Antenna specification

Antenna type: PCB

Antenna model: LCT550

Antenna manufacturer: Hubei Shiwei Communication Co., LTD

Address: No. 218, Xingguo Road, Xingguo Town, Yangxin County

一、 Antenna size

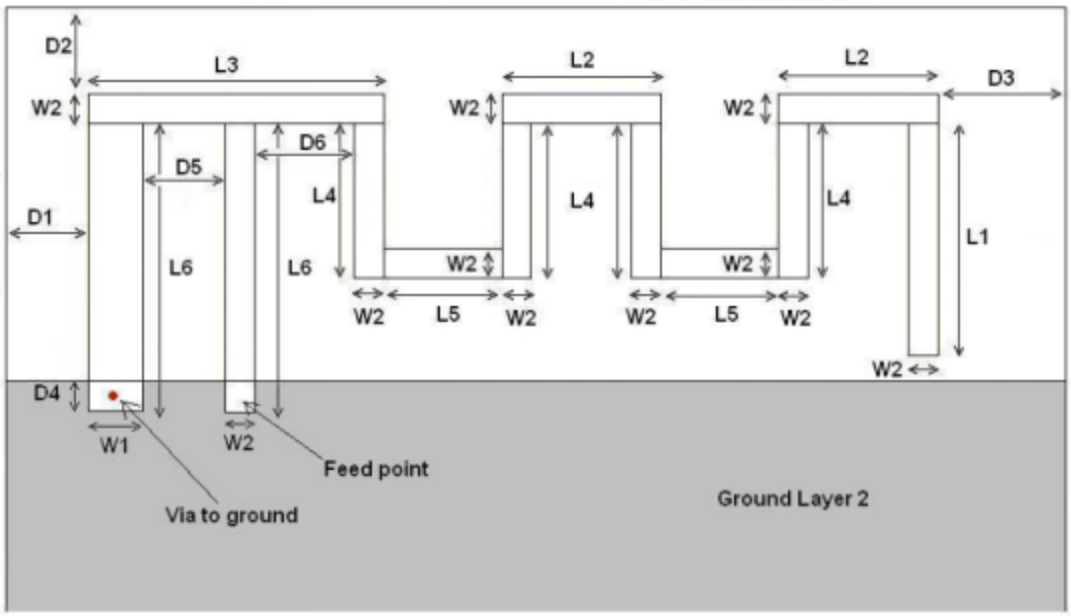
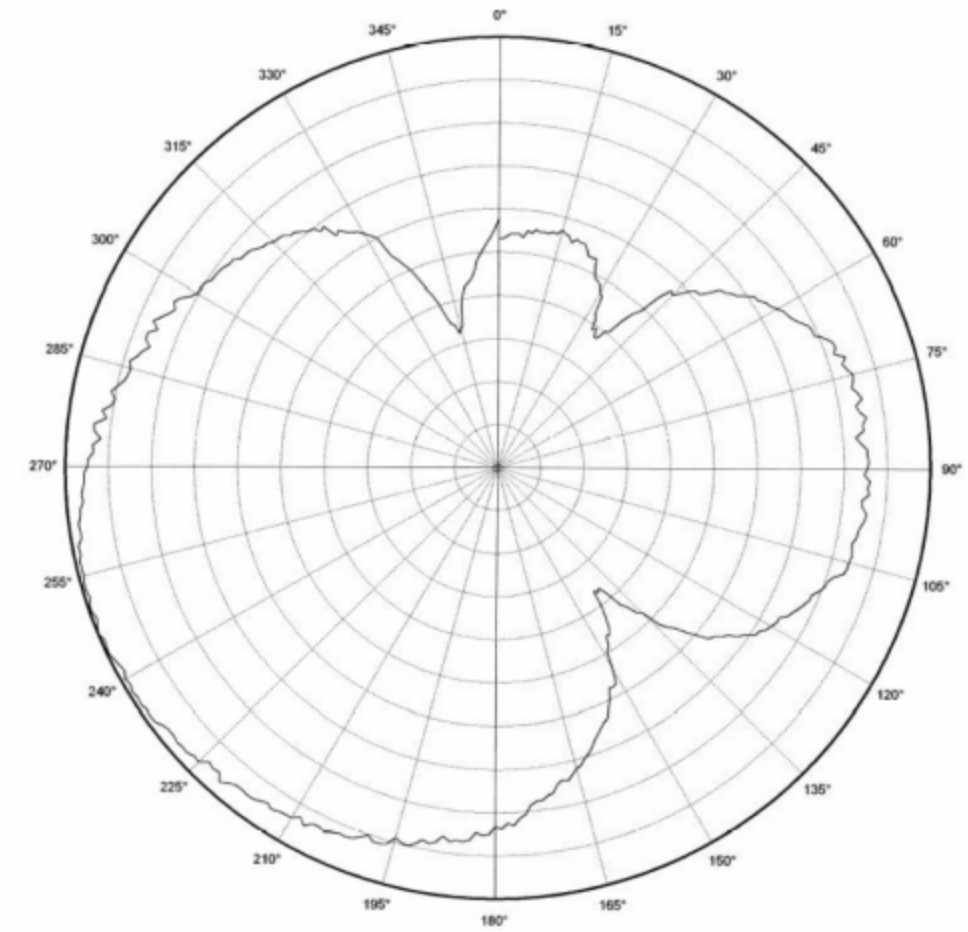


Figure 3: Antenna Dimensions

L1	3.94 mm
L2	2.70 mm
L3	5.00 mm
L4	2.64 mm
L5	2.00 mm
L6	4.90 mm
W1	0.90 mm
W2	0.50 mm
D1	0.50 mm
D2	0.30 mm
D3	0.30 mm
D4	0.50 mm
D5	1.40mm
D6	1.70 mm

Table 1: Antenna Dimensions

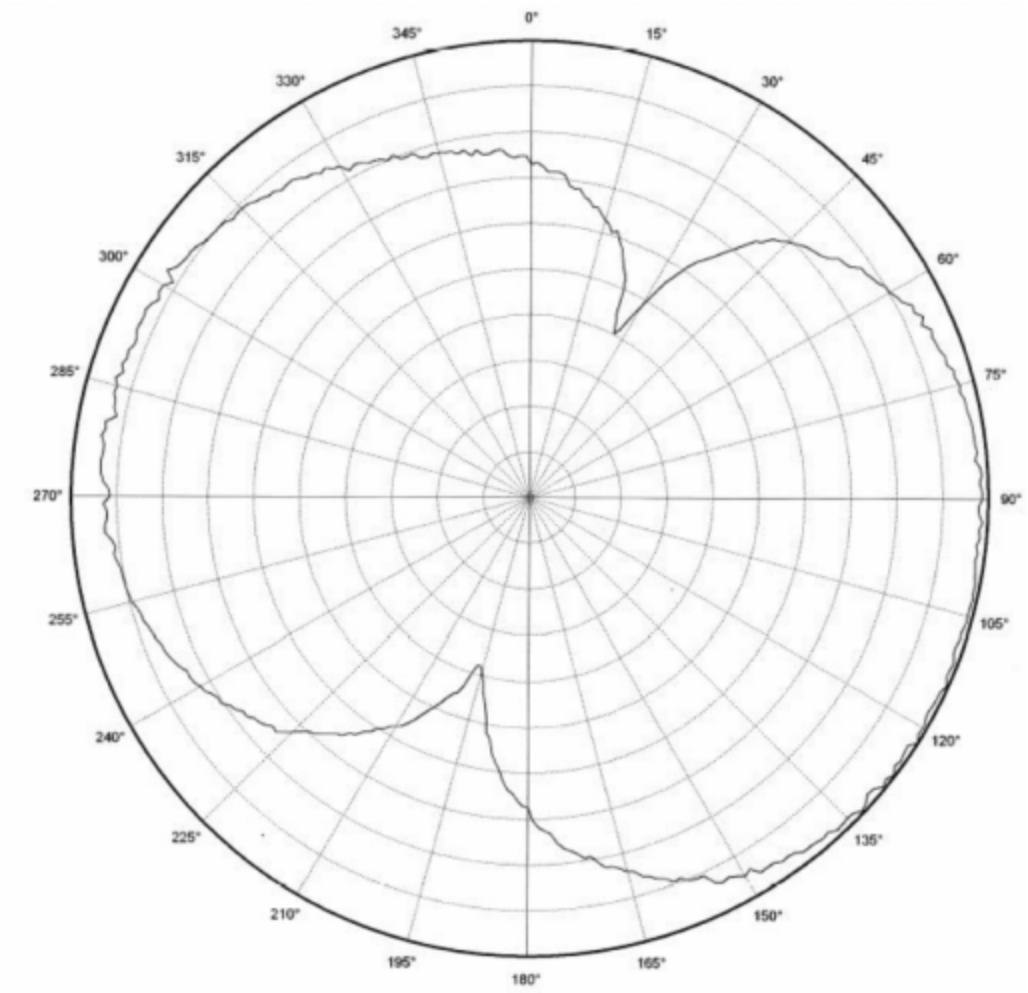
二、 Gain pattern



Vertical Polarization

usb XY

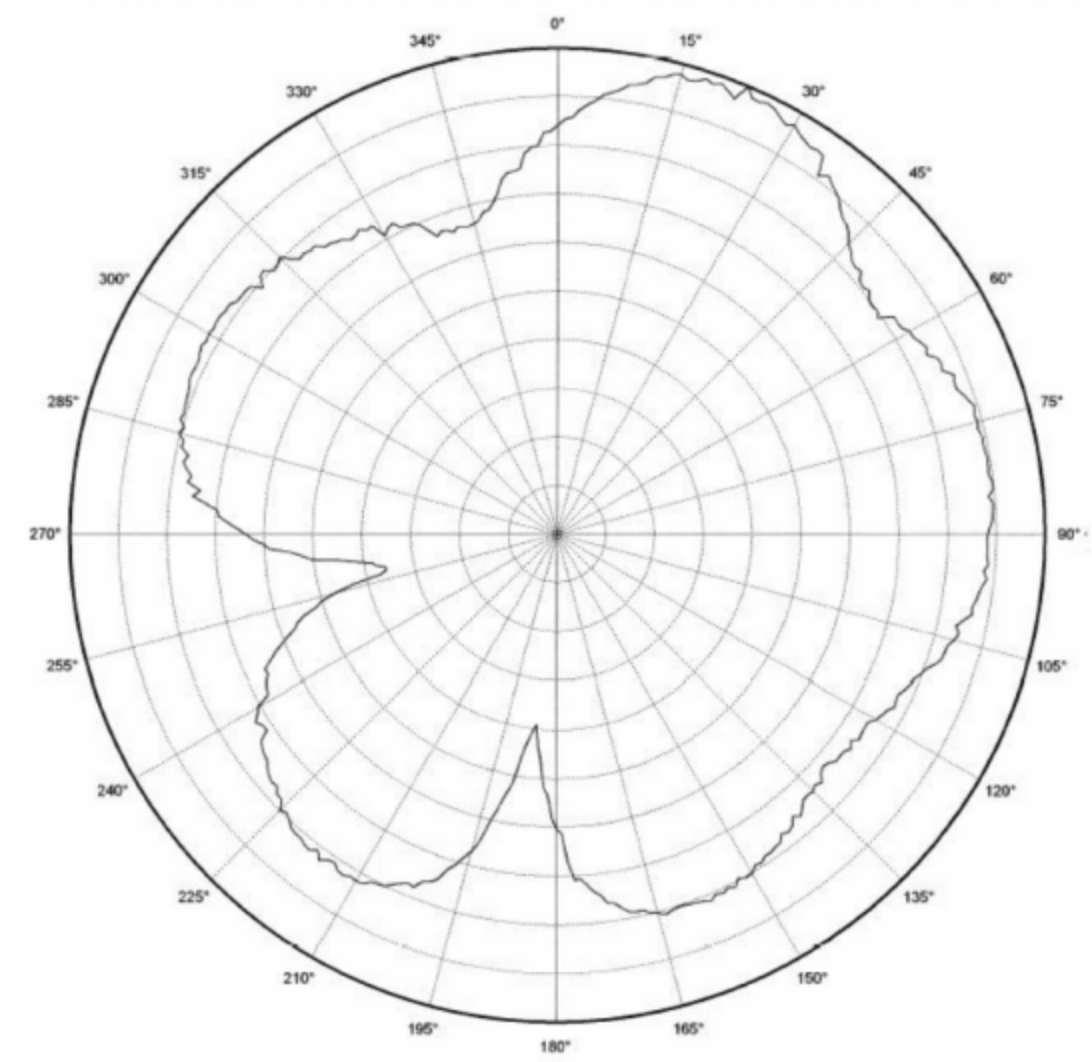
CF 2450.000 MHz
4 dB/ div
Ref Lev: -2,5 dBm



Horisontal Polarization

usb XY

CF 2450.000 MHz
5 dB/ div
Ref Lev: 4,5 **dBm**



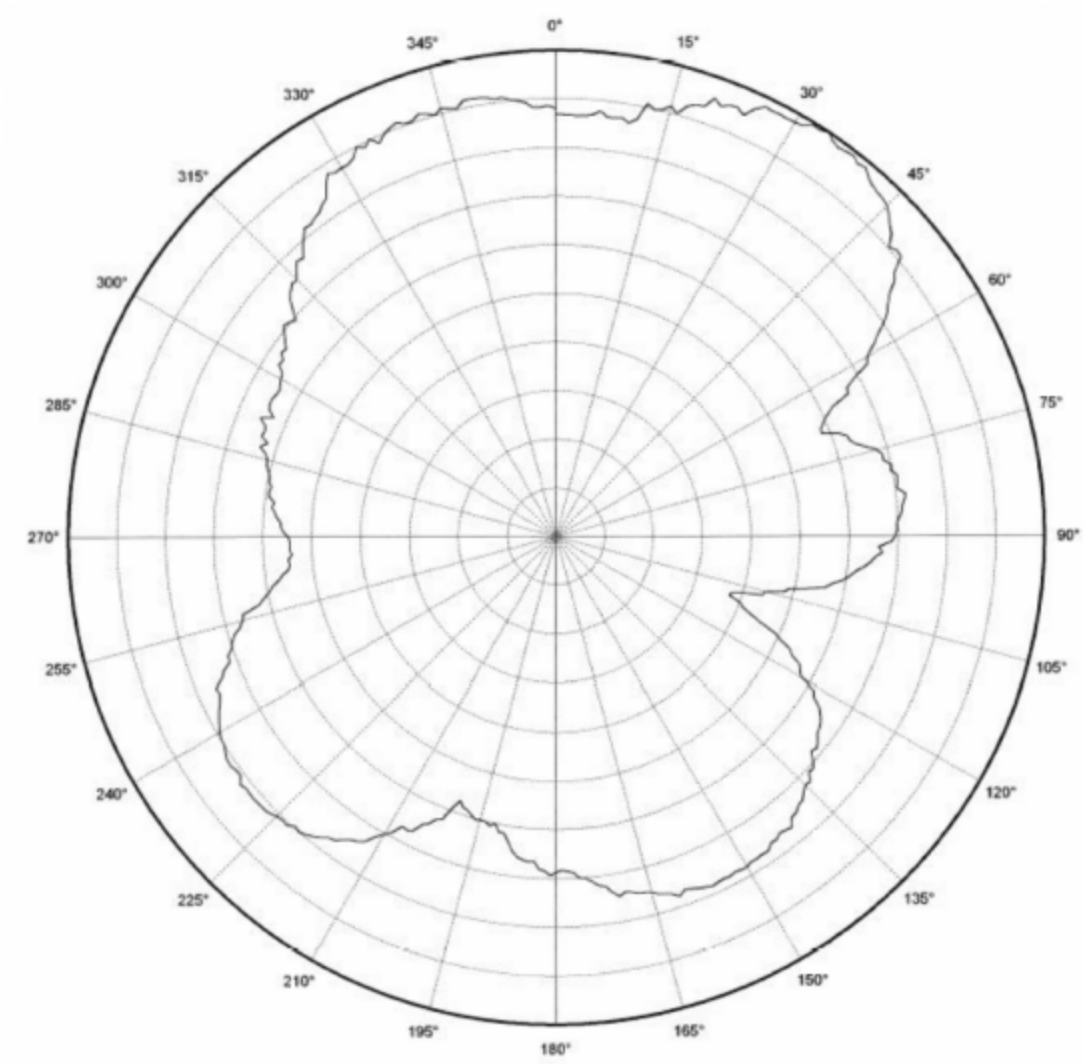
Vertical Polarization

usb XZ

CF 2450.000 MHz

4 dB/ div

Ref Lev: 2.2 dBm



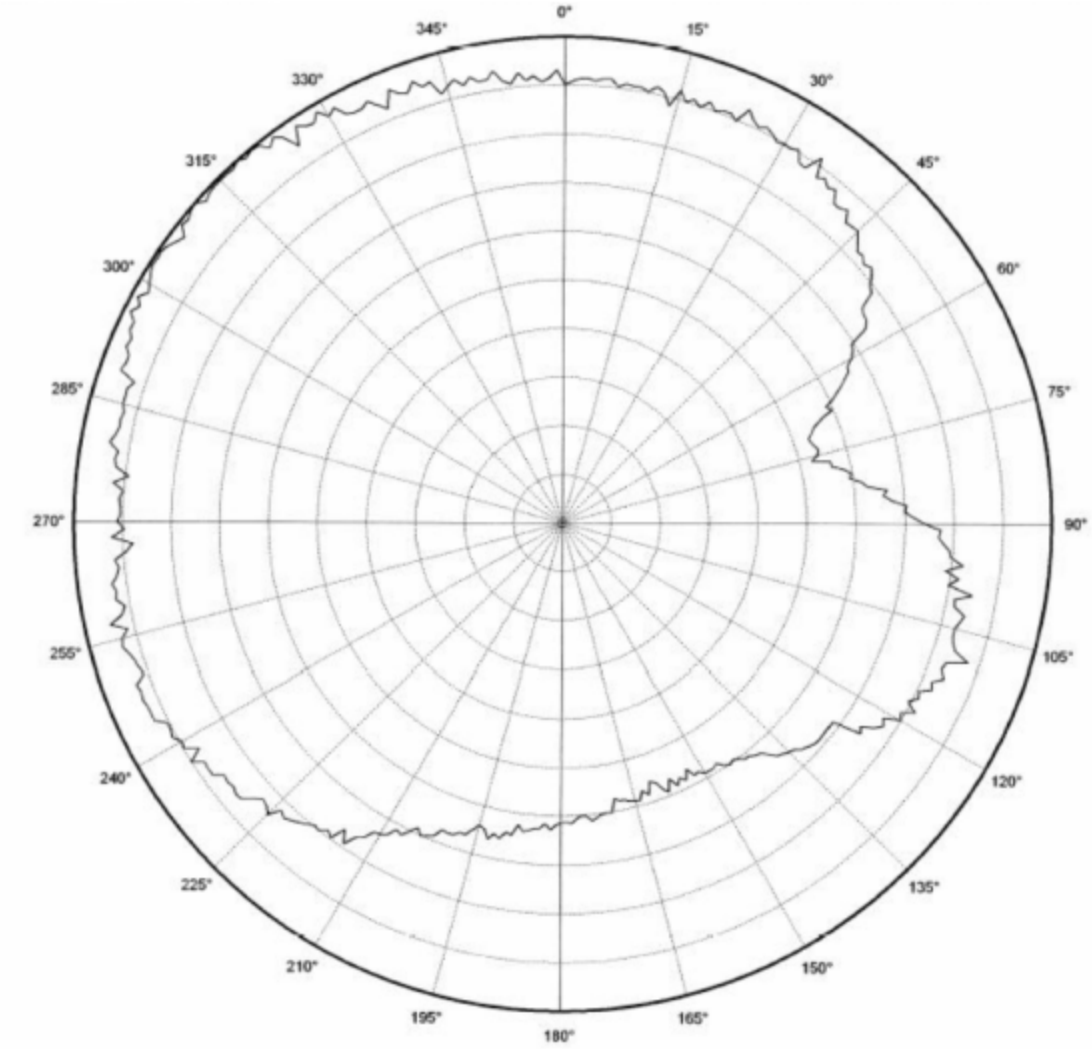
Horisontal Polarization

usb XZ

CF 2450.000 MHz

4 dB/ div

Ref Lev: 5.3 dBm



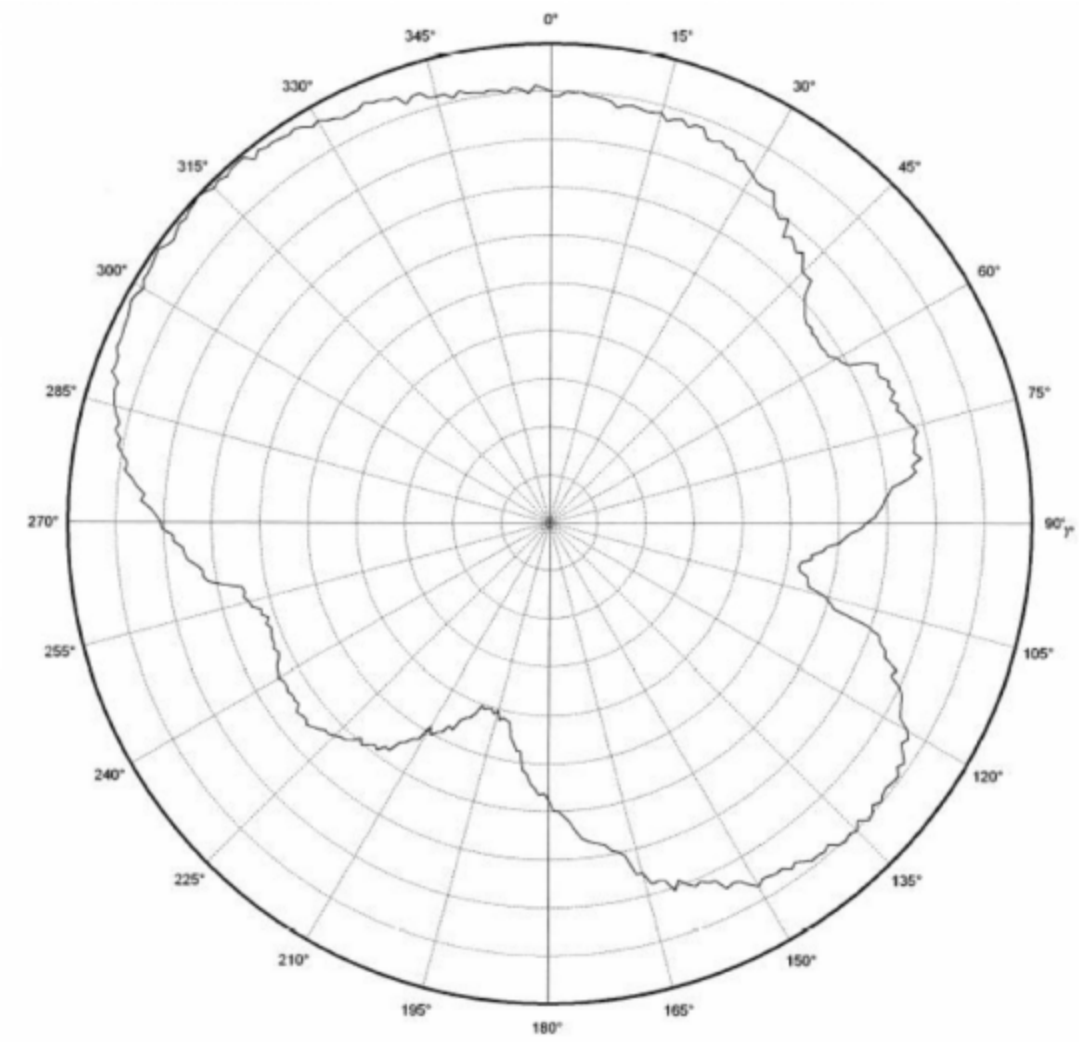
Vertical Polarization

usb YZ

CF 2450.000 MHz

2 dB/ div

Ref Lev: +5,3 dBm



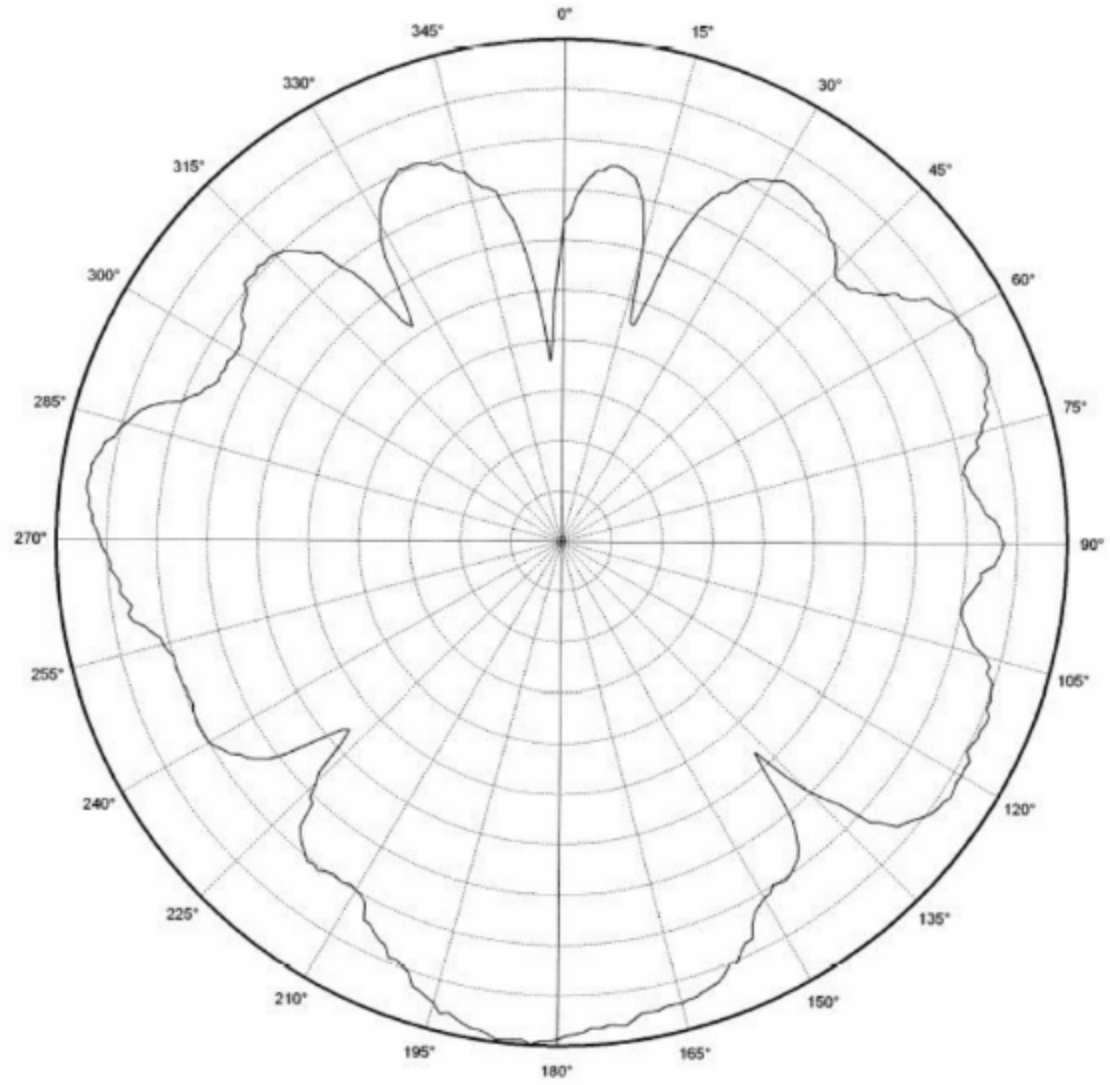
Horisontal Polarization

usb YZ

CF 2450.000 MHz

3 dB/ div

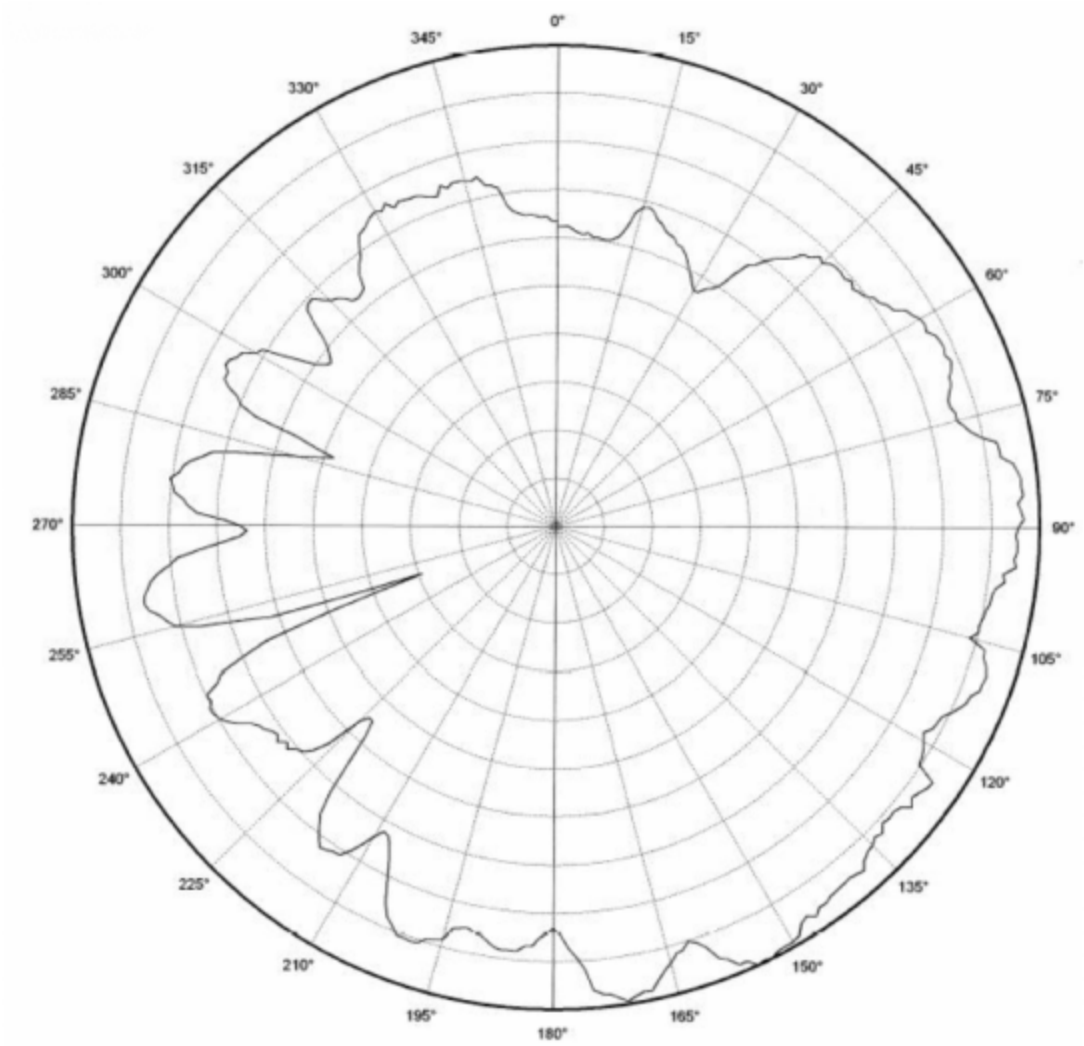
Ref Lev: -1,2 dBm



'ertical Polarization

aptop USB XY

CF 2450.000 MHz
5 dB/ div
Ref Lev: -2.0 dBm



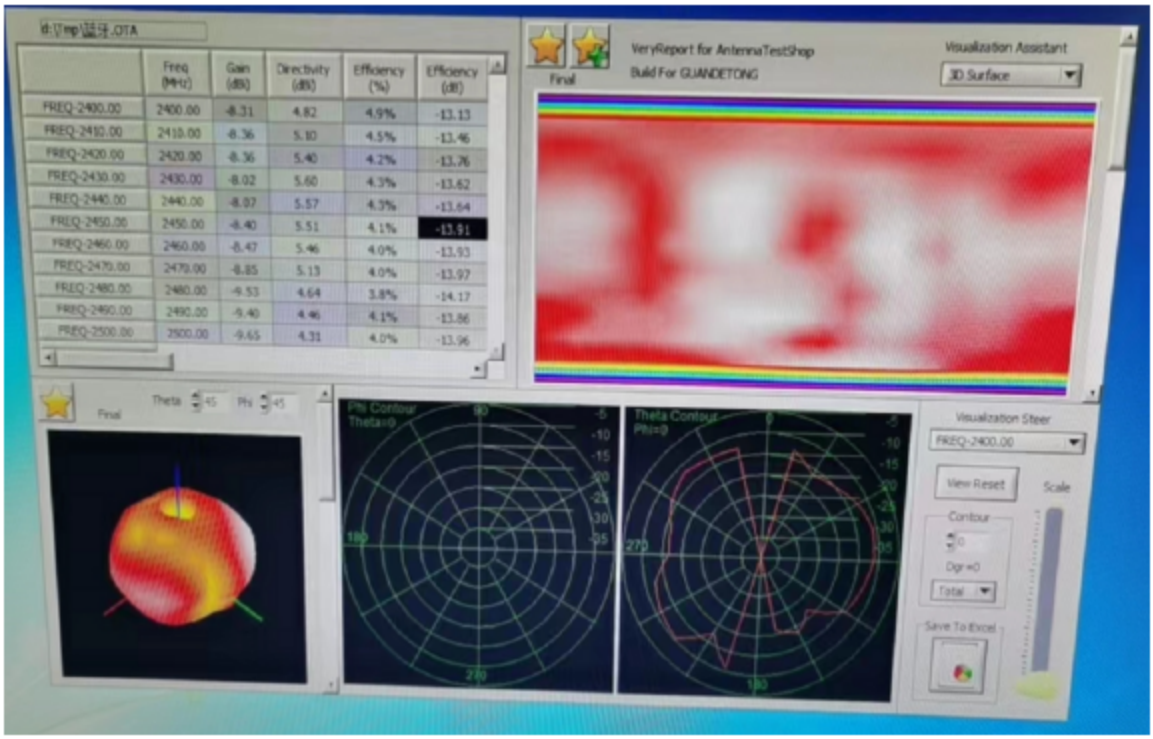
Horisontal Polarization

Laptop USB XY

CF 2450.000 MHz
4 dB/ div
Ref Lev: 3.3 dBm

三、Efficiency&Gain

FEITUKEJI											
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
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-13.13	-13.46	-13.76	-13.62	-13.64	-13.91	-13.93	-13.97	-14.17	-13.86	-13.96
Peak EIRP (dBm)	-8.31	-8.36	-8.36	-8.02	-8.07	-8.40	-8.47	-8.85	-9.53	-9.40	-9.65
Directivity (dBi)	4.82	5.10	5.40	5.60	5.57	5.51	5.46	5.13	4.64	4.46	4.31
Efficiency (dB)	-13.13	-13.46	-13.76	-13.62	-13.64	-13.91	-13.93	-13.97	-14.17	-13.86	-13.96
Efficiency (%)	4.90	4.50	4.20	4.30	4.30	4.10	4.00	4.00	3.80	4.10	4.00
Gain (dBi)	-8.31	-8.36	-8.36	-8.02	-8.07	-8.40	-8.47	-8.85	-9.53	-9.40	-9.65
NHPRP ±Pi/4 (dBm)	-13.75	-13.84	-13.88	-13.57	-13.64	-13.91	-13.94	-14.18	-14.75	-14.51	-14.66
NHPRP ±Pi/6 (dBm)	-15.05	-15.12	-15.14	-14.83	-14.91	-15.18	-15.22	-15.46	-16.04	-15.79	-15.94
NHPRP ±Pi/8 (dBm)	-16.03	-16.08	-16.10	-15.80	-15.90	-16.19	-16.24	-16.49	-17.07	-16.80	-16.94
Upper Hem. PRP (dBm)	-15.88	-16.18	-16.45	-16.27	-16.25	-16.50	-16.49	-16.53	-16.71	-16.37	-16.45
Lower Hem. PRP (dBm)	-16.42	-16.78	-17.12	-17.03	-17.10	-17.39	-17.45	-17.49	-17.70	-17.43	-17.56
Upper Hem. PRP (%)	2.59	2.41	2.27	2.36	2.37	2.24	2.24	2.22	2.13	2.31	2.26
Lower Hem. PRP (%)	2.28	2.10	1.94	1.98	1.95	1.83	1.80	1.78	1.70	1.81	1.76


D:\Tmp\温场.OTA
Freq (MHz)
Gain (dBi)
Directivity (dBi)
Efficiency (%)
Efficiency (dB)
FREQ-2400.00 2400.00 -8.31 4.82 4.9% -13.13
FREQ-2410.00 2410.00 -8.36 5.10 4.5% -13.46
FREQ-2420.00 2420.00 -8.36 5.40 4.2% -13.76
FREQ-2430.00 2430.00 -8.02 5.60 4.3% -13.62
FREQ-2440.00 2440.00 -8.07 5.57 4.3% -13.64
FREQ-2450.00 2450.00 -8.40 5.51 4.1% -13.91
FREQ-2460.00 2460.00 -8.47 5.46 4.0% -13.93
FREQ-2470.00 2470.00 -8.85 5.13 4.0% -13.97
FREQ-2480.00 2480.00 -9.53 4.64 3.8% -14.17
FREQ-2490.00 2490.00 -9.40 4.46 4.1% -13.86
FREQ-2500.00 2500.00 -9.65 4.31 4.0% -13.96
Final
VeryReport for AntennaTestShop
Build For GUANDETONG
Visualization Assistant
3D Surface
Final
Theta 45 Phi 45
Phi Contour
Theta=0
Theta Contour
Phi=0
Visualization Steer
FREQ-2400.00
View Reset
Scale
Contour
Dgr=0
Total
Save To Excel