

ATN antenna

Shenzhen ATN communication co.,Ltd

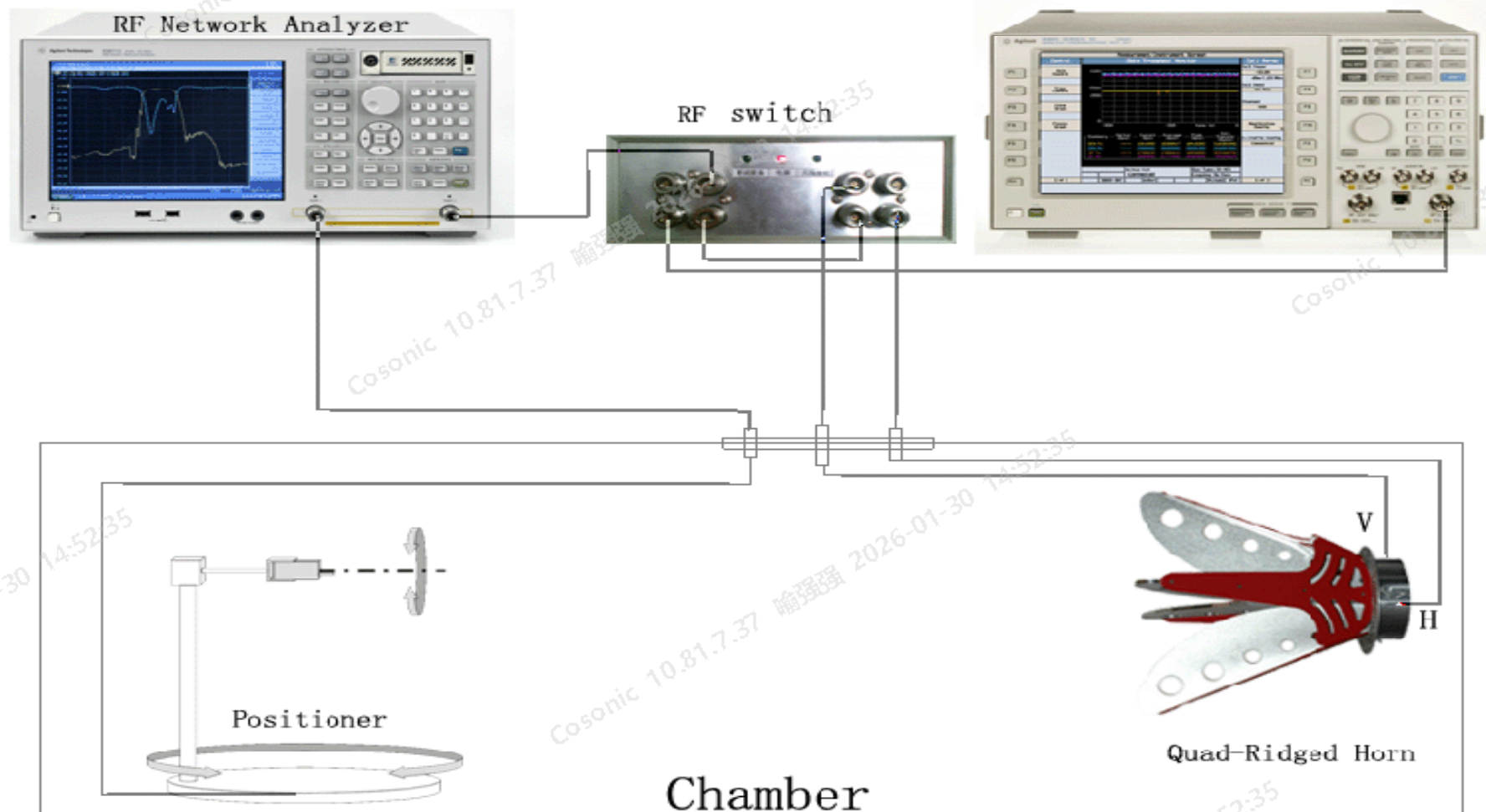
Antenna Specification

Customer:	Shenzhen Best Link Chip Technology Co.,Ltd	Project name	D5103	date	Nov 30, 2025
band	2.4G-2.48GHz				
version	V1.0				
Antenna type	PCB Antenna (On-board antenna)				
Antenna Model	D5103-ANT				

Add:Room 505,Meisheng chuangu Xia Gu,Longchang Road,xin'an Sub-district,Bao'an District,Shenzhen City,Guangdong Province,China

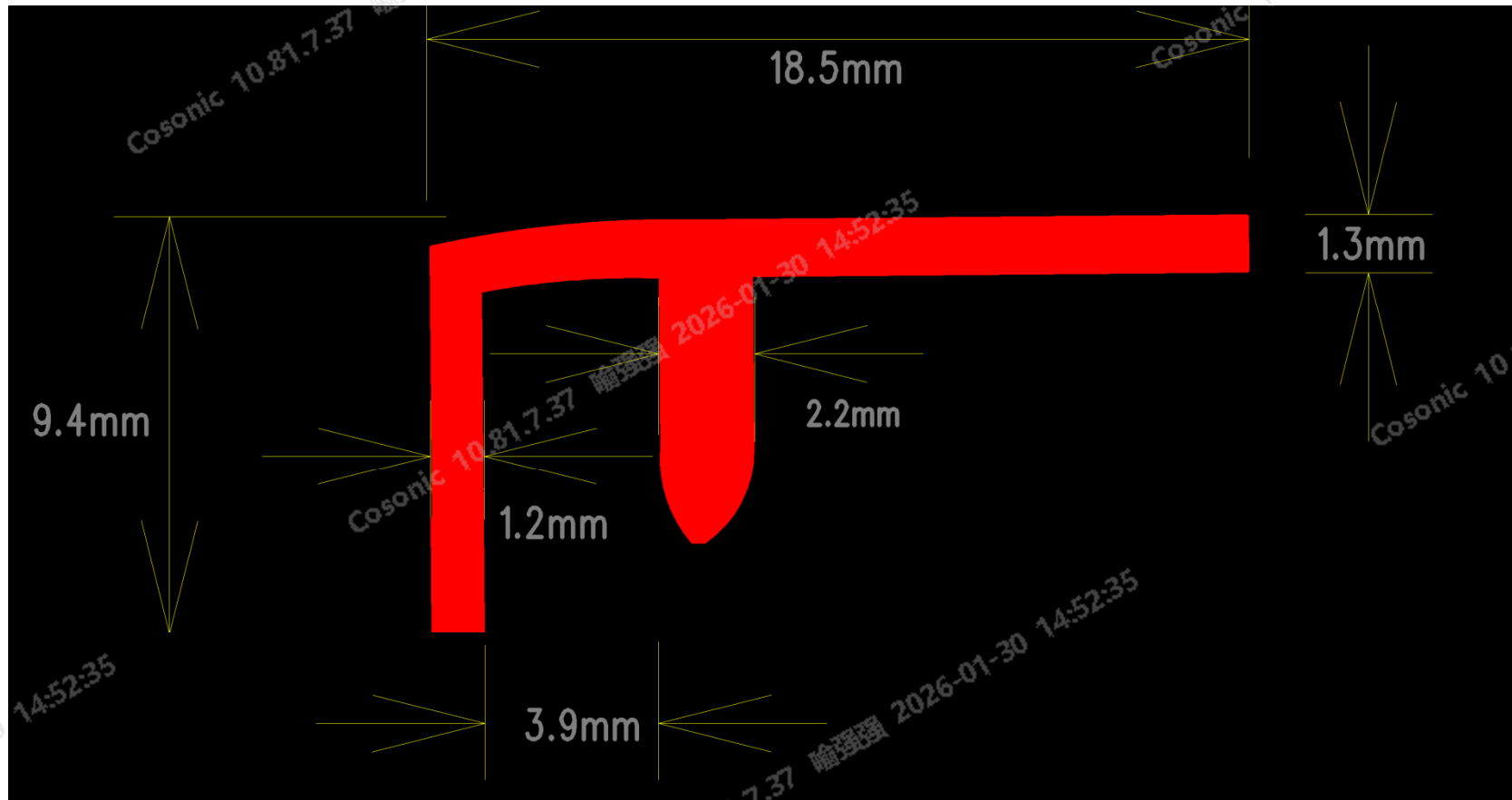
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Test system



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Antenna size



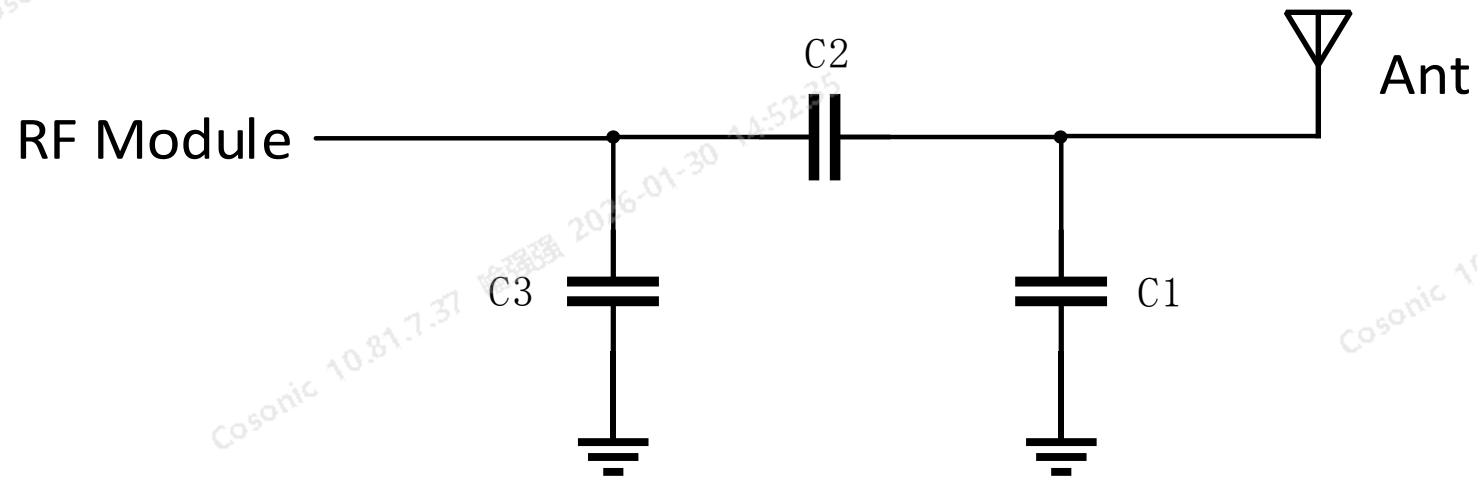
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1. Match circuit

2. Passive test data

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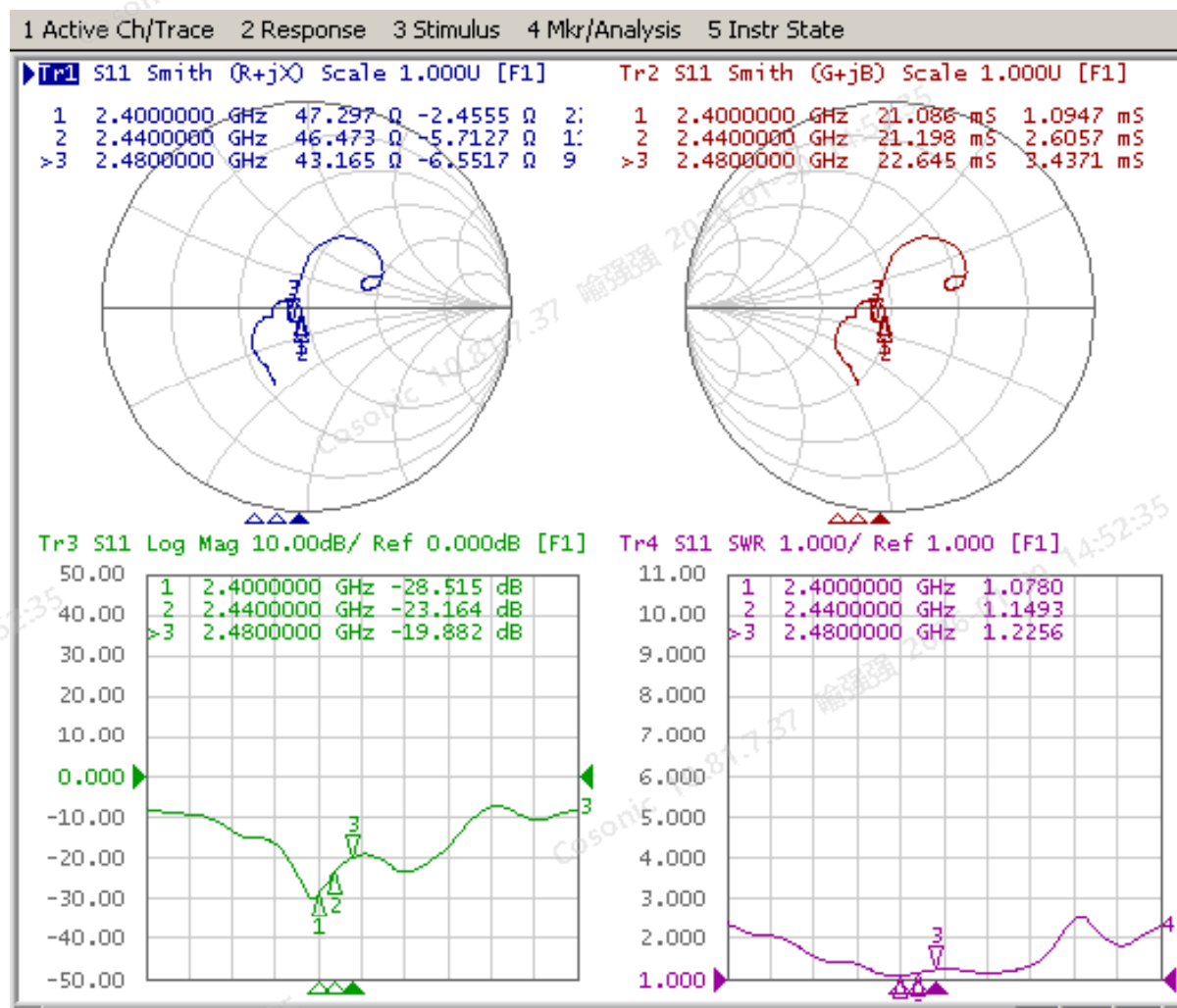
1. match circuit



Element	Value
C1(0201)	6.2nH
C2(0201)	1.2pF
C3(0201)	NC

2. Passive data

2.1 S11 Parameter



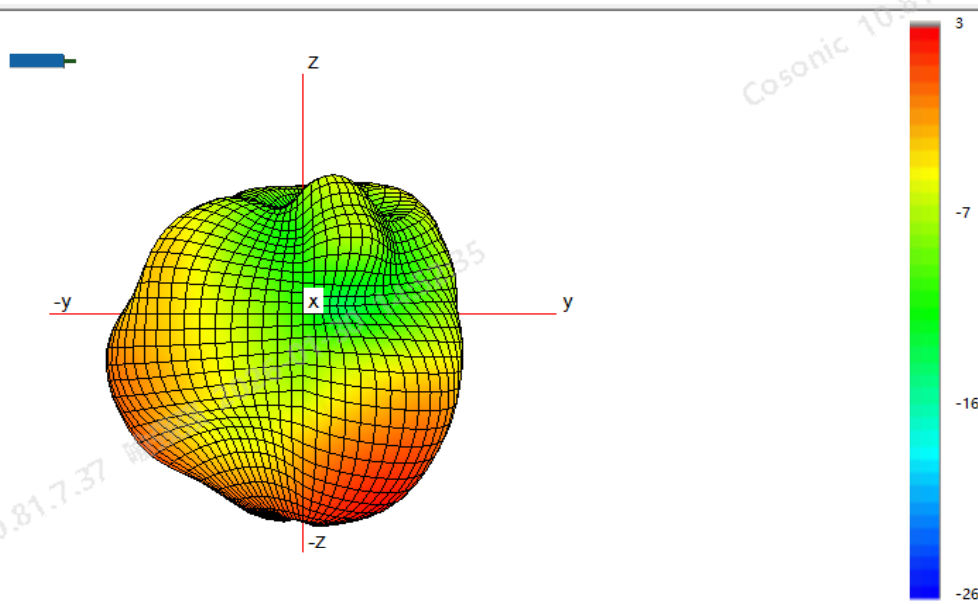
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2.2 Gain & Efficiency

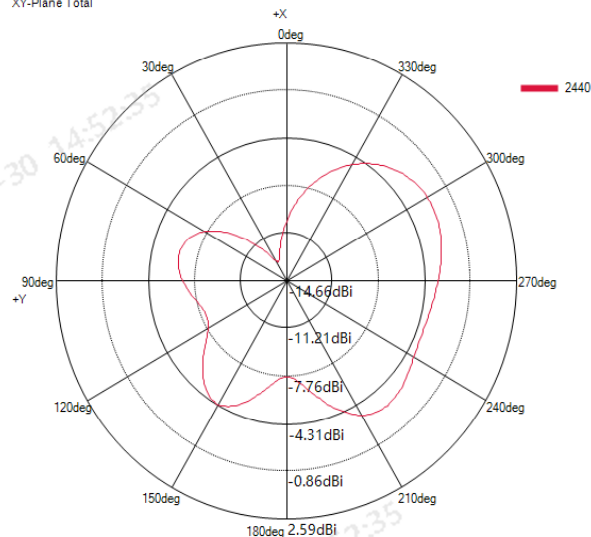
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	2.66	-3.27	47.06
2410	2.82	-3.21	47.75
2420	2.92	-3.21	47.74
2430	2.97	-3.2	47.88
2440	3.08	-3.12	48.78
2450	3.1	-3.1	48.93
2460	3.16	-3.09	49.06
2470	3.14	-3.13	48.62
2480	3.14	-3.17	48.15

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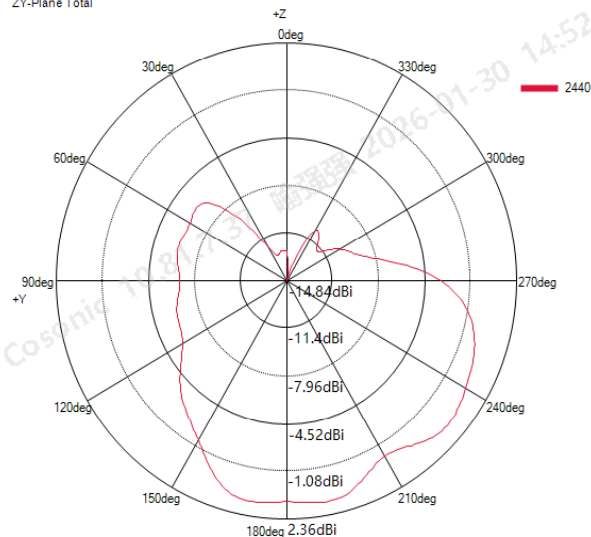
2.3 Radiation pattern(gain unit:dBi)



XY-Plane Total



ZY-Plane Total



ZX-Plane Total

