



Antenna Specification Sheet

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Versions : V01

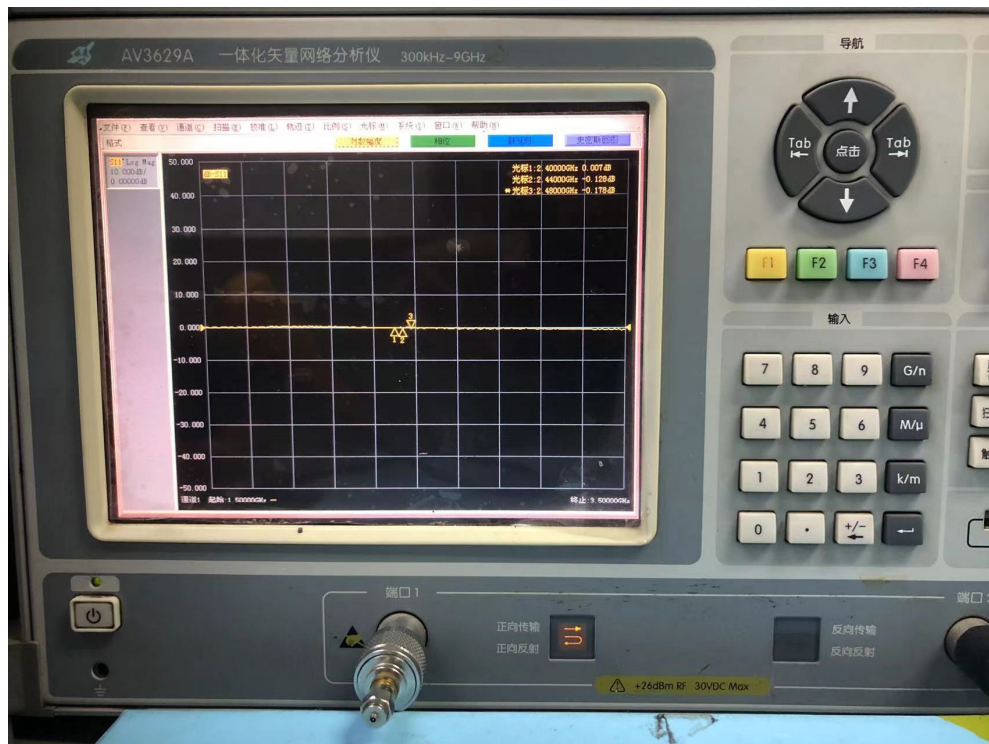
Date : 2025/4/7

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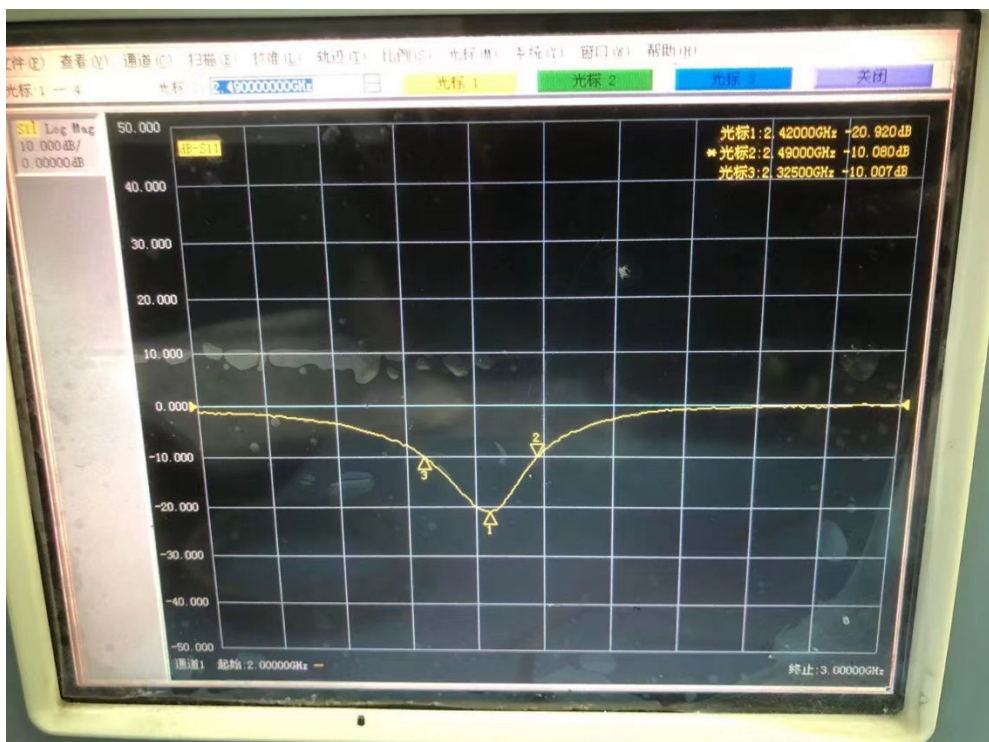
Change List			
Compilation/Change Date	Reasons	Modifications	Versions
2024/4/7	First Release	First Release	V01

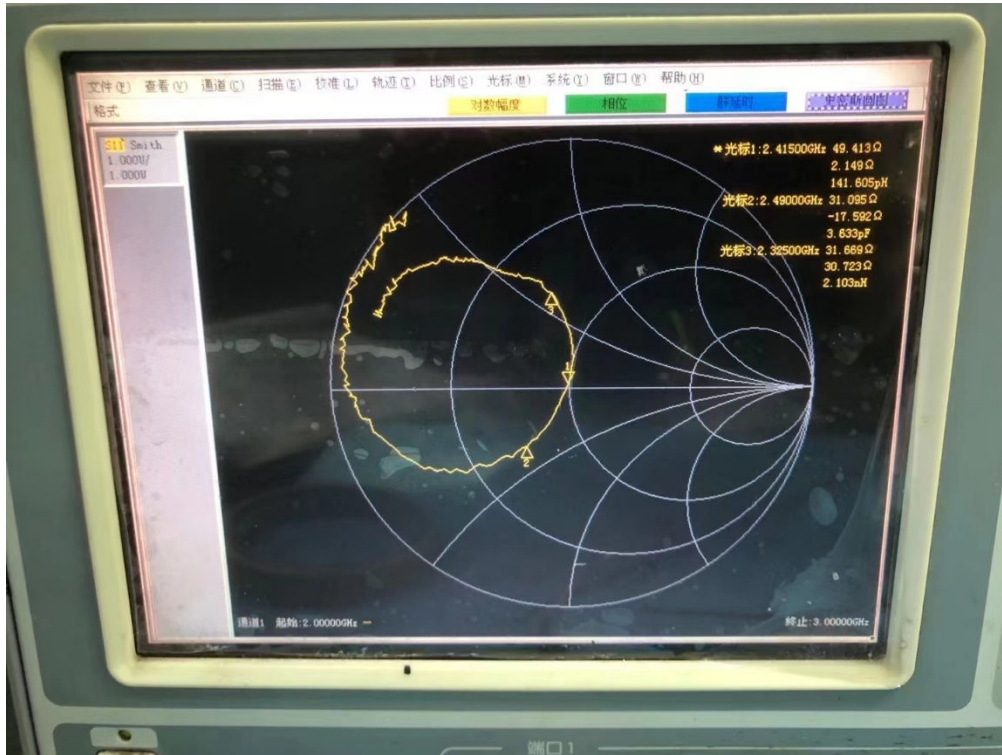
1. Passive Test Report



VA3629A

① BT antenna S11 parameters:





②BT antenna efficiency and gain :

Fre Point (MHz)	Efficientce(%)	Efficientce(dB)	Gain(dBi)
2400	39.1	-4.08	-2.25
2410	39.4	-4.05	-2.15
2420	41.2	-3.85	-2.47
2430	43.8	-3.58	-2.16
2440	45.1	-3.46	-1.95
2450	45.5	-3.42	-1.36
2460	44.9	-3.48	-0.38
2470	42.8	-3.68	-0.44
2480	44.1	-3.55	-0.81

Average	39.4	-3.46	-2.16
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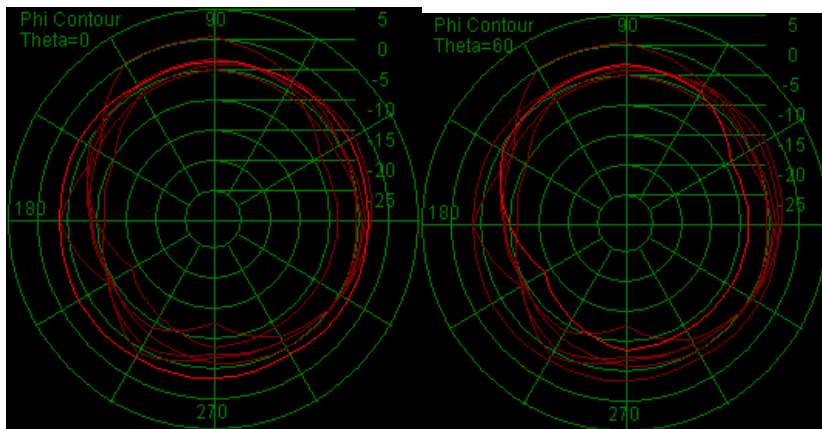
③ Electrical performance parameters :

Electrical performance parameters	
Electrical performance indicators - Working frequency range	2400MHz-2500MHz:
SWR 2400MHz-2500MHz:	< 2.0
Antenna Gain 2400MHz-2500MHz:	'-2.0 dBi ± 1dBi
Radiant Efficiency 2400MHz-2500MHz:	> 20 %
Impedance:	50 ohm
Product Material Description	FR4 + Gold Inlay Craft PCB
Product Environment Description	Operating temp: -40°C ~ + 80°C Storage temp: -40°C ~ + 80°C

④Antenna passive 2D pattern

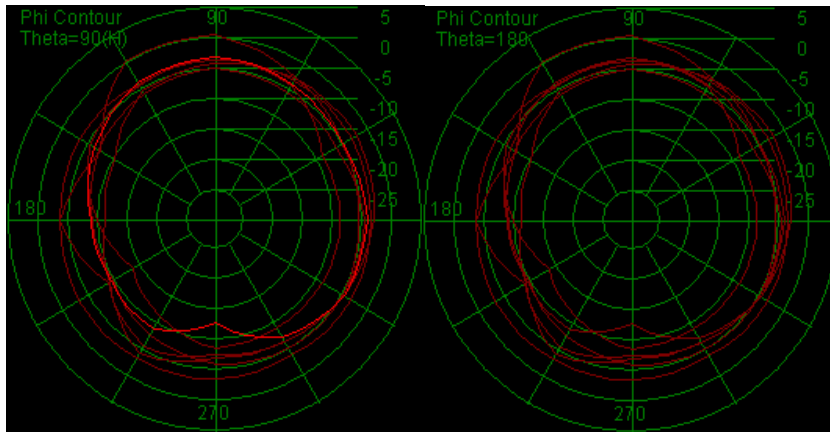
Theta=0deg

Theta=60deg



Theta=90deg

Theta=180deg

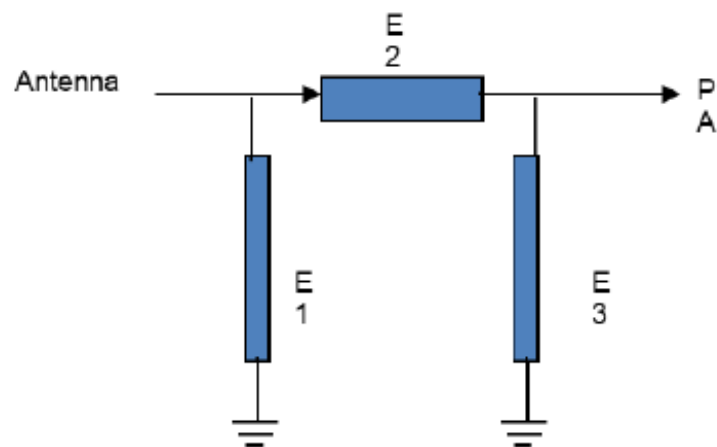


2. 3D anechoic chamber data of BT antenna

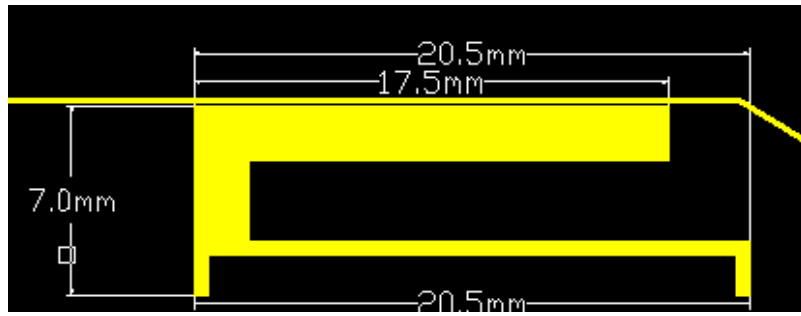
Channel No.	Free space test data	
	TRP (dBm)	TIS (dBm)
0	5.96	-87.14
39	5.10	-87.21
78	4.73	-87.05

3. Impedance-matching network

Element	Value
E1(0201)	N/A
E2(0201)	1.2Nh
E3(0201)	1pF



4. Structural diagram



THE END