

No. 101-3, Building 4, Xiangyu'er Industrial Park, No. 8, Longsheng Road, Longgang Community, Longgang District, Shenzhen City

VX302PH Antenna Test Report V1

date: 2025/7/29

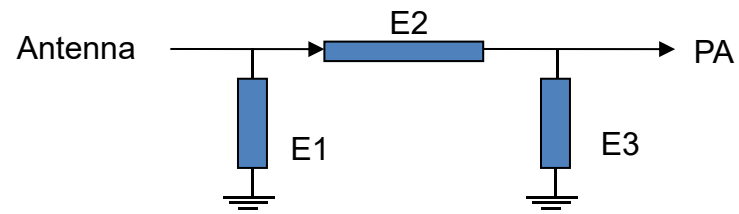
The main purpose of
this report is to: optimization matching

The main conclusion of
this report is:

antenna	frequency band	material	Antenna type
BT	2.4-2.5GHz	onboard	PCB

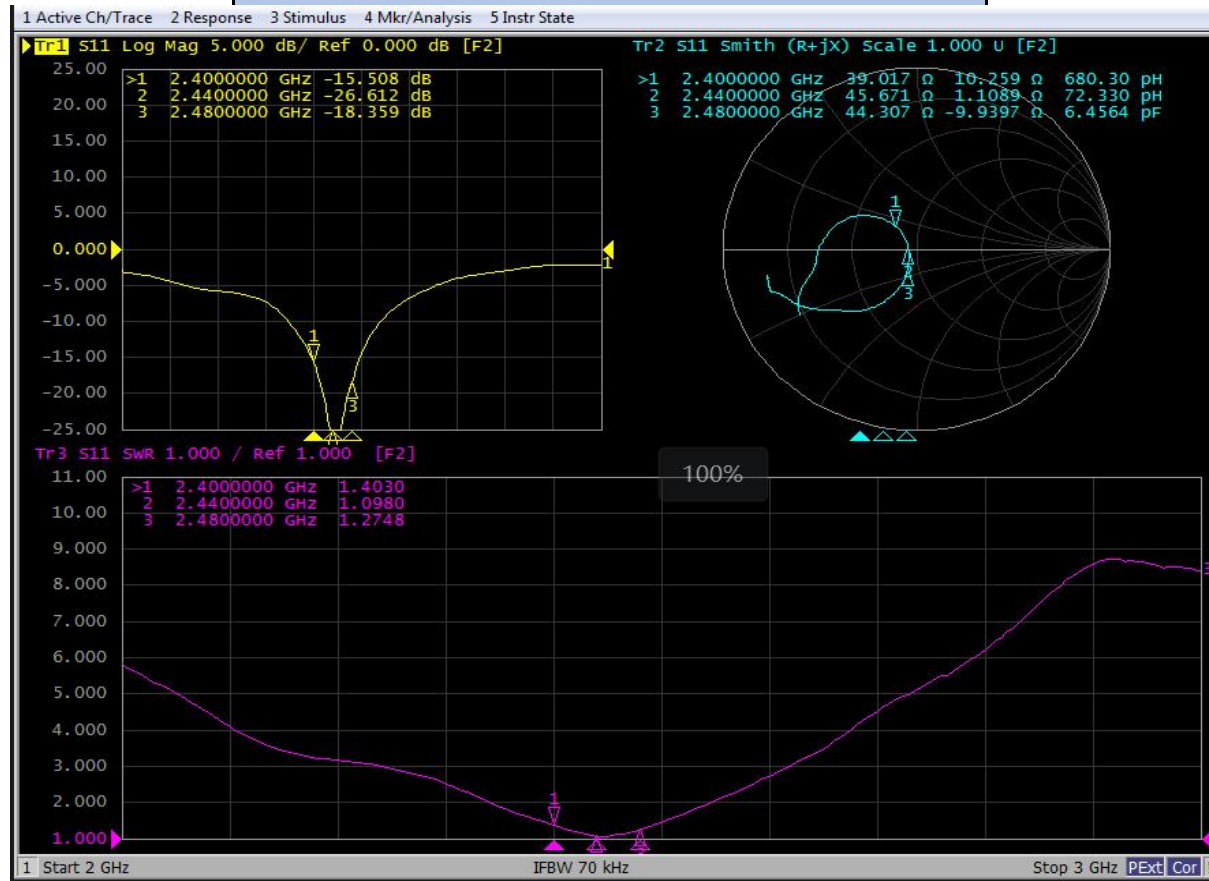
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Antenna end matching circuit:



match	
Element	
E1(0402)	
E2(0402)	1.0nH
E3(0402)	1.0pF

Passive S11 parameter test for antenna:



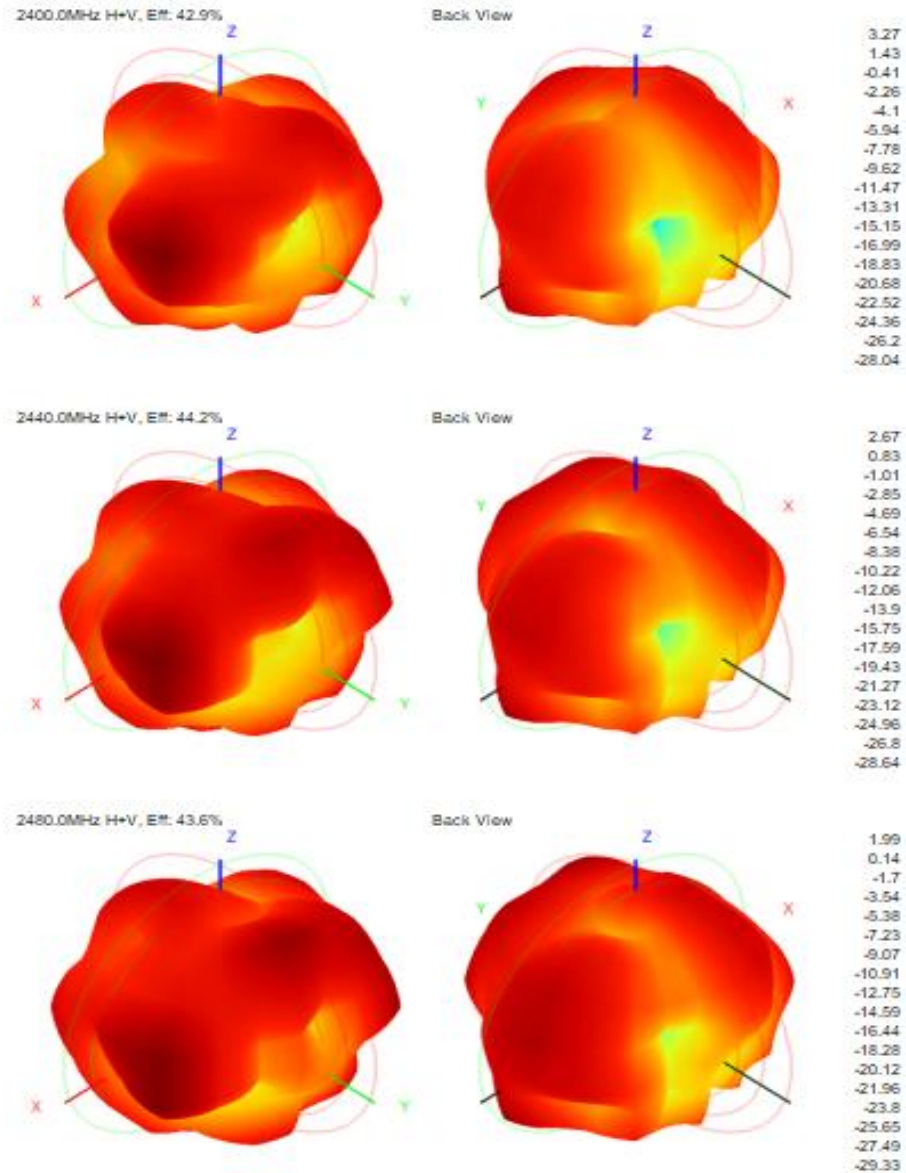
Freq (MHz)	2400	2440	2480
SWR	1.40	1.10	1.27
Log Mag	-15.51	-26.61	-18.36

Passive efficiency and gain testing of antennas:

optimize		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	3.27	42.92
2410	3.17	43.04
2420	3.11	43.61
2430	2.93	43.79
2440	2.67	44.17
2450	2.38	44.11
2460	2.23	43.70
2470	2.19	43.91
2480	1.99	43.59
2490	2.05	43.52
2500	2.13	43.22

Passive radiation pattern of antenna:

optimize



Antenna position and matching image:

