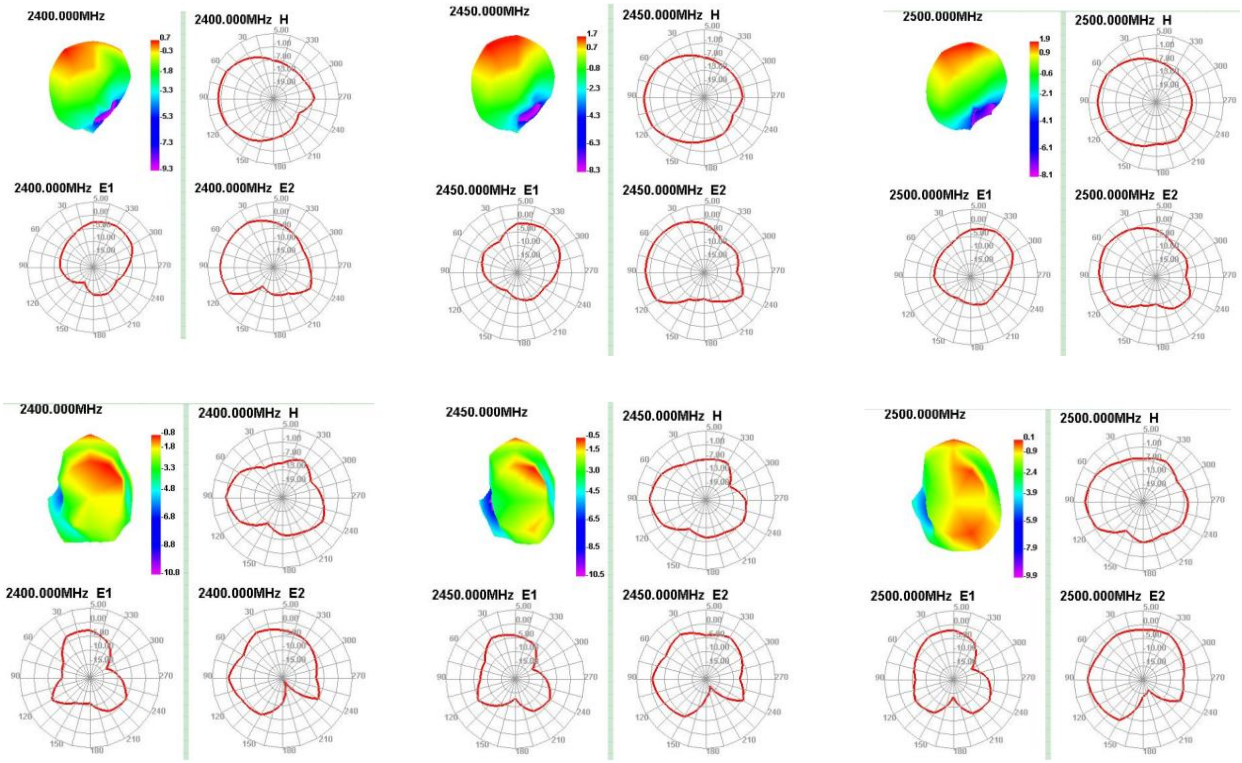
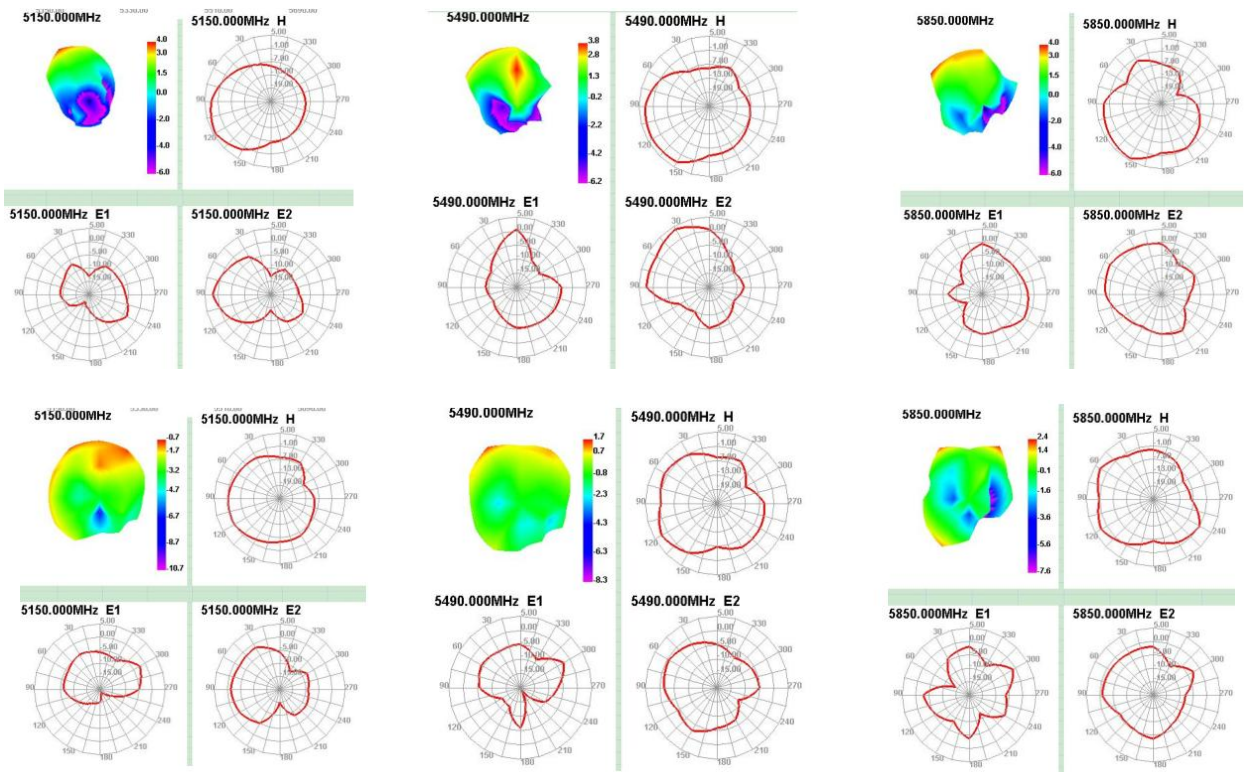
Radiation Pattern（2.4G）



Radiation Pattern（5G）



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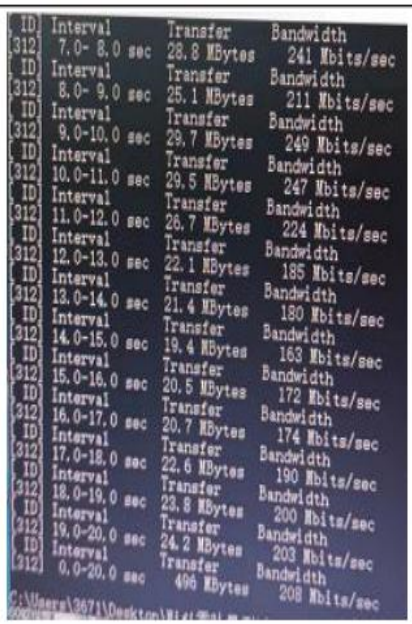
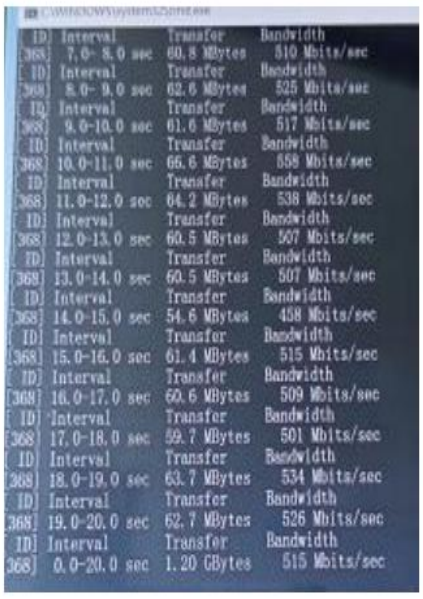
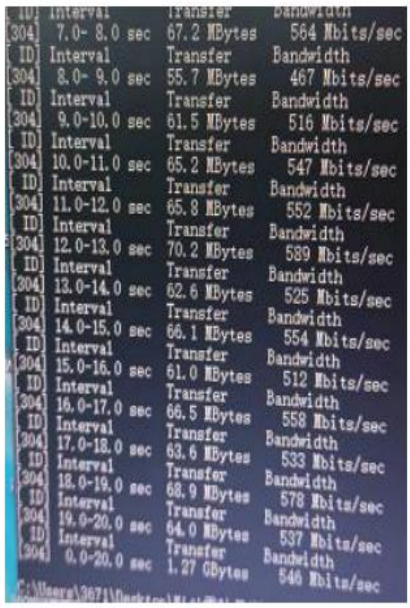
Throughput Test(2.4G)

Upside		Downside	
Picture		Picture	

Throughput Test(5G)

Upside		Downside	
Picture		Picture	

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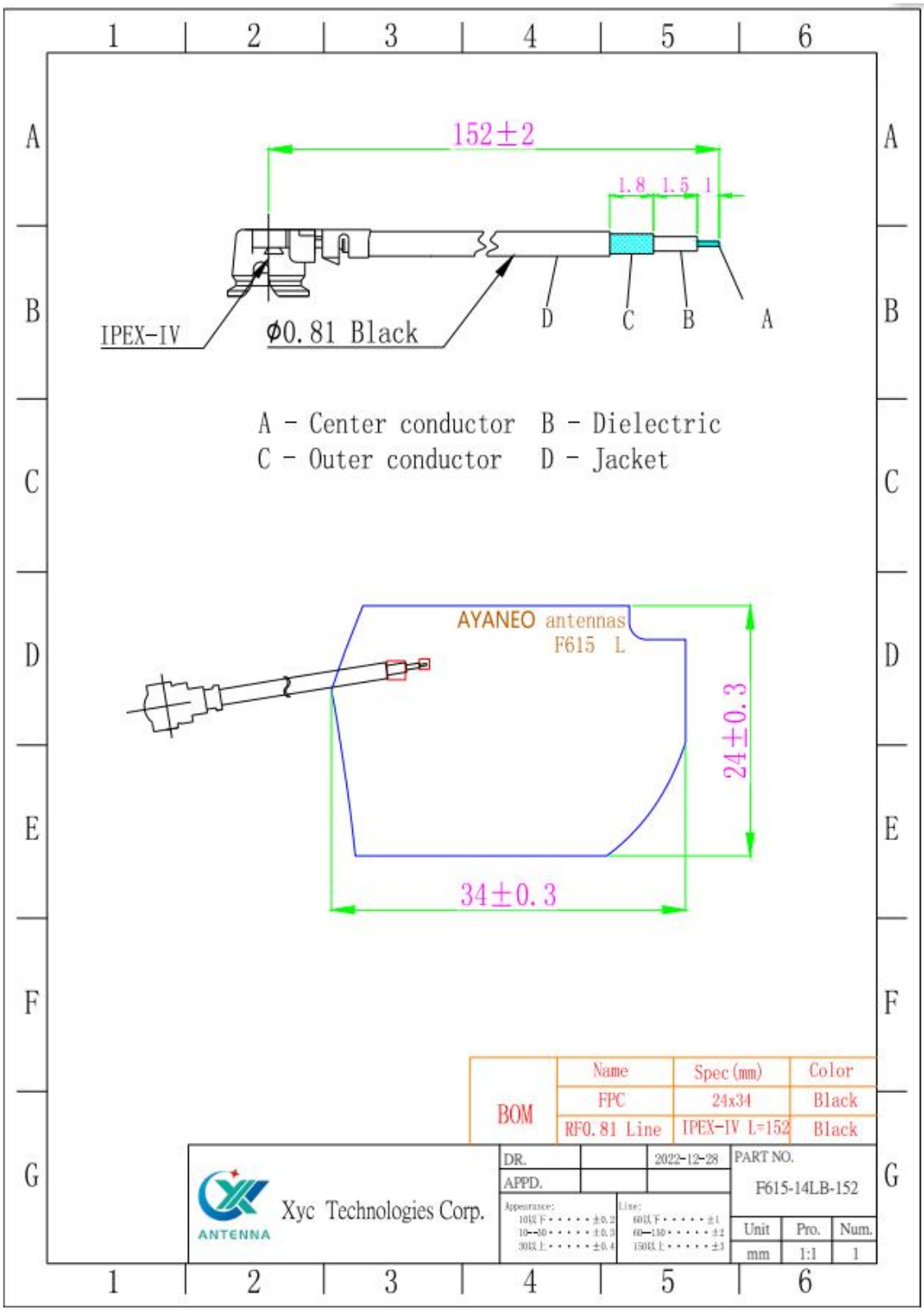
Antenna Assembly



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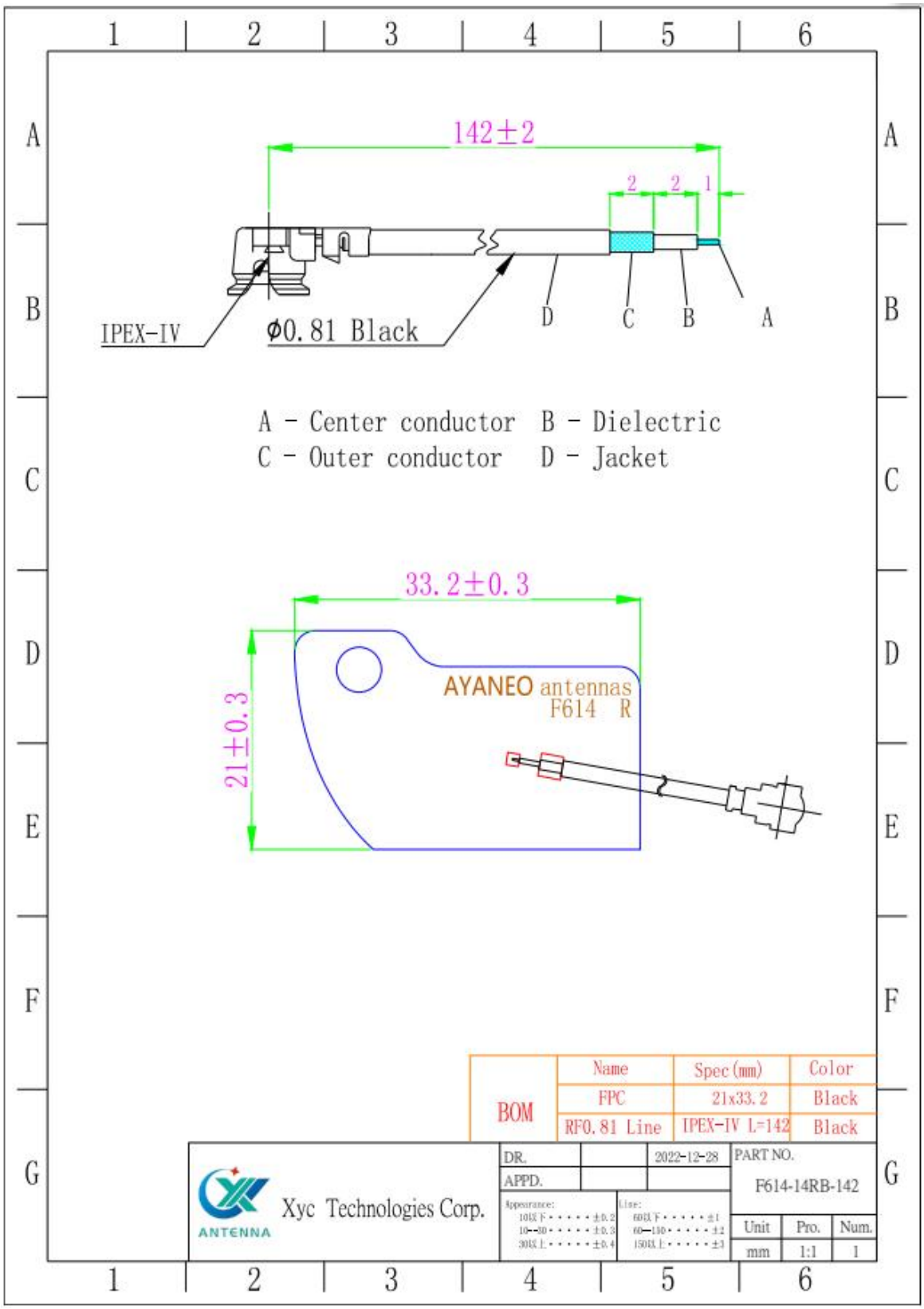

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Inspection Standard

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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Sample Inspection Report

Customer	Gong Ke	Product	WiFi Antennas	Quantity shipped	5	Sampling quantity	2
Models	AB03		P/N	F615-14LB-152		Shipping date	2022/12/28
Sampling standard	☑Normal inspection		☐Tightened inspection		☐Decrement inspection		
Sampling mode	MIL-STD-105D（II）Single sampling		Acceptance limit AQL:CR: 0		Maj: 2.5	Min: 4.0	

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	152±3	ruler	152	152			OK
	FPC shape	24±0.3	calliper	23.9	24			OK
	FPC shape	34±0.3	calliper	33.9	33.9			OK

project	program of tests	examination requirement	test method	Defect description	CR	Maj	Min	判定
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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Customer	Gong Ke	Product	WiFi Antennas	Quantity shipped	5	Sampling quantity	2
Models	AB03		P/N	F614-14RB-142		Shipping date	2022/12/28
Sampling standard	☑Normal inspection		☐Tightened inspection		☐Decrement inspection		
Sampling mode	MIL-STD-105D（Ⅱ）Single sampling		Acceptance limit AQL:CR：0		Maj：2.5	Min：4.0	

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	142±3	ruler	142	142			OK
	FPC shape	21±0.3	calliper	21	21			OK
	FPC shape	33.2±0.3	calliper	33.1	33.1			OK

project	program of tests	examination requirement	test method	Defect description	CR	Maj	Min	判定
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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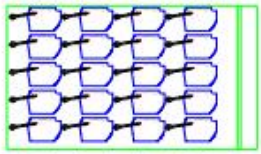
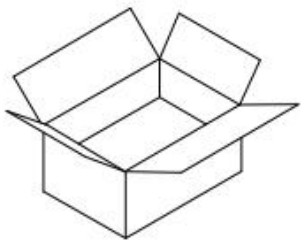
Packing Specification

1、 finished antenna

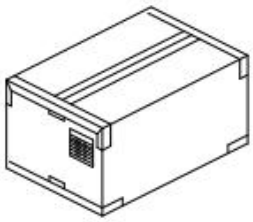
2、Bagging, minimum packing, 100 PCS per pack



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	Gong Ke		PART NO.	
	Pro. Name	AB03		Product packaging specification	
	Mate. Name	WiFi Antennas			
	DR.		2022-12-28	Unit: mm	Pro. / Num.: 1
	APPD.				

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