

Etheta Communication Technology (Shenzhen) CO., Ltd

KA024 Antenna Test Report

10/ 01/ 2024



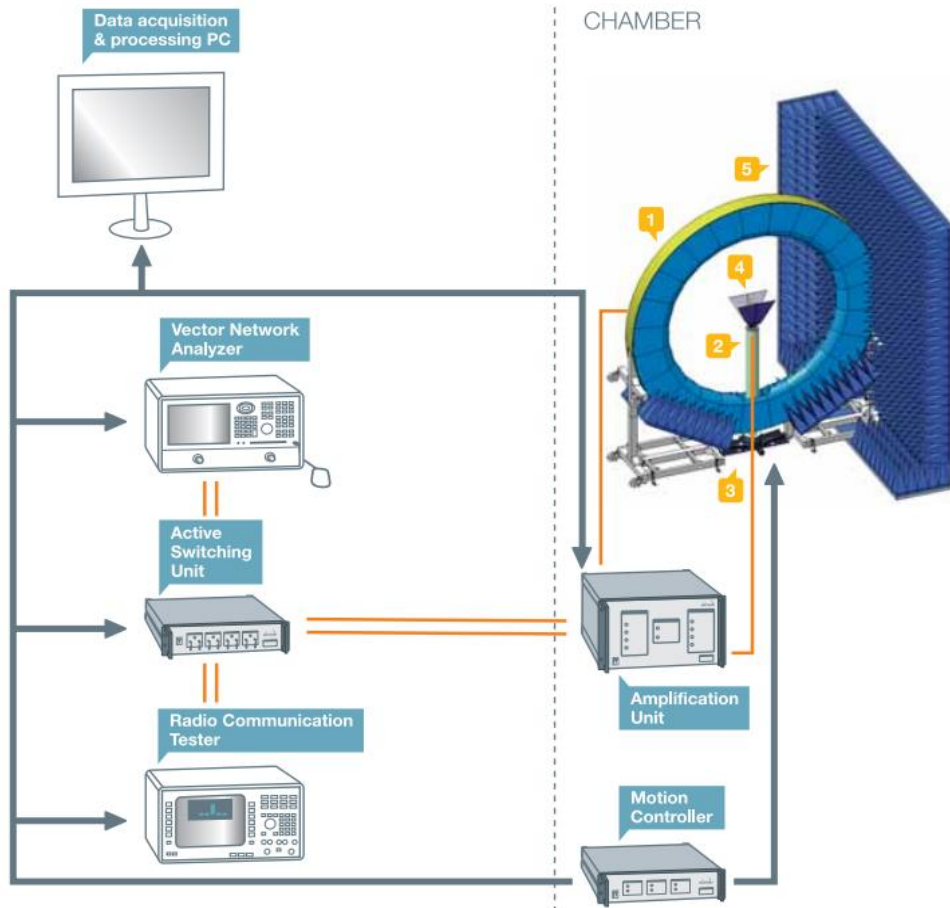
Floor 3, Building 1, Baisha Technology Industrial Park,
Shahe West Road, Nanshan District, Shenzhen



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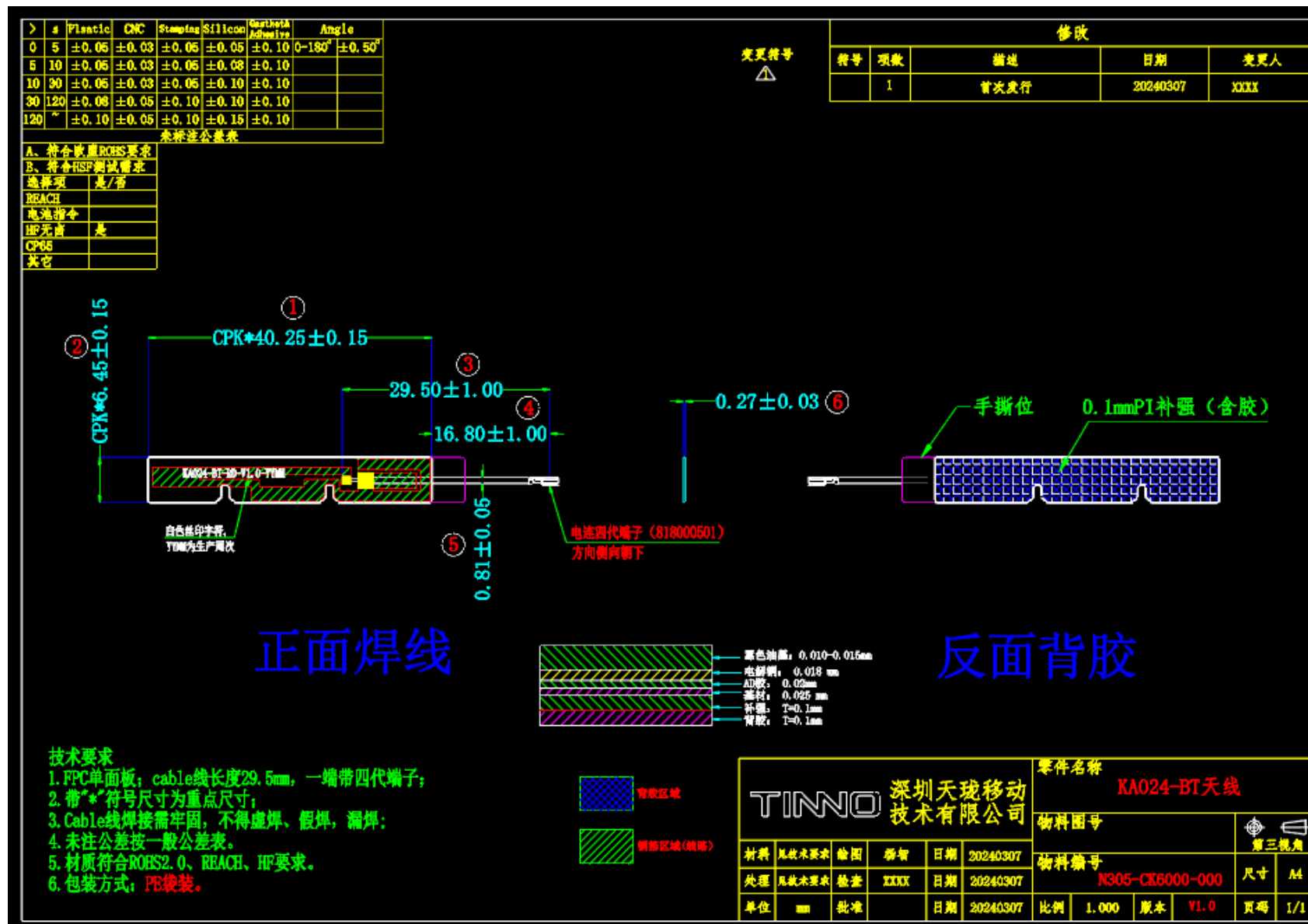
- 1 ✓ Test Environment Introduction
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Test Environment Satimo24>S2800



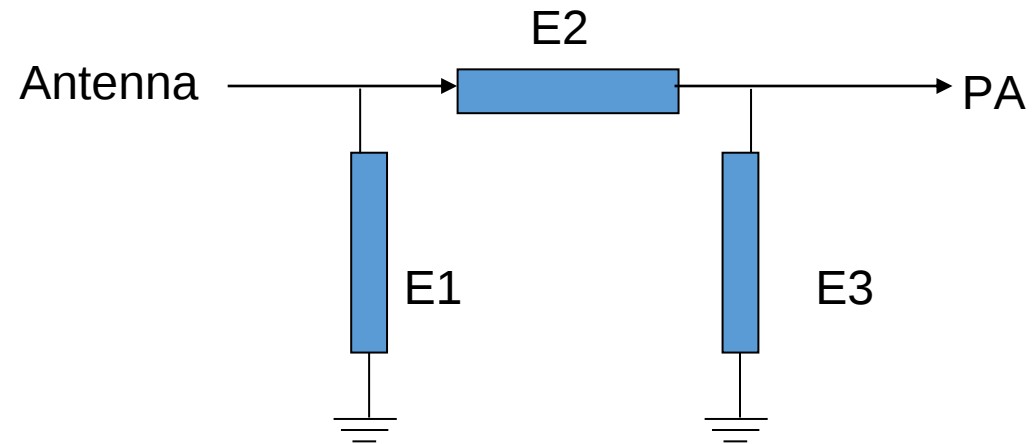


Antenna specification drawings





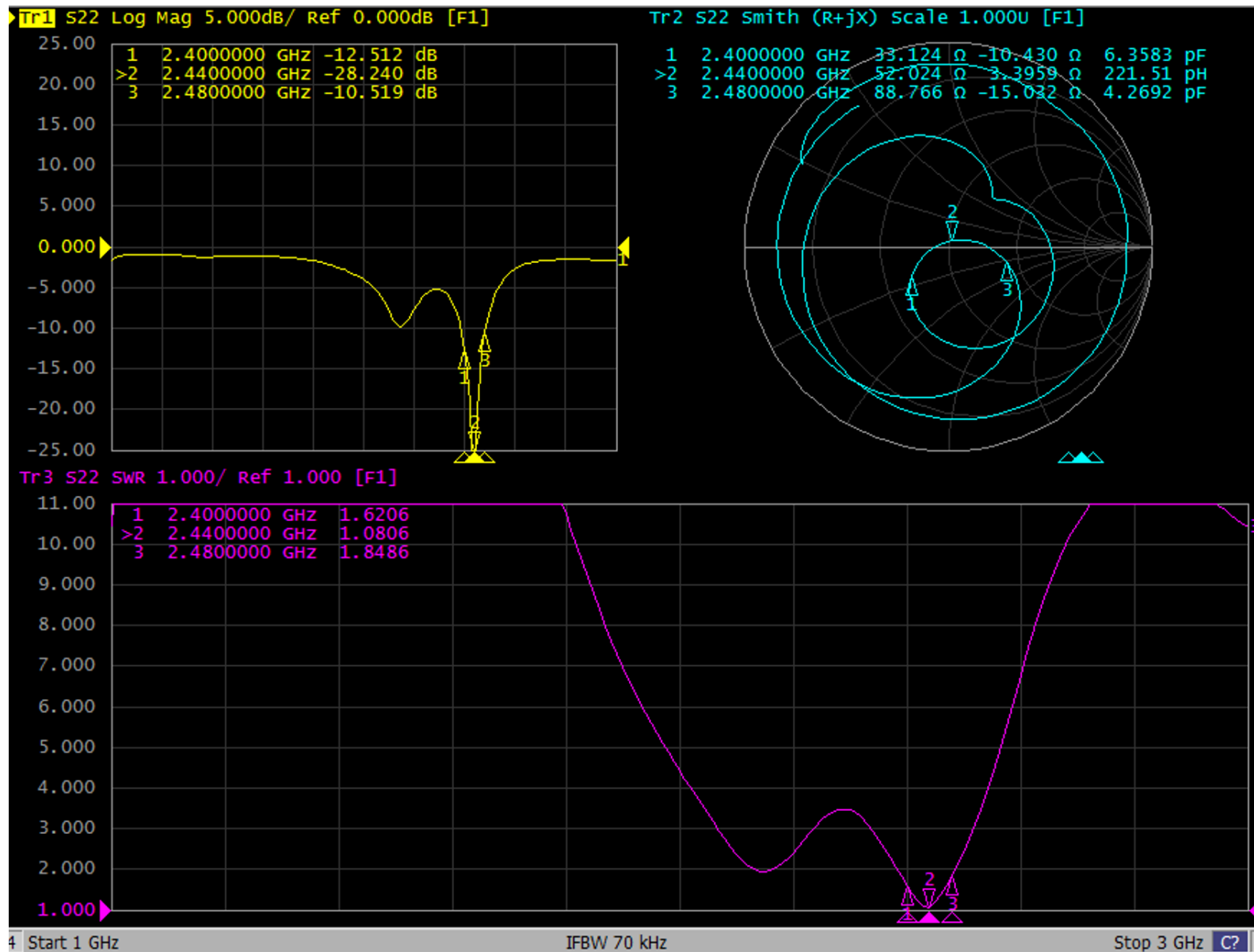
Antenna Matching



Serial Number	Lumped Parameters
E1	NC
E2	1.2PF
E3	NC



Antenna Test Data - S Parameters & SWR & Smith





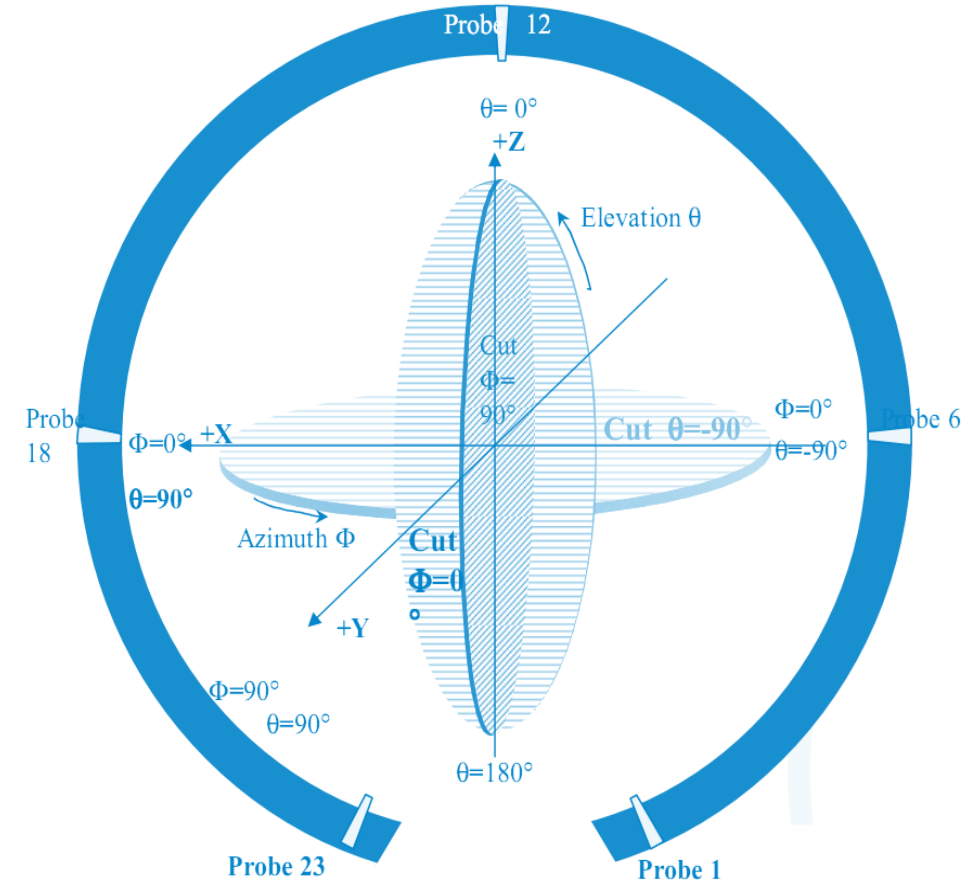
Antenna Test Data – Efficiency & Gain

Frequency(MHz)	Efficiency	Efficiency(dBm)	Gain(dBi)
2400	43%	-3.6	2.4
2410	45%	-3.5	2.5
2420	45%	-3.4	2.5
2430	47%	-3.3	2.3
2440	47%	-3.3	2.3
2450	45%	-3.5	2.0
2460	44%	-3.5	2.1
2470	42%	-3.7	2.1
2480	40%	-4.0	2.2
Average	44%	-3.5	2.3



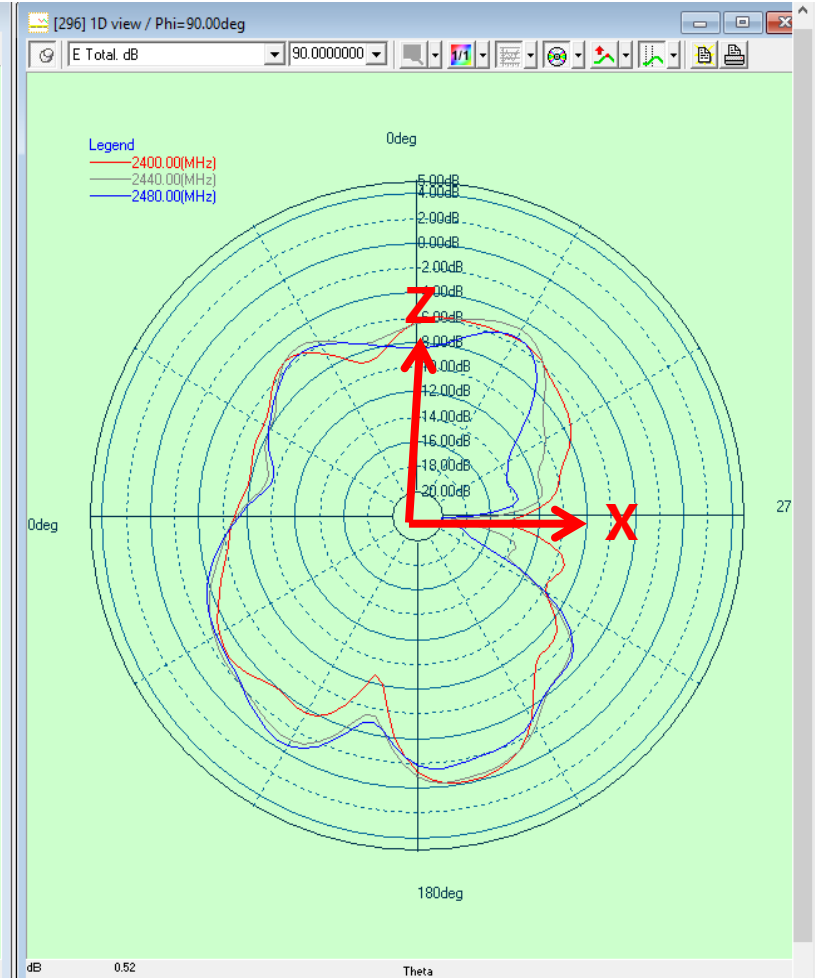
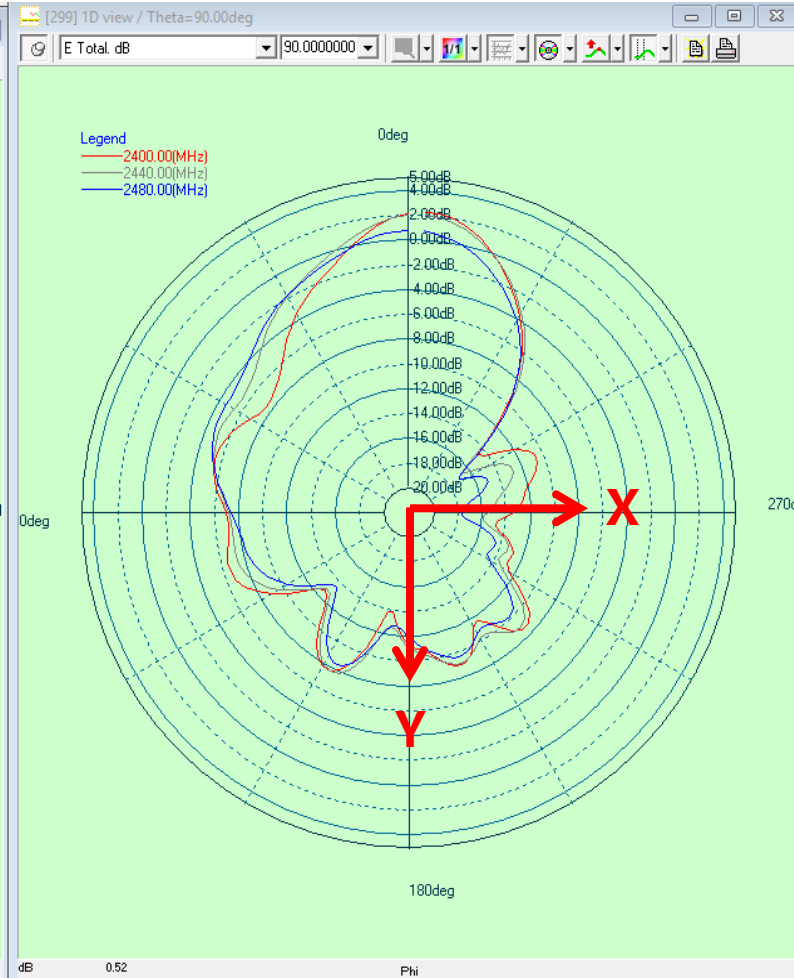
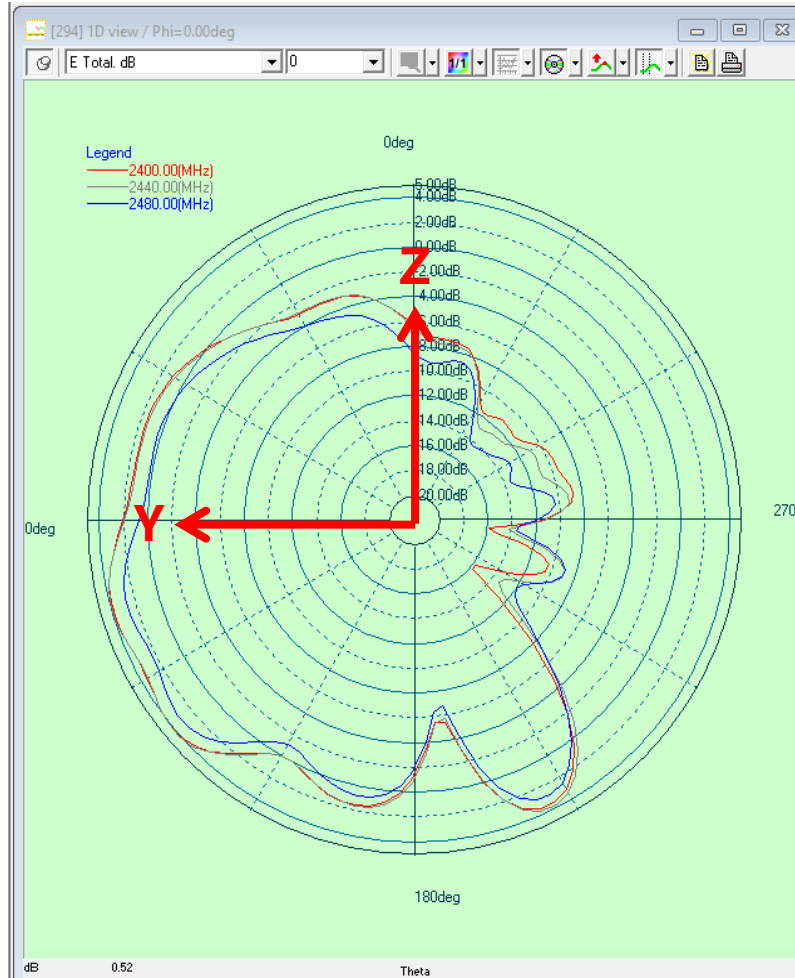
Antenna Test Data – Prototype Placement

Satimo SG16 coordinates





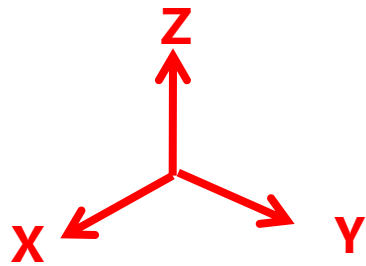
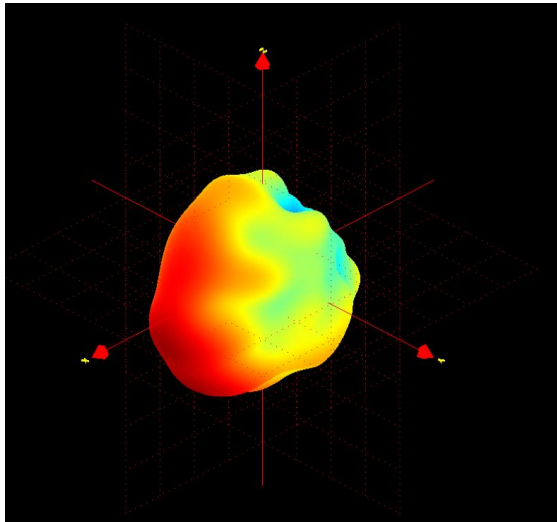
Antenna Test Data – Horizontal Radiation Pattern



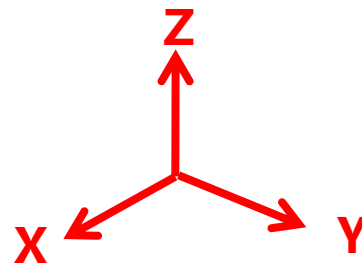
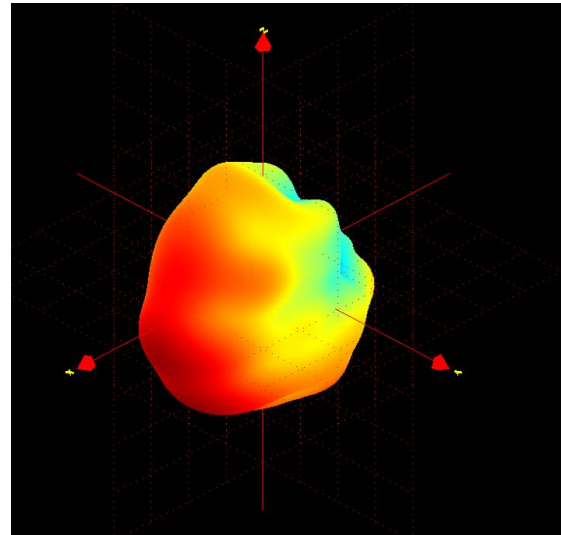


Antenna Test Data – Radiation Pattern

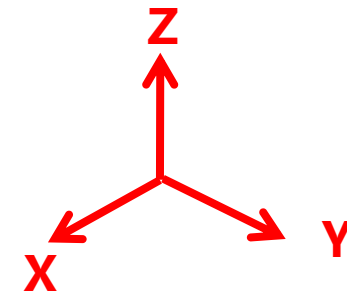
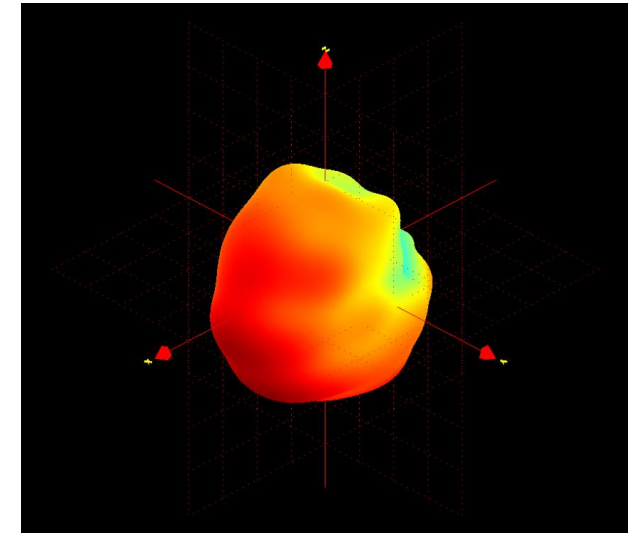
2400MHz



2440MHz



2480MHz





Conclusion

The antenna average efficiency is -3.5dBm
average gain is 2.3dBi



Thanks again for your supports !

