

Sample acceptance certificate

Document version number: A2

	client	Contract manufacturing	Material supplier
Name of partner:	Anker	Lixun	Youbi
project name :	T8708	T8708	T8708
Material number:	32002000210	3201-0000C-0001R	UB02C35W2D5577A
Material description:	2.4/5.8G External lead-out antenna L=35mm + first-generation terminal		
Date of acknowledgement:	2025-05-26	Version of the letter acknowledged:	V2

Supplier confirmation

research and development	character

Anker approval

Smart research and development ZhiXin MD /HW /ID/ certification	Zhi Xin SQE

Signature explanation: 1. This letter of recognition shall be in at least 5 copies, one copy for anchor R&D and SQE respectively, one copy for material manufacturer and OEM

Keep two copies in the factory;

2. Anker Each owner signature shall be signed with the full English name of the company.
3. First, send the electronic file to Anker's corresponding R&D and SQE for confirmation. After OK, send the paper file for signature and approval.

Declaration

APPROVAL SHEET

CUSTOMER NAME: Anker

Product name 2.4/5.8G External wire type antenna L=35mm + first generation terminal

CUSTOMER P/N: 32002000210

Youbi P/N: UB02C35W2D5577A REV: B

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Lina	
APPROVED BY:	 Yuefei.zhu	
DATE:	2025/05/26	

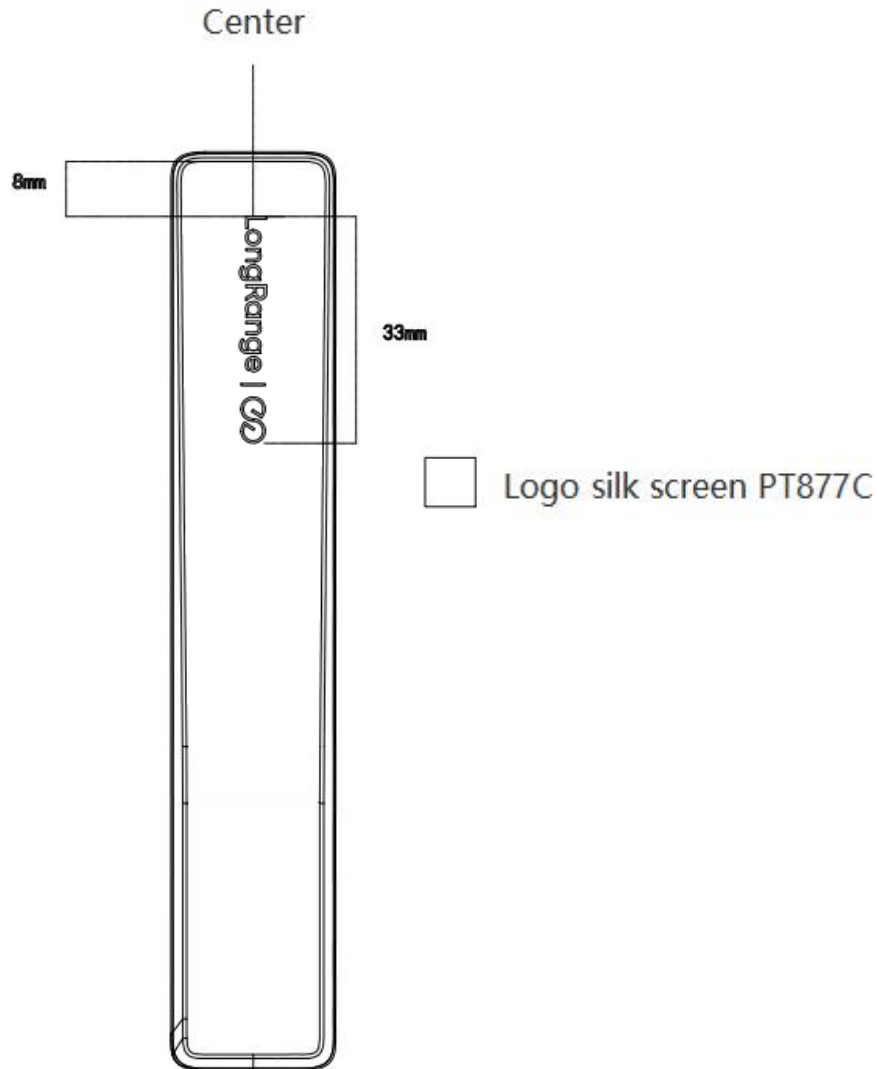
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1. Revision history

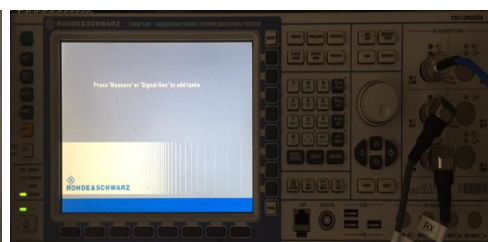
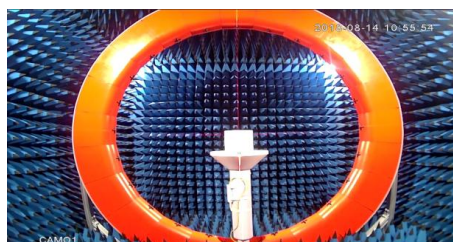
Version	Content Revision	Issued by	Date
A	Original version	lina	2025-04-22
B	Update the drawings	lina	2025-05-26

2. Product 2D drawings



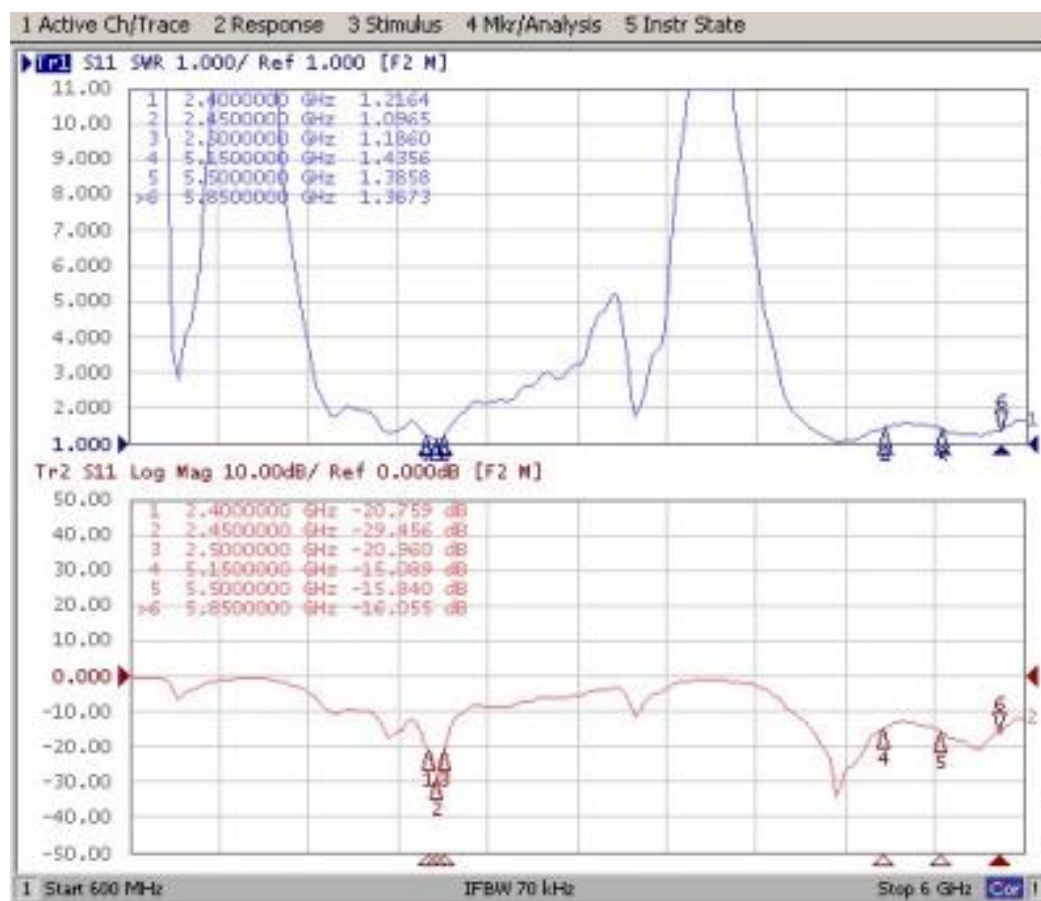
3. Test equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



4. Antenna S11

Frequency(MHz)	VSWR	Return Loss(dB)
2400	1.21	-20.75
2450	1.09	-29.45
2500	1.18	-20.95
5150	1.43	-15.08
5500	1.38	-15.84
5850	1.36	-16.05



* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

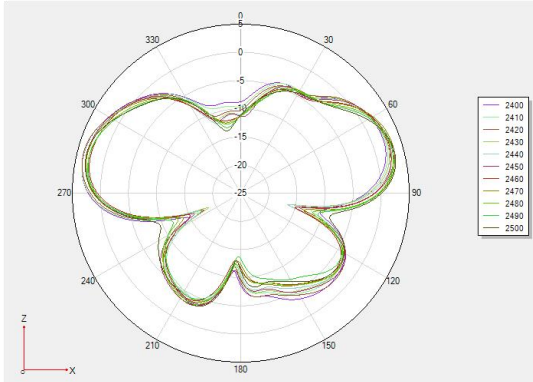
$$RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$$

5. Antenna efficiency and gain

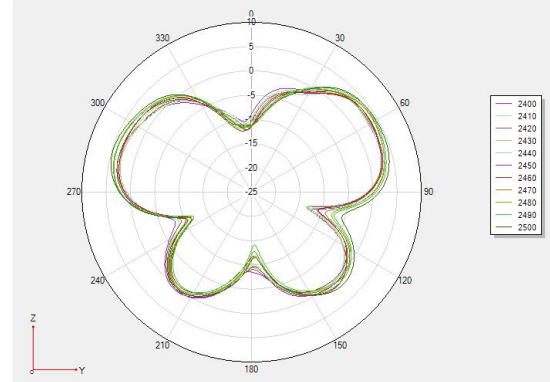
Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi
2400	-0.87	81.85	4.23
2410	-0.98	79.8	4.24
2420	-0.77	83.75	4.25
2430	-0.95	80.35	3.58
2440	-0.84	82.41	3.52
2450	-0.99	79.62	3.89
2460	-1.26	74.82	3.6
2470	-1.08	77.98	4.64
2480	-1.14	76.91	4.54
2490	-1.08	77.98	4.57
2500	-1.13	77.09	5.12
5150	-0.92	81.07	4.8
5200	-1	79.99	4.57
5250	-0.94	81.03	4.67
5300	-1.03	79.47	4.66
5350	-0.96	80.68	4.95
5400	-1.16	77.28	5.03
5450	-1.14	77.61	5.32
5500	-1.17	77.11	5.91
5550	-1.28	75.31	6.14
5600	-1.38	73.71	5.93
5650	-1.48	72.14	5.39
5700	-1.44	72.76	5.63
5750	-1.44	72.76	5.58
5800	-1.23	76.12	6.16
5850	-1.22	76.29	6.05

6. Antenna 2D/3D radiation pattern

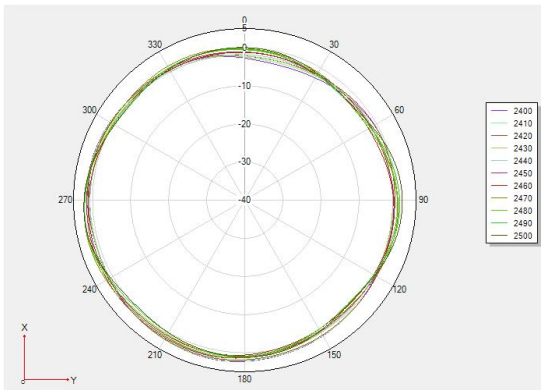
2.4G-Antenna 2D/3D Radiation Pattern



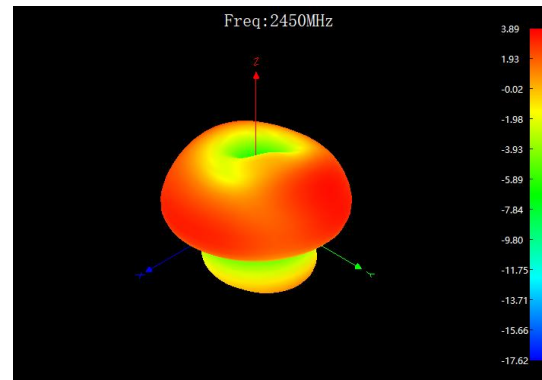
XZ



YZ

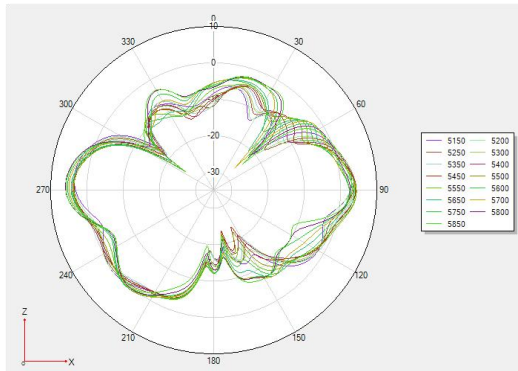


XY

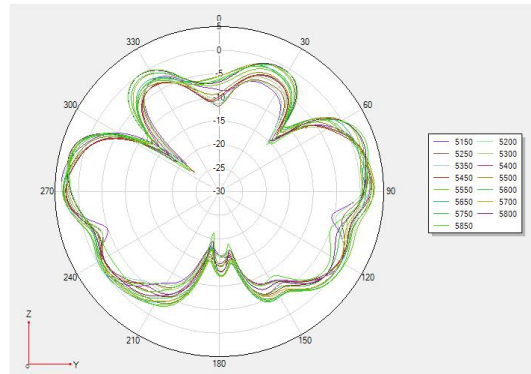


XY

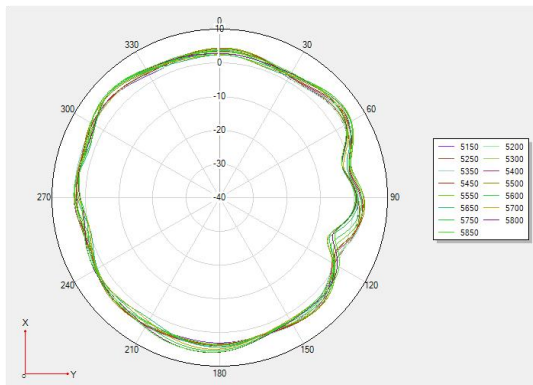
5.8G-Antenna 2D/3D Radiation Pattern



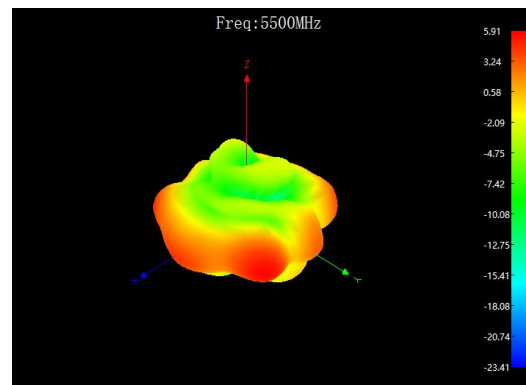
XZ



YZ



XY

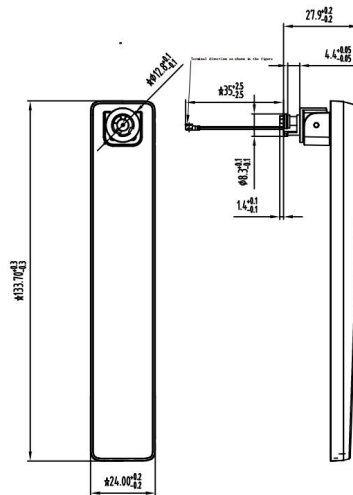


XY

7. Full size test report

Full dimensional inspection report

customer name	Anker	drawing number	V02
project name	External antenna	data unit	mm
Part code/material number	UB02C35W2D5577A	examination date	2025.5.23



order number	dimensional requirement	survey tools	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	judge	Customer comments, review comments
1	35±2.5	steel rule	33.99	34.95	34.95	34.95	34.58	OK	
2	133.7±0.3	callipers	133.73	133.74	133.73	133.75	133.72	OK	
3	24±0.2	callipers	24.03	24.02	24.03	24.05	24.04	OK	
4	27.9±0.2	callipers	27.95	27.94	27.93	27.94	27.93	OK	
5	12.8±0.1	callipers	12.84	12.83	12.82	12.83	12.82	OK	
6	8.3±0.1	callipers	8.33	8.32	8.32	8.33	8.34	OK	
7	4.4±0.05	callipers	4.42	4.41	4.43	4.42	4.41	OK	
8	1.4±0.1	callipers	1.44	1.43	1.42	1.43	1.44	OK	

Approved: Huangtu Fang;

Reviewed: /;

Inspector: Lu Yingxin.

8.CPK Test Report

CPK report															
Process Capability Index Report															
customer name	Anker				project stage	MP				report number	20250052301		Auditors	Zhu Zhi Jun	
project name	T8708				drawing number	A1				Testing person	Luk King-sin		date	2025-5-23	
Component name/section	UB02C35W2D5577A				data unit	mm				Test date	2025-5-23		page number	1	
Size number	1	2	3	4	5	6	7	8							
Size standards	133.7	24	12.8	35	27.9	8.3	4.4	1.4							
upper deviation	0.3	0.2	0.1	2.5	0.2	0.1	0.05	0.1							
lower deviation	-0.3	-0.2	-0.1	-2.5	-0.2	-0.1	-0.05	-0.1							
USL	134	24.2	12.9	37	28.1	8.4	4.45	1.5							
LSL	133.4	23.8	12.7	33	27.7	8.2	4.35	1.3							
survey tools	OMM	OMM	OMM	OMM	OMM	OMM	OMM	OMM							
1	133.75	24.03	12.83	33.99	27.96	8.33	4.41	1.43							
2	133.74	24.03	12.82	34.95	27.95	8.32	4.42	1.42							
3	133.73	24.04	12.82	34.95	27.94	8.33	4.42	1.43							
4	133.75	24.05	12.81	34.95	27.94	8.32	4.41	1.44							
5	133.74	24.02	12.83	34.93	27.86	8.32	4.42	1.43							
6	133.67	24.02	12.82	34.58	27.95	8.33	4.42	1.43							
7	133.75	24.03	12.84	34.95	27.95	8.34	4.41	1.42							
8	133.74	24.03	12.83	34.95	27.94	8.33	4.41	1.44							
9	133.72	24.05	12.84	33.98	27.95	8.33	4.42	1.43							
10	133.68	23.96	12.84	34.59	27.96	8.32	4.41	1.42							
MAX.	133.750	24.050	12.840	34.950	27.960	8.340	4.400	1.440							
MIN.	133.670	23.960	12.810	33.980	27.860	8.320	4.410	1.420							
AVG	133.727	24.026	12.828	34.682	27.940	8.327	4.415	1.429							
STDEV	0.029	0.025	0.010	0.396	0.029	0.007	0.005	0.007							
Range	0.080	0.090	0.030	0.970	0.100	0.020	-0.010	0.020							
Ca	9.00%	13.00%	28.00%	15.90%	20.00%	27.00%	30.00%	29.00%							
Cp	3.44	2.62	3.23	1.68	2.29	4.94	3.16	4.52							
Cpk	3.13	2.28	2.32	1.42	1.84	3.61	2.21	3.21							
Result (Grade)	A+	A+	A+	A	A+	A+	A+	A+							
product percent of pass	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
A+	Cpk>1.67														
A	1.33< Cpk ≤														
B	1.0 < Cpk ≤														
C	0.67< Cpk ≤1														
D	Cpk ≤ 0.67														