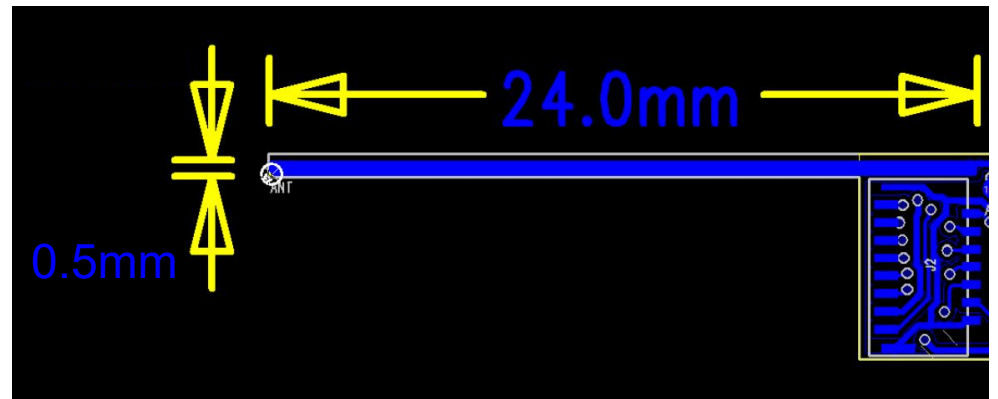


RS01Z Antenna Test Report

Customer	健云互联
Project	RS01Z
Antenna BAND	BT
Product Description	PIFA(PCB ANT)
Product No	V1.0

Product Overview & Dimension



This report is to measure the performance of BT antenna for **RS01Z**. The antenna operating frequency at (2400-2500MHZ) , All test data are showed as below.

Content

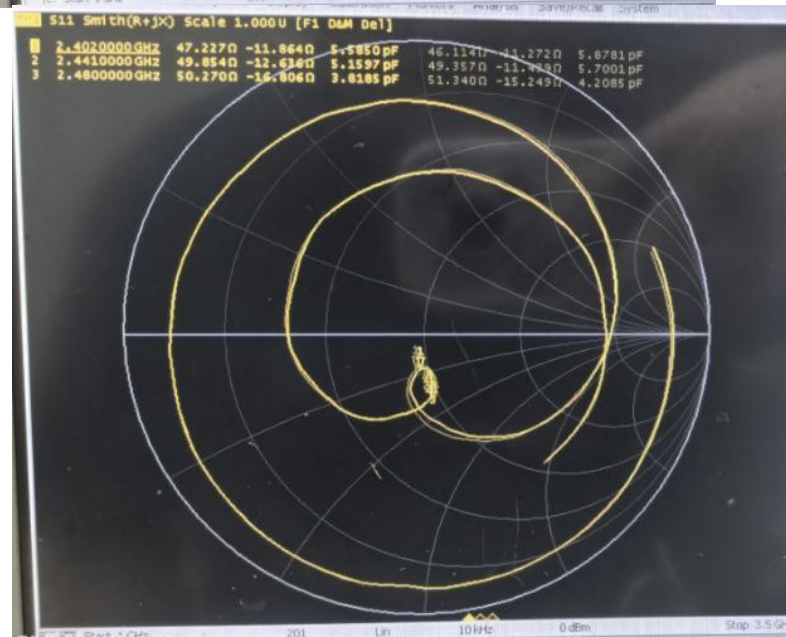
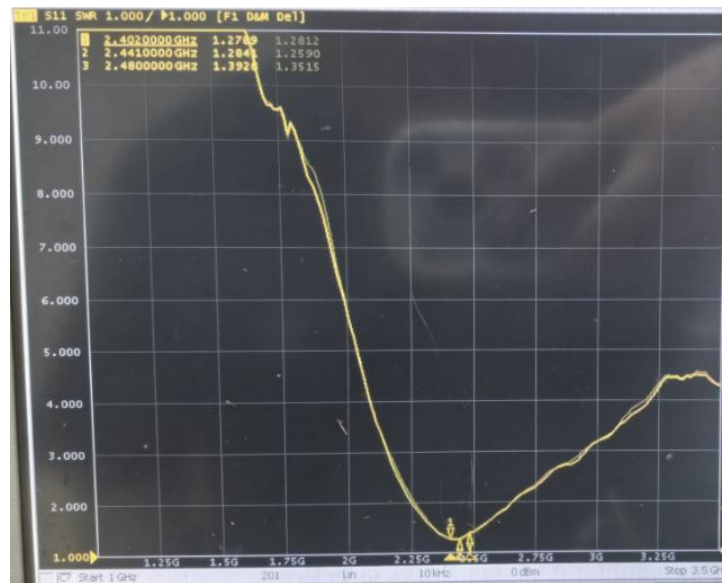
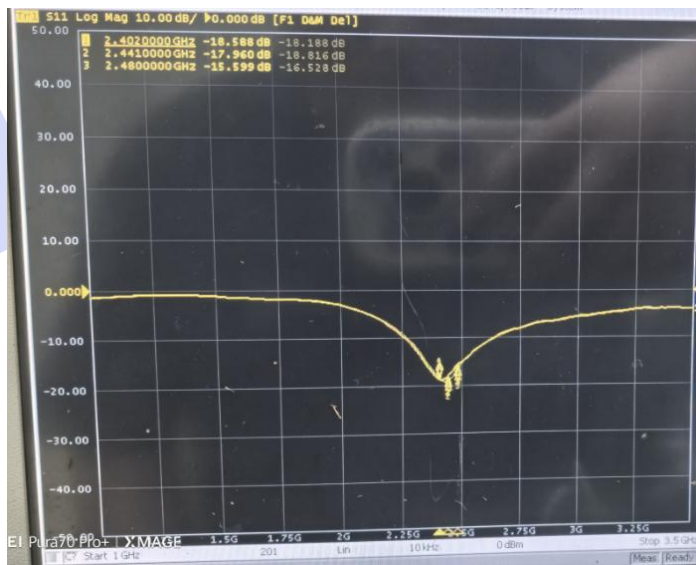
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Gain & Efficiency
 - 4.3 Test coordinate
 - 4.4 2D Pattern
 - 4.5 OTA Data
 - 4.6 BT Boot measured
5. Antenna Assembly & environmental processing

2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & HP 8753
OTA Test	TRP&TIS	CMW500 & CMW270 ETS& FT SG24
Gain & Efficiency	Gain & Efficiency	ETS&FT SG24 Agilent 5071C



S11

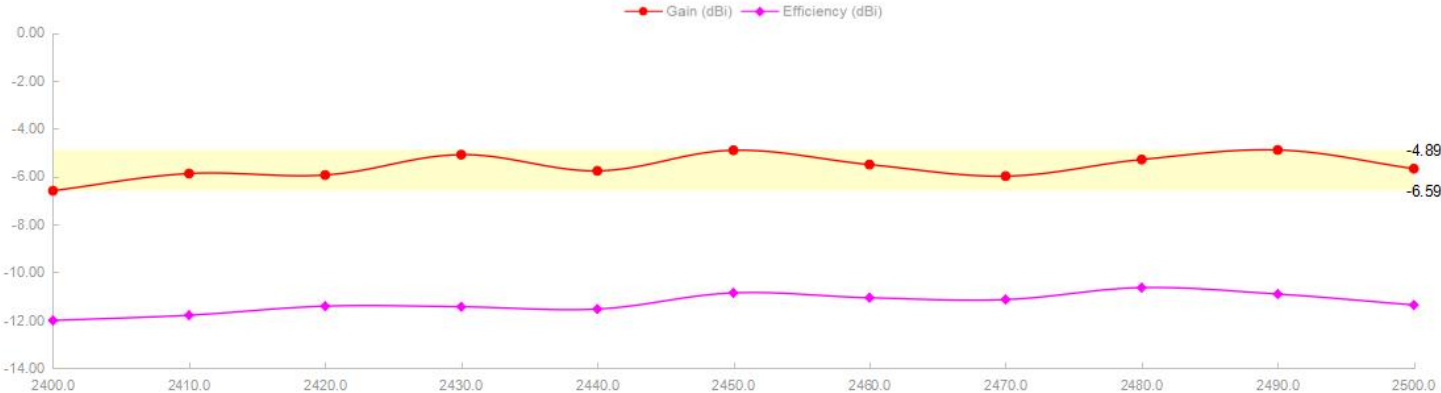
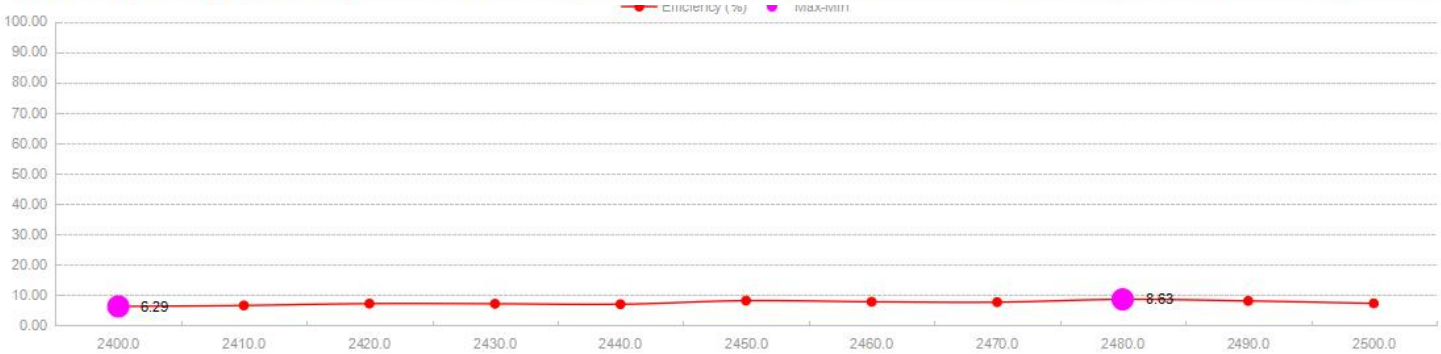


Frequency (MHz)	2400	2450	2500
Smith	47.22	49.85	50.27
Log mag	-18.58	-17.96	-15.59
VSWR	1.27	1.28	1.39

Match network parameters

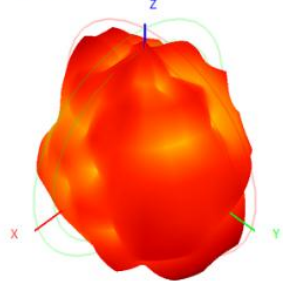
Suggest using Murata brand high-precision capacitors, resistors, and inductors, The packaging specification is 0201

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-12.01	-11.79	-11.41	-11.44	-11.54	-10.86	-11.06	-11.14	-10.64	-10.91	-11.37
Gain (dBi)	-6.59	-5.88	-5.94	-5.09	-5.76	-4.90	-5.50	-5.98	-5.29	-4.89	-5.67
Efficiency (%)	6.29	6.62	7.22	7.18	7.02	8.20	7.83	7.70	8.63	8.11	7.30
Directivity (dB)	5.42	5.92	5.48	6.35	5.77	5.96	5.56	5.15	5.35	6.02	5.69
Peak Gain Position (Theta)	135.00	135.00	120.00	120.00	120.00	120.00	105.00	120.00	120.00	120.00	120.00
Peak Gain Position (Phi)	195.00	165.00	60.00	60.00	75.00	180.00	165.00	210.00	60.00	210.00	180.00
Efficiency ThetaPol (%)	3.03	3.26	3.37	3.44	3.27	3.91	3.86	4.07	4.57	4.24	3.78
Efficiency PhiPol (%)	3.26	3.35	3.85	3.74	3.75	4.29	3.97	3.62	4.05	3.87	3.52
Upper Hem. Efficiency (%)	3.12	3.15	3.44	3.16	3.03	3.54	3.37	3.47	4.14	3.84	3.49
Lower Hem. Efficiency (%)	3.17	3.47	3.78	4.01	3.99	4.66	4.45	4.22	4.49	4.27	3.81

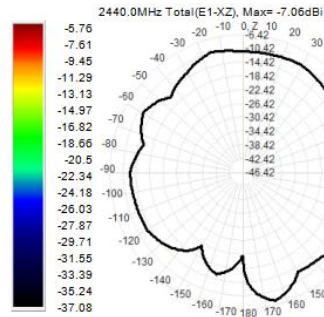
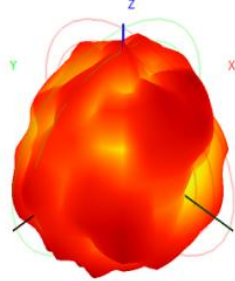


3D Pattern

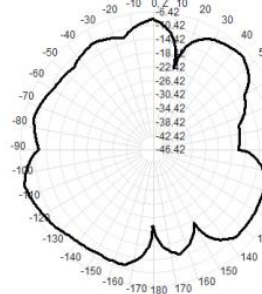
2440.0MHz Total, Eff: 7.0%



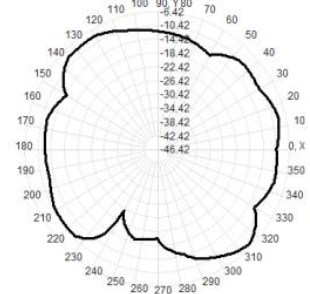
Back View



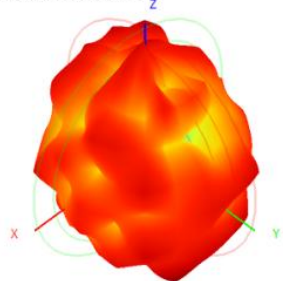
2440.0MHz Total(E2-YZ), Max=-6.42dBi



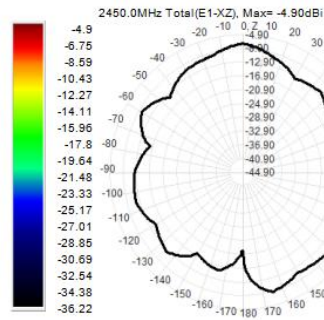
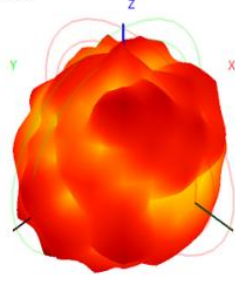
Total(H-XY), Max=-7.50dBi, CirD=18.70



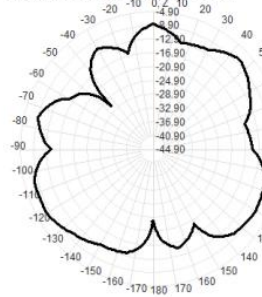
2450.0MHz Total, Eff: 8.2%



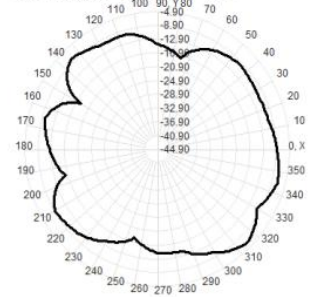
Back View



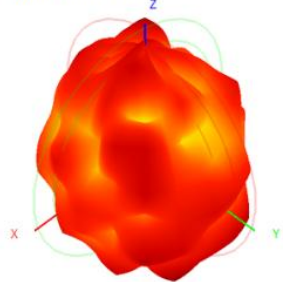
2450.0MHz Total(E2-YZ), Max=-7.97dBi



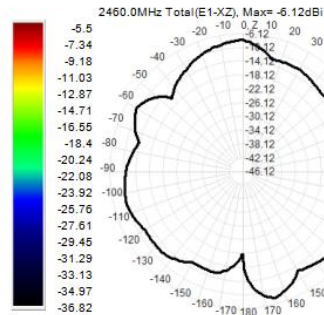
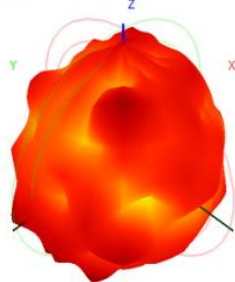
Total(H-XY), Max=-6.62dBi, CirD=11.90



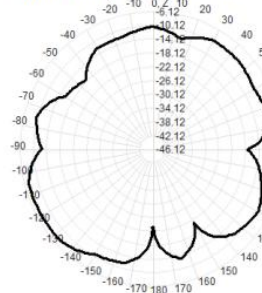
2460.0MHz Total, Eff: 7.8%



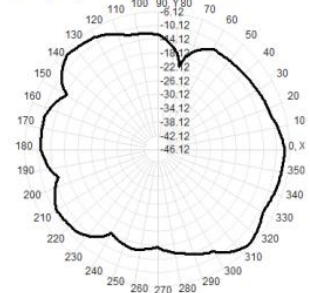
Back View

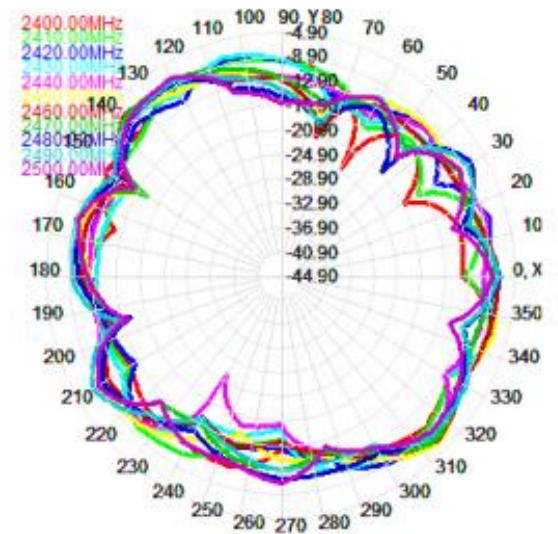
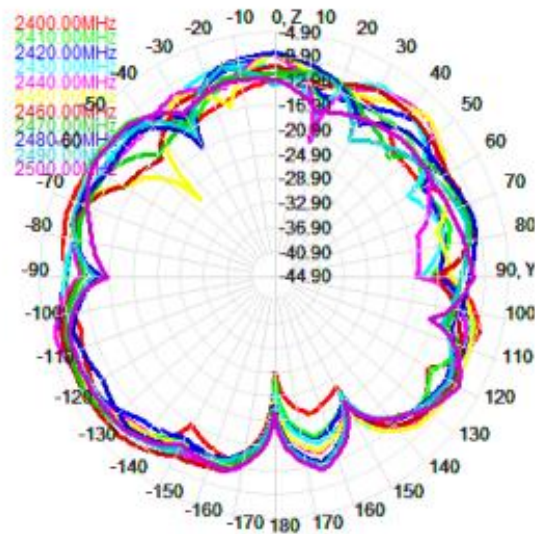
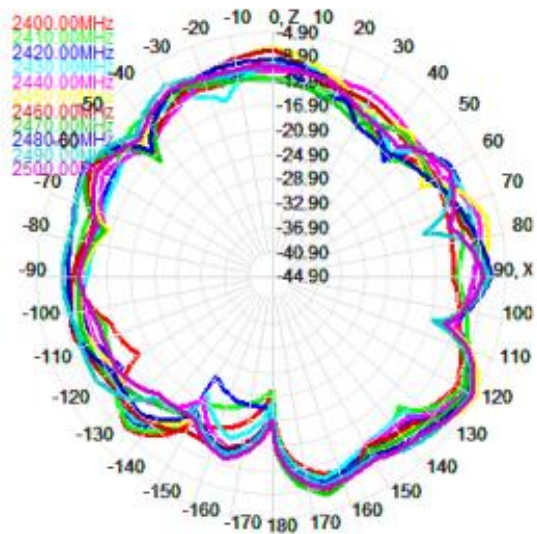


2460.0MHz Total(E2-YZ), Max=-7.49dBi



Total(H-XY), Max=-7.07dBi, CirD=14.35





Thanks for your comment!

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✧ *DT;15302757983*