

Shenzhen Wallet Electronics Co., Ltd.

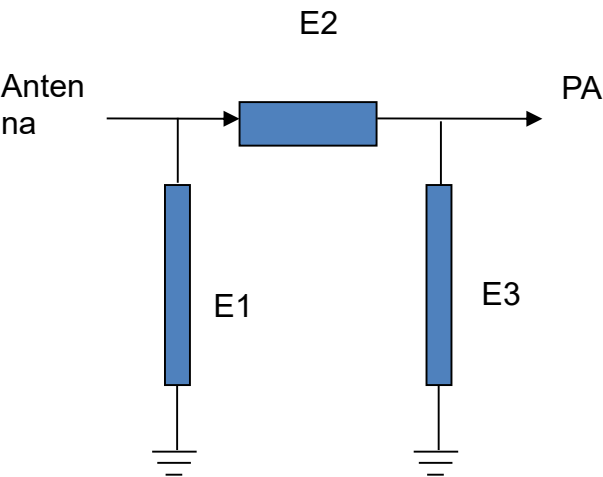
U412F Antenna specifications V1

Test date:2026-9-7

Purpose of this report:			
Conclusions of this report:			
Type	Frequency band	Material	Performance requirement
TX	2400-2480MHz	ON-board Ant	

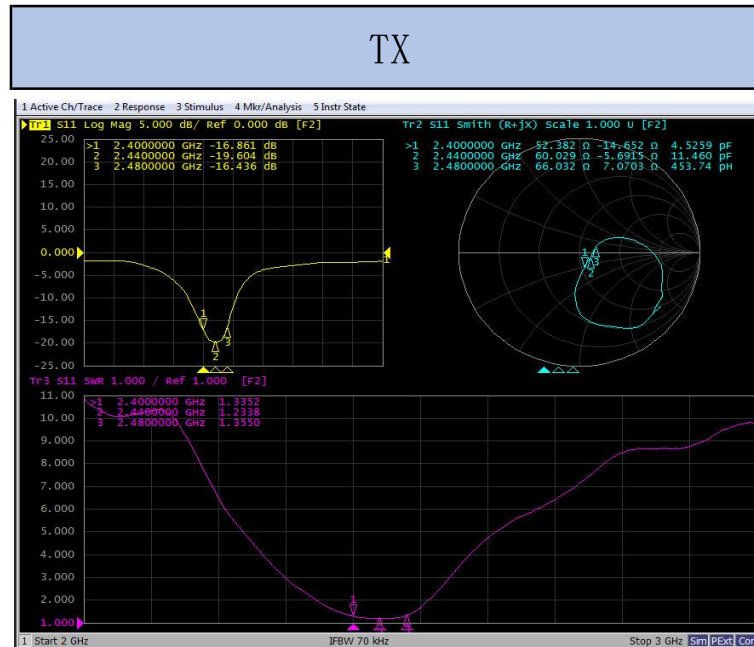
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Antenna Matching Circuit:



TX	
Element	
E1(0402)	0.5pF
E2(0402)	1.0pF
E3(0402)	NC

Antenna Passive S11 Parameter Testing:

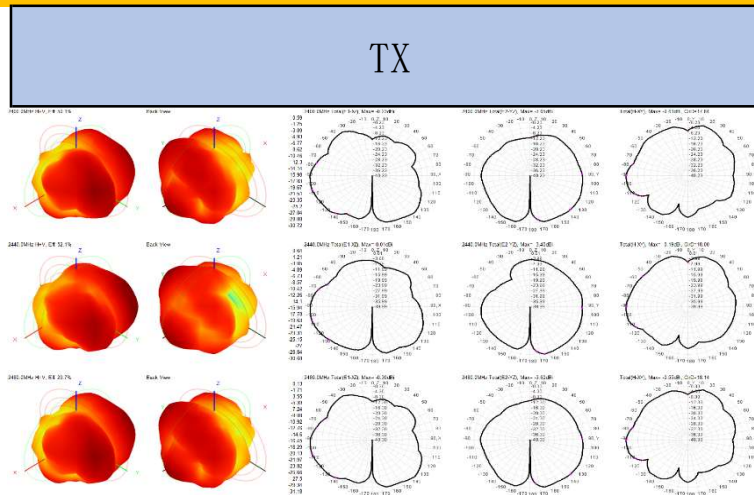


Freq (MHz)	2400	2440	2480
SWR	1.34	1.23	1.36
Log Mag	-16.86	-19.60	-16.44

Antenna Passive Efficiency and Gain Measurement:

TX		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	1.11	51.58
2410	1.10	52.90
2420	1.18	52.37
2430	1.16	52.88
2440	1.19	52.47
2450	1.13	53.26
2460	0.97	51.04
2470	0.93	50.73
2480	0.75	50.30
2490	0.97	50.00
2500	0.96	50.27

Antenna Passive Radiation Pattern:



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Antenna OTA Data

TX		
Channels	TRP	TIS
0	5.59	-90.72
39	5.25	-89.13
78	5.73	-88.54

Antenna pictures

