



规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2025/09/25
编号 File No	25092503
版本 Revision	1.0

客户
CUSTOMER:

道通 Autel Robotics Co., Ltd.

客户料号
CUSTOMER NO:

501009163

品名
PART NAME:

RF Antenna

供方料号
SUPPLIER NO:

YJI01.005.116.303A

送样日期Date:

送样数量Q'TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

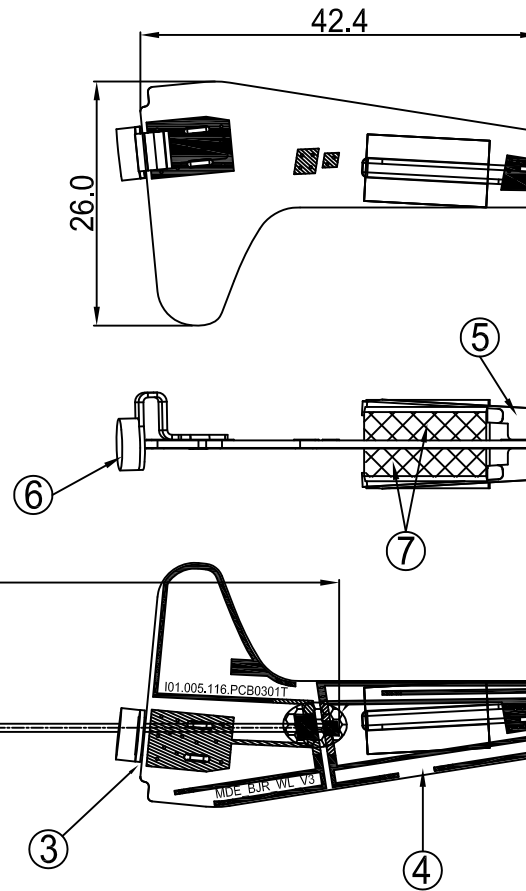
供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A



RoHS
Compatible

CUSTOMER
PART NO



8	Shrink Tube	L10.0*Ø2.0MM Black	EVA	I01.005.116.TUB0301T	1
7	Paste+EVA	13.0*7.1*4.0MM	EVA	I01.005.116.EVA0301T	2
6	EMI Gasket	Ø5.5*2.0MM	EVA	EVA10528A.P01	1
5	Metal	32.0*10.9*0.5MM	SUS304	I01.005.116.MET0302T	1
4	PCB	42.4*26.0*0.8MM	PCB	I01.005.116.PCB0301T	1
3	Metal	9.5*5.5*0.5MM	SUS304	I01.005.116.MET0301T	1
2	Coaxial Cable	O.D 1.37 White low loss	O.D 1.37	COA10015A.W01	1
1	Mini Connector	Au Plated 1代	Cu	TER10008A.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



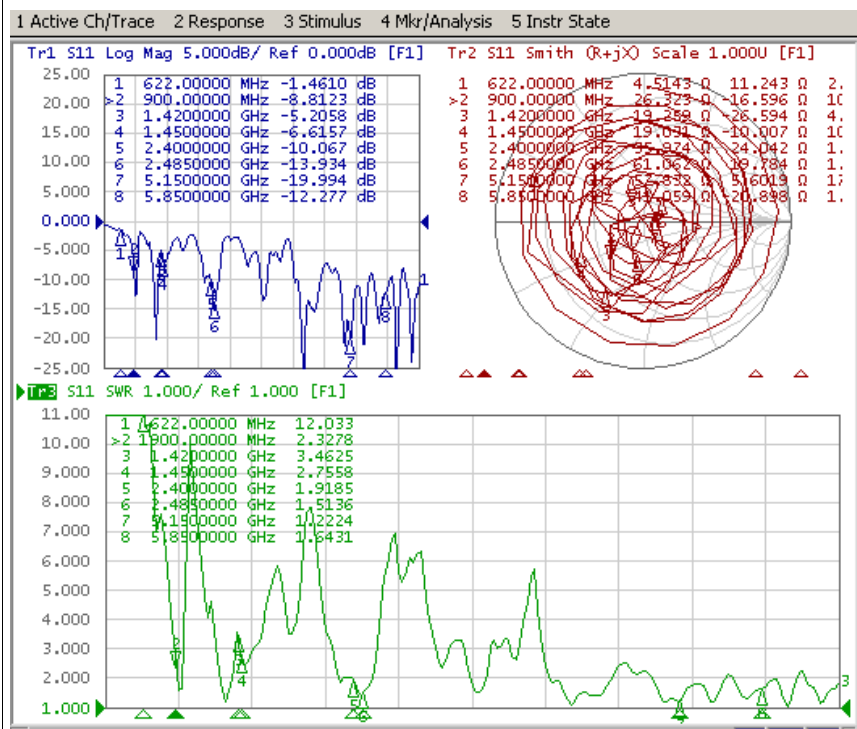
天线规格
Antenna Specification

Electrical Properties	
Frequency	860-928MHz 1420-1510MHz 2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	12.0 Max@860-928MHz 3.5 Max@1420-1510MHz 2.0 Max@2.4-2.5GHz 2.5 Max@5.15-5.85GHz
Gain	0.8 dBi@860-928MHz 0.4 dBi@1420-1510MHz 0.5 dBi@2.4-2.5GHz 2.6 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	IPEX
Cable Type	O.D.1.37mm Low loss
Cable Length	350mm
Cable Color	White
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%



Antenna Performance Test

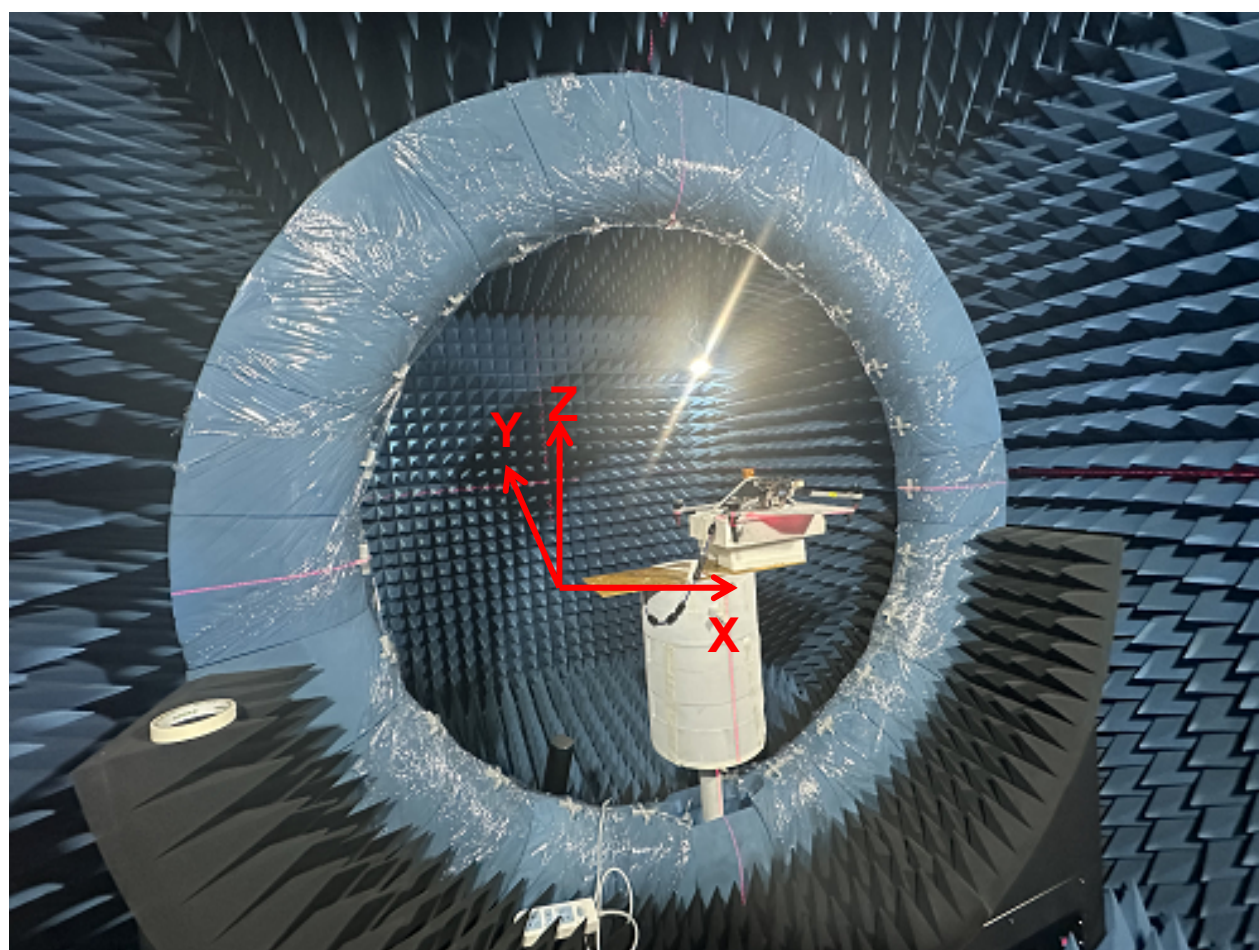
*Agilent
E5071C
S
Parameter
Test //
BJR
Antenna*





东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

Antenna Passive Test





Passive Test For BJR Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
820	22.2	-6.5	-1.6
830	21.6	-6.7	-1.4
840	23.7	-6.3	-1.0
850	27.2	-5.7	-0.4
860	33.0	-4.8	0.1
870	37.0	-4.3	0.4
880	37.9	-4.2	0.8
890	38.6	-4.1	0.7
900	38.2	-4.2	0.3
910	37.9	-4.2	-0.3
920	37.4	-4.3	-0.5
930	33.9	-4.7	-1.7
940	31.6	-5.0	-1.8
950	26.1	-5.8	-2.3
960	18.5	-7.3	-3.8



Passive Test For BJR Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1430	15.9	-8.0	-2.2
1438	23.1	-6.4	-1.1
1446	26.9	-5.7	-0.6
1454	27.9	-5.5	-0.4
1462	30.4	-5.2	-0.1
1470	32.7	-4.9	0.1
1478	32.6	-4.9	-0.2
1486	34.4	-4.6	0.0
1494	36.2	-4.4	0.4
1502	32.0	-5.0	-0.2
1510	32.4	-4.9	0.0



Passive Test For BJR Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	37.0	-4.3	0.5
2410	39.0	-4.1	0.8
2420	40.7	-3.9	1.2
2430	41.2	-3.9	1.4
2440	42.8	-3.7	1.6
2450	43.9	-3.6	1.6
2460	44.9	-3.5	1.8
2470	45.3	-3.4	1.9
2480	44.4	-3.5	1.8
2490	43.2	-3.7	1.8
2500	43.1	-3.7	1.8

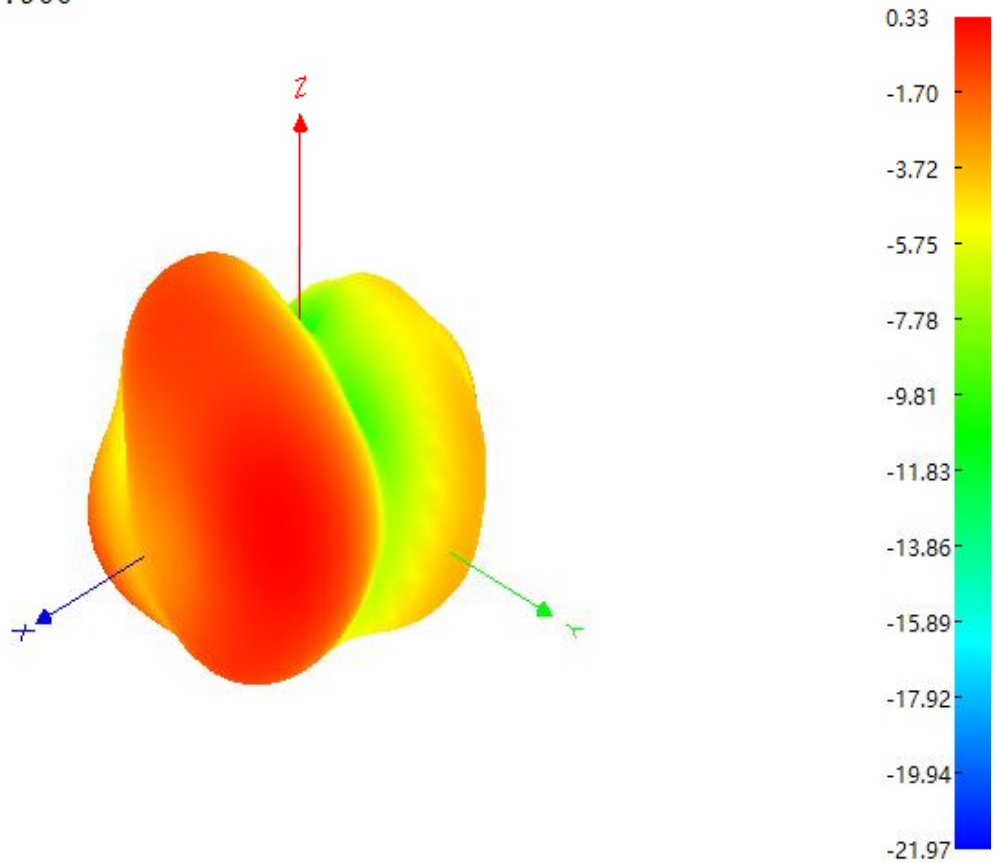


Passive Test For BJR Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	33.9	-4.7	0.7
5200	31.9	-5.0	-0.9
5250	32.1	-4.9	0.1
5300	36.1	-4.4	1.1
5350	42.7	-3.7	2.0
5400	41.1	-3.9	1.7
5450	41.0	-3.9	1.5
5500	43.6	-3.6	1.5
5550	45.5	-3.4	1.9
5600	41.9	-3.8	2.1
5650	39.1	-4.1	2.0
5700	40.1	-4.0	2.3
5750	41.4	-3.8	2.6
5800	43.2	-3.7	2.4
5850	40.3	-4.0	2.4



Radiation Pattern For BJR Antenna (900MHz)

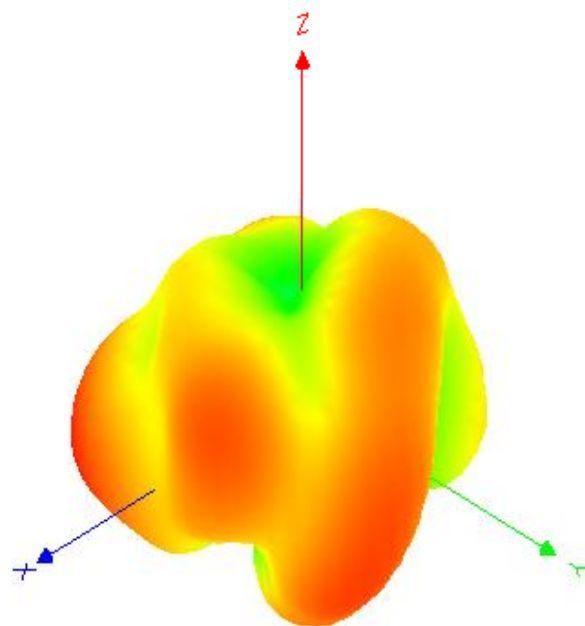
Frequency (MHz) : 900





Radiation Pattern For BJR Antenna (1430MHz)

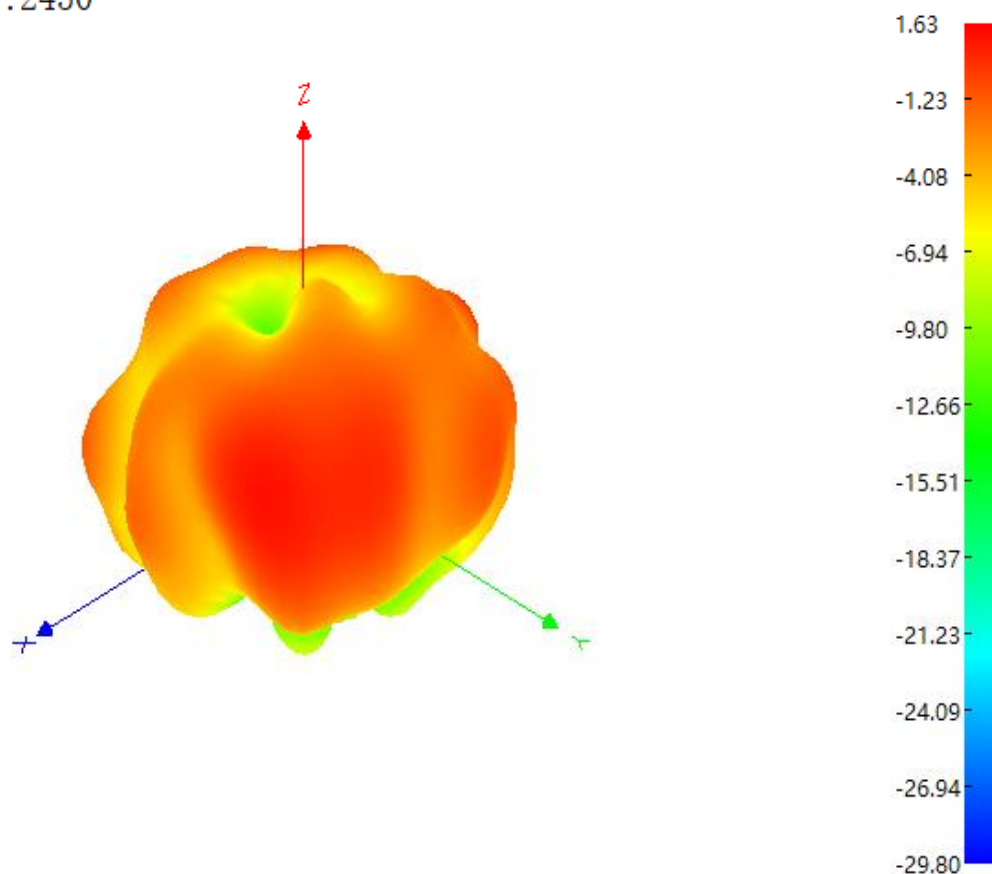
Frequency (MHz) : 1430





Radiation Pattern For BJR Antenna (2450MHz)

Frequency (MHz) : 2450





Radiation Pattern For BJR Antenna (5500MHz)

Frequency (MHz) : 5500

