



深圳市烨盛通讯技术有限公司

shenzhenyeshengcommunicationTechnologyco.,Ltd.

Test report

customer :

project Name:02

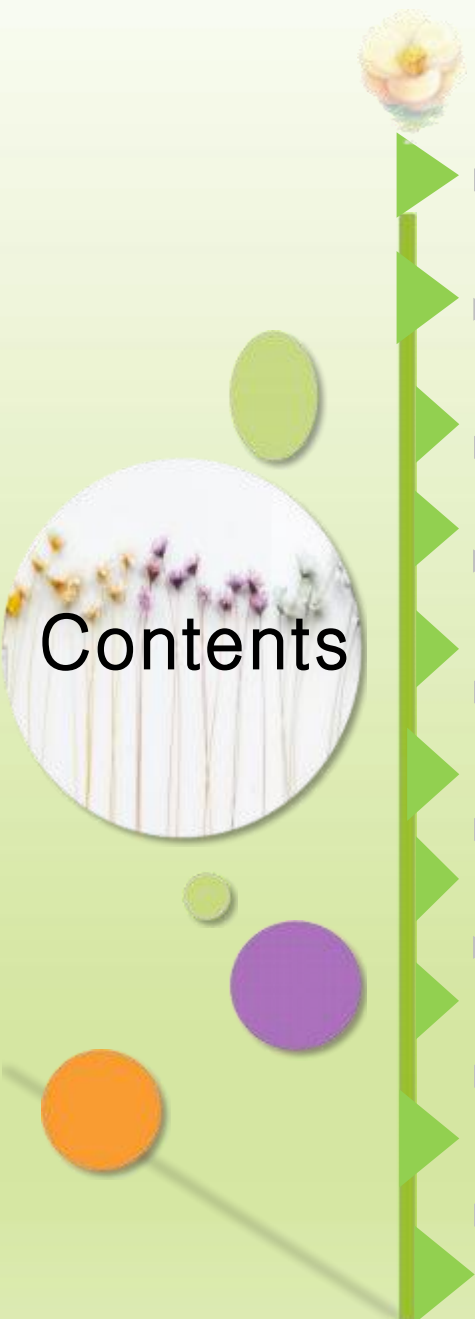
Mobile phone type: interactive mouse

Date: 2024-04-30

structure mode: PCB

Antenna type: Built-in antenna

Frequency Range : 2400MHZ-2500MHZ

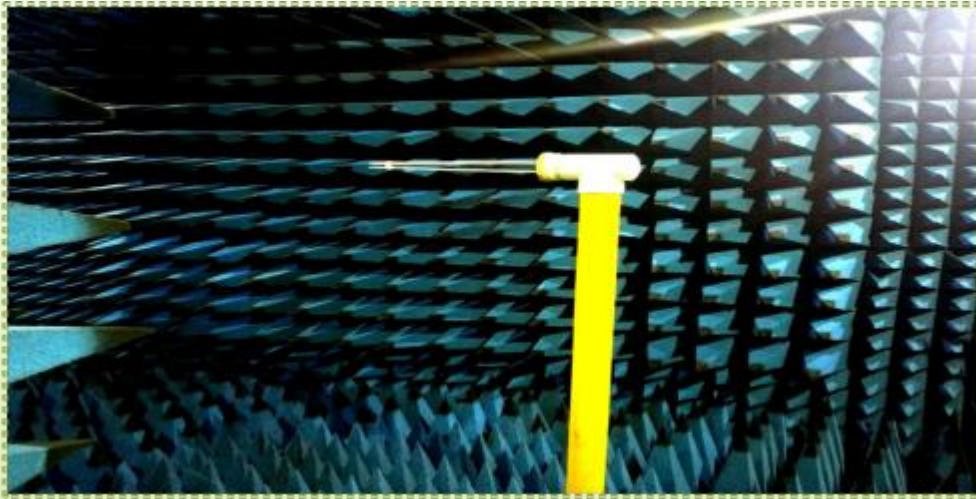


Contents

- ▶ Project information
- ▶ Test equipment
- ▶ Exterior drawing
- ▶ WSR
- ▶ Gain efficiency
- ▶ Direction map
- ▶ Antenna diagram
- ▶ Test environment
- ▶ Test release history

1.0 Test equipment

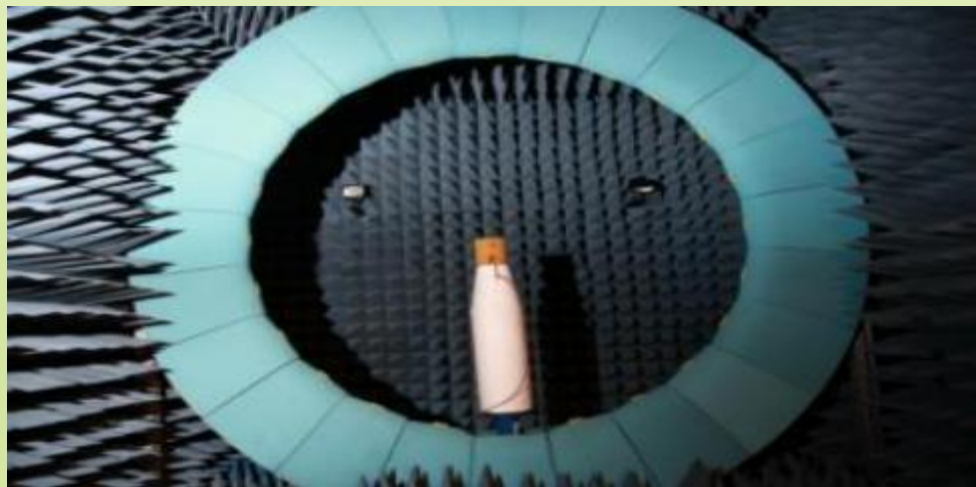
ETS

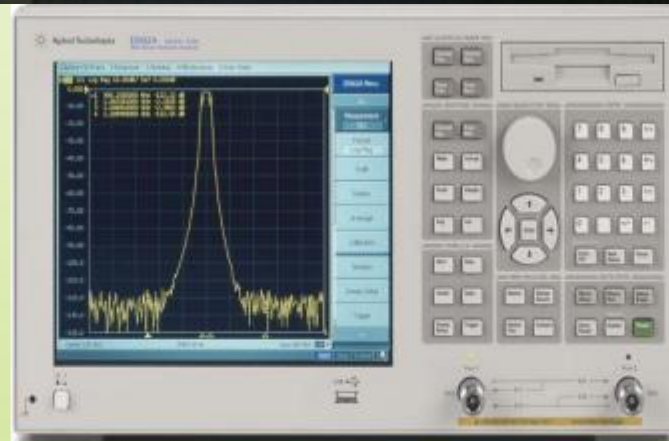


SATIMO--24



Rodesvac shielding box





Test the system

Active testing

Passive testing

SATIMO

In the tank 2G/3G/4G

600MHZ-----6G

ETS

2.0

Exterior drawing



3.0

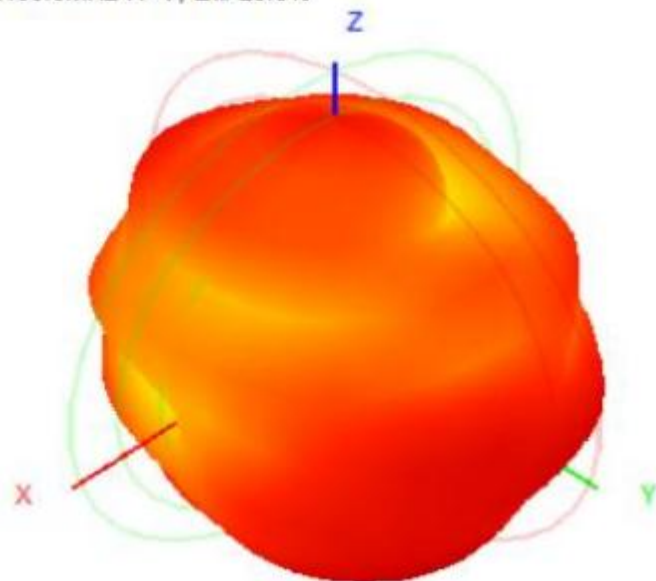
WSR



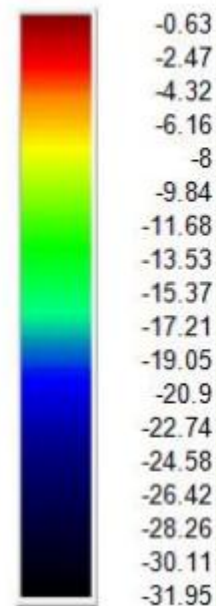
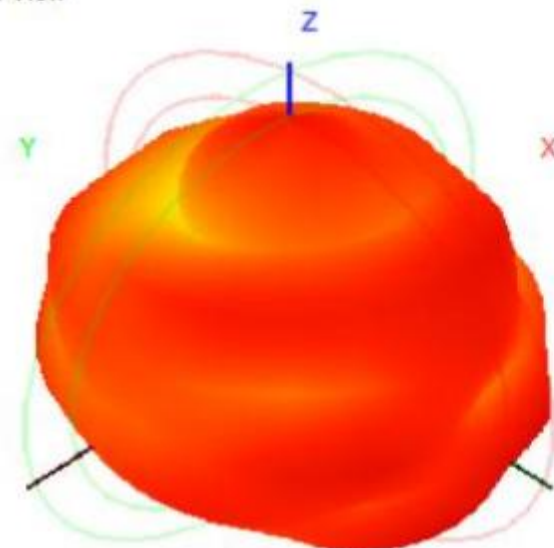
Frequency ID	1	2	3	4	5	6
Frequency (MHz)	2400.0	2420.0	2440.0	2460.0	2480.0	2500.0
Efficiency (dBi)	-6.32	-6.49	-6.63	-6.12	-5.97	-5.90
Gain (dBi)	-0.63	-0.86	-0.84	-0.62	-0.42	-0.35
Efficiency (%)	23.34	22.44	21.75	24.46	25.31	25.68
Directivity (dB)	5.69	5.63	5.79	5.49	5.54	5.55
Peak Gain Position (Theta)	150.00	150.00	150.00	150.00	150.00	150.00
Peak Gain Position (Phi)	330.00	330.00	315.00	315.00	315.00	315.00
Efficiency ThetaPol (%)	9.53	8.86	9.07	9.90	10.13	10.21
Efficiency PhiPol (%)	13.81	13.59	12.68	14.56	15.18	15.47
Upper Hem. Efficiency (%)	8.84	8.83	8.77	10.03	10.80	11.18
Lower Hem. Efficiency (%)	14.50	13.62	12.97	14.43	14.51	14.50

Direction map

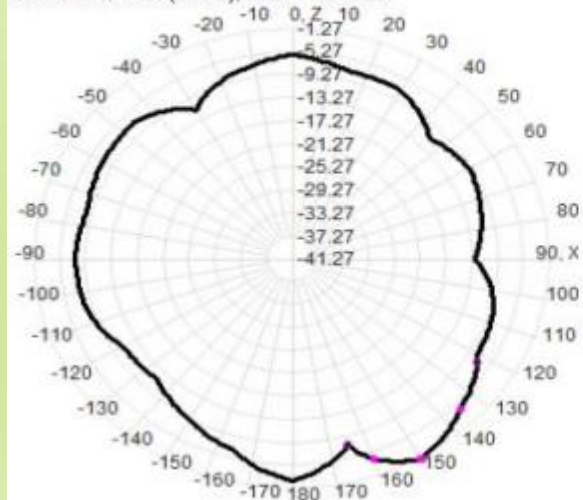
2400.0MHz H+V, Eff. 23.3%



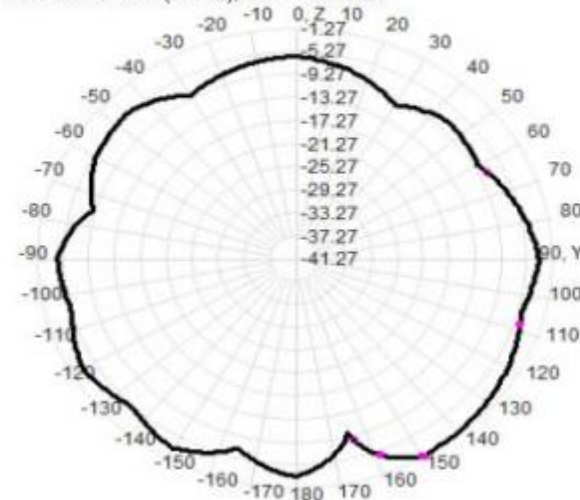
Back View



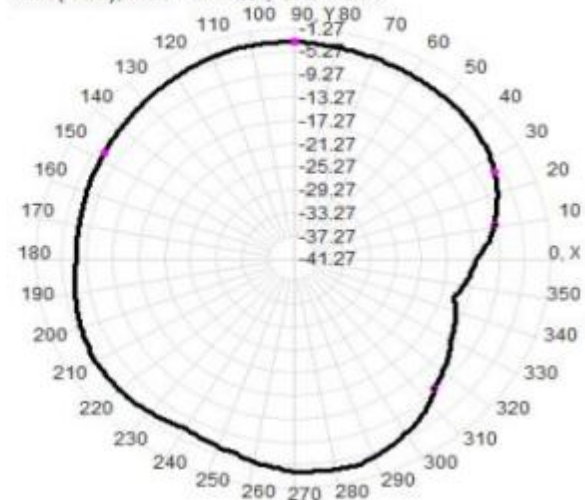
2400.0MHz Total(E1-XZ), Max= -1.27dBi



2400.0MHz Total(E2-YZ), Max= -1.79dBi

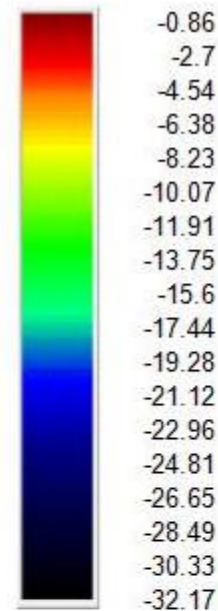
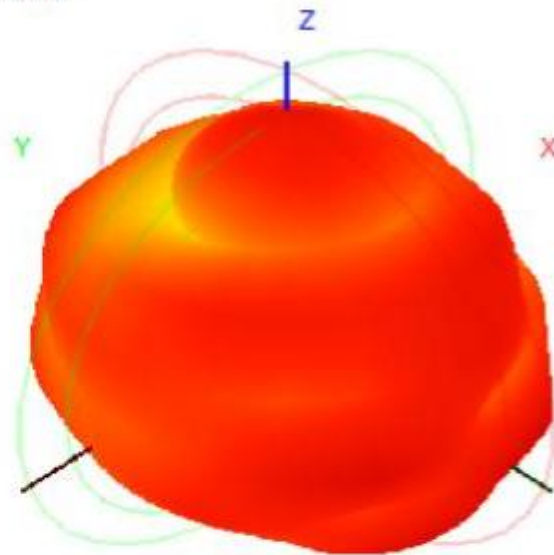
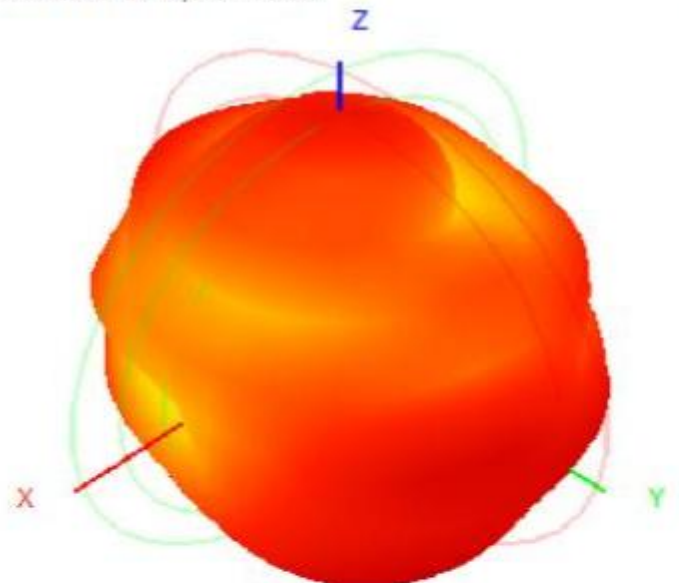


Total(H-XY), Max= -3.64dBi, CirD=12.03

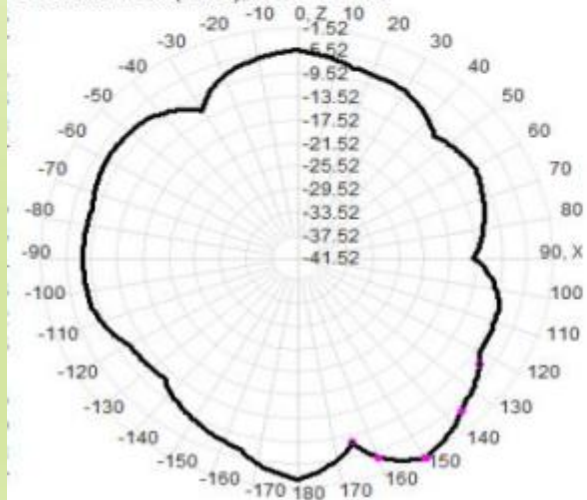


2420.0MHz H+V, Eff 22.4%

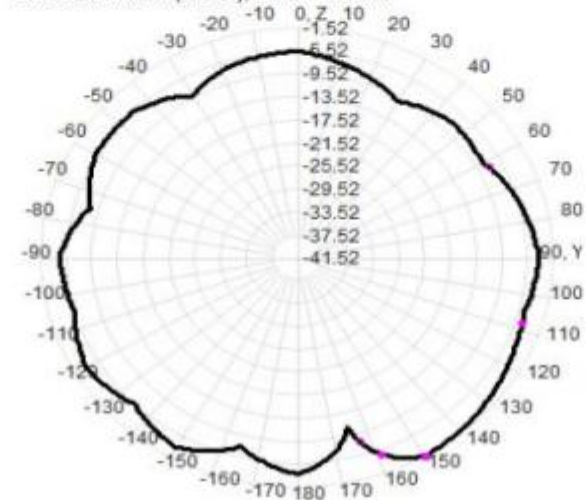
Back View



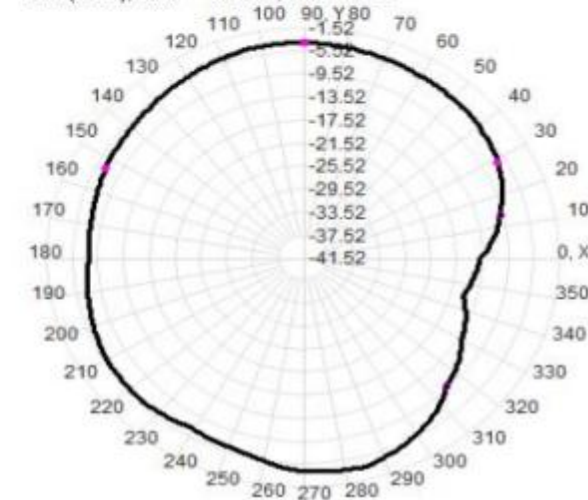
2420.0MHz Total(E1-XZ), Max= -1.52dBi



2420.0MHz Total(E2-YZ), Max= -1.82dBi

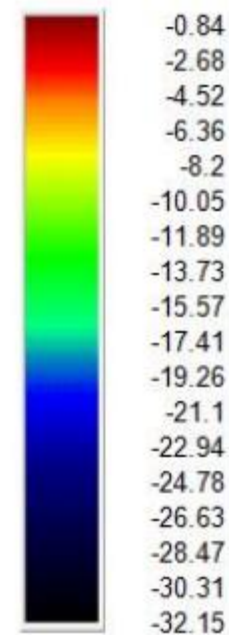
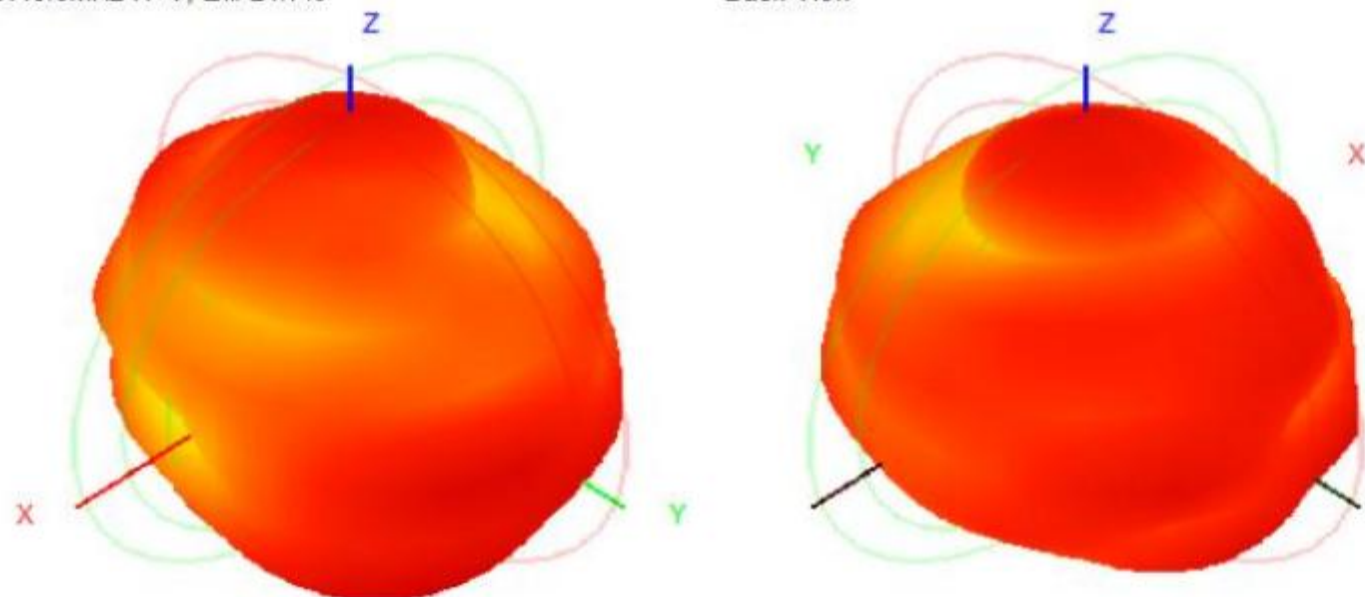


Total(H-XY), Max= -4.02dBi, CirD=11.88

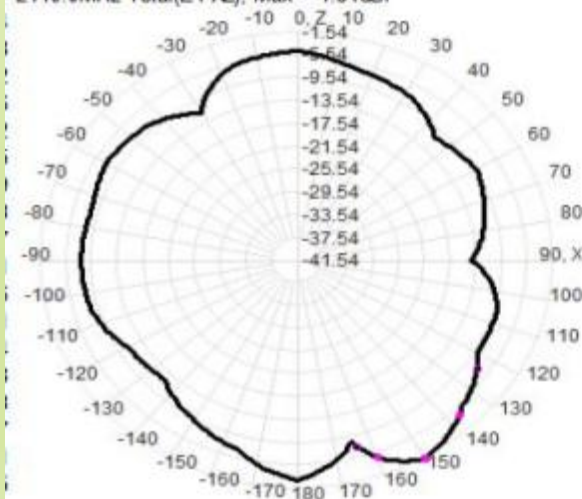


2440.0MHz H+V, Eff. 21.7%

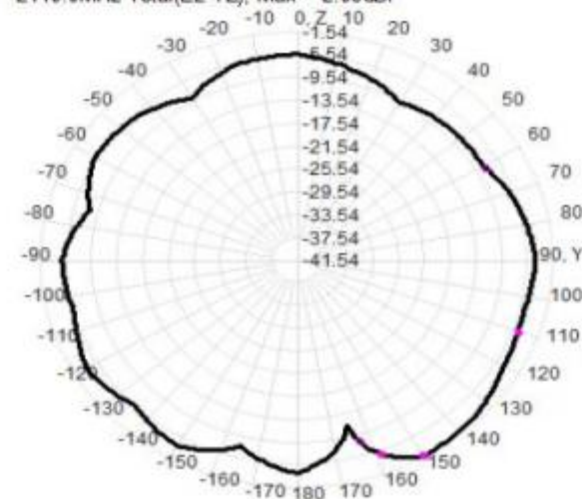
Back View



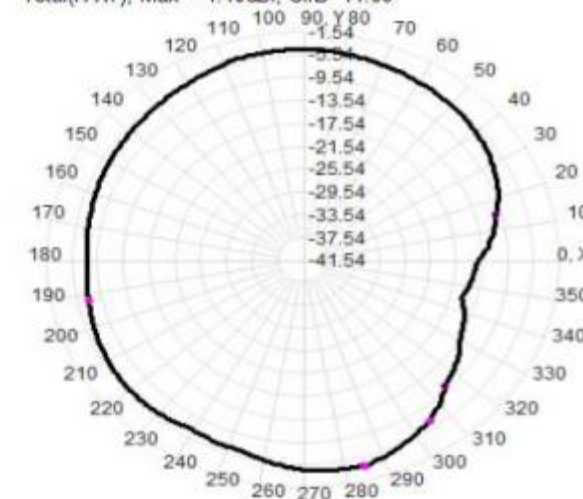
2440.0MHz Total(E1-XZ), Max= -1.54dBi



2440.0MHz Total(E2-YZ), Max= -2.03dBi

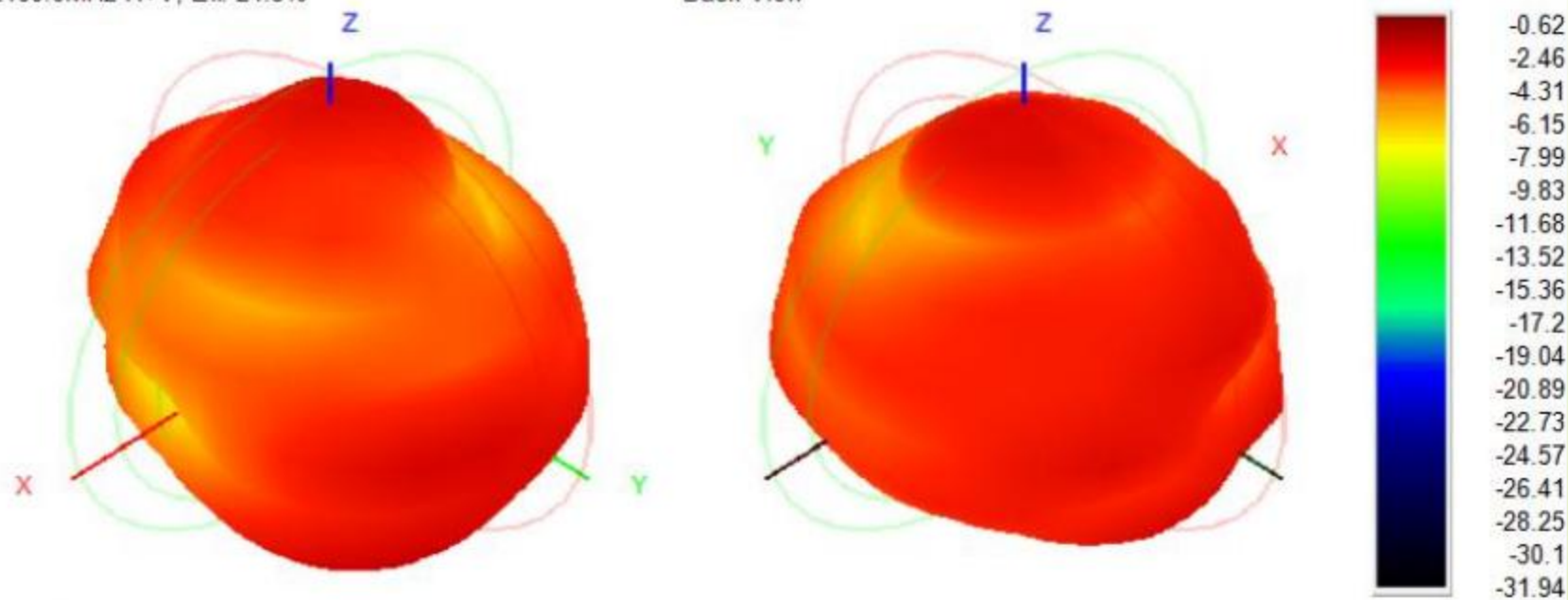


Total(H-XY), Max= -4.40dBi, CirD=11.68

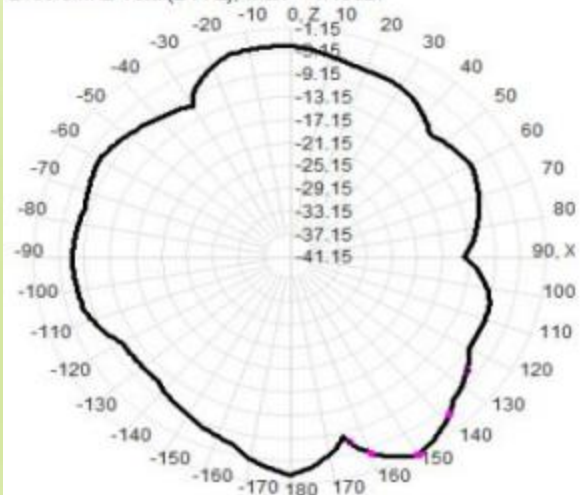


2460.0MHz H+V, Eff. 24.5%

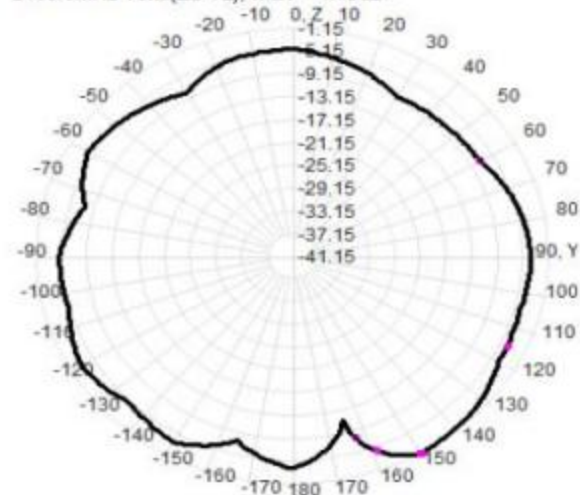
Back View



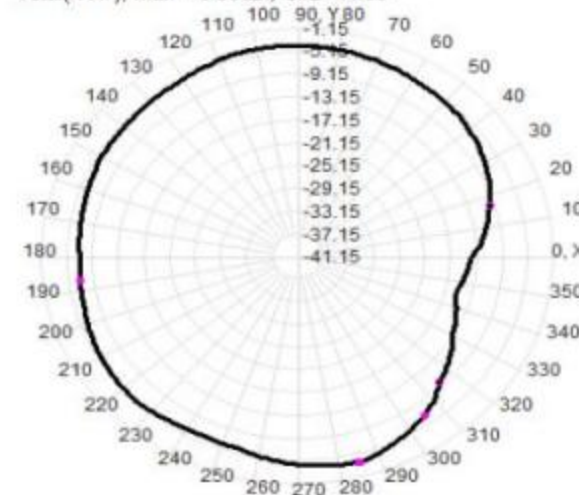
2460.0MHz Total(E1-XZ), Max= -1.15dBi



2460.0MHz Total(E2-YZ), Max= -1.43dBi

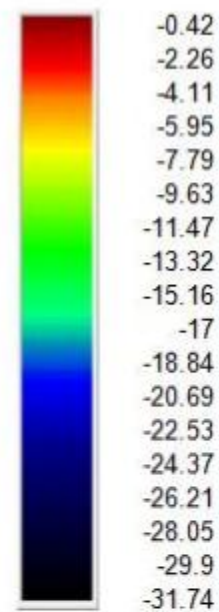
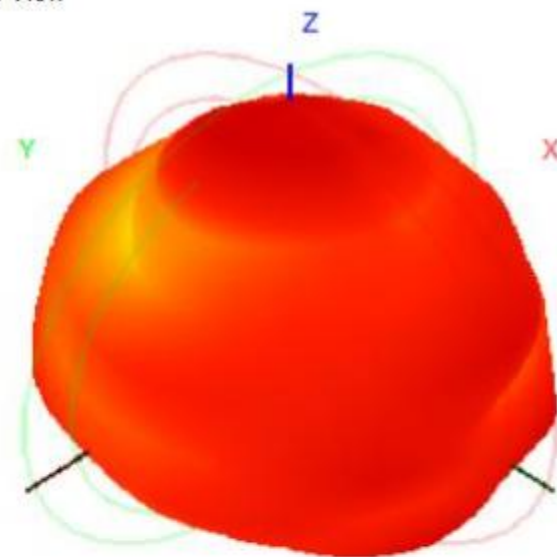
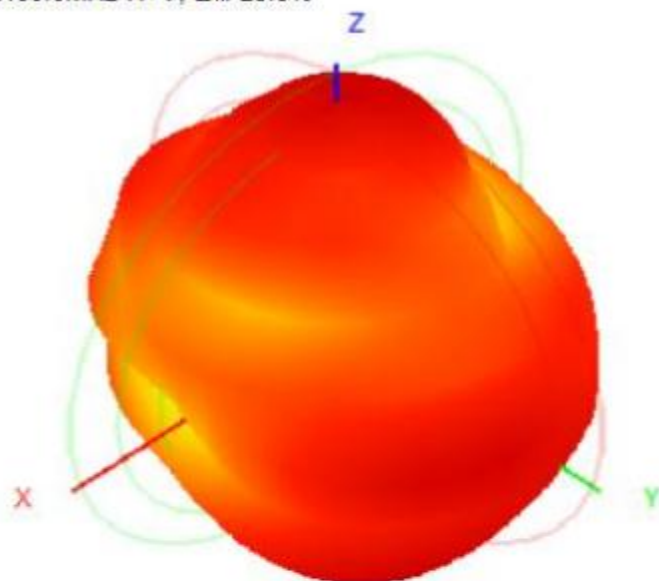


Total(H-XY), Max= -3.98dBi, CirD=11.93

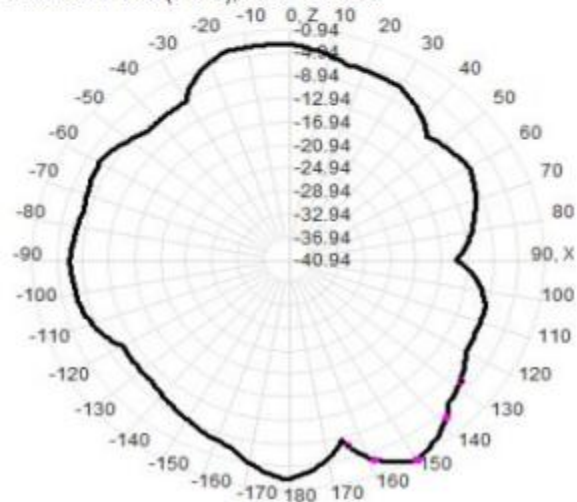


2480.0MHz H+V, Eff 25.3%

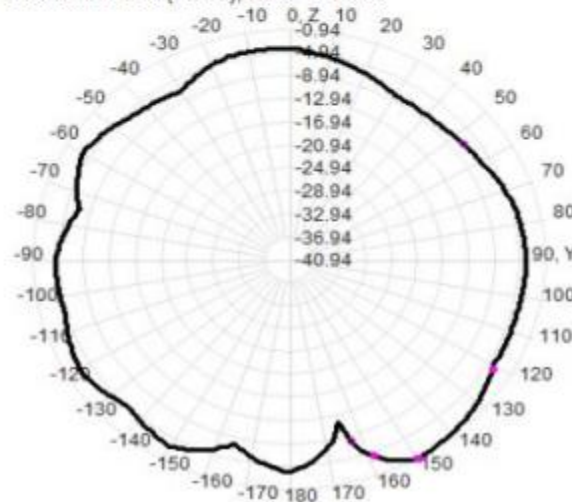
Back View



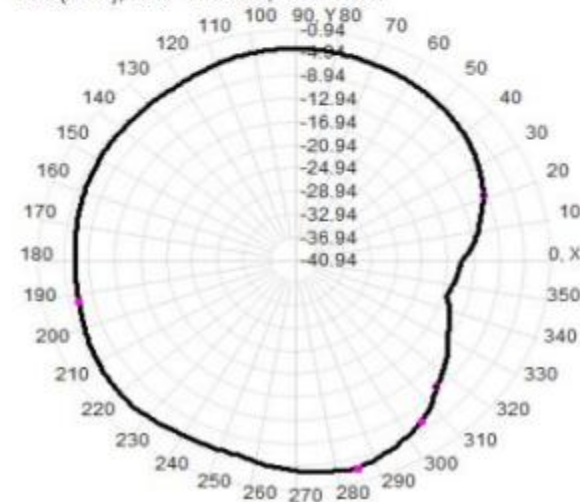
2480.0MHz Total(E1-XZ), Max= -0.94dBi



2480.0MHz Total(E2-YZ), Max= -1.16dBi

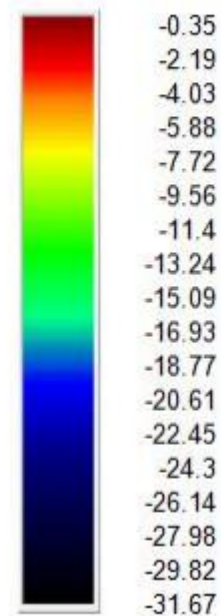
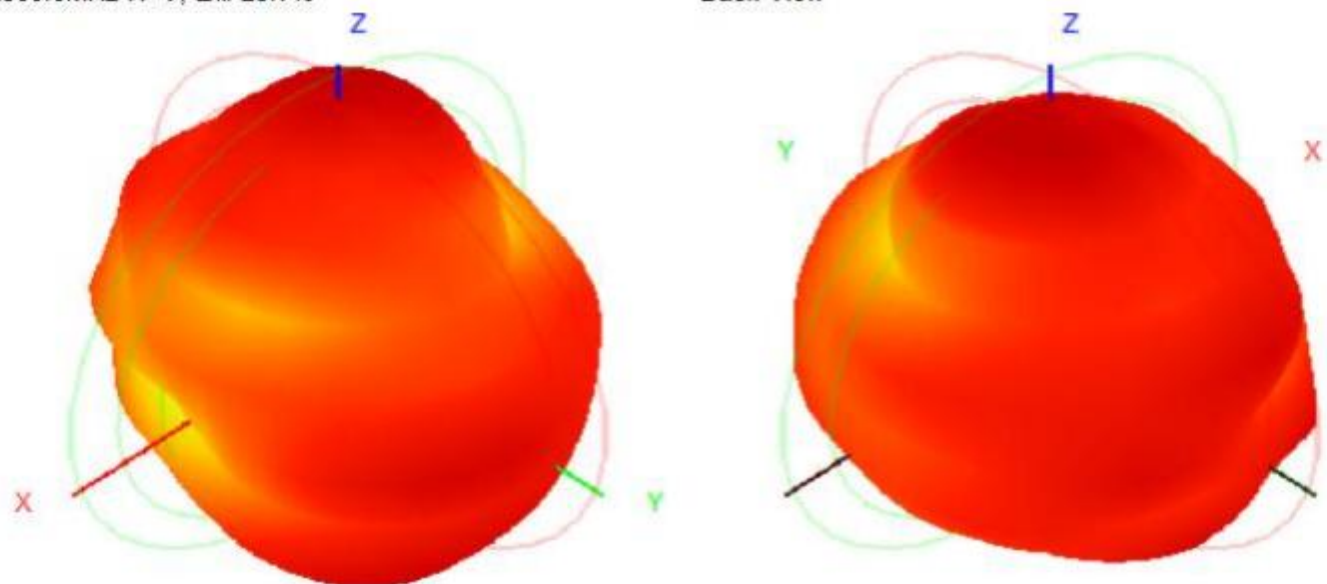


Total(H-XY), Max= -3.60dBi, CirD=13.01

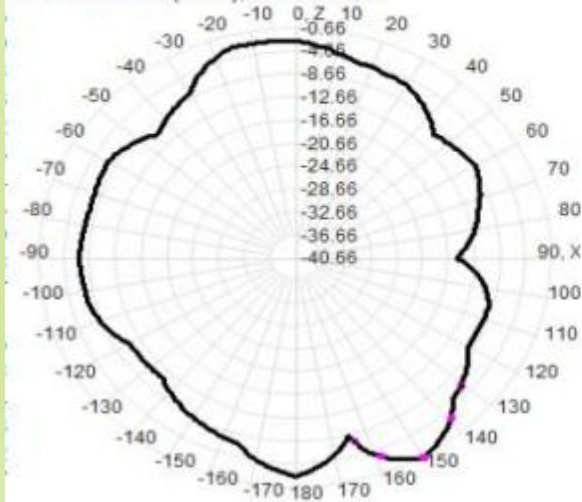


2500.0MHz H+V, Eff. 25.7%

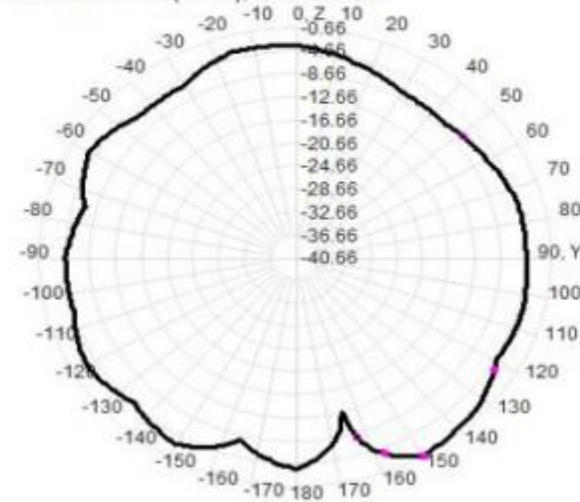
Back View



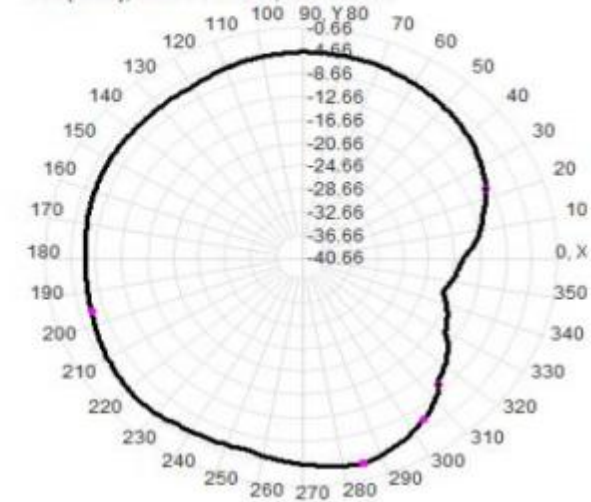
2500.0MHz Total(E1-XZ), Max= -0.66dBi

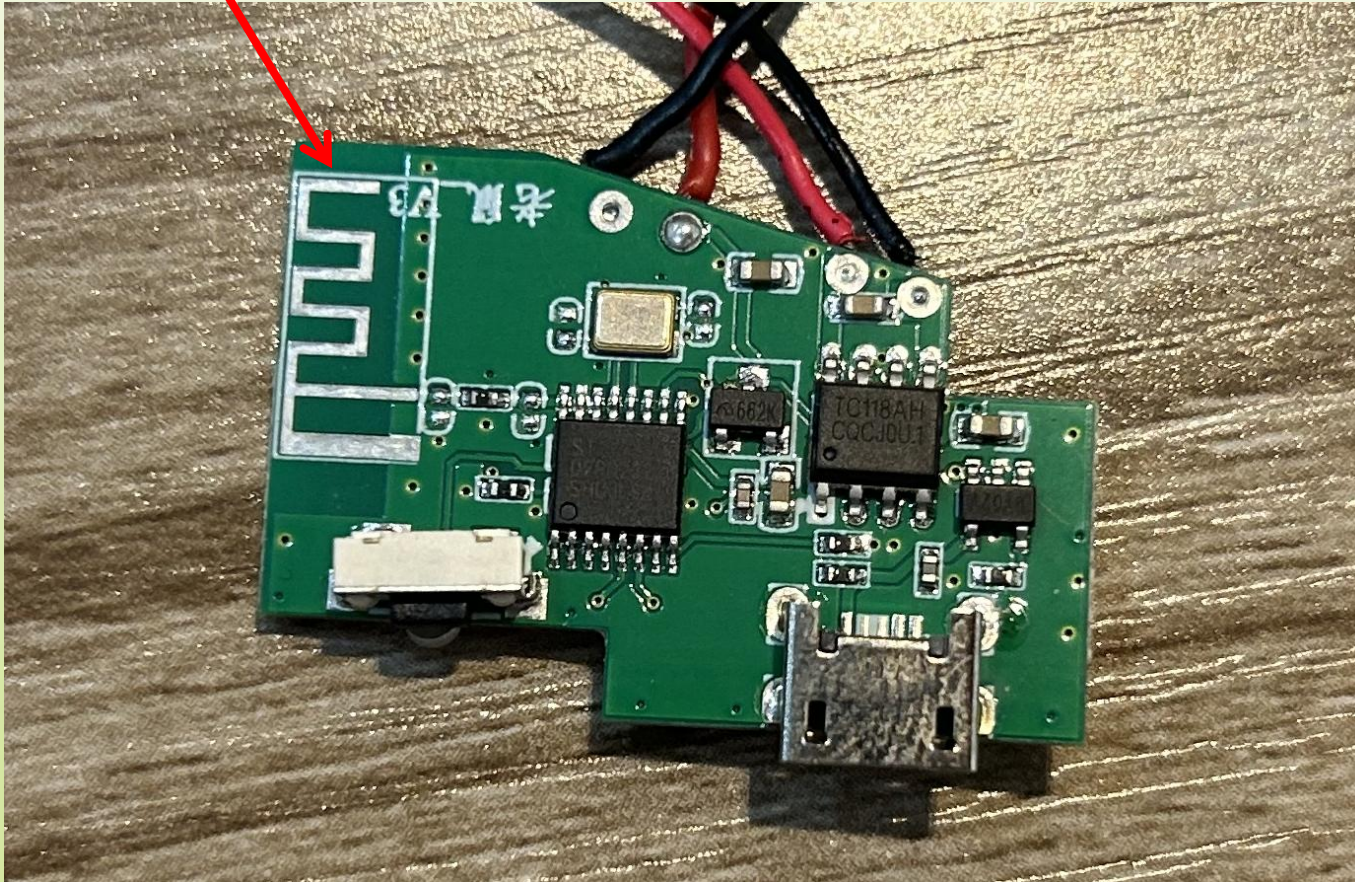


2500.0MHz Total(E2-YZ), Max= -1.05dBi

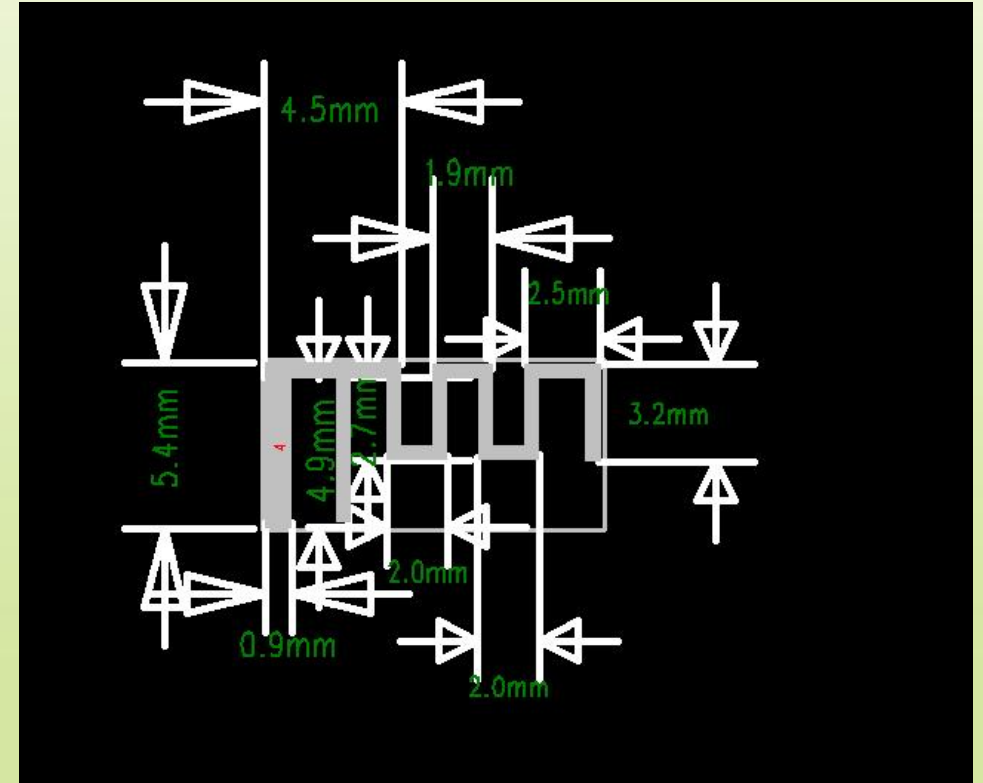


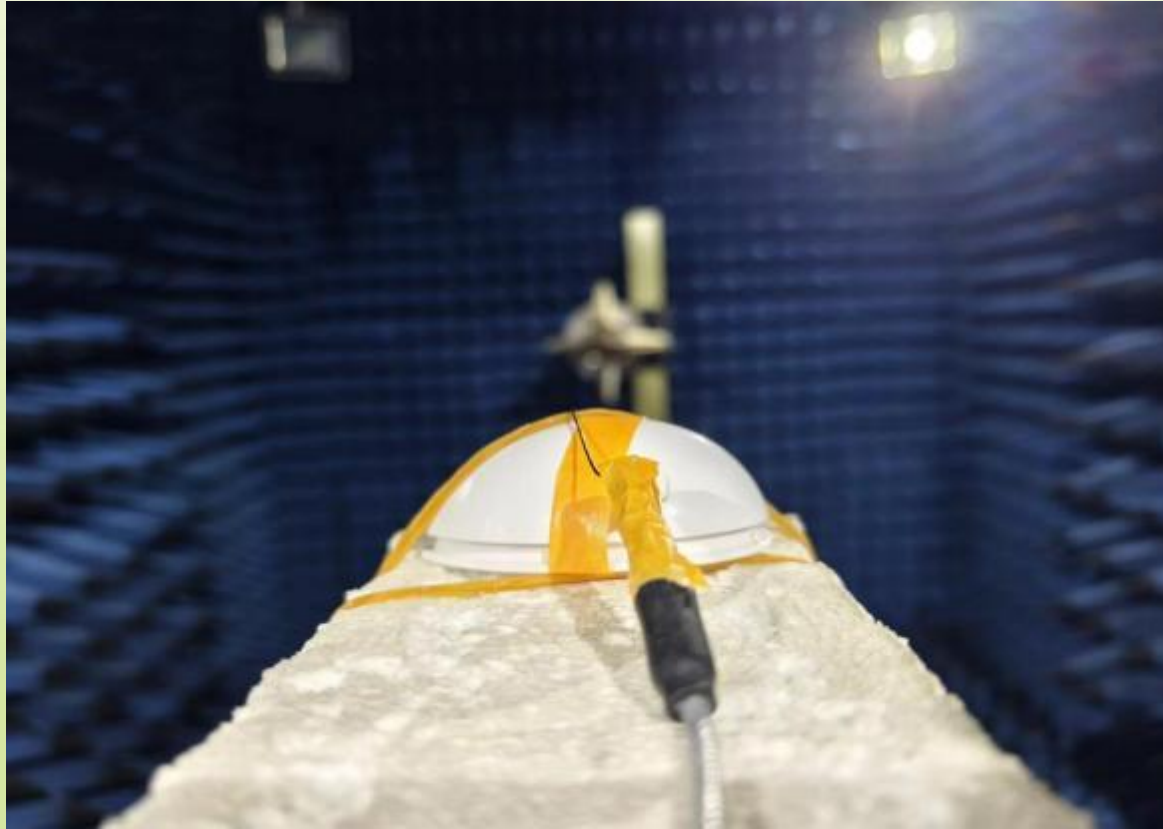
Total(H-XY), Max= -3.64dBi, CirD=14.36





Antenna Layout/module on the system board



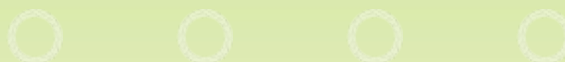


5.0 Test release history

version	date	Content overview
V1.0	2024-04-30	Passive test data
V2.0		
V3.0		
V4.0		
V5.0		
V6.0		
V7.0		
V8.0		
V9.0		
V10.0		
V11.0		
V12.0		
V13.0		
V14.0		

6.0

hu jin hua	13798315250	mailbox: tiger@szyestone.com



Antenna manufacturer:

shenzhenyeshengcommunicationTechnologyco.,Ltd.

address:

3010-3011, Building 34, Chentian Industrial Zone, Xixiang Street, Bao'an District, Shenzhen