

BT Antenna Test Report

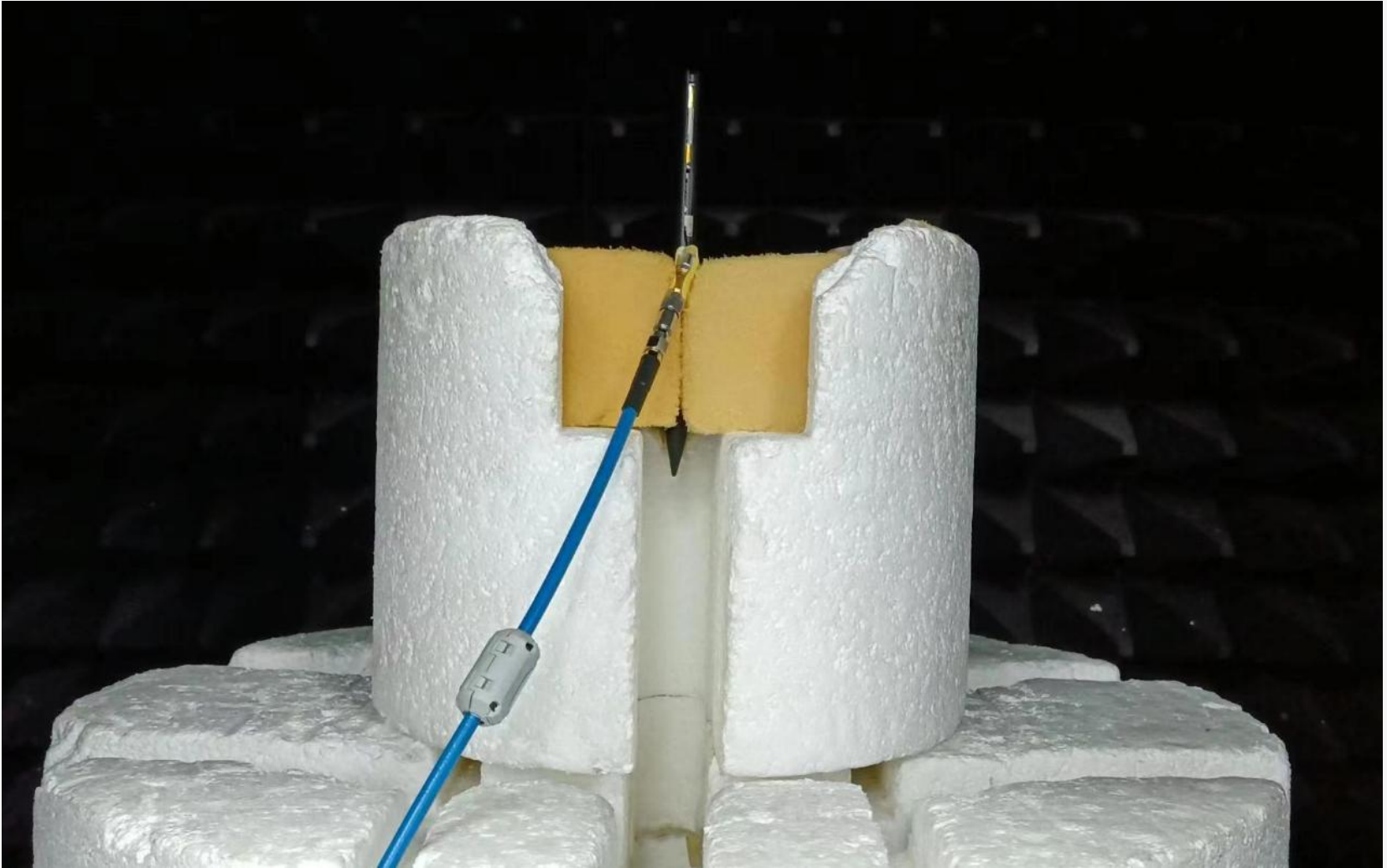
Customer	Sunwoda	Project	LUX
Report Version	V1.0	Report Date	2023-04-10
Prepared by	hu peng	Checked by	zhang lei



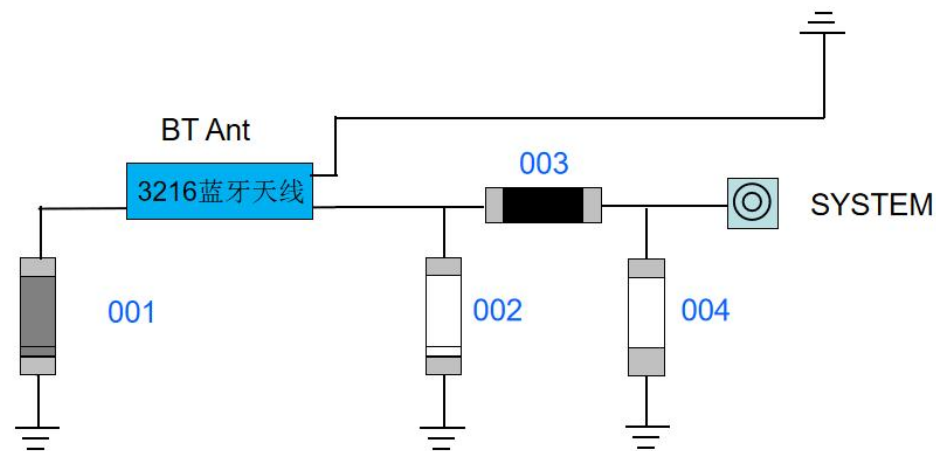
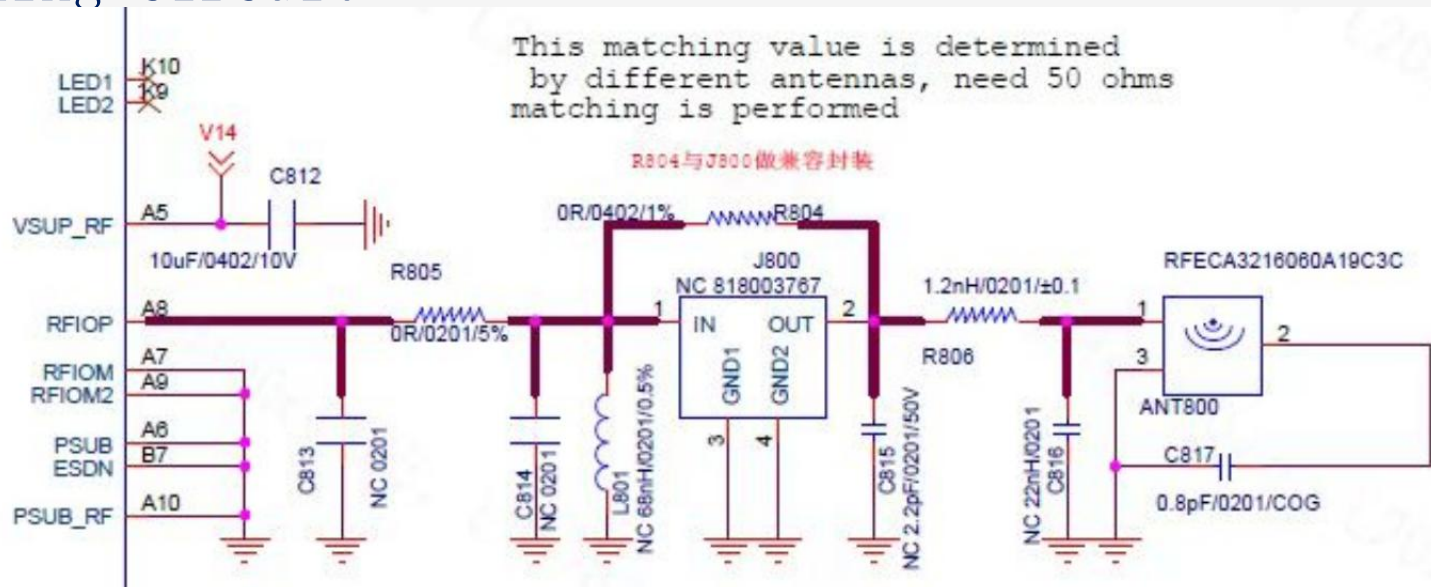
1. Overview of RF Requirements for Project Evaluation

Model	Touch pen		
Antenna Type	3216 Ceramic antenna		
Frequency band and antenna material	Main antenna		material
	BT	2402-2480MHZ	Ceramic antenna

2. Antenna testing setup



3. Matching circuit

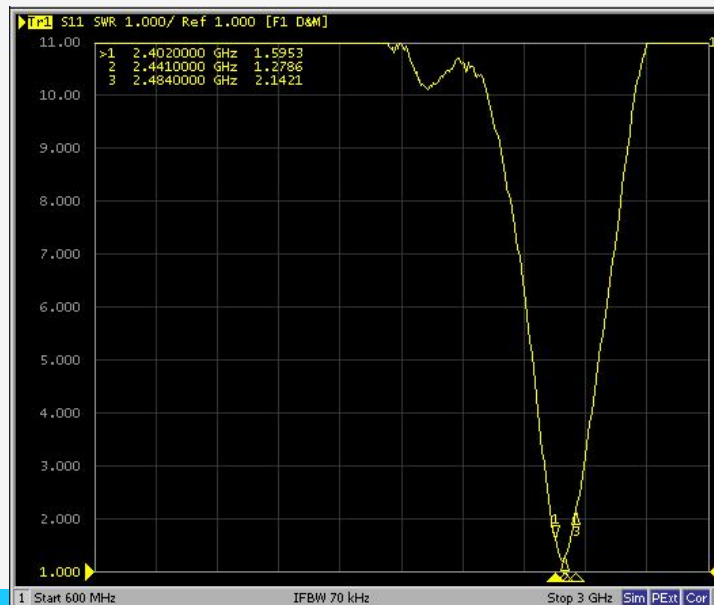
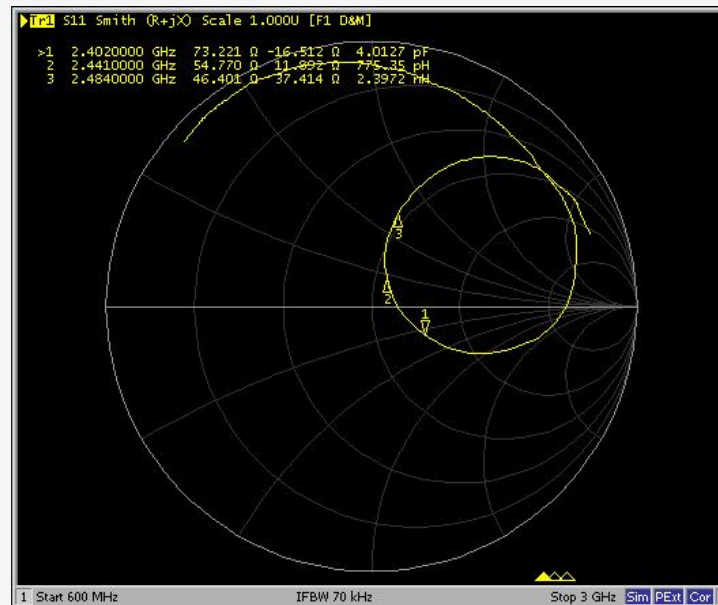
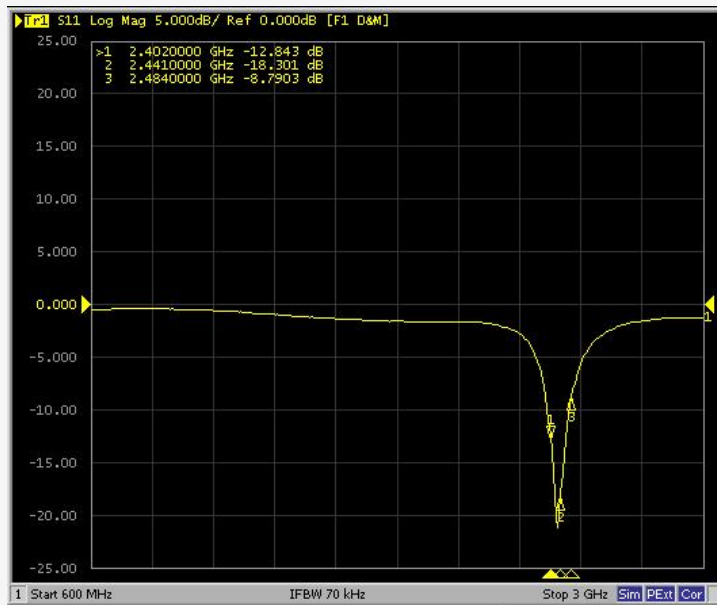


主板的匹配

- 001: C817 = 0.8 PF
- 002: C816 = N/C
- 003: R806 = 1.2NH
- 004: C815 = N/C



4.S11



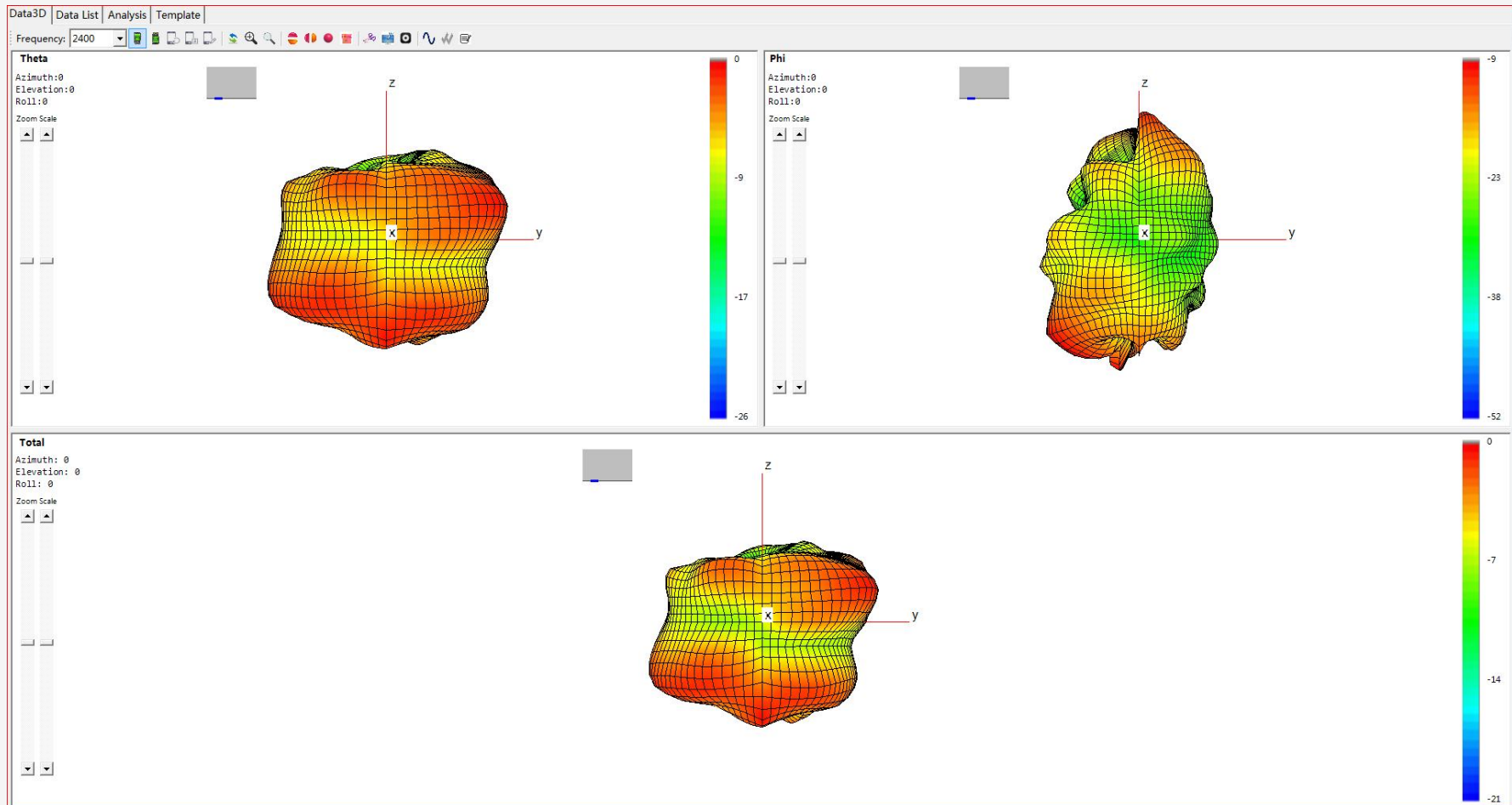
5.efficiency

Frequency (MHz)	AVG Gain (dB)	Efficiency (%)	Gain (dBi)
2400	-3.72	42.49	1.55
2410	-3.44	45.33	1.86
2420	-3.01	49.97	1.95
2430	-2.6	54.9	2.1
2440	-2.32	58.65	2.15
2450	-2.46	56.82	2.26
2460	-2.51	56.1	2.04
2470	-2.9	51.31	1.84
2480	-3.18	48.07	1.72
2490	-3.48	44.91	1.38
2500	-3.73	42.4	1.09



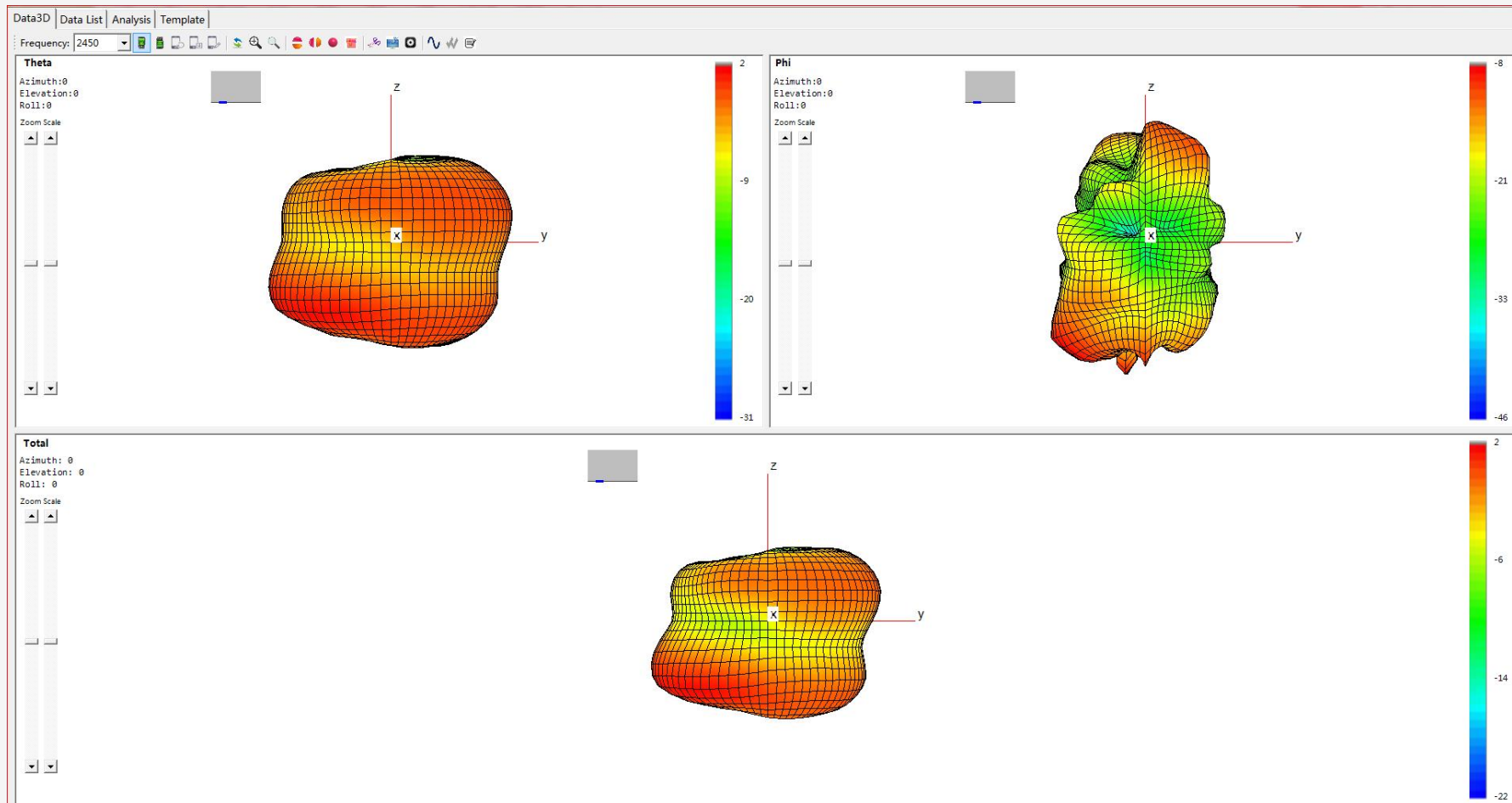
6.3D

2400MHZ



6.3D

2450MHZ



6.3D

2500MHZ

