

Antenna report

Manufacturer: Shenzhen Utour Innov Tech Co., Ltd.

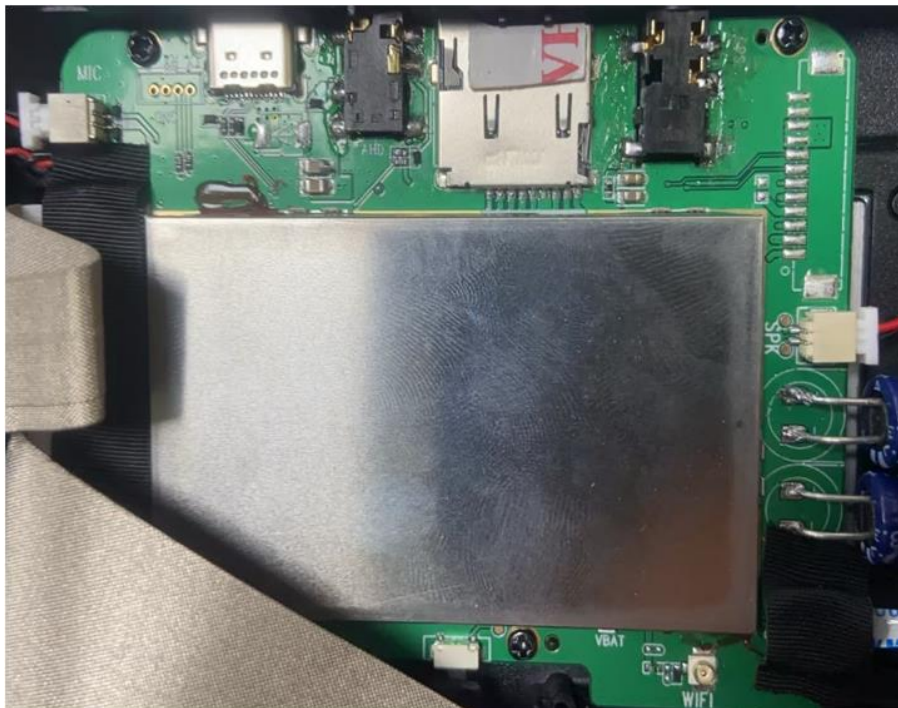
Address: Room 303, Unit 1, No. 3000054 Xinhua Road, Niuhe Community, Guanlan Street, Longhua District, Shenzhen City

1、 Antenna matching

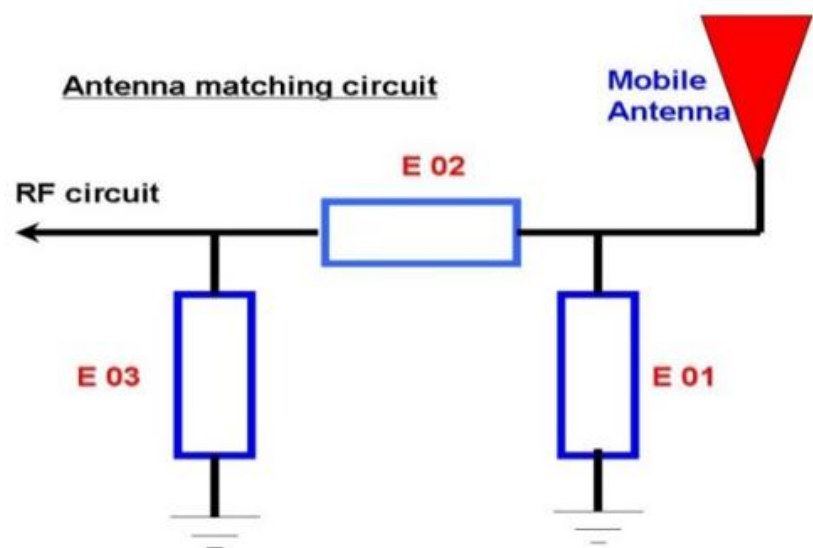
Photo 1 complete machine



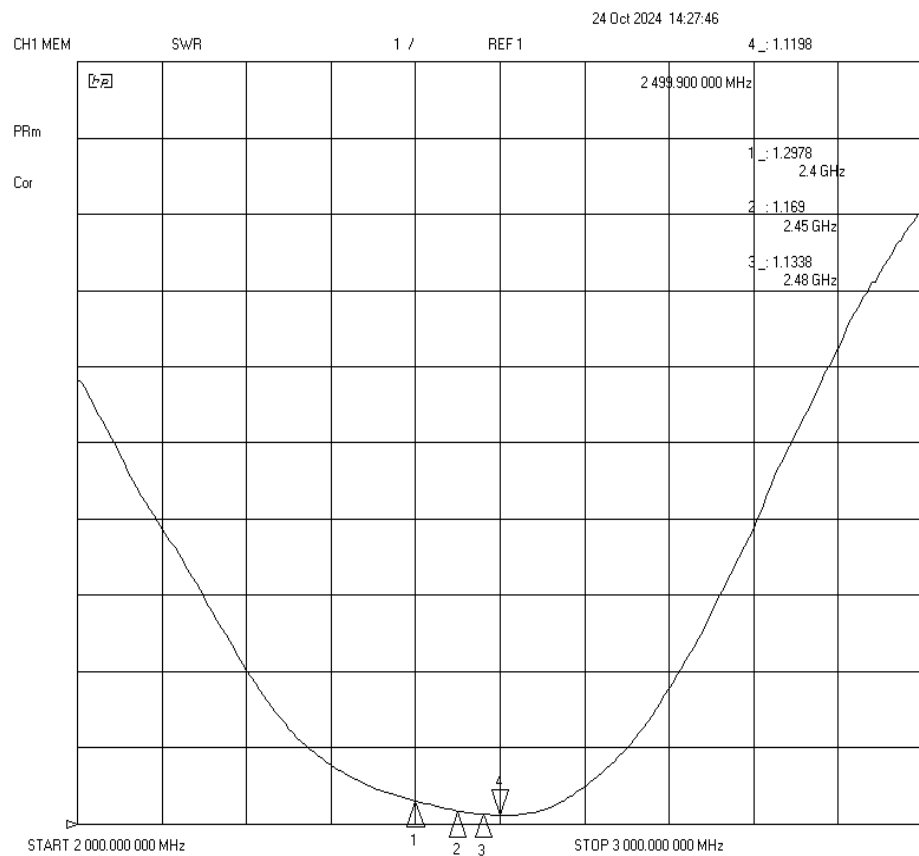
Photo 2 Main PCB



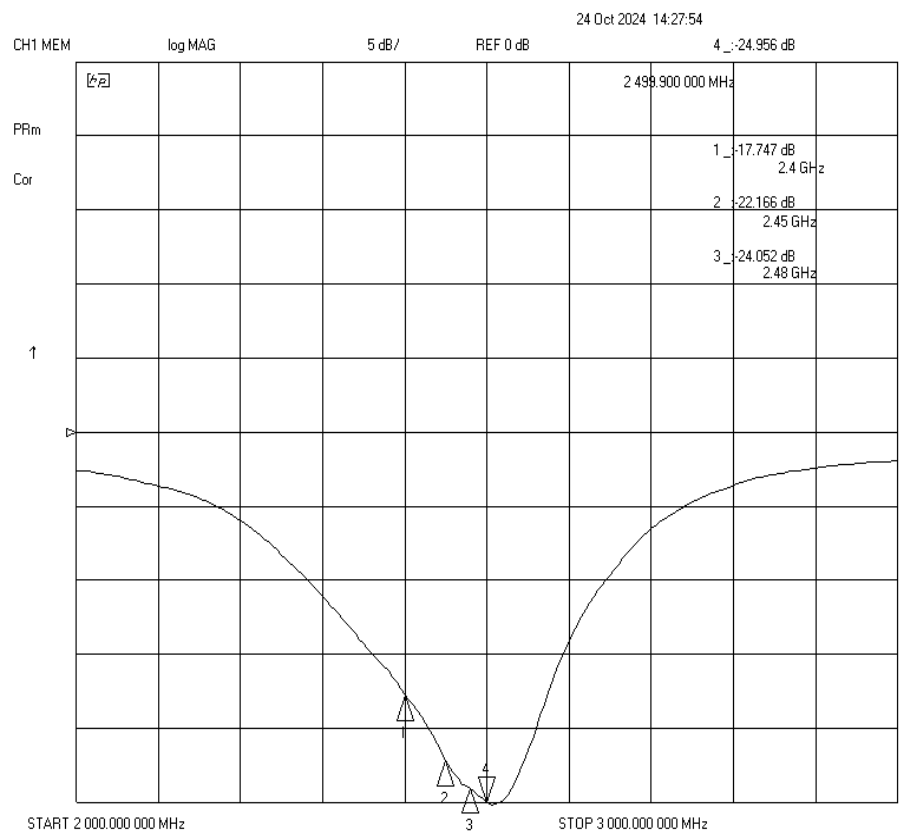
Main antenna matching



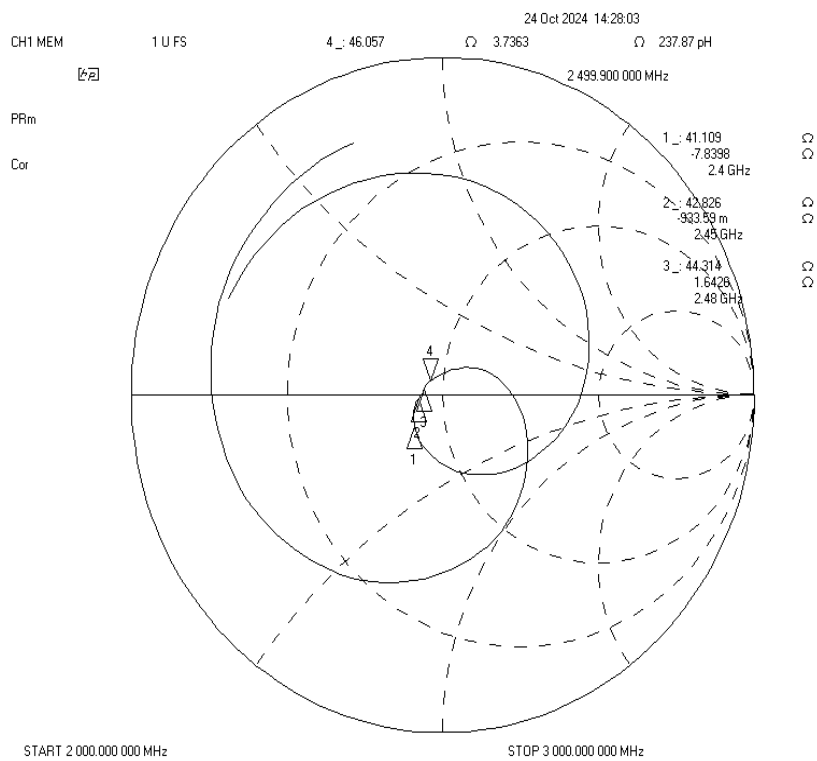
2、 Antenna S11 value
standing wave:



return loss:



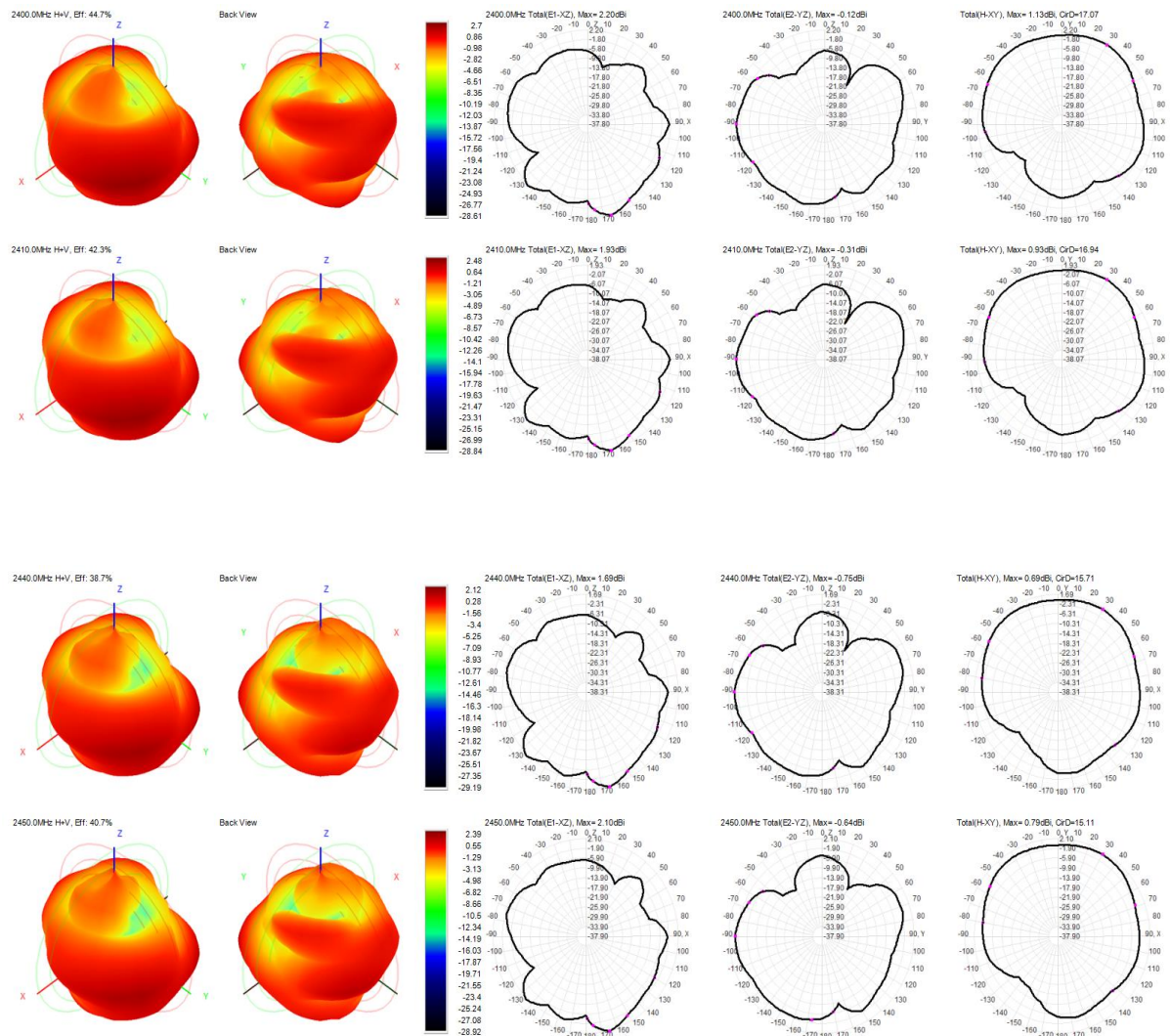
Smith:

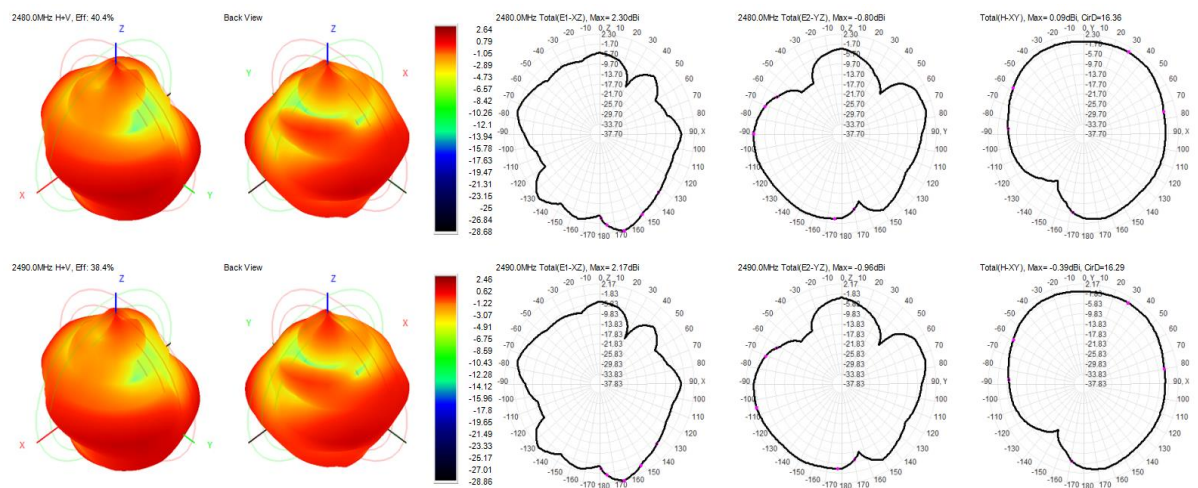


3、 Antenna Gain

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)	-3.50	-3.73	-3.62	-3.79	-4.12	-3.91	-3.98	-4.19	-3.94	-4.16	-4.32
Gain (dBi)	2.70	2.48	2.54	2.43	2.12	2.39	2.46	2.29	2.64	2.46	2.35
Efficiency (%)	44.72	42.35	43.42	41.81	38.69	40.66	40.04	38.08	40.38	38.41	37.02
Directivity (dB)	6.20	6.21	6.17	6.22	6.25	6.30	6.43	6.49	6.57	6.62	6.67
Peak Gain Position (Theta)	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00
Peak Gain Position (Phi)	150.00	150.00	150.00	150.00	150.00	165.00	165.00	165.00	165.00	165.00	165.00
Efficiency ThetaPol (%)	29.95	28.51	29.75	28.80	26.71	27.67	27.03	25.67	26.76	25.14	23.80
Efficiency PhiPol (%)	14.77	13.84	13.68	13.01	11.98	12.99	13.01	12.41	13.62	13.27	13.22
Upper Hem. Efficiency (%)	20.52	19.14	19.22	18.13	16.54	17.21	16.83	15.88	16.73	15.78	15.03
Lower Hem. Efficiency (%)	24.19	23.21	24.21	23.68	22.15	23.45	23.20	22.20	23.64	22.63	21.99

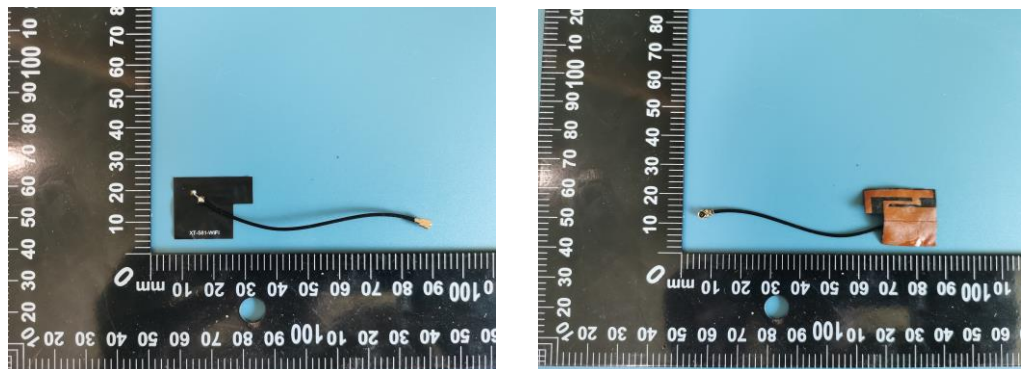
2D/3D:





4、 Antenna Type: PIFA

5、 Antenna size:



Size: 22 * 20 mm, cable length: 80mm