

Qingyuan Qi Sheng Technology Co., Ltd
ANT TEST

list

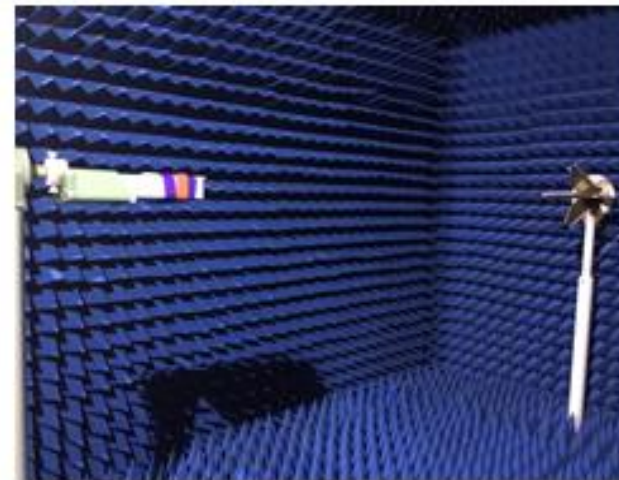
- 1、testing environment
- 2、Circuit
- 3、test data
- 4、The position of the antenna on the PCB board
- 5、3D pattern

Qingyuan Qi Sheng Technology Co., Ltd

1、 TESTING ENVIRONMENT

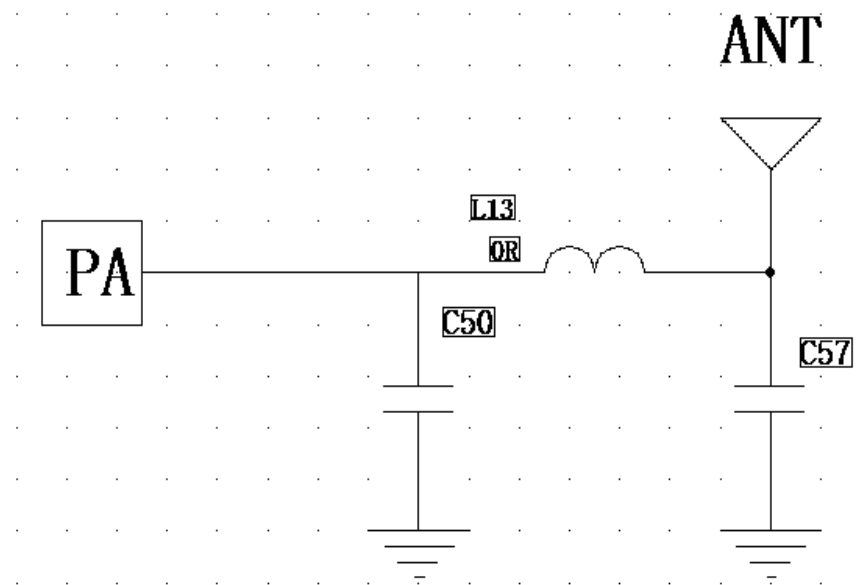
	TEST ITEM	Instrument and equipment
1、 S-parameter	1、 Return Loss 2、 Voltage standing wave ratio (VSWR)	Network analysis instrument: Agilent E5071B HP 8753D
2、 Active testing	1、 Transmission power (TRP) 2、 Receiving sensitivity 3、 Frequency error range	1. Testing room: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Network analysis instrument: Agilent 8960 E5515B ×2 StarPoint SP6011
3、 Passive Test	1、 Antenna gain 2、 Efficiency	1. Testing room: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Network analysis instrument Agilent E5071B HP 8753D

Qingyuan Qi Sheng Technology Co., Ltd



Qingyuan Qi Sheng Technology Co., Ltd

2、Circuit

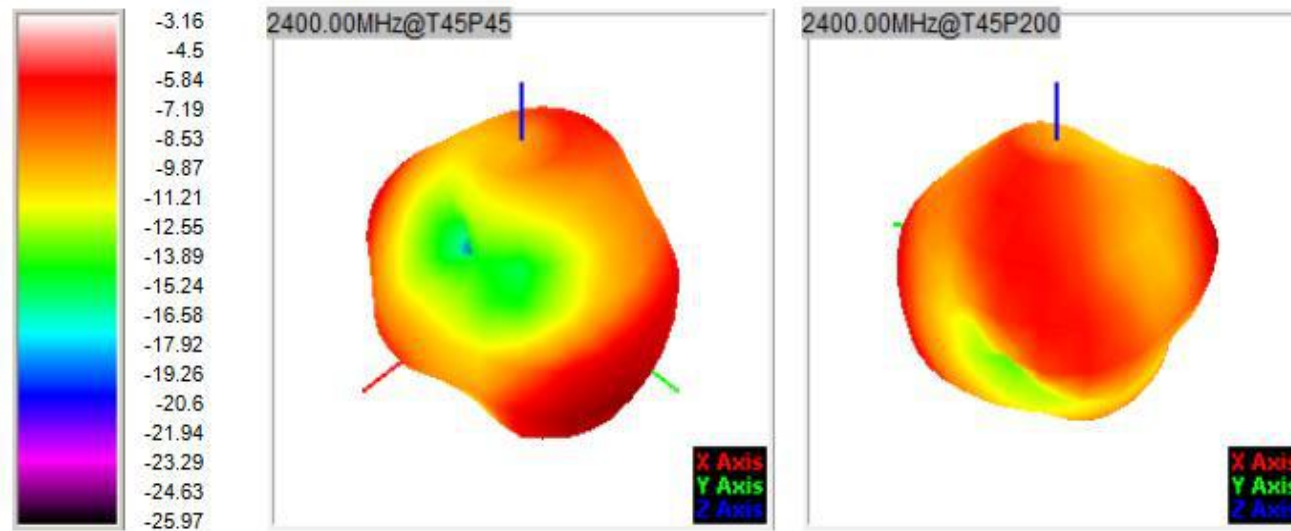


Qingyuan Qi Sheng Technology Co., Ltd

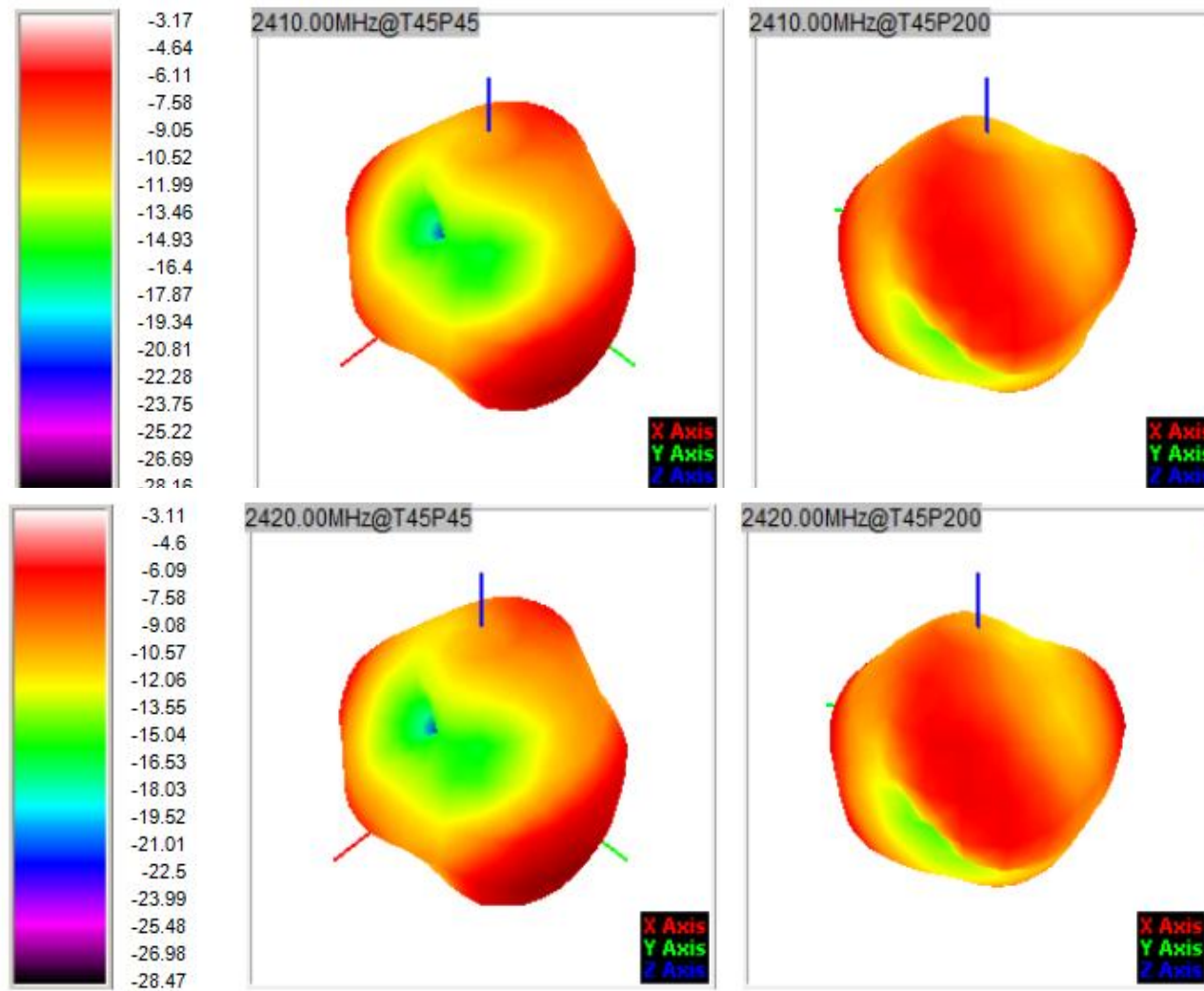
3、Passive efficiency and gain data of antenna

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)	-8.00	-8.03	-8.07	-8.17	-8.16	-8.09	-8.05	-8.10	-8.19	-8.25	-8.30
Peak EIRP (dBm)	-3.16	-3.17	-3.11	-3.23	-3.46	-2.99	-2.60	-2.53	-2.73	-3.08	-3.07
Directivity (dBi)	4.84	4.86	4.97	4.94	4.71	5.10	5.44	5.57	5.46	5.17	5.24
Efficiency (dB)	-8.00	-8.03	-8.07	-8.17	-8.16	-8.09	-8.05	-8.10	-8.19	-8.25	-8.30
Efficiency (%)	15.90	15.70	15.60	15.20	15.30	15.50	15.70	15.50	15.20	15.00	14.80
Gain (dBi)	-3.16	-3.17	-3.11	-3.23	-3.46	-2.99	-2.60	-2.53	-2.73	-3.08	-3.07
NHPRP $\pm$ Pi/4 (dBm)	-9.34	-9.34	-9.34	-9.40	-9.38	-9.32	-9.31	-9.40	-9.52	-9.59	-9.63
NHPRP $\pm$ Pi/6 (dBm)	-10.53	-10.53	-10.53	-10.59	-10.57	-10.50	-10.48	-10.57	-10.69	-10.75	-10.78
NHPRP $\pm$ Pi/8 (dBm)	-11.38	-11.38	-11.38	-11.45	-11.44	-11.37	-11.33	-11.40	-11.49	-11.53	-11.55
Upper Hem. PRP (dBm)	-10.99	-11.00	-11.07	-11.23	-11.30	-11.33	-11.38	-11.51	-11.62	-11.64	-11.55
Lower Hem. PRP (dBm)	-11.02	-11.08	-11.10	-11.13	-11.05	-10.88	-10.75	-10.74	-10.82	-10.91	-11.09
Upper Hem. PRP (%)	7.96	7.94	7.81	7.53	7.41	7.36	7.27	7.07	6.88	6.86	6.99
Lower Hem. PRP (%)	7.90	7.80	7.77	7.71	7.85	8.17	8.41	8.43	8.28	8.11	7.78

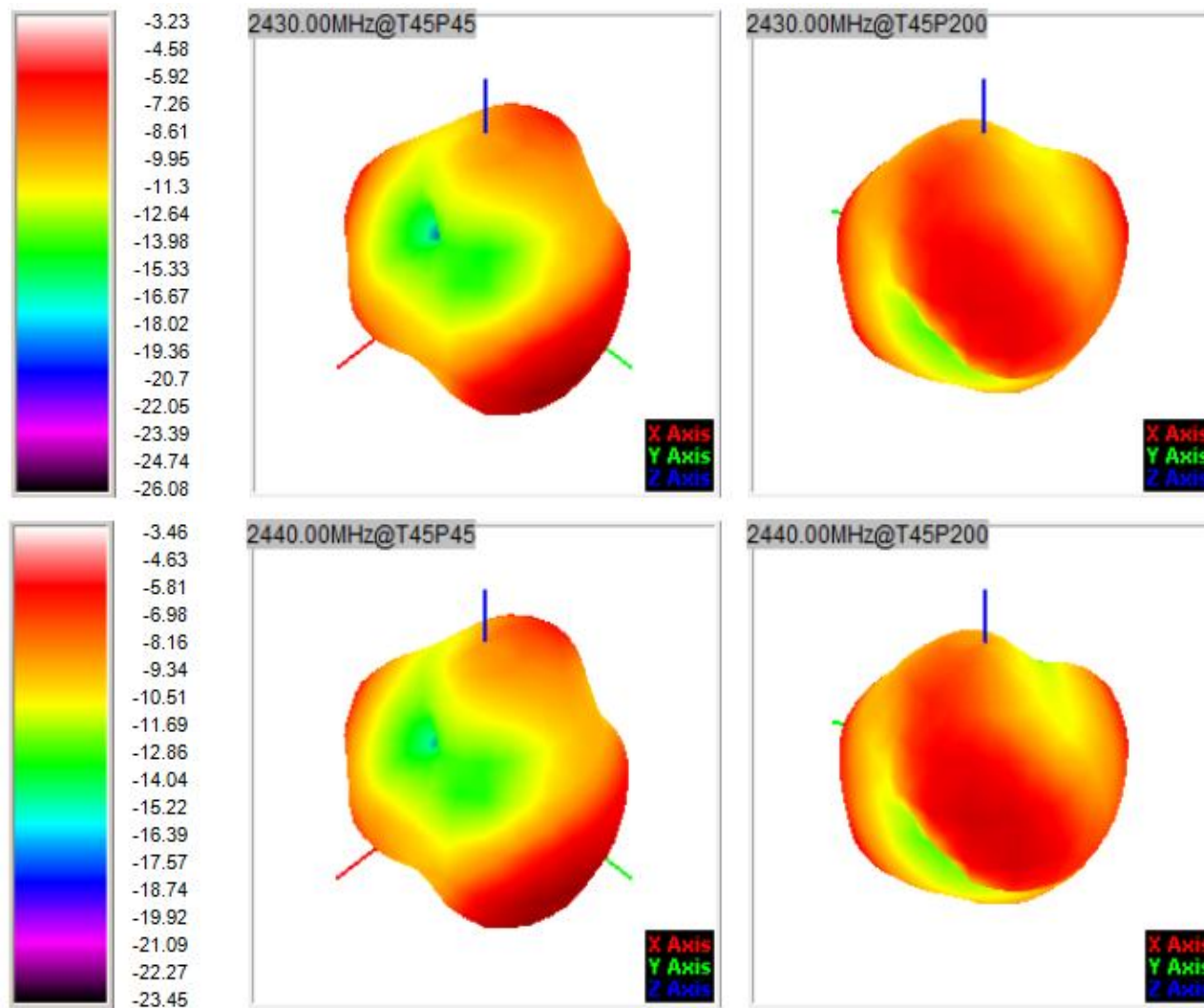
5、3D pattern



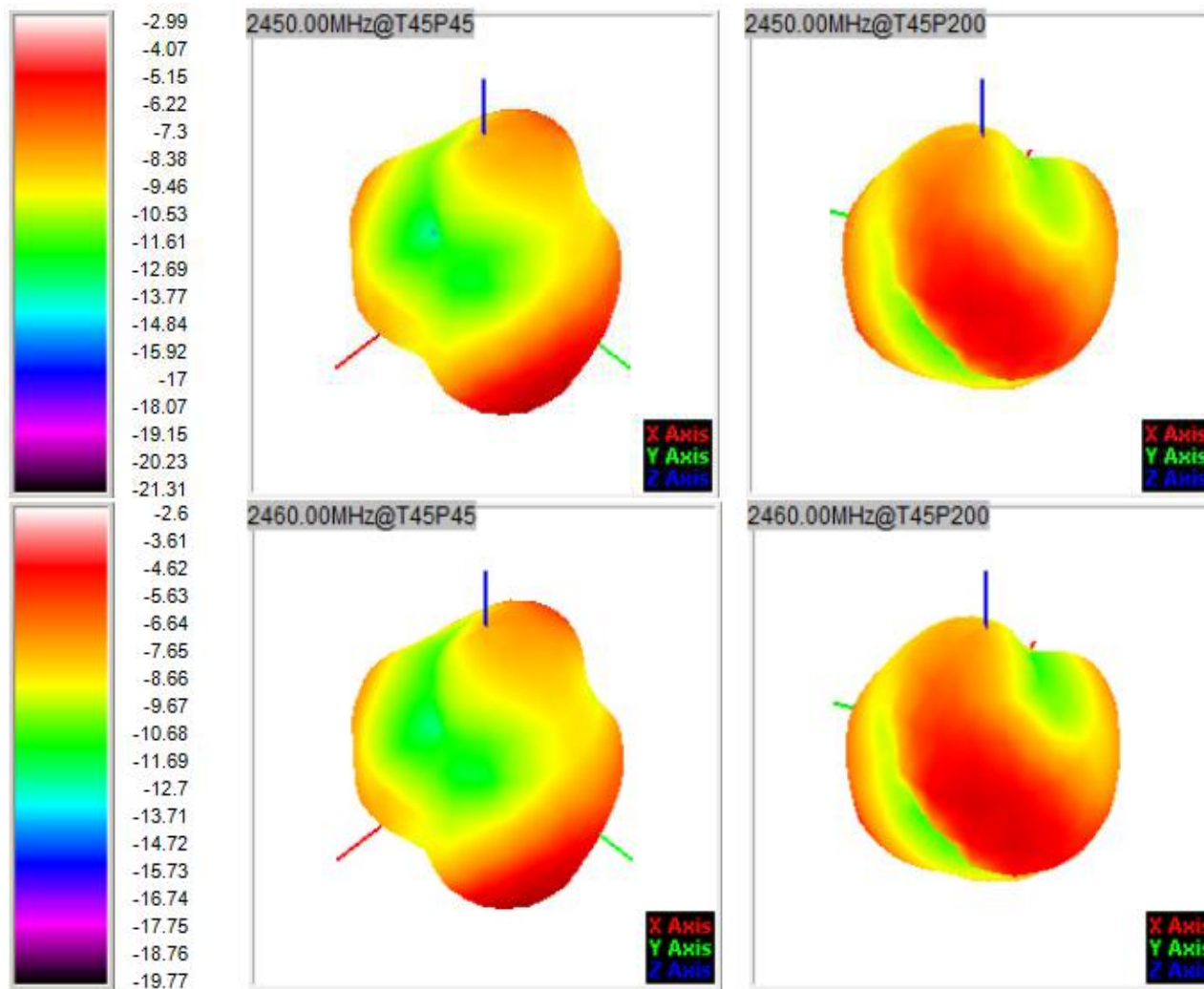
Qingyuan Qi Sheng Technology Co., Ltd



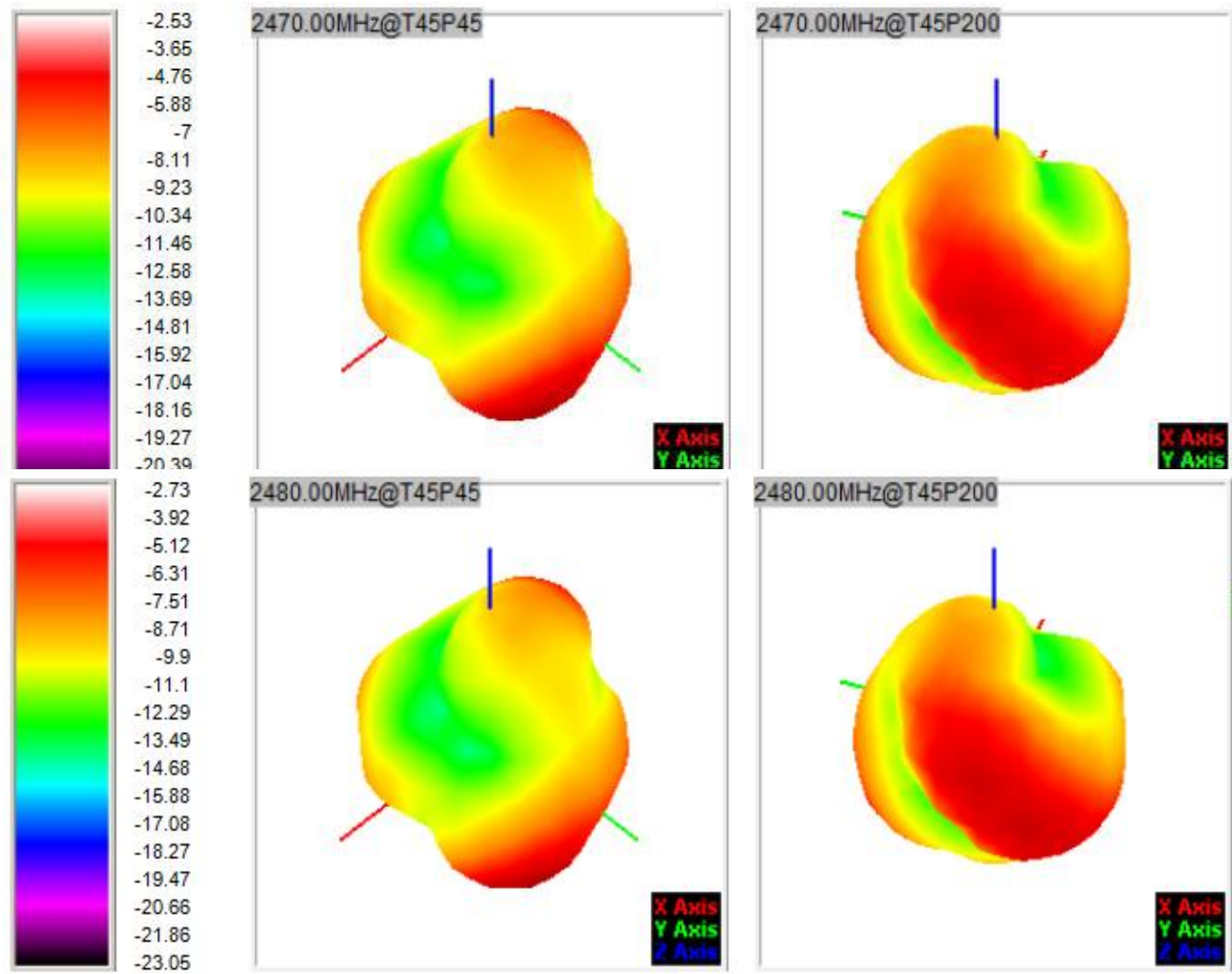
Qingyuan Qi Sheng Technology Co., Ltd



Qingyuan Qi Sheng Technology Co., Ltd



Qingyuan Qi Sheng Technology Co., Ltd



Qingyuan Qi Sheng Technology Co., Ltd

