

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:	32002000211	3201-0000C-0002R	UB02C35W2D5578A
Material description:	2.4/5.8G+Sub-1G External out-line antenna L=35/35mm + first-generation terminal		
Date of acknowledgement:	2025-05-26	Version of the letter:	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, anker one copy for R&D and SQE, one copy for material manufacturer, and one copy for OEMKeep two copies;

2. Anker Each owner's 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+Sub-1G External outlet antenna L=35/35mm + first generation terminal		
CUSTOMER P/N:	32002000211		
Youbi P/N:	UB02C35W2D5578A	REV:	B

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

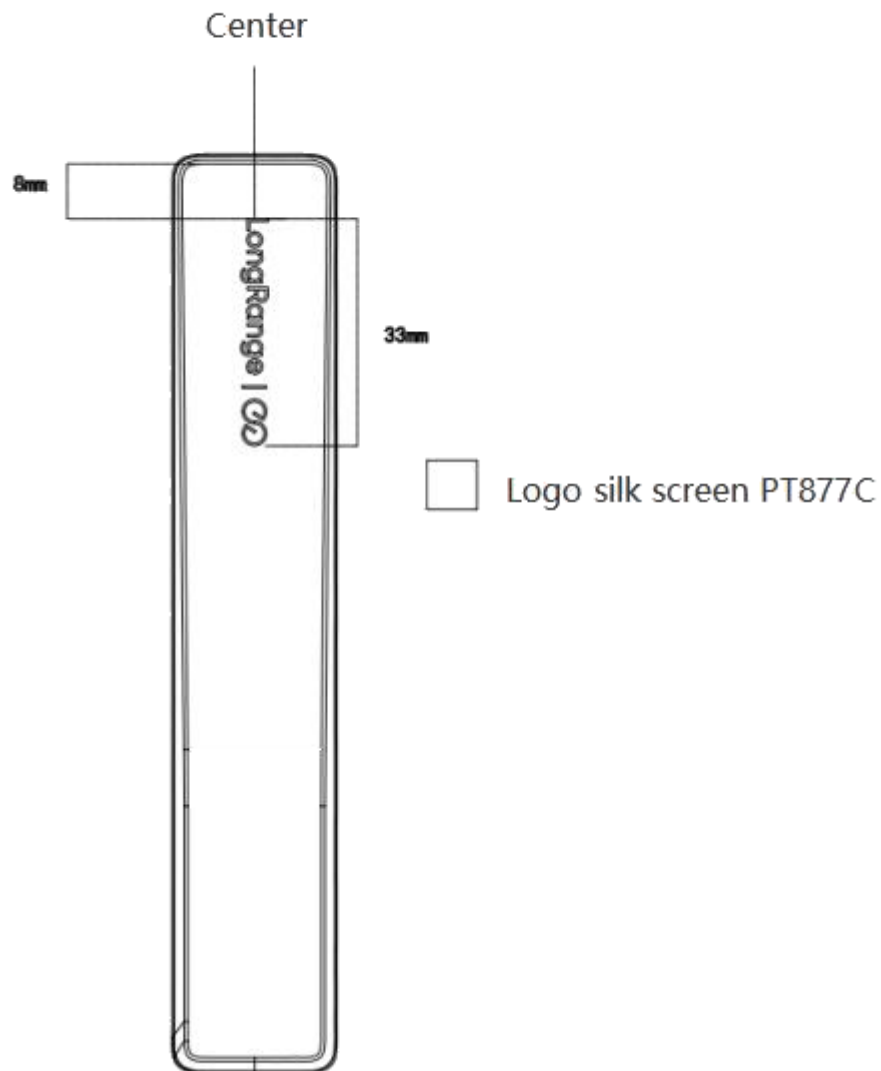
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1. Revision History

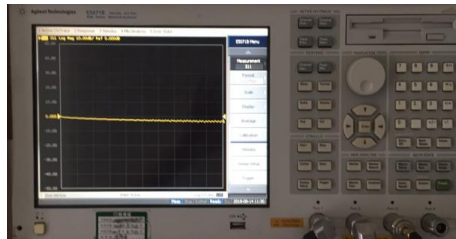
Version	Content Revision	Issued by	Date
A	Original version	lina	2025-04-22
B	Update the drawings	lina	2025-05-26

2. Product 2D drawings



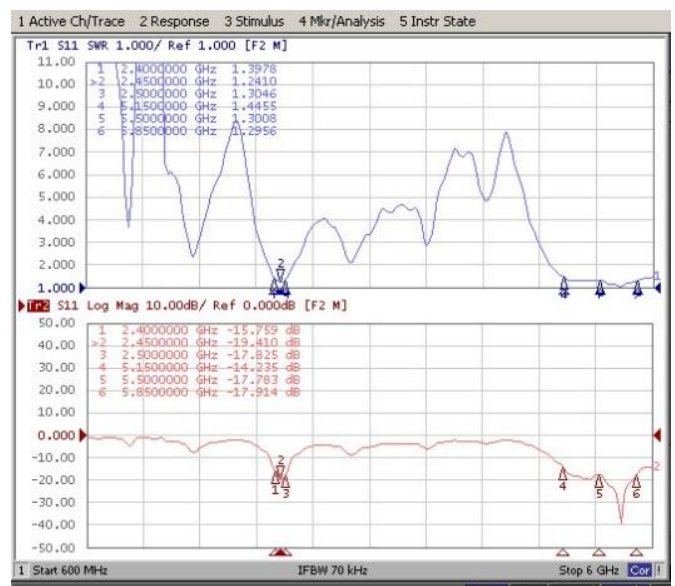
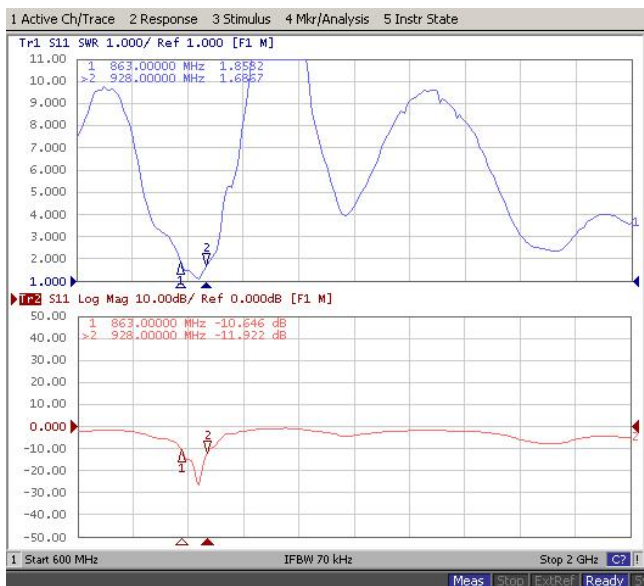
3.Test equipment

	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)
863	1.85	-10.64
928	1.68	-11.92
2400	1.39	-15.75
2450	1.24	-19.41
2500	1.30	-17.82
5150	1.44	-14.23
5500	1.30	-17.78
5850	1.29	-17.91



* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

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

5、Antenna efficiency and gain

2.4/5.8G

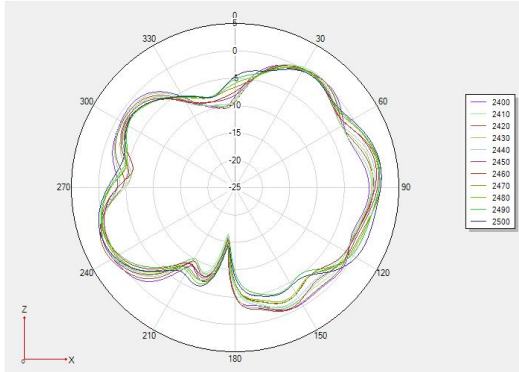
Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi
2400	-1.07	78.16	4.46
2410	-1.17	76.38	4.35
2420	-0.76	83.95	4.62
2430	-0.89	81.47	4.61
2440	-0.72	84.72	4.8
2450	-0.79	83.37	4.83
2460	-1.16	76.56	4.61
2470	-0.96	80.17	4.41
2480	-0.95	80.35	4.14
2490	-0.96	80.17	3.83
2500	-0.94	80.54	3.81
5150	-1.25	75.61	3.08
5200	-1.47	72.08	3.21
5250	-1.38	73.5	3.51
5300	-1.24	75.78	3.93
5350	-1.12	77.79	4.4
5400	-1.16	77.11	4.52
5450	-1.12	77.79	4.59
5500	-1.16	77.11	4.6
5550	-1.11	77.96	4.65
5600	-1.06	78.82	4.62
5650	-1.18	76.78	4.17
5700	-1.15	77.28	4.72
5750	-1.16	77.11	4.99
5800	-1.04	79.16	5.45
5850	-1.12	77.79	5.21

Sub-1G

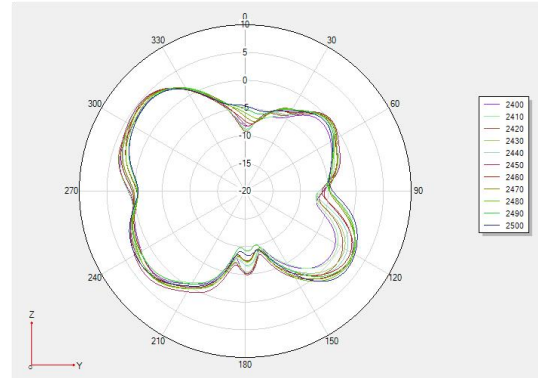
Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi
863.0	-3.61	43.59	1.52
864.0	-3.57	43.98	1.58
865.0	-3.54	44.25	1.63
866.0	-3.50	44.69	1.66
867.0	-3.46	45.03	1.69
868.0	-3.44	45.29	1.71
869.0	-3.42	45.51	1.73
870.0	-3.40	45.72	1.75
900.0	-3.08	49.21	1.43
902.0	-3.04	49.61	1.43
904.0	-3.02	49.90	1.53
906.0	-2.98	50.37	1.68
908.0	-2.93	50.88	1.82
910.0	-3.30	46.33	1.93
912.0	-3.27	46.60	2.06
914.0	-3.23	47.12	2.18
916.0	-3.18	47.78	2.30
918.0	-3.12	48.42	2.38
920.0	-3.09	48.85	2.39
922.0	-3.01	49.77	2.40
924.0	-2.94	50.72	2.39
926.0	-2.91	51.17	2.34
928.0	-2.93	50.87	2.24

6. Antenna 2D/3D radiation pattern

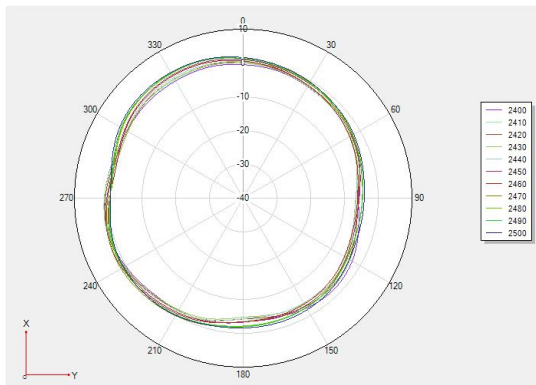
2.4G-Antenna 2D/3D Radiation Pattern



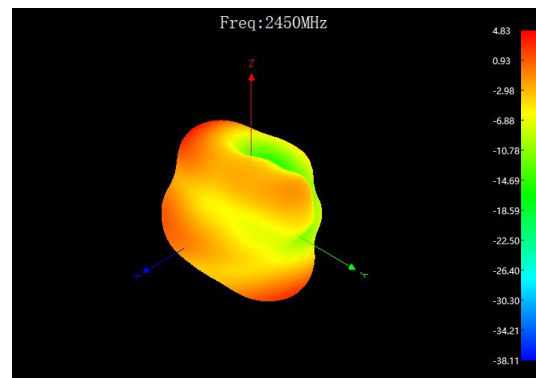
XZ



YZ

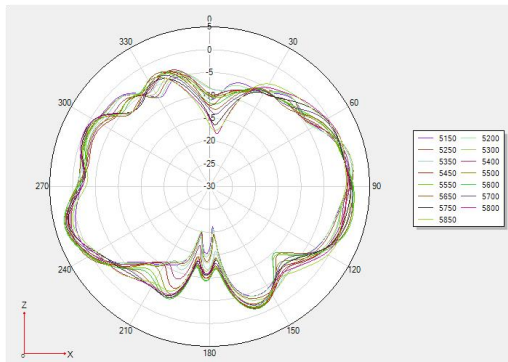


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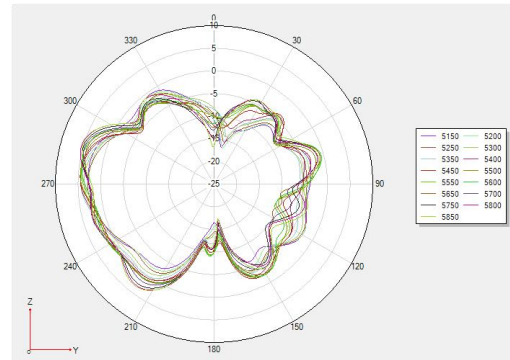


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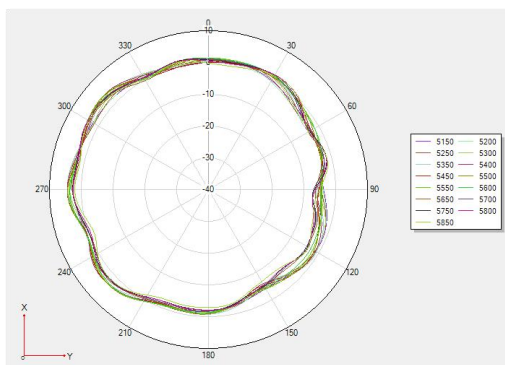
5.8G-Antenna 2D/3D Radiation Pattern



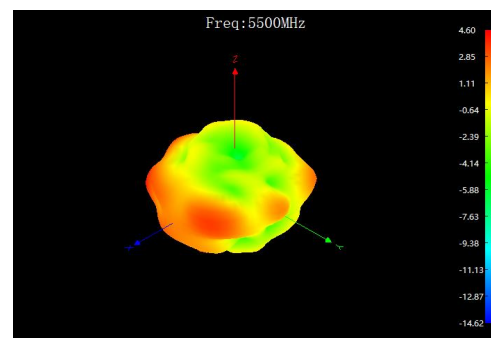
XZ



YZ

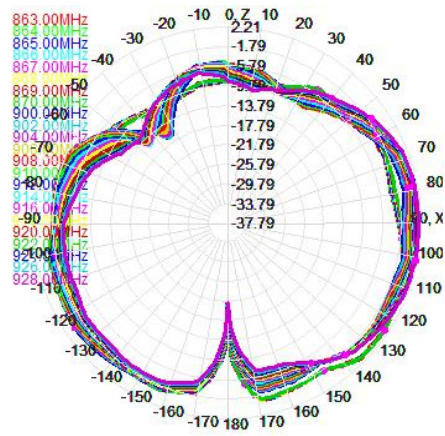


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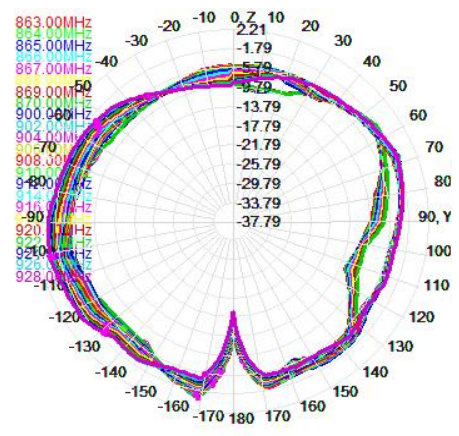


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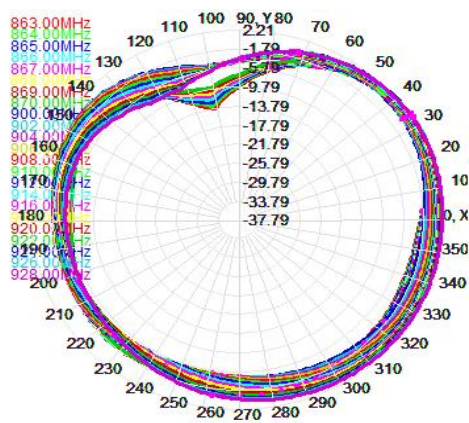
Sub-1G-Antenna 2D/3D Radiation Pattern



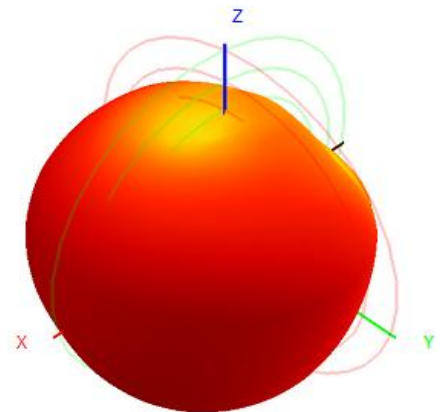
XZ



YZ

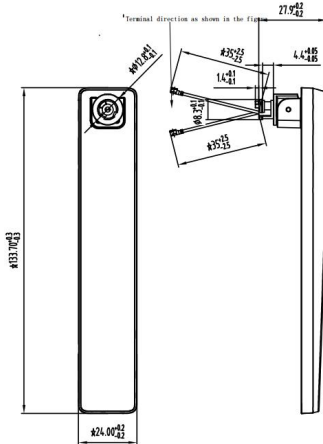


XY



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	UB02C35W2D5578A			examination date	2025.5.23				
									
order number	dimensional requirement	survey tools	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	judge	Customercomments, review comments
1	35±2.5	steel rule	35.06	36	34.95	35.05	35.13	OK	
2	35±2.5	steel rule	34.56	34.98	35.86	33.16	35.35	OK	
3	133.7±0.3	callipers	133.75	133.73	133.72	133.74	133.73	OK	
4	24±0.2	callipers	24.05	24.03	24.04	24.03	24.04	OK	
5	27.9±0.2	callipers	27.94	27.93	27.92	27.95	27.93	OK	
6	12.8±0.1	callipers	12.83	12.85	12.84	12.83	12.84	OK	
7	8.3±0.1	callipers	8.33	8.34	8.32	8.33	8.32	OK	
8	1.4±0.1	callipers	1.42	1.43	1.44	1.43	1.42	OK	
9	4.4±0.05	callipers	4.42	4.41	4.42	4.43	4.41	OK	
Approved by: Huang Tuofang. Approved by: / Inspector: Lu Yongxin									