



Dongguan YiJia Electronics Communication Technology Co.,Ltd.

Antenna Test Report

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Tester : Liu Tao

Approval : Yin Tao

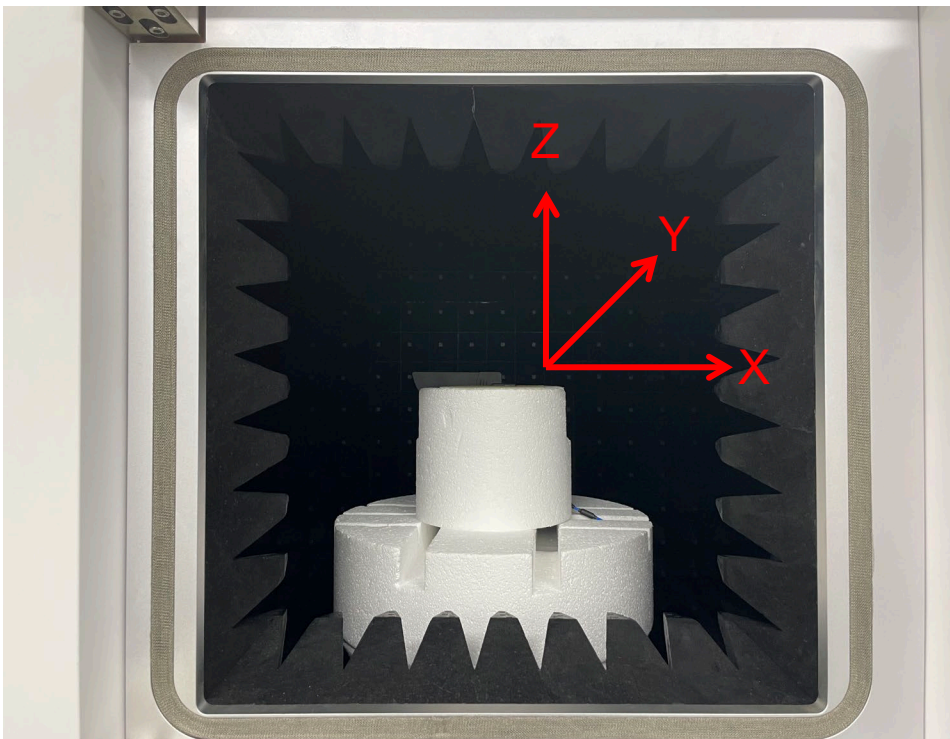
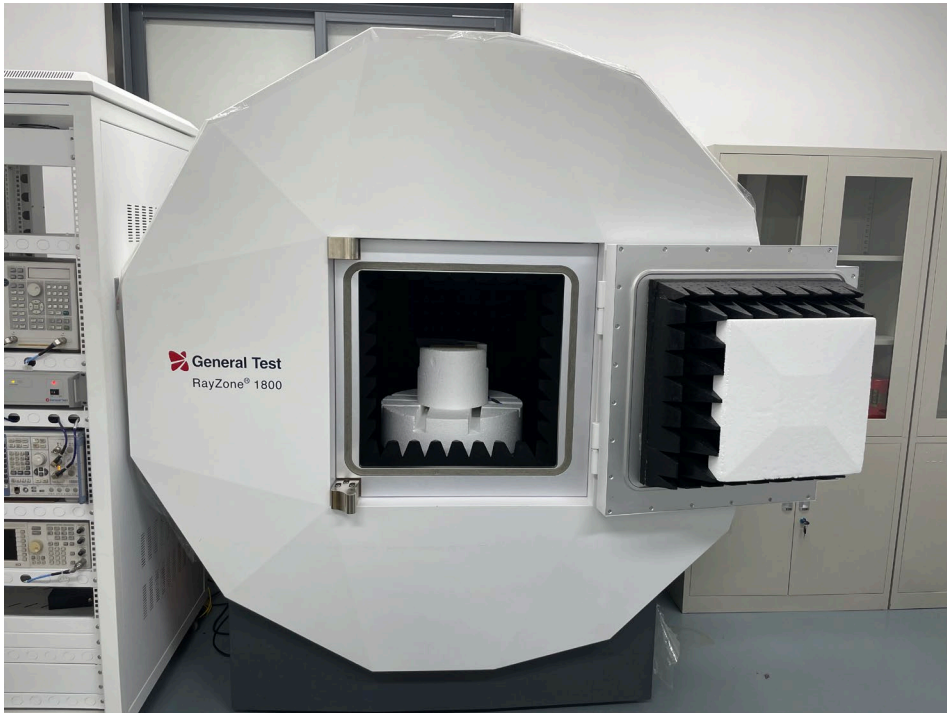
Date : 2025 / 07/ 04



Project name	A8500-6258
Name of antenna	Steel antenna
Antenna form	Single episode
Radiate	Omni-directional
Polarization	Line polarization

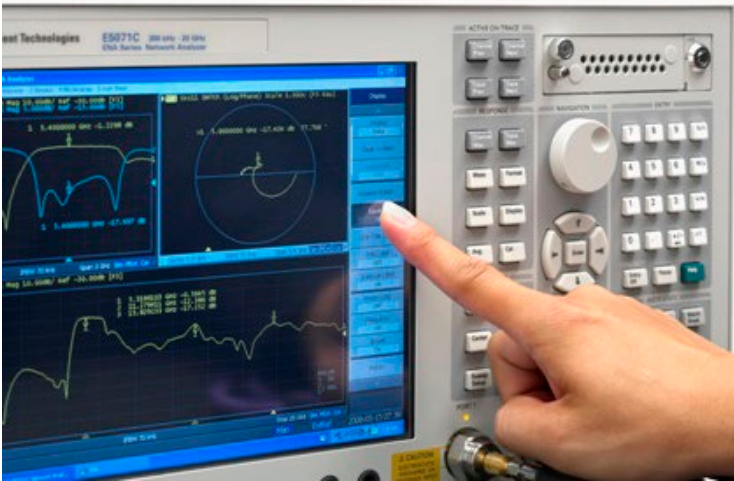


1. Antenna Passive Test

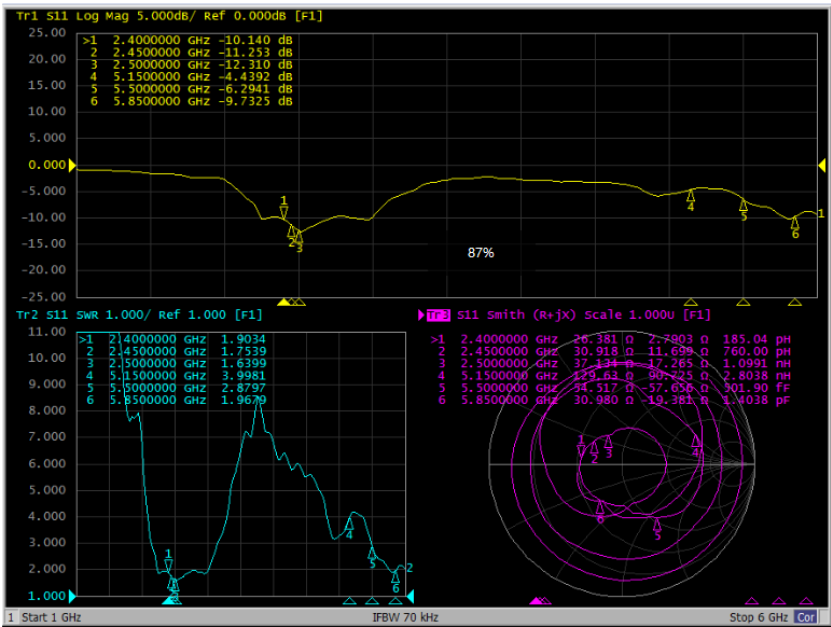




Agilent E5071C



S11 Parameter Test // WIFI Antenna



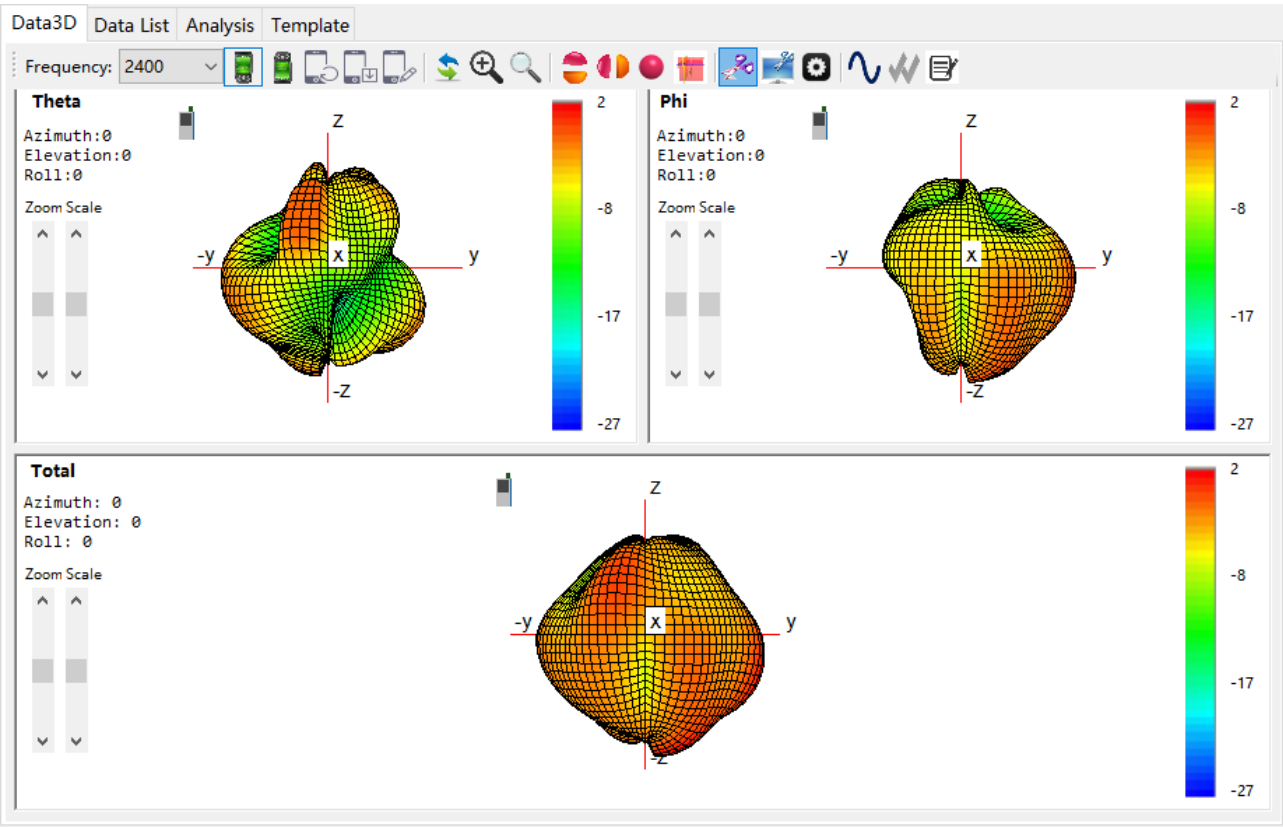


Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	46.96	-3.28	1.62
2410	46.82	-3.3	1.58
2420	46.62	-3.31	1.47
2430	46.32	-3.34	1.35
2440	45.39	-3.43	1.17
2450	44.39	-3.53	0.98
2460	43.55	-3.61	0.82
2470	43.72	-3.59	0.71
2480	43.56	-3.61	0.84
2490	43.46	-3.62	1.23
2500	44.35	-3.53	1.69

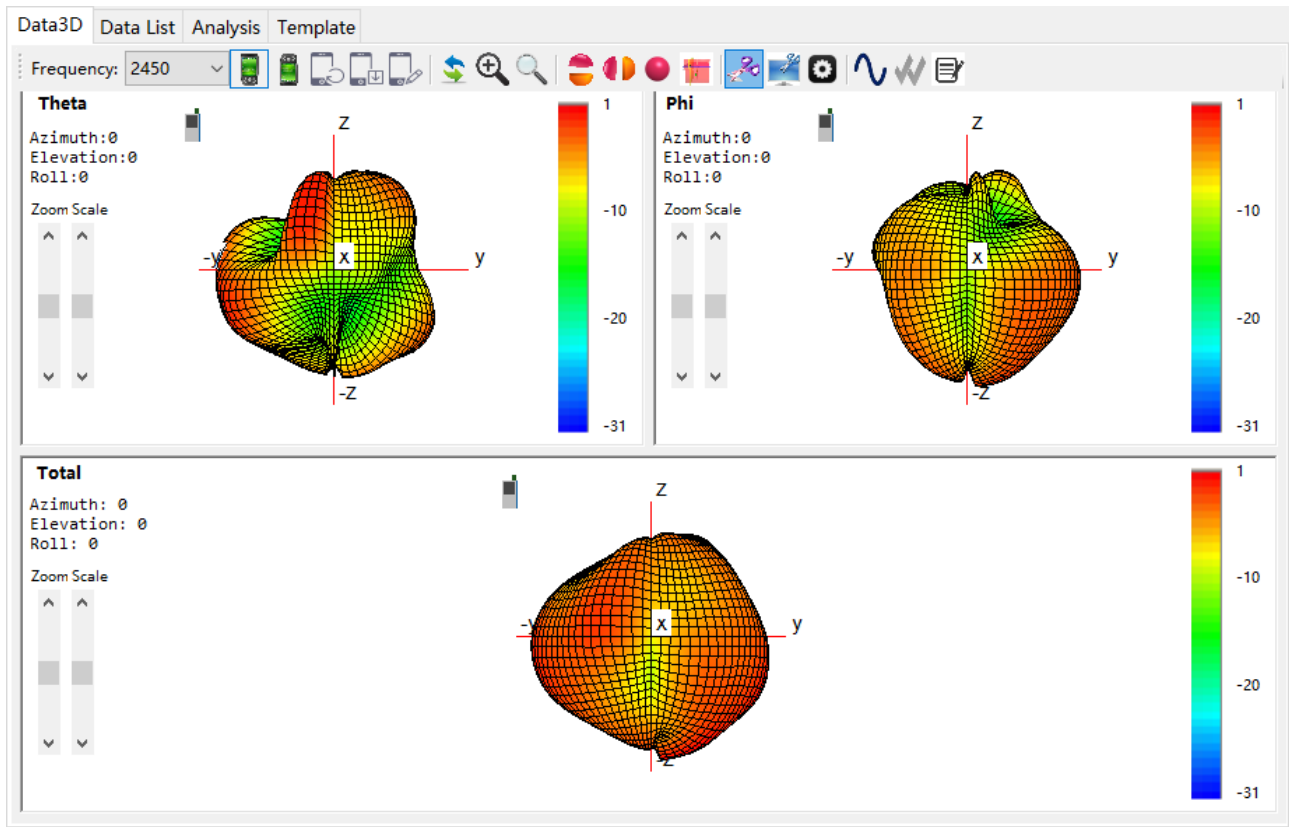


Radiation Pattern For WiFi Antenna (2400MHz)



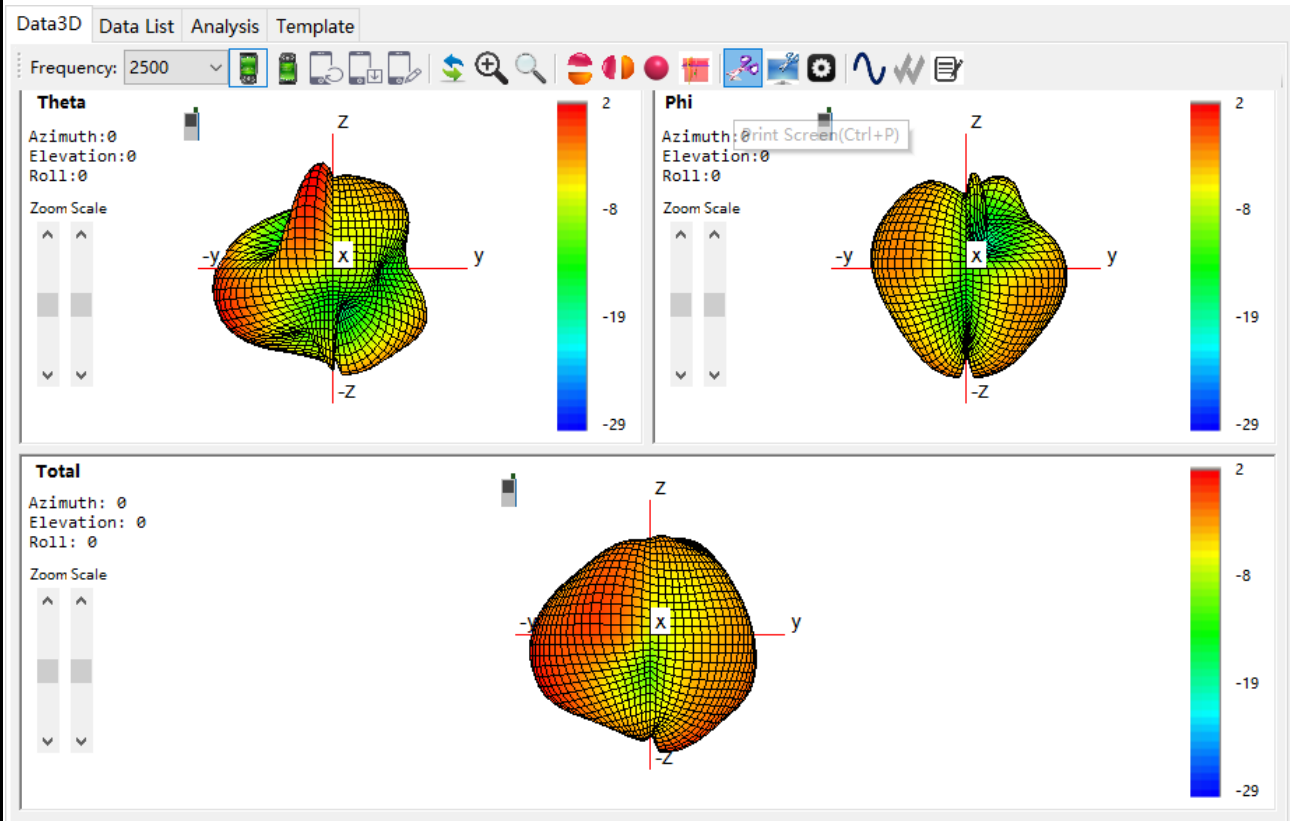


Radiation Pattern For WiFi Antenna (2450MHz)





Radiation Pattern For WiFi Antenna (2500MHz)



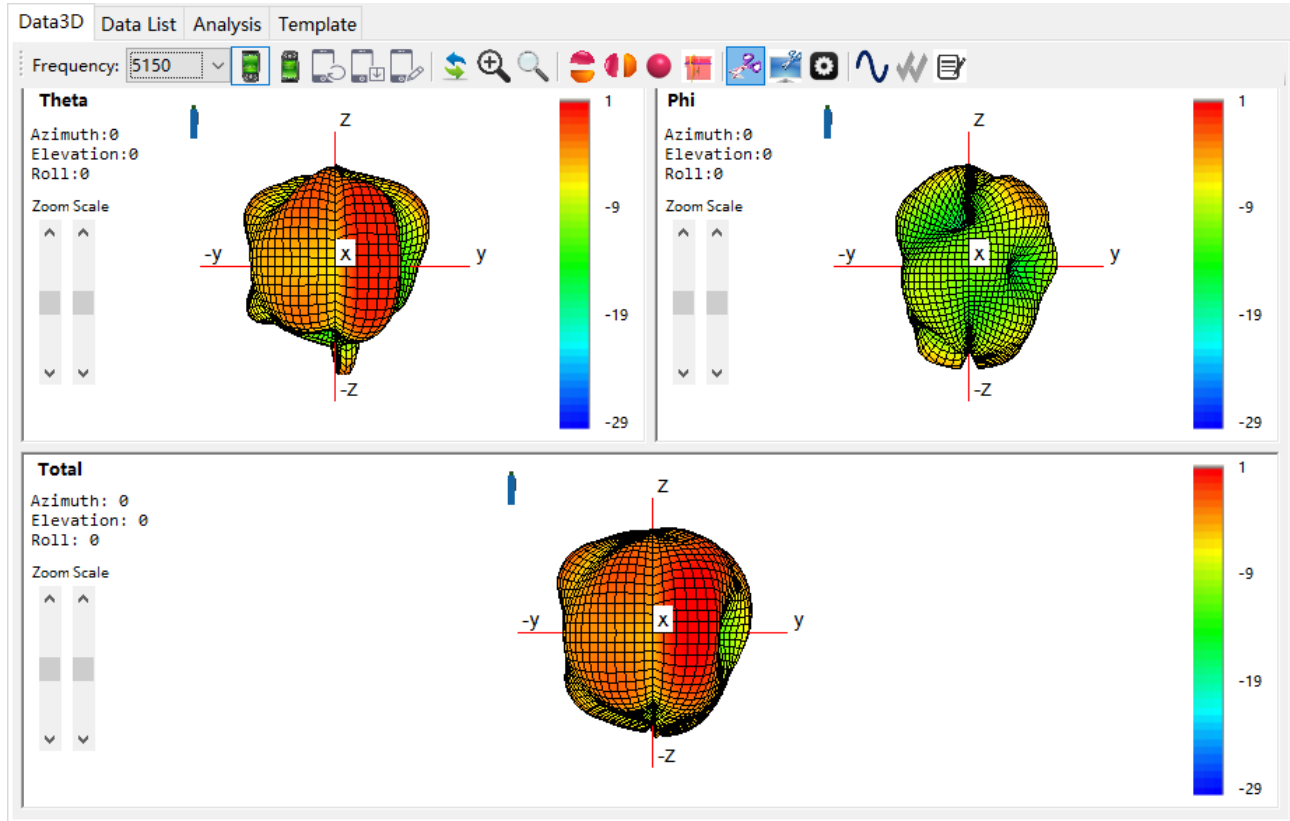


Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	33.5	-4.75	0.57
5180	34.36	-4.64	0.84
5210	33.46	-4.75	0.81
5240	33.33	-4.77	0.95
5270	32.09	-4.94	1.08
5300	27.9	-5.54	0.84
5330	30.54	-5.15	1.49
5360	27.56	-5.6	1.07
5390	30.82	-5.11	1.51
5420	29.63	-5.28	1.21
5450	28.3	-5.48	0.8
5480	27.7	-5.58	0.54
5510	23.97	-6.2	-0.15
5540	25.58	-5.92	0.06
5570	25.22	-5.98	-0.08
5600	27.87	-5.55	0.29
5630	27.7	-5.57	0.04
5660	28.4	-5.47	-0.09
5690	27.77	-5.56	-0.46
5720	26.09	-5.84	-0.98
5750	26.89	-5.7	-0.84
5780	26.25	-5.81	-1.05
5810	29.36	-5.32	-0.69
5840	29.56	-5.29	-0.86
5850	29.18	-5.35	-0.94

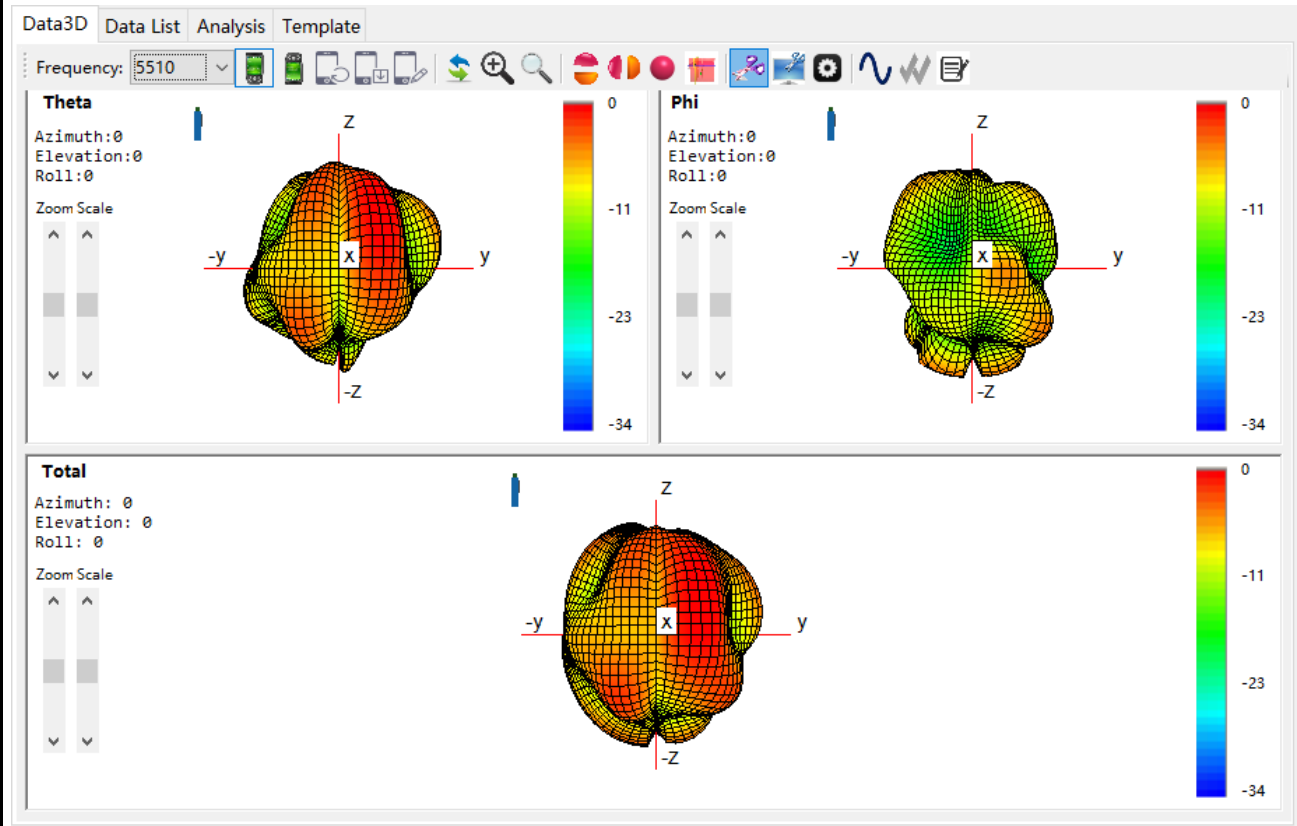


Radiation Pattern For WiFi Antenna (5150MHz)



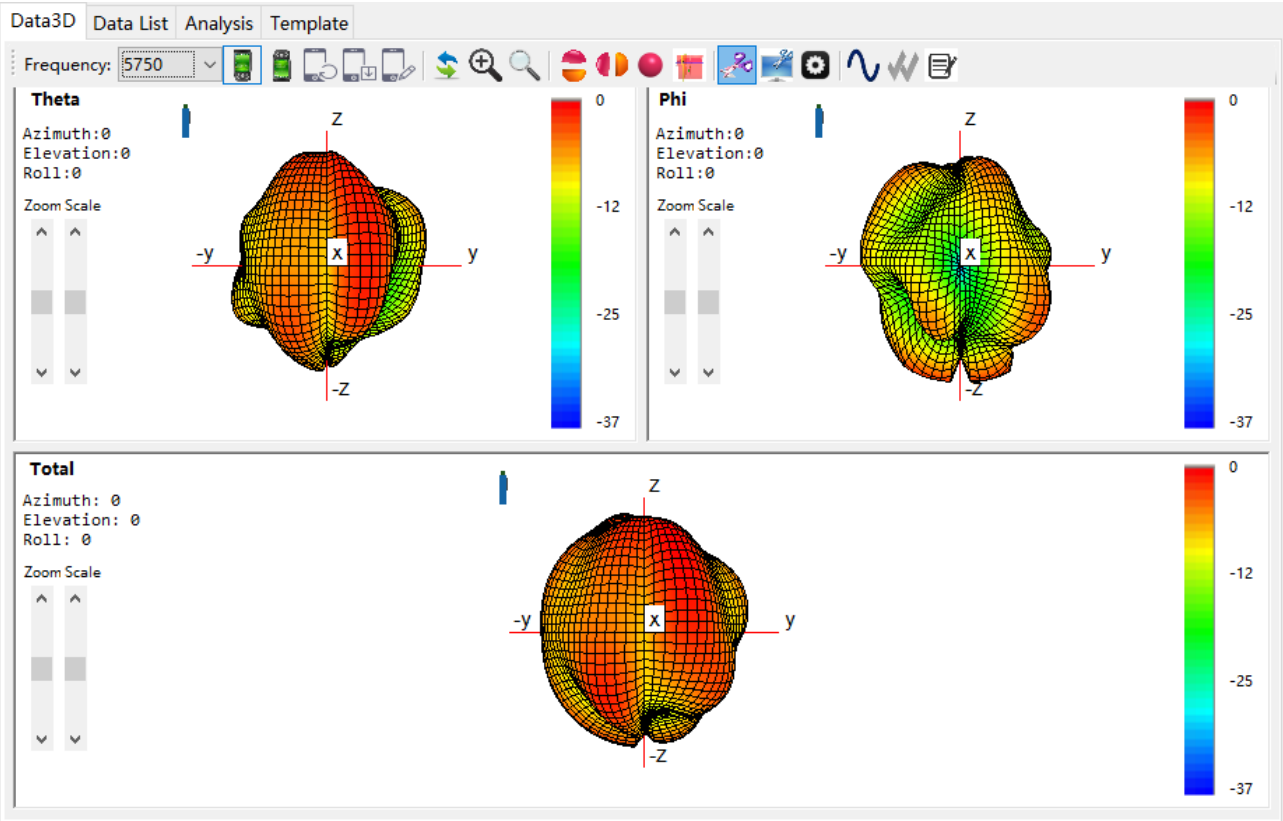


Radiation Pattern For WiFi Antenna (5500MHz)



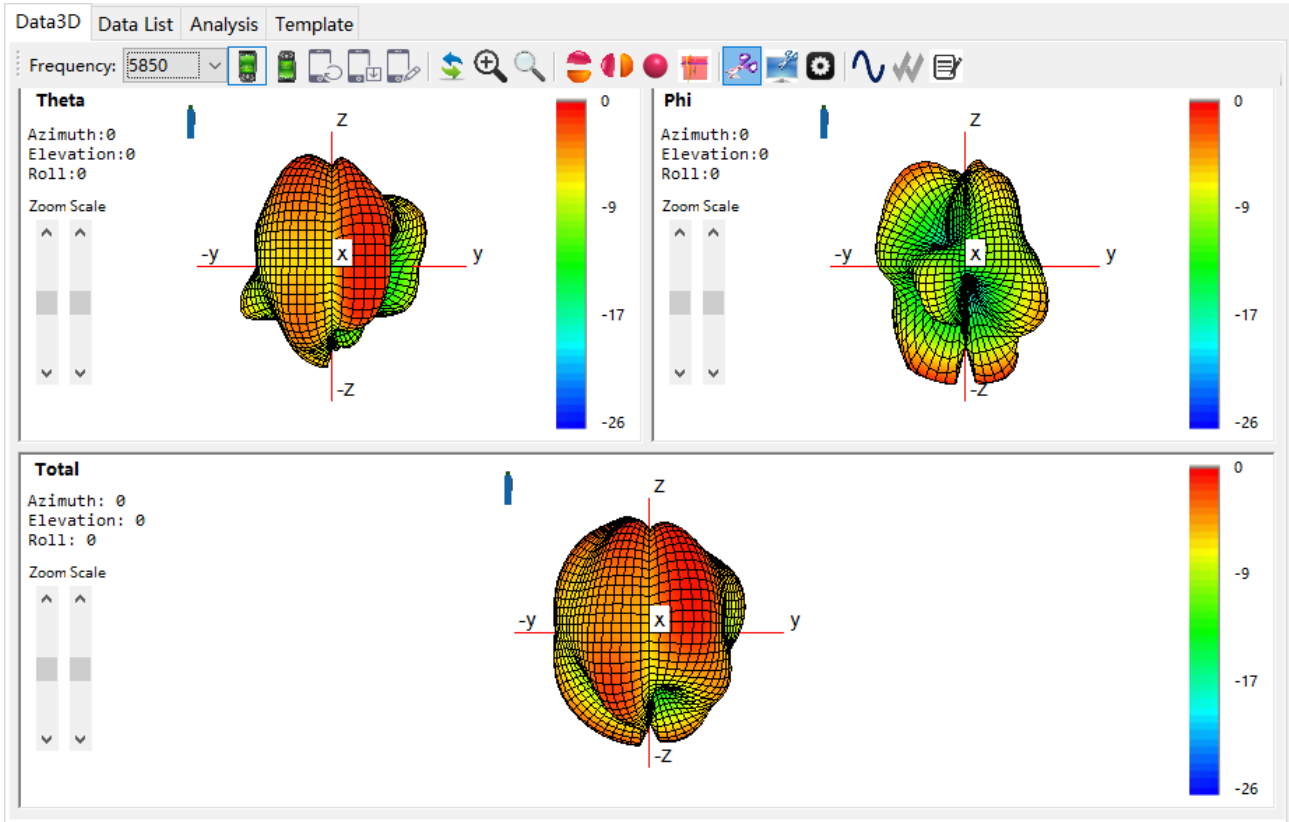


Radiation Pattern For WiFi Antenna (5750MHz)



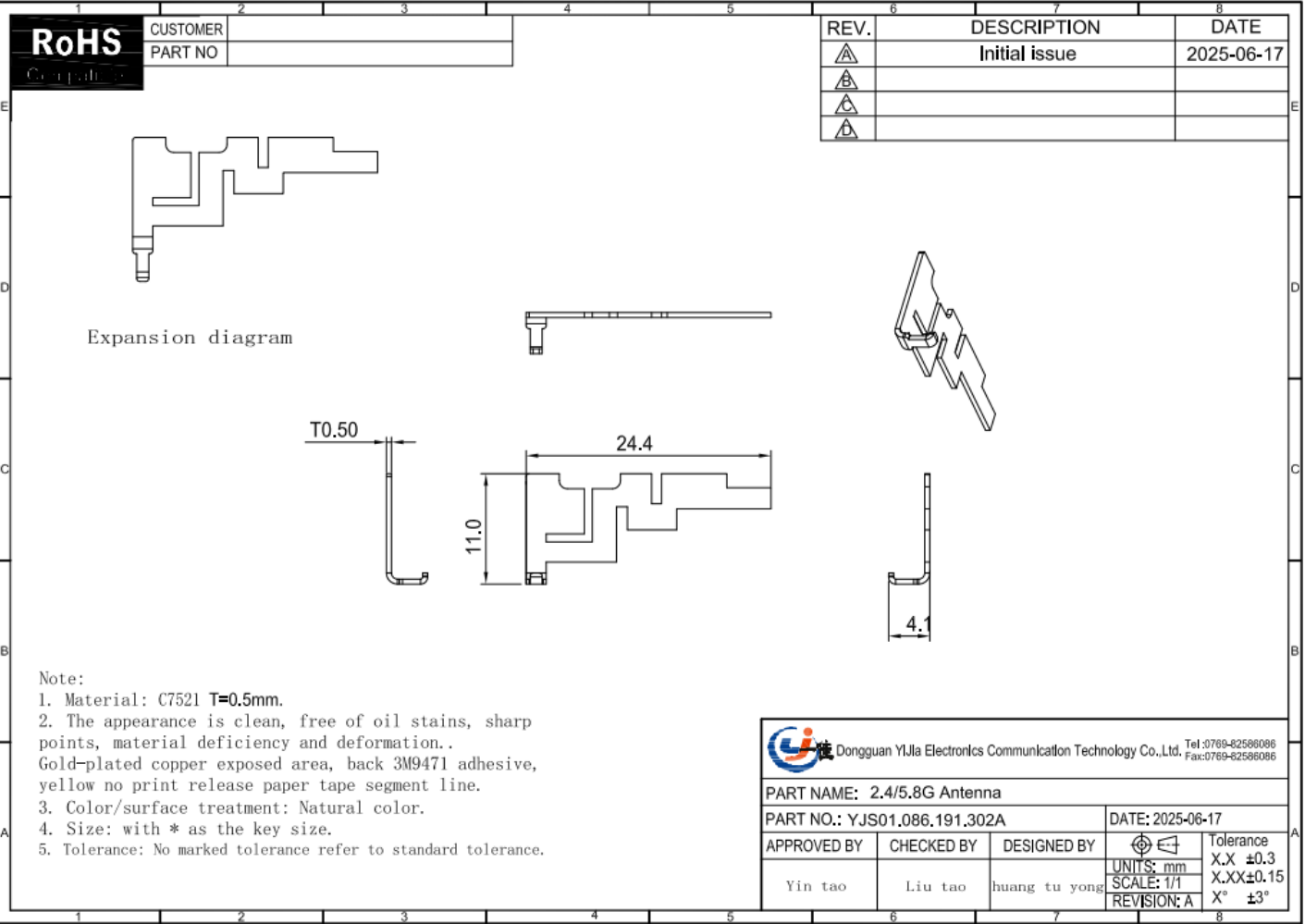


Radiation Pattern For WiFi Antenna (5850MHz)





4.Antenna size



- Note:
- 1. Material: C7521 T=0.5mm.
 - 2. The appearance is clean, free of oil stains, sharp points, material deficiency and deformation..
 - Gold-plated copper exposed area, back 3M9471 adhesive, yellow no print release paper tape segment line.
 - 3. Color/surface treatment: Natural color.
 - 4. Size: with * as the key size.
 - 5. Tolerance: No marked tolerance refer to standard tolerance.

REV.	DESCRIPTION	DATE
A	Initial issue	2025-06-17
B		
C		
D		

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PART NAME: 2.4/5.8G Antenna			
PART NO.: YJS01.086.191.302A			DATE: 2025-06-17
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.3 X.XX±0.15 X° ±3°
Yin tao	Liu tao	huang tu yong	
UNITS: mm			
SCALE: 1/1			
REVISION: A			