

LGSBTN65 Antenna Test Report

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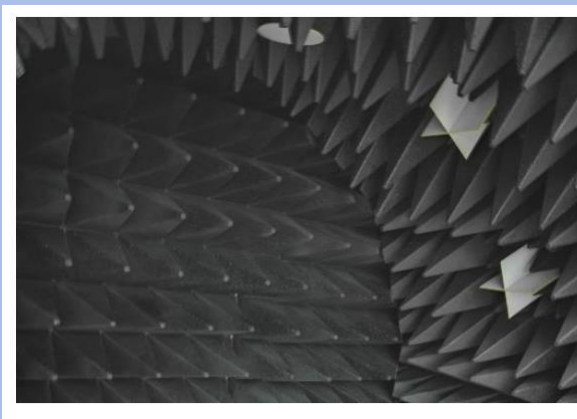
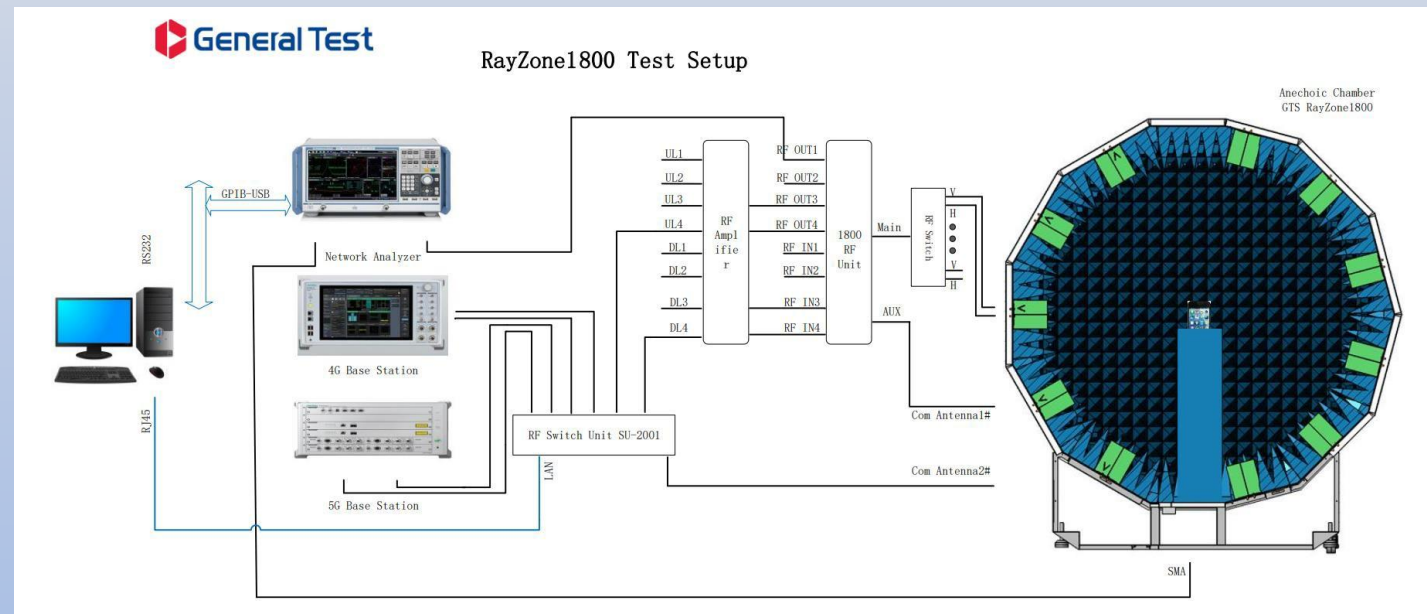
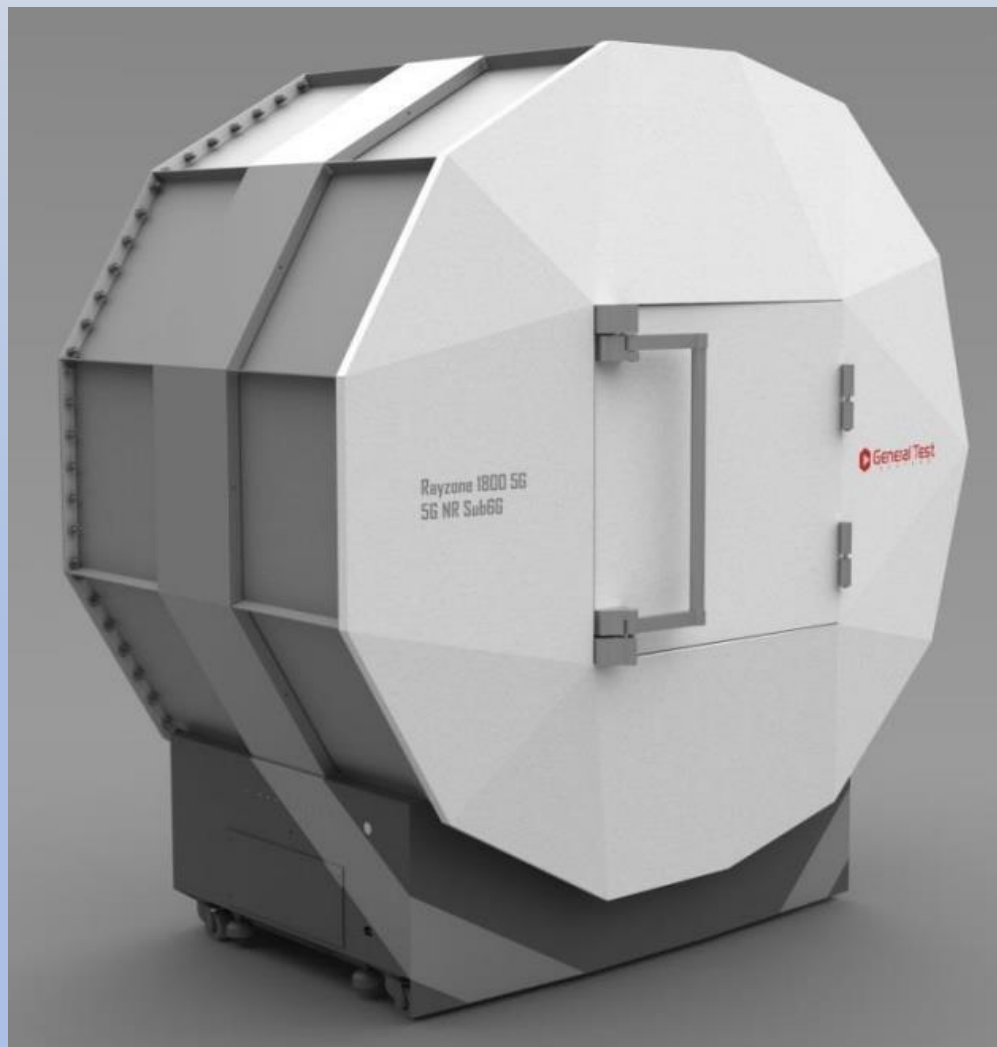
1 Measurement Information

Test information

Test Condition	Test Engineer	Test Equipment	Test Date
Radiated	Yangda Lai	GTS RayZone 1800 KEYSIGHT E5071C	11.10.2025

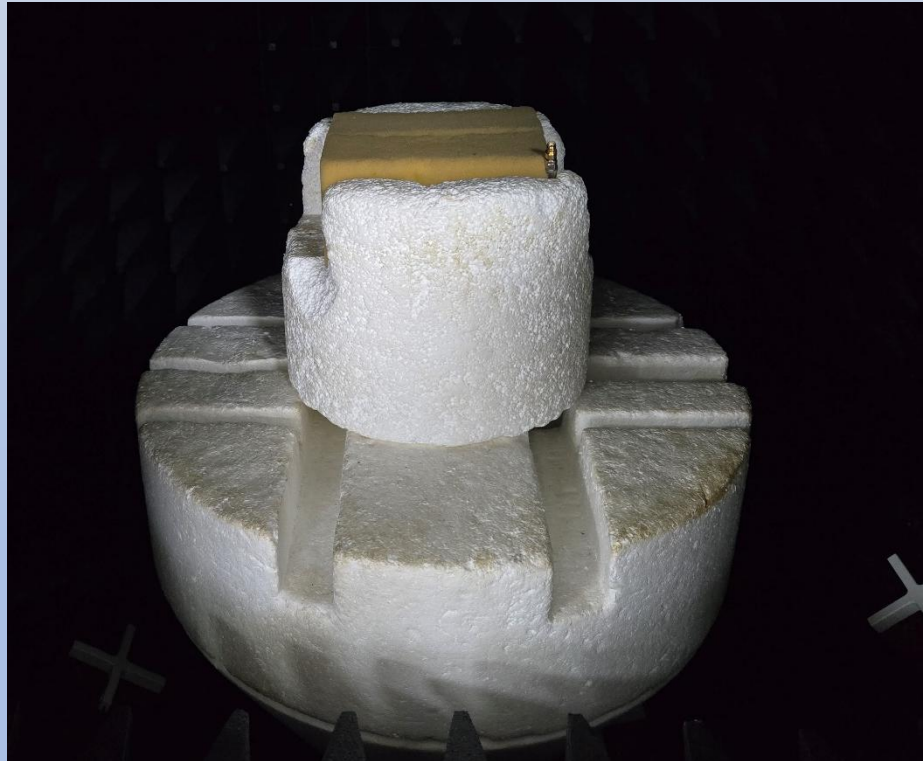
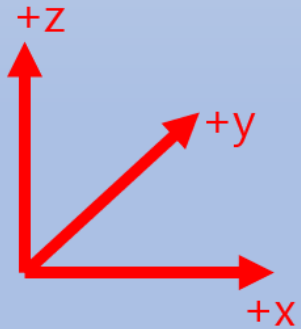
1 Measurement Information

Test Configuration



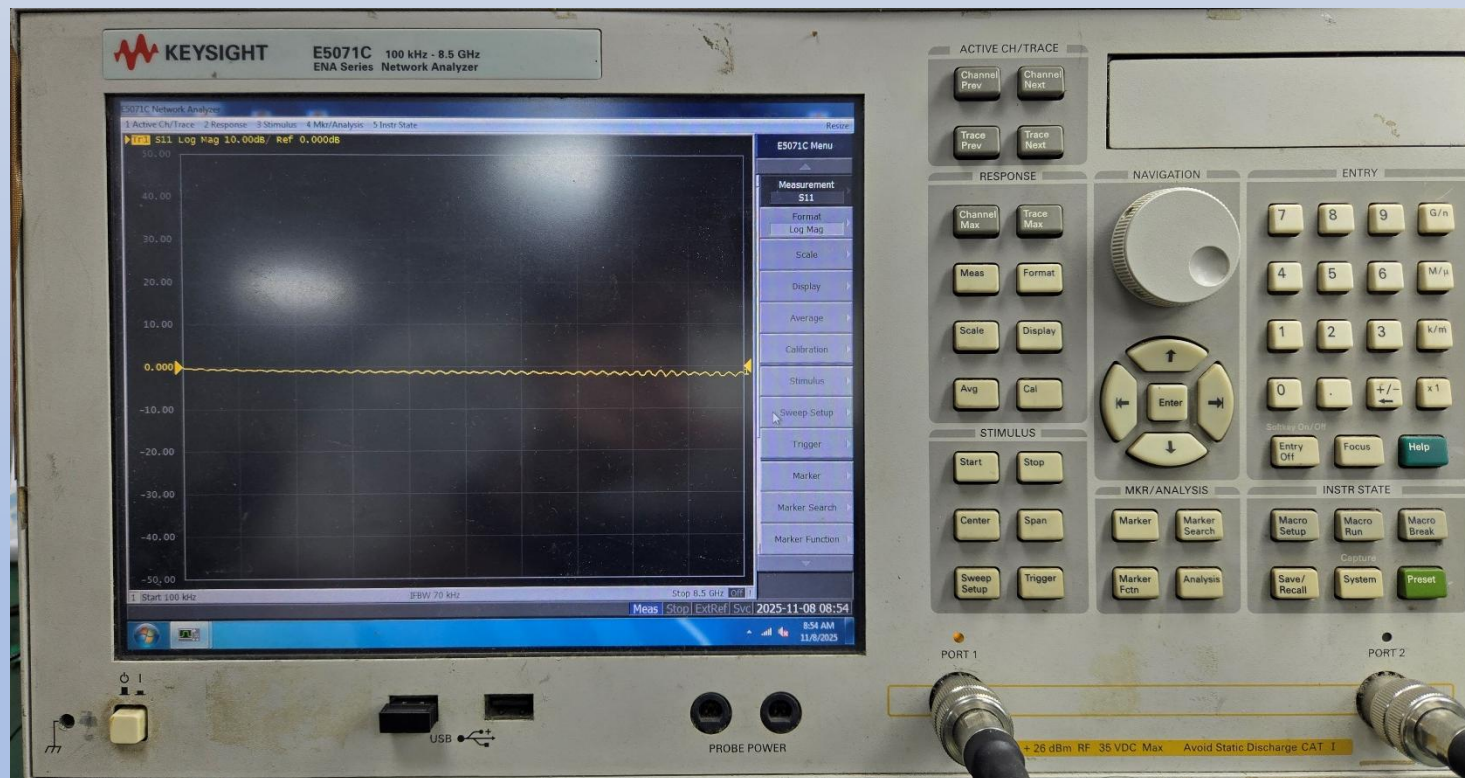
1 Measurement Information

Reference Calibration



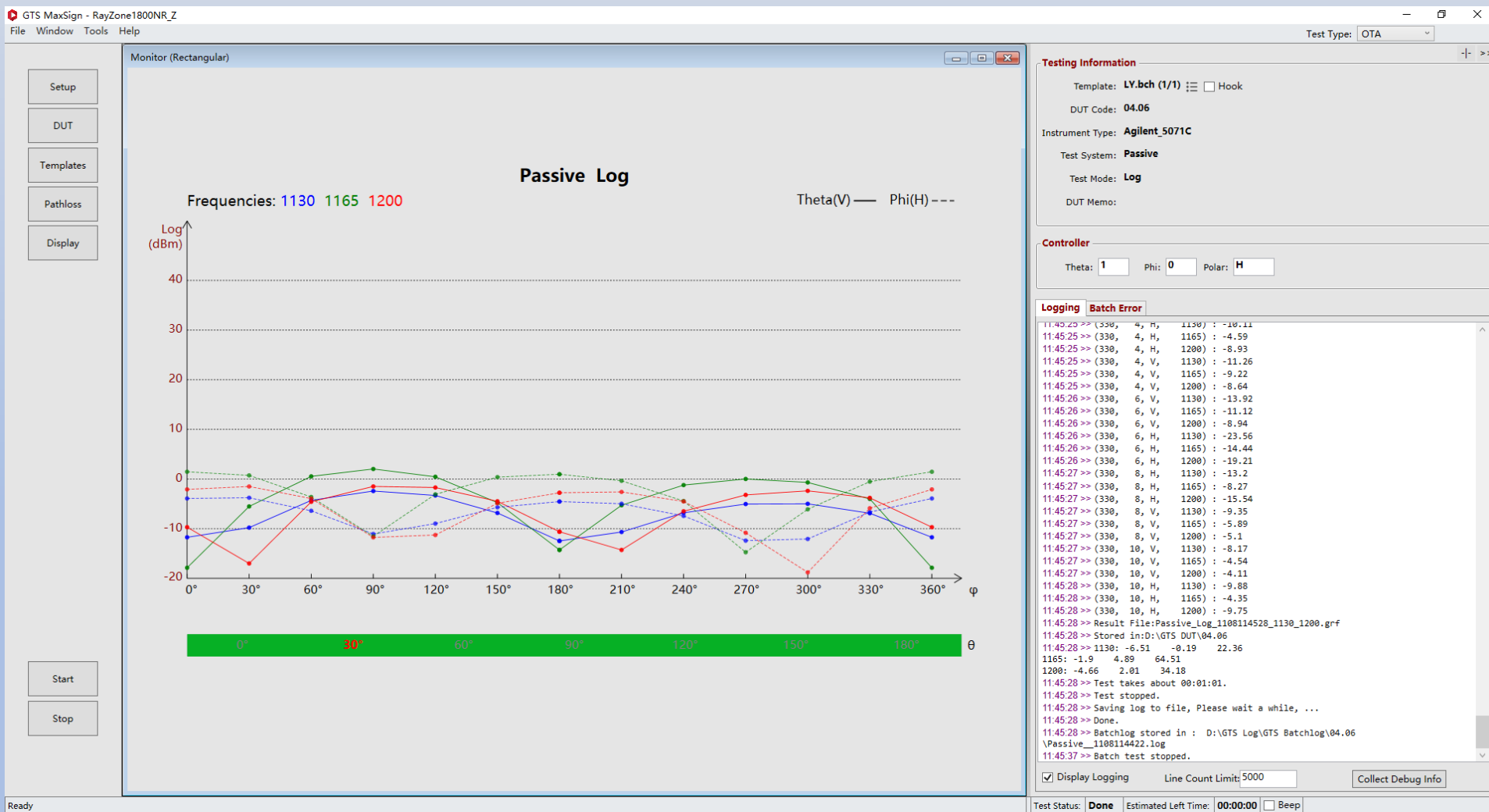
1 Measurement Information

Reference Calibration



1 Measurement Information

Test Software



1 Measurement Information

Antenna Information overview

Antenna Characteristics	Details
Antenna Type & Form	PIFA Antenna
Antenna Gain (dBi)	Refer to Antenna Specification Sheet
Directionality	Omnidirectional
Antenna Polarization	Not applicable
Connection Type to Transmitter	Internal type
Manufacturer & Model	BT ANT : Manufacturer : Hanyang model : F00100001008
Gain Measurement Institution	GTS RayZone 1800 KEYSIGHT E5071C

1 Measurement Information

Antenna Information overview

Ant. Position	Ant. Type	Dimensions
BT	PIFA	8*7.8*2.5mm

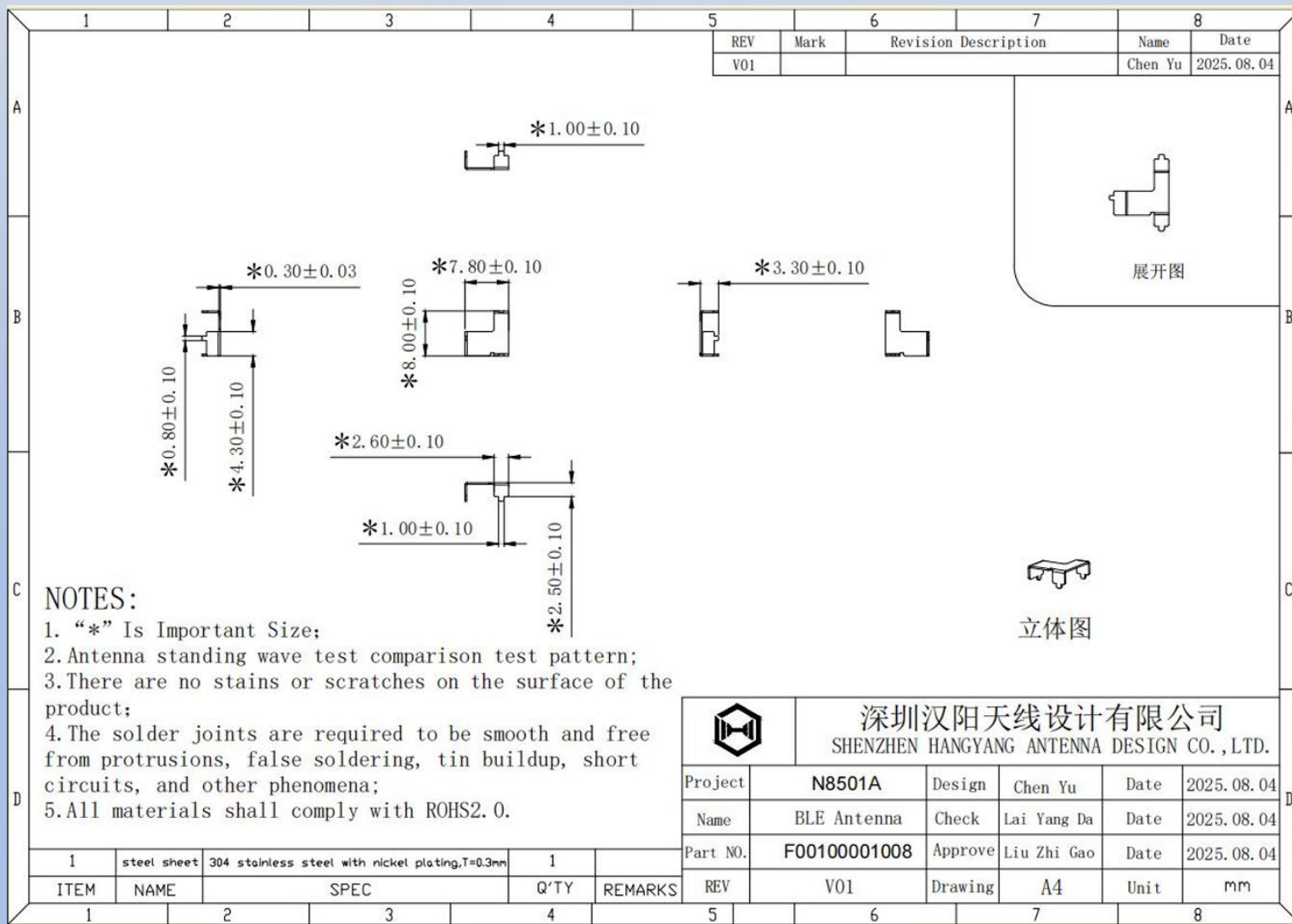
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1 Measurement Information

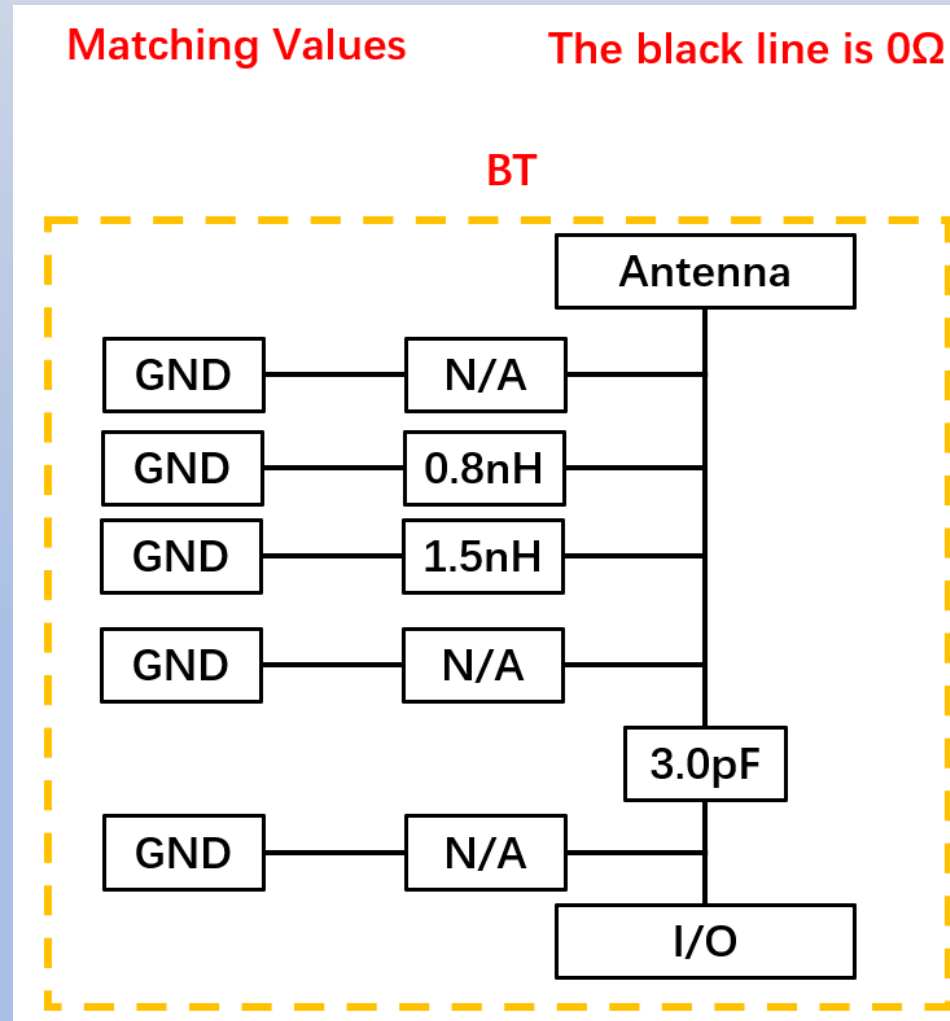
1.2 Antenna Solution Detail

Antenna Information



1 Measurement Information

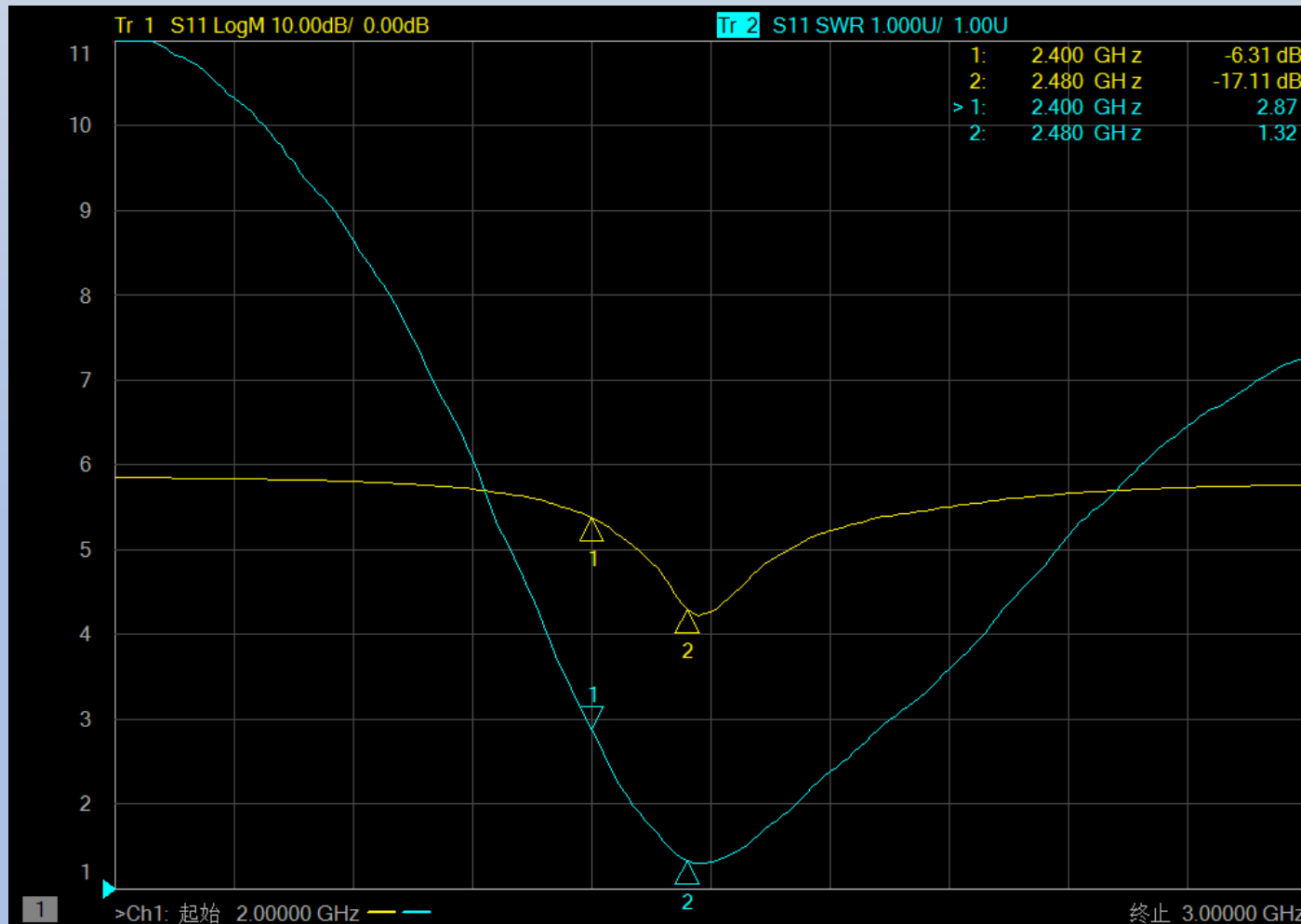
1.2 Antenna Solution Detail



2 Antenna Characteristics

2.1 Return Loss

S11

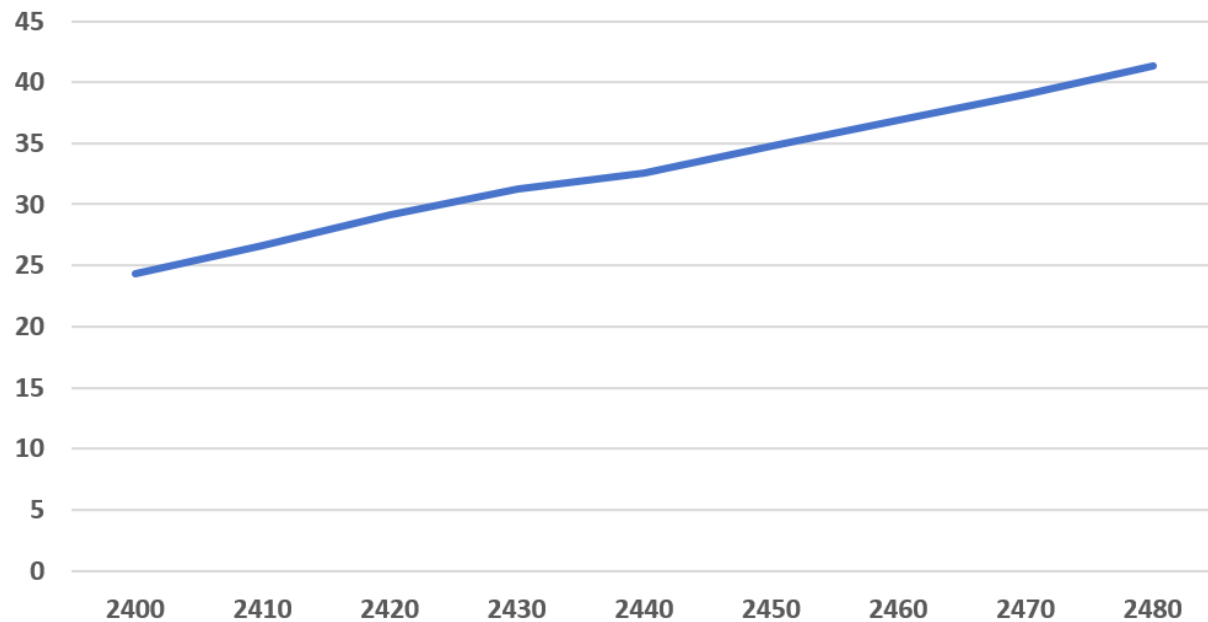


2 Antenna Characteristics

2.2.1 Antenna Efficiency and Peak Gain

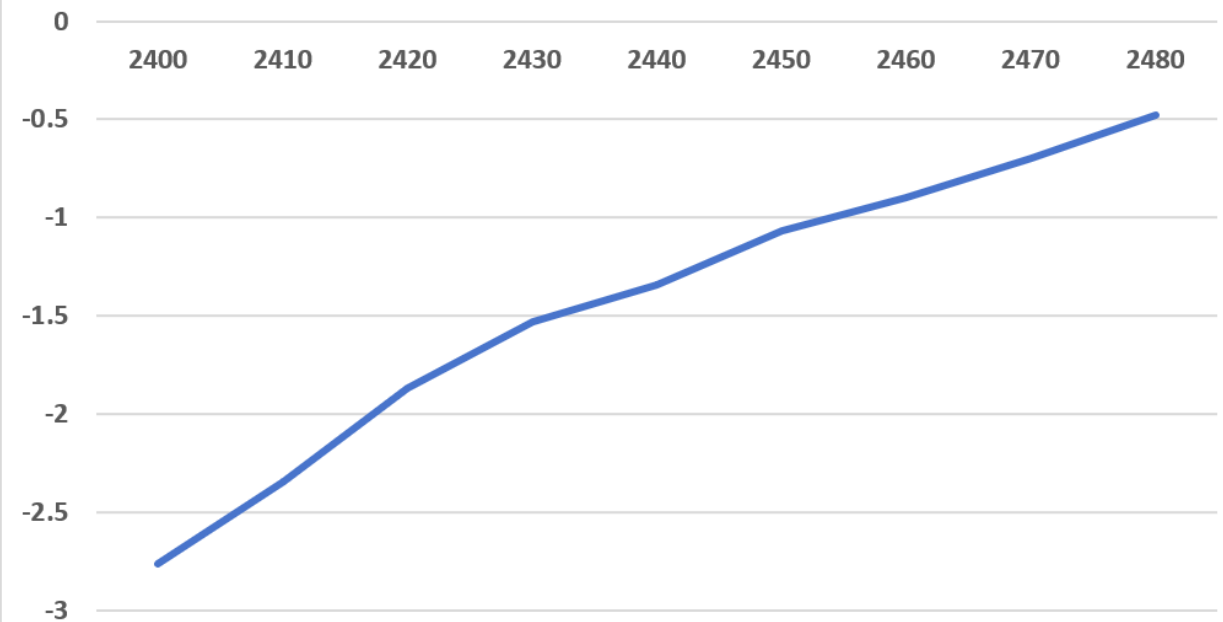
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efficiency



Maximum Efficiency at 2480MHz:41.3%

Gain



Maximum Gain at 2480MHz:-0.48dBi

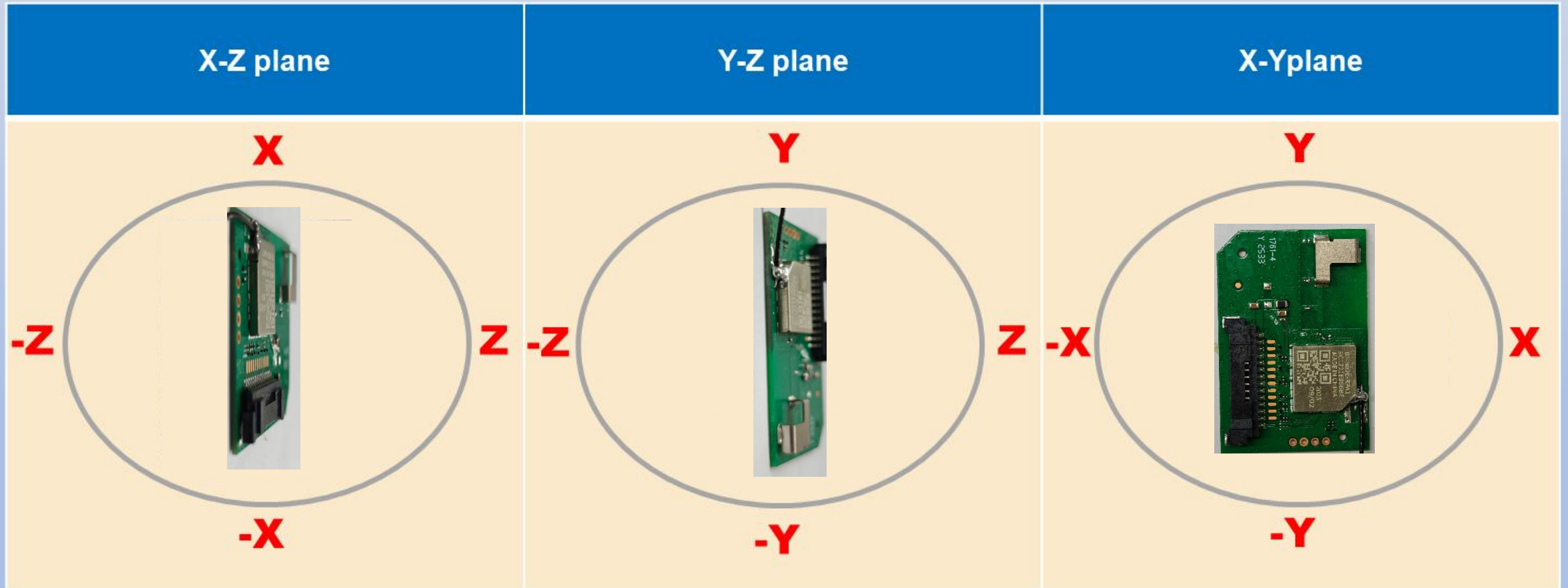
2 Antenna Characteristics

2.2.2 Antenna Efficiency and Peak Gain

Metal ANT_FreeSpace			
Freq	Efficiency dB	Gain_dBi	Efficiency Pcent_ %
2400	-6.14	-2.76	24.3
2410	-5.74	-2.34	26.67
2420	-5.35	-1.87	29.14
2430	-5.06	-1.53	31.22
2440	-4.88	-1.34	32.53
2450	-4.59	-1.07	34.79
2460	-4.33	-0.9	36.92
2470	-4.09	-0.7	39
2480	-3.84	-0.48	41.3

2 Antenna Characteristics

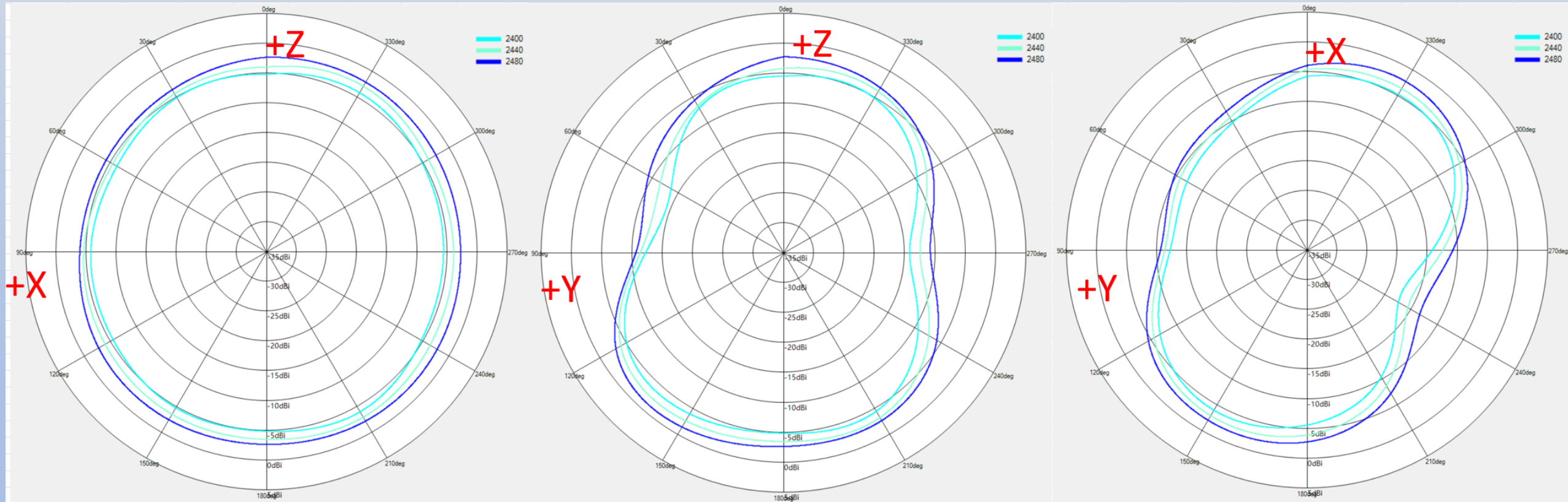
2.3.1 3 views of antenna



2 Antenna Characteristics

2.3.2 2D Radiation Patterns

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	zx plane		zy plane		xy plane	
Frequency (MHz)	Max Value[dBi]	Average Value[dBi]	Max Value[dBi]	Average Value[dBi]	Max Value[dBi]	Average Value[dBi]
2400	-3.95	-5.13	-3.91	-7.67	-3.9	-9.15
2440	-2.85	-3.87	-2.58	-6.31	-2.85	-7.84
2480	-2.07	-2.72	-1.38	-5.05	-1.96	-6.63

Thank you!