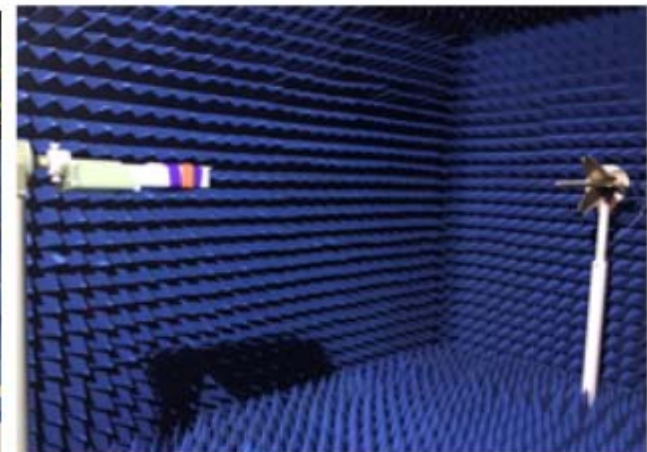
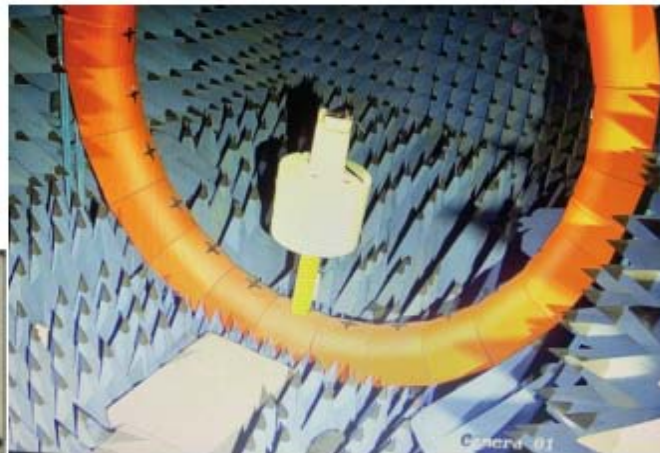




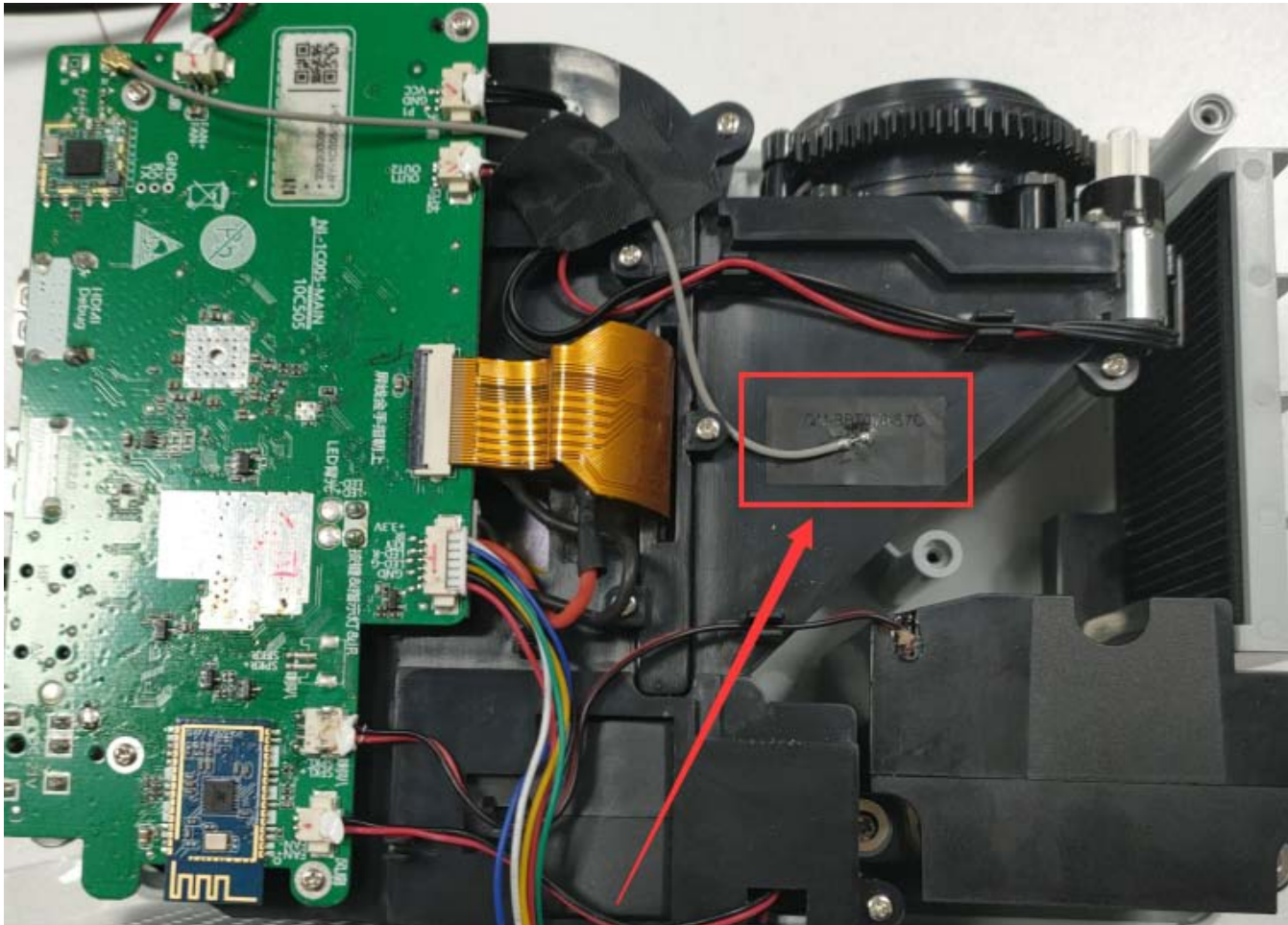
深圳市千目通讯科技有限公司

Shenzhen Qianmu Communication Technology Co., Ltd.





Antenna placement



Antenna(Model: RTA)



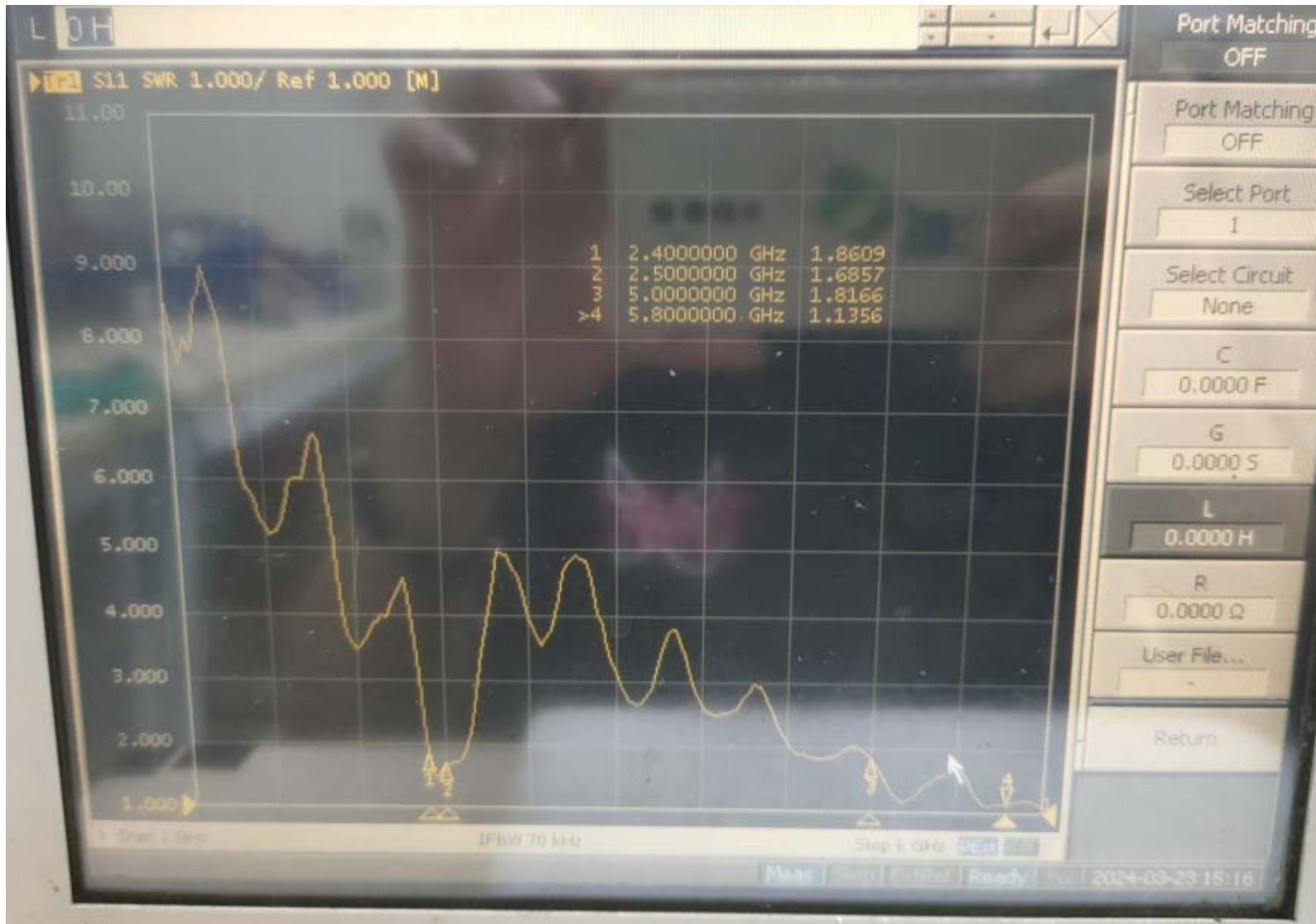
Active power test data

Antenna state	FPC sample		
	WIFI 2400~2500MHz 802.11b 11Mbps		
Channel	1	6	11
TRP	15.68	15.47	14.66
TIS	-70.4	-70.19	-73.4

Antenna state	FPC sample		
	WIFI 5000~5800MHz 802.11a 54Mbps		
Channel	36	161	165
TRP	11.49	11.22	11.62
TIS	-68.58	-68.88	-68.67



WIFI antenna passive standing wave diagram





Test result

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)	-2.89	-2.79	-2.62	-2.63	-2.49	-2.43	-2.25	-2.31	-2.36	-2.40	-2.41
Peak EIRP (dBm)	4.31	4.38	4.41	4.21	4.21	4.09	4.11	3.87	3.68	3.73	3.91
Directivity (dBi)	7.20	7.17	7.03	6.84	6.70	6.51	6.35	6.18	6.04	6.13	6.32
Efficiency (dB)	-2.89	-2.79	-2.62	-2.63	-2.49	-2.43	-2.25	-2.31	-2.36	-2.40	-2.41
Efficiency (%)	51.40	52.70	54.70	54.60	56.40	57.20	59.60	58.80	58.10	57.60	57.50
Gain (dBi)	4.31	4.38	4.41	4.21	4.21	4.09	4.11	3.87	3.68	3.73	3.91
NHPRP $\pm\pi/4$ (dBm)	-4.57	-4.46	-4.27	-4.26	-4.10	-4.01	-3.79	-3.81	-3.81	-3.81	-3.80
NHPRP $\pm\pi/6$ (dBm)	-6.17	-6.04	-5.83	-5.78	-5.60	-5.49	-5.25	-5.26	-5.25	-5.24	-5.21
NHPRP $\pm\pi/8$ (dBm)	-7.35	-7.22	-7.00	-6.94	-6.75	-6.64	-6.41	-6.41	-6.38	-6.34	-6.28
Upper Hem. PRP (dBm)	-7.56	-7.42	-7.22	-7.21	-7.06	-6.98	-6.83	-6.88	-6.89	-6.89	-6.83
Lower Hem. PRP (dBm)	-4.71	-4.62	-4.47	-4.49	-4.36	-4.30	-4.10	-4.17	-4.24	-4.30	-4.35
Upper Hem. PRP (%)	17.54	18.10	18.97	19.02	19.68	20.02	20.75	20.53	20.45	20.45	20.74
Lower Hem. PRP (%)	33.83	34.55	35.77	35.55	36.68	37.18	38.87	38.26	37.68	37.13	36.72

**FEITUKEJI**

Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
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	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-3.69	-3.76	-3.75	-3.64	-4.17	-4.20	-3.77	-4.17	-4.15	-3.67	-4.01	-3.95	-3.69	-3.69	-3.76
Peak EIRP (dBm)	2.55	2.52	2.32	2.47	2.13	2.09	2.49	2.04	2.28	2.95	2.55	2.64	2.55	2.39	2.66
Directivity (dBi)	6.24	6.28	6.07	6.11	6.30	6.30	6.26	6.21	6.43	6.61	6.56	6.59	6.23	6.08	6.41
Efficiency (dB)	-3.69	-3.76	-3.75	-3.64	-4.17	-4.20	-3.77	-4.17	-4.15	-3.67	-4.01	-3.95	-3.69	-3.69	-3.76
Efficiency (%)	42.80	42.10	42.20	43.20	38.30	38.00	42.00	38.30	38.50	43.00	39.70	40.20	42.80	42.80	42.10
Gain (dBi)	2.55	2.52	2.32	2.47	2.13	2.09	2.49	2.04	2.28	2.95	2.55	2.64	2.55	2.39	2.66
NHPRP $\pm\pi/4$ (dBm)	-4.94	-5.09	-5.16	-5.01	-5.54	-5.68	-5.20	-5.59	-5.58	-5.01	-5.34	-5.29	-5.05	-5.05	-5.09
NHPRP $\pm\pi/6$ (dBm)	-6.23	-6.40	-6.51	-6.36	-6.92	-7.18	-6.66	-7.06	-7.09	-6.44	-6.77	-6.74	-6.49	-6.55	-6.64
NHPRP $\pm\pi/8$ (dBm)	-7.16	-7.36	-7.50	-7.30	-7.91	-8.25	-7.71	-8.18	-8.23	-7.52	-7.88	-7.87	-7.63	-7.76	-7.87
Upper Hem. PRP (dBm)	-7.68	-7.59	-7.68	-7.68	-7.95	-7.96	-7.54	-7.80	-7.78	-7.33	-7.56	-7.52	-7.20	-7.08	-7.27
Lower Hem. PRP (dBm)	-5.90	-6.08	-6.01	-5.82	-6.53	-6.58	-6.14	-6.64	-6.61	-6.11	-6.54	-6.47	-6.25	-6.35	-6.32
Upper Hem. PRP (%)	17.07	17.40	17.08	17.07	16.04	15.99	17.61	16.61	16.67	18.48	17.52	17.69	19.04	19.61	18.73
Lower Hem. PRP (%)	25.70	24.67	25.09	26.17	22.22	22.00	24.35	21.68	21.81	24.51	22.17	22.56	23.73	23.19	23.36



Directional diagram

