

Antenna Specifications

Customer	百泰
Project name	BTL25075-MS60
Model IC	BT8961D
Model Ant.	PCB Antenna



深圳市百泰实业股份有限公司
Shenzhen Boomtech Industrial Corporation

2026/04/03

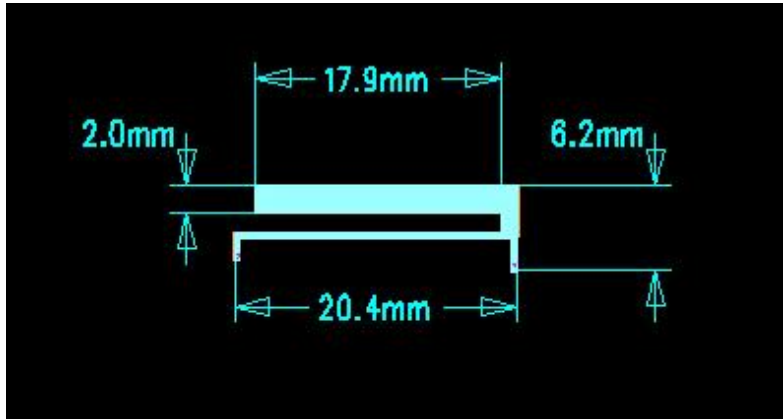


Test Location

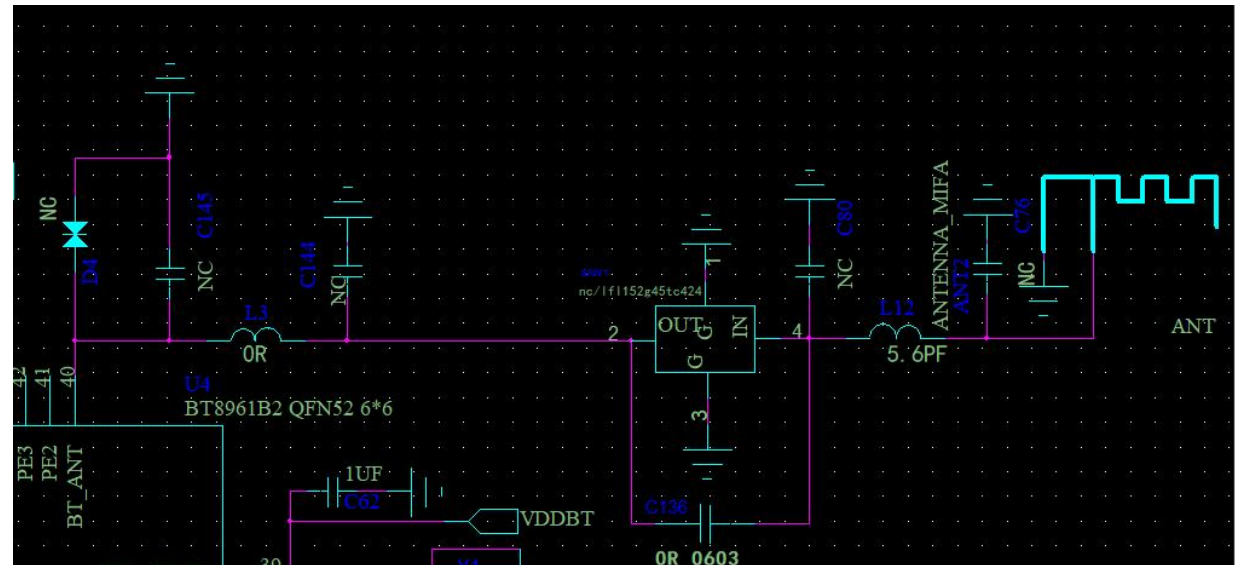


Antenna Matching

- Antenna Placement



- Matching Circuit



S11 SWR

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S12 Log Mag 10.00dB/ Ref 0.000dB
Tr2 S11 SWR 1.000/ Ref 1.000 [F1]
Tr3 S21 Log Mag 10.00dB/ Ref 0.000dB

1 2.4020000 GHz 1.5029
2 2.4410000 GHz 1.0558
3 2.4800000 GHz 1.4979



1 Center 2.441 GHz

IFBW 70 kHz

Span 1 GHz

Meas Stop ExtRef Svc

2026-04-08 22:13

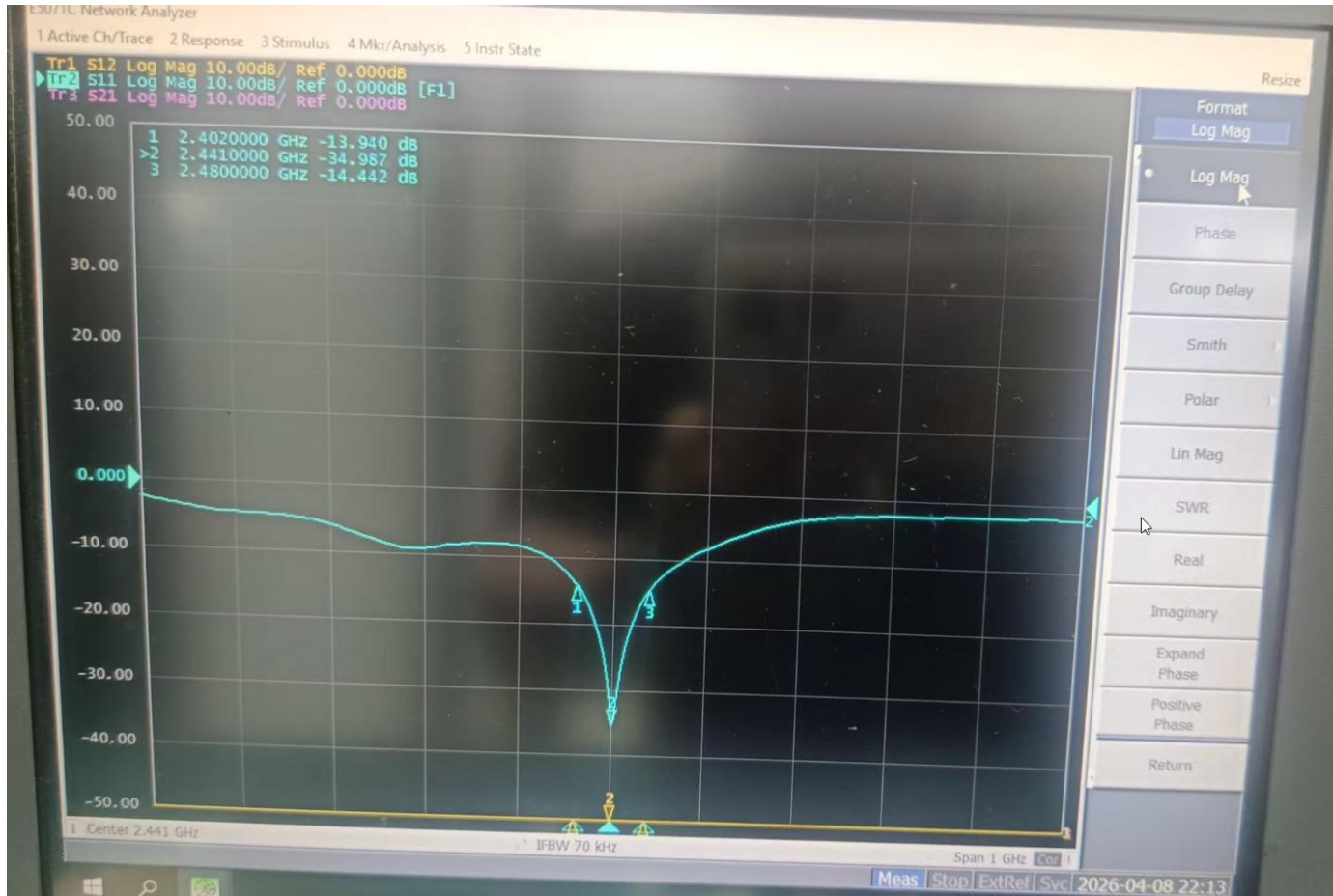
10:13 PM

4/8/2026

SWR

2402MHZ	1.5
2441MHZ	1
2480MHZ	1.4

S11 LOG MAG



LOG MAG Return loss	
2402MHZ	13.9dB
2441MHZ	34.9dB
2480MHZ	14.4dB

S11 Smith



Smith	
2402MHZ	34.7Ω
2441MHZ	52.9Ω
2480MHZ	35.8Ω

TSI AND TRP

自由

Channel	Frequency (MHz)	TRP (dBm)
0	2402	8.26
39	2441	7.66
78	2480	6.59

Channel	Frequency (MHz)	TIS (dBm)
0	2402	-87.57
39	2441	-88.34
78	2480	-88.18

无源效率

Efficiency(%)

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.158804492	-2.51692301	56.0154332
2410	0.937410739	-2.69388038	53.77890583
2420	0.644060226	-2.868370984	51.66101107
2430	0.359893471	-3.104724366	48.92463152
2440	0.22488562	-3.241728385	47.40532862
2450	0.03595655	-3.414309589	45.5584606
2460	-0.202094675	-3.704330758	42.61543483
2470	-0.377997226	-3.915742206	40.59062882
2480	-0.562417771	-4.155668414	38.40901401