

ZWAVE 860-930MHz External Antenna

FEATURES & BENEFITS



- Lightweight, low profile and rugged design
- Easy installation with built-in bolt interface, can be directly screwed onto devices without additional screws.

ORDER INFORMATION

Product Name	860-930MHz External Antenna
Part Number	M02-0400700R0A
Antenna Manufacturer	Aboosty
Dimensions	Ø34x 302.8 mm
Weight	141.8 g
Color	White
Mounting	Internal Thread Mounting

REFERENCE GUIDE

Technical Features (MHz)	868-930
Max VSWR	2.0:1
Max Efficiency	81.0%
Peak Gain	3.38dBi
Radiation Pattern	Omnidirectional
Polarization	Linear
Types of Antennas	External Antenna
Structure	Radiator + Protective Shell + Connector
Input Impedance	50 Ω
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	10 to 70%
Material Substance Compliance	RoHS Compliant
Dimensions (L x W x H)	Ø34x 302.8 mm
All data were tested on a base mounted on a 118×118mm PCB.	

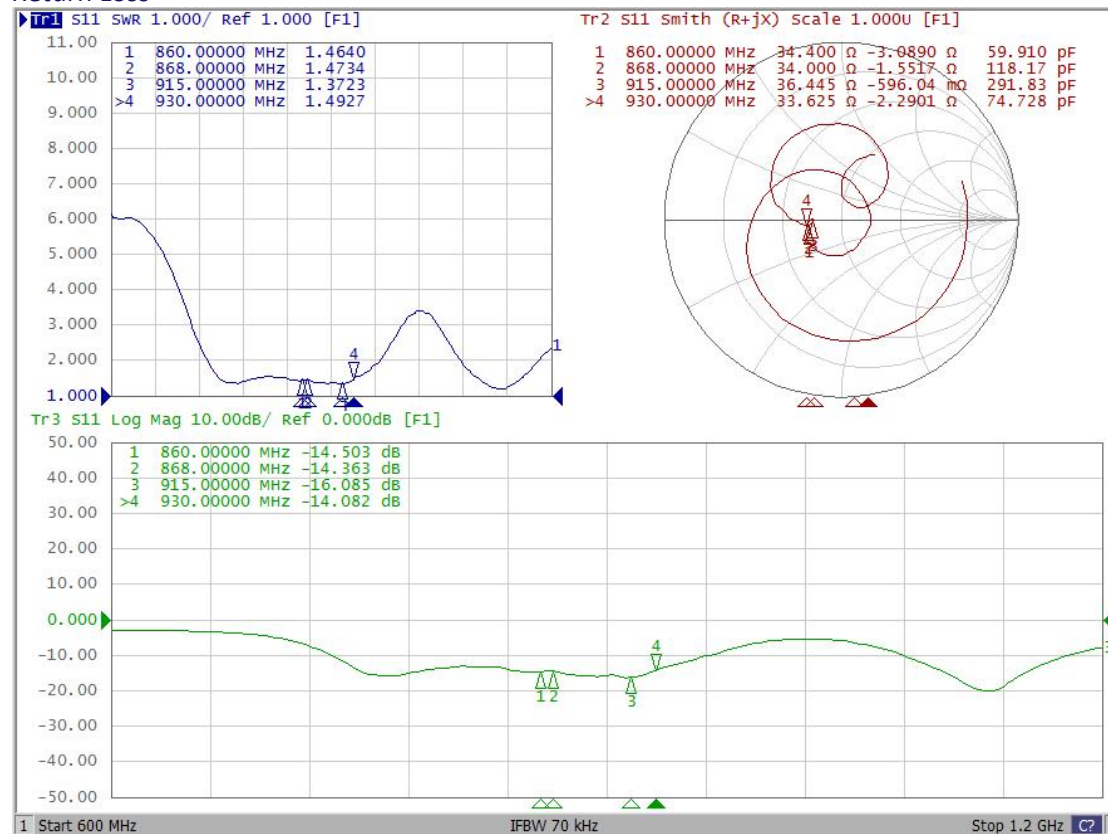
MyAntenna RF Technology Co., Ltd

ADD: No. RM 410, Country Garden Phoenix Wisdom Valley, No. 50 Tiezai Road, Baoan District, Shenzhen, P.R.China.

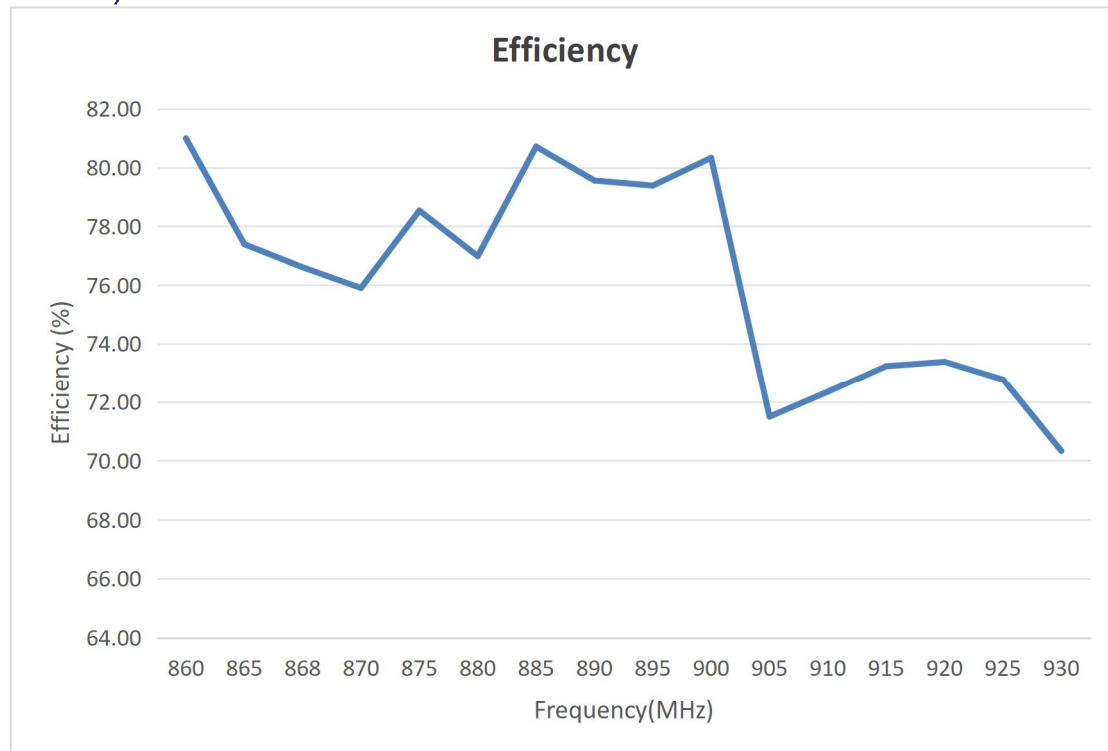
TEL: +86-0755-86503881 FAX: +86-0755-27801677 E-mail: nfc@myantenna.com

ELECTRICAL DATA (Tested on a base mounted on a 118×118mm PCB)

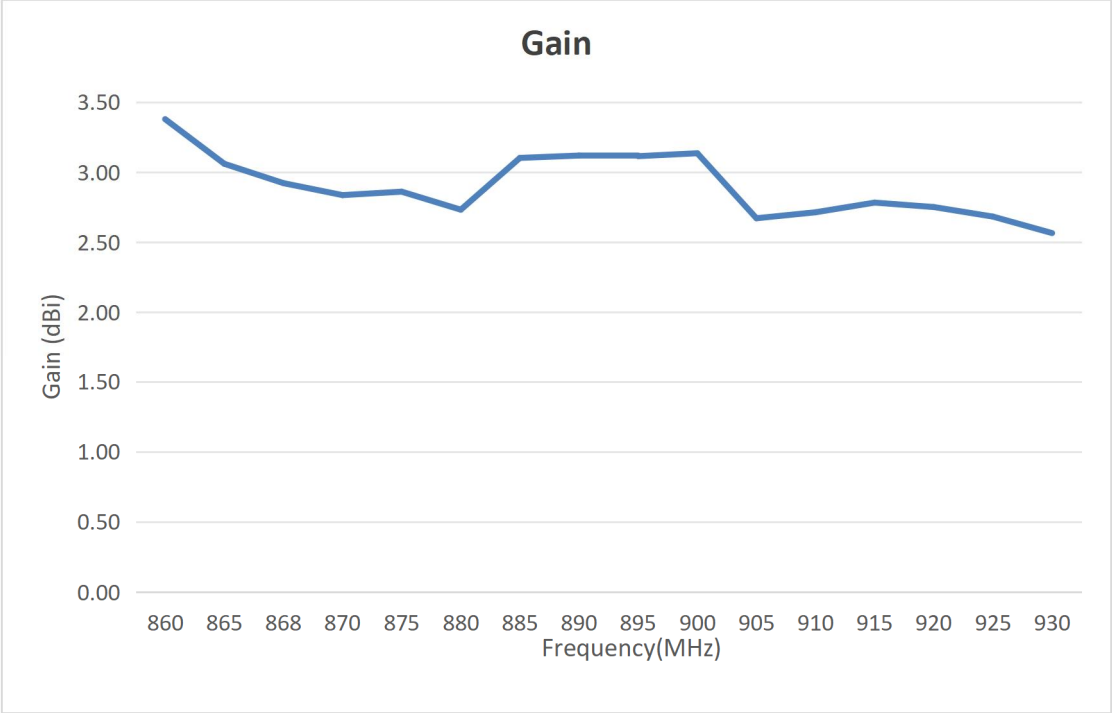
Return Loss



Efficiency (%)

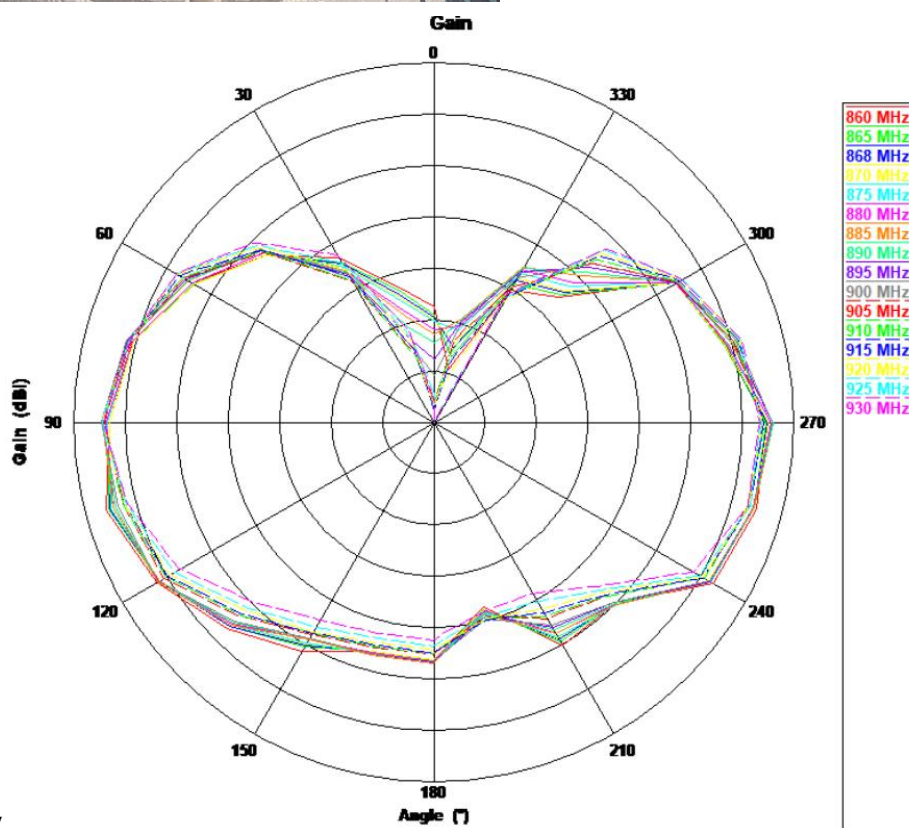
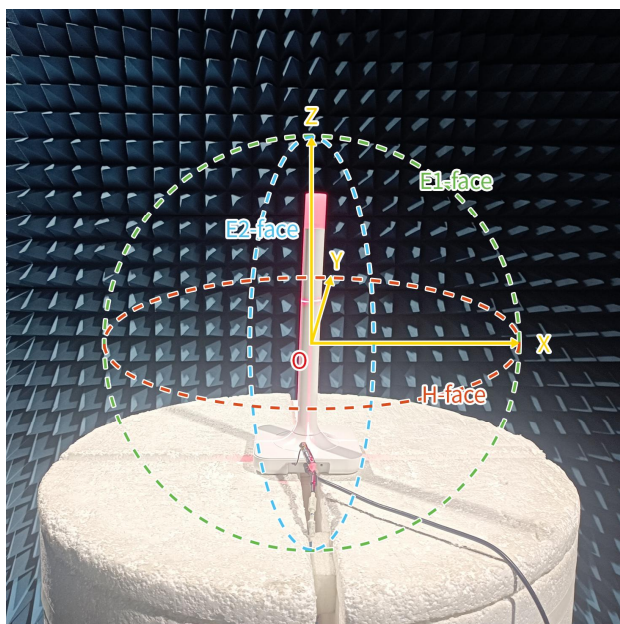


Peak Gain (dBi)

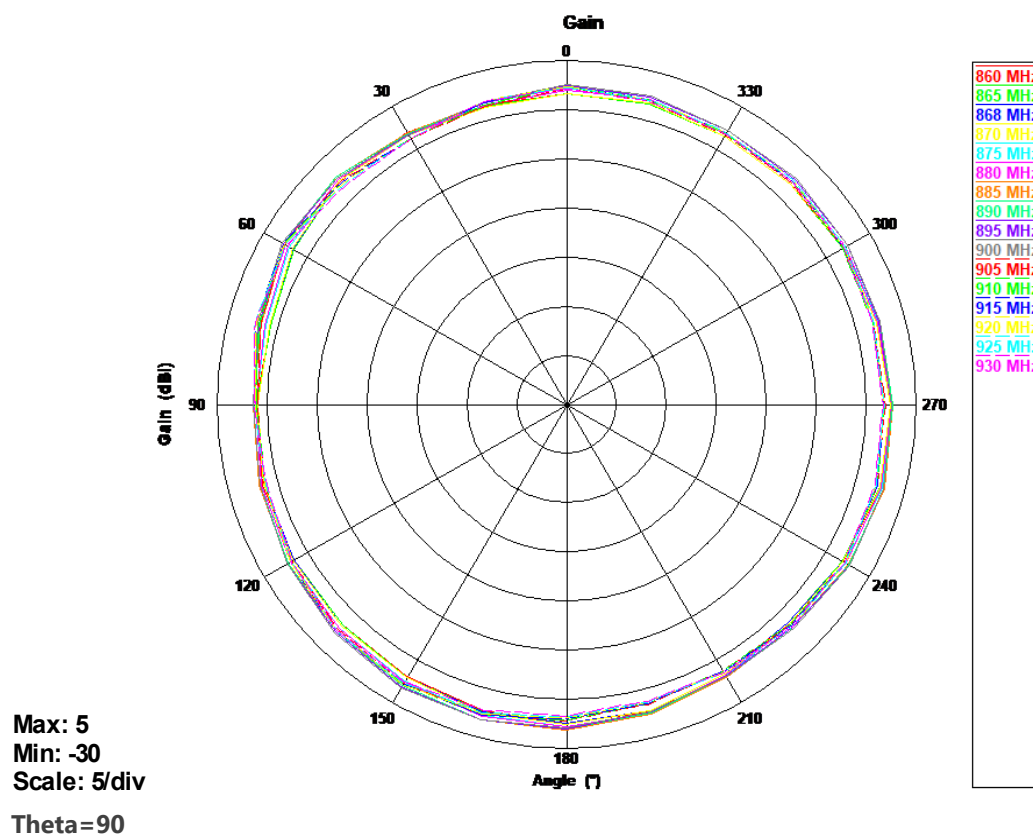
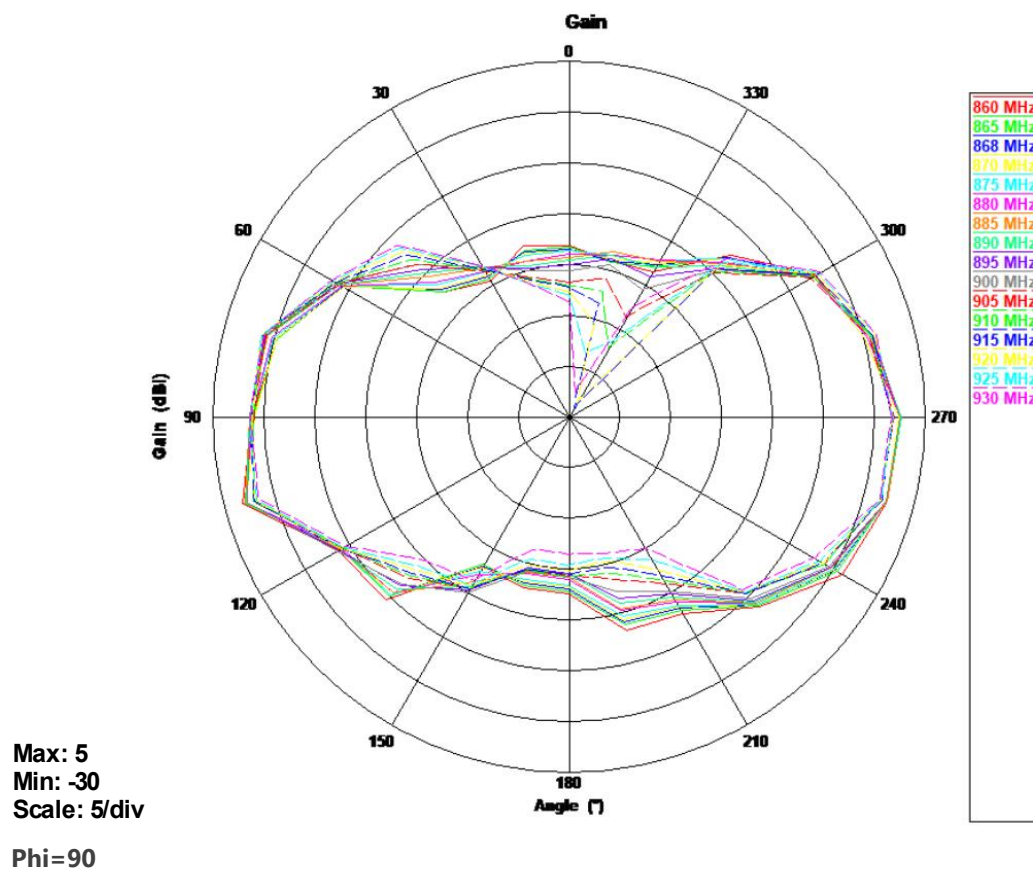


Frequency(MHz)	Efficiency (%)	Gain (dBi)
860	81.00	3.38
865	77.39	3.06
868	76.61	2.92
870	75.90	2.84
875	78.54	2.86
880	76.99	2.73
885	80.72	3.10
890	79.56	3.12
895	79.39	3.11
900	80.33	3.14
905	71.50	2.67
910	72.35	2.71
915	73.23	2.78
920	73.38	2.75
925	72.77	2.68
930	70.33	2.57

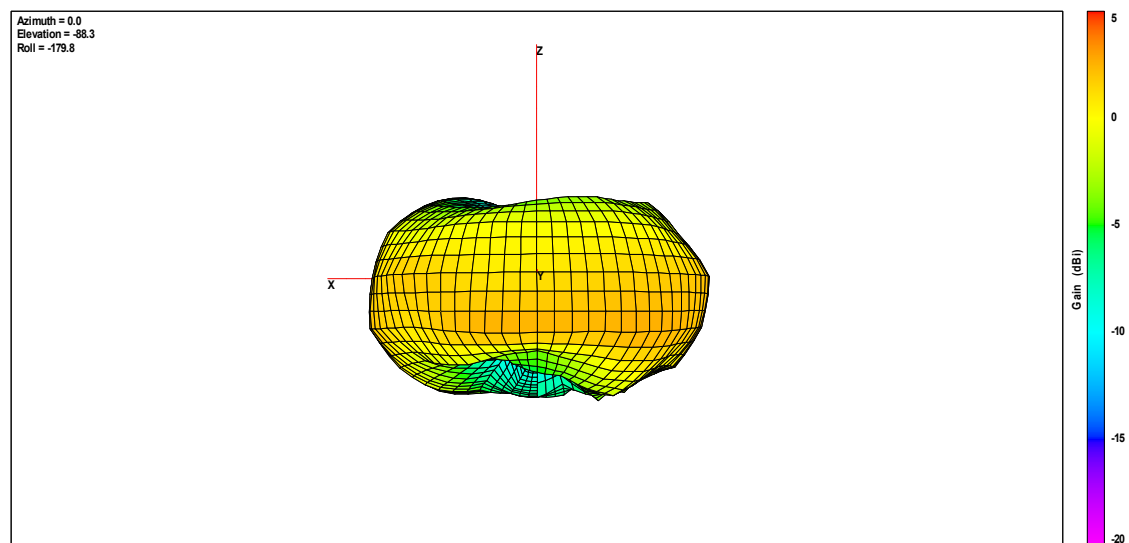
RADIATION PATTERNS(Tested on a base mounted on a 118×118mm PCB)



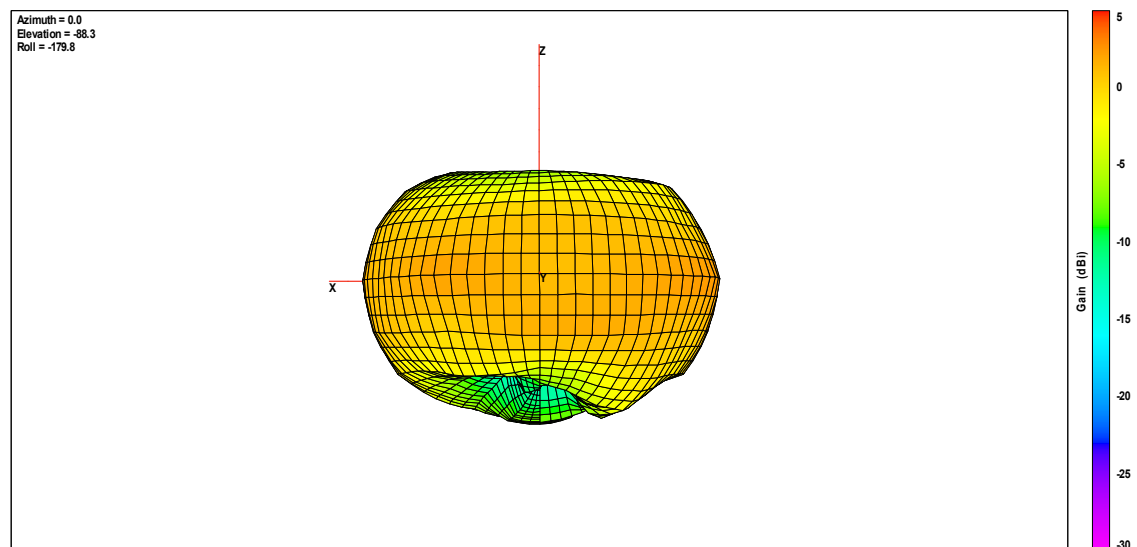
Max: 5
Min: -30
Scale: 5/div
Phi=0



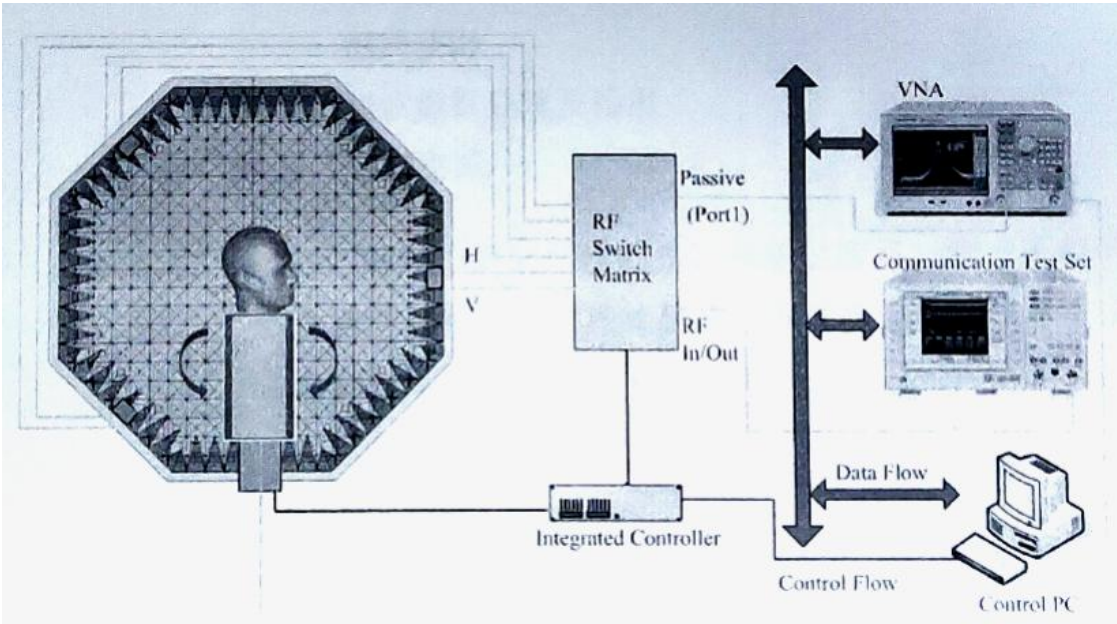
3D Radiation Pattern at 868MHz Gain=2.92



3D Radiation Pattern at 915MHz Gain=2.78



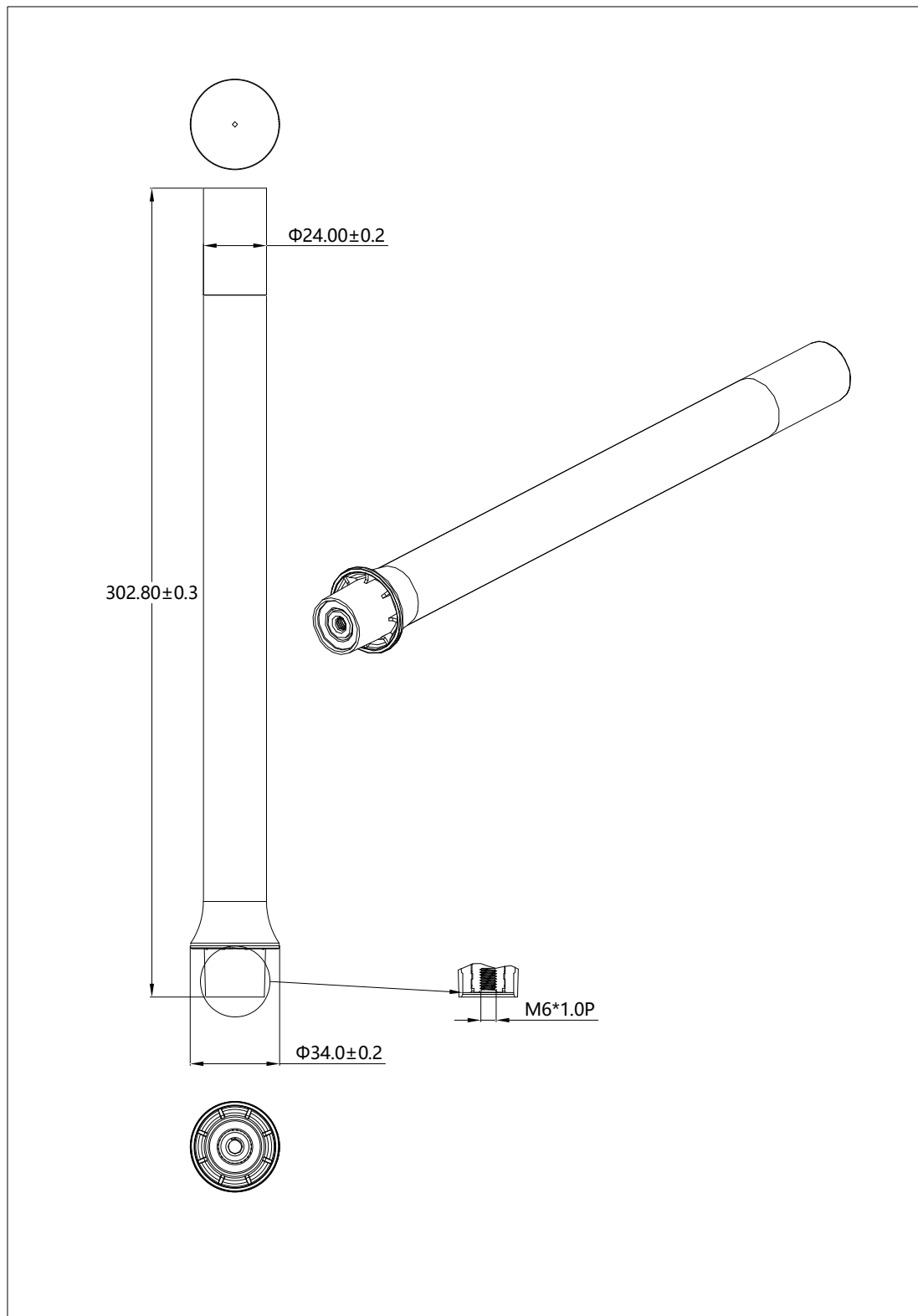
TESTING PROCEDURES



Equipment list

ID#	Device	Type/Model	Manufacturer
1	Anechoic Chamber	RayZone 2800	General Test Systems
2	Turn Table	GTS	General Test Systems
3	Measurement SW	MaxSign 100,V18.7.6	General Test Systems
4	Network analyzer	Agilent E5071C	Agilent
5	Cable 2m -30MHz to 18GHz	SFT205-SMSM(RA)-2M	Atem

Testing Ground: No.RM 410, Country Garden Phoenix Wisdom Valley, No. 50 Tiezai Road, Baoan District, Shenzhen, P.R.China.

HOUSING CONFIGURATIONS

Aboosty™ is owned by Shenzhen MyAntenna RF Technology Co., Ltd. (often abbreviated as MyAntenna).