

NE1-24109

DAP-X3060W

Antenna Test Report

Version: V 1.06

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Reviewed By: Stone

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Specification

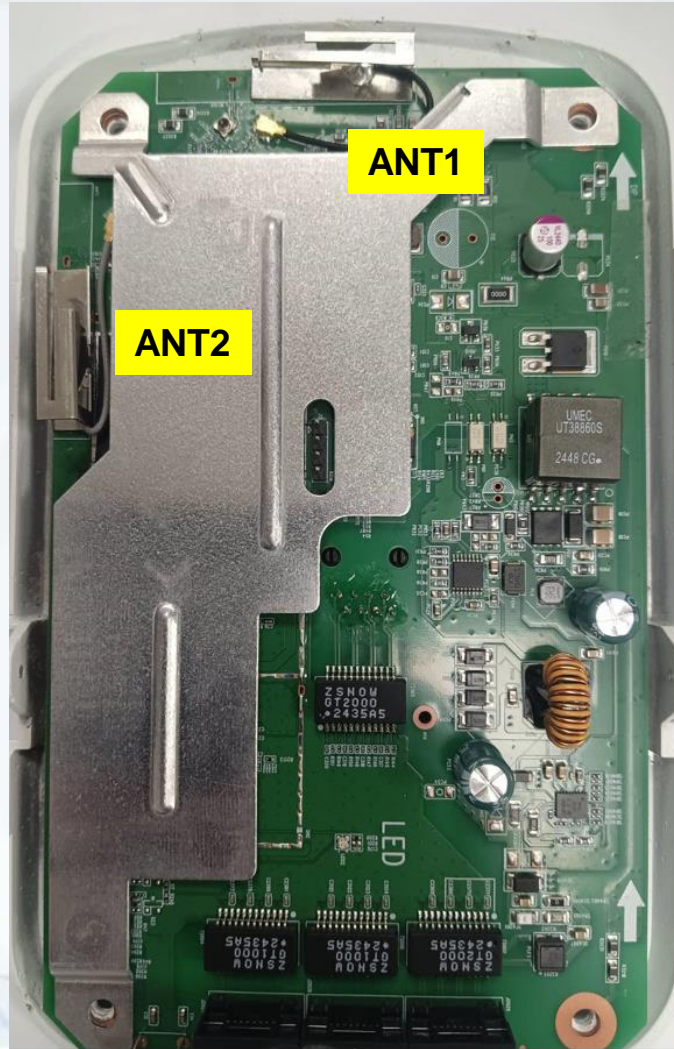
Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
WLAN 2G/5G	ANT	2400~2500 MHz /5150~5850 MHz	

Requirements of Measurement

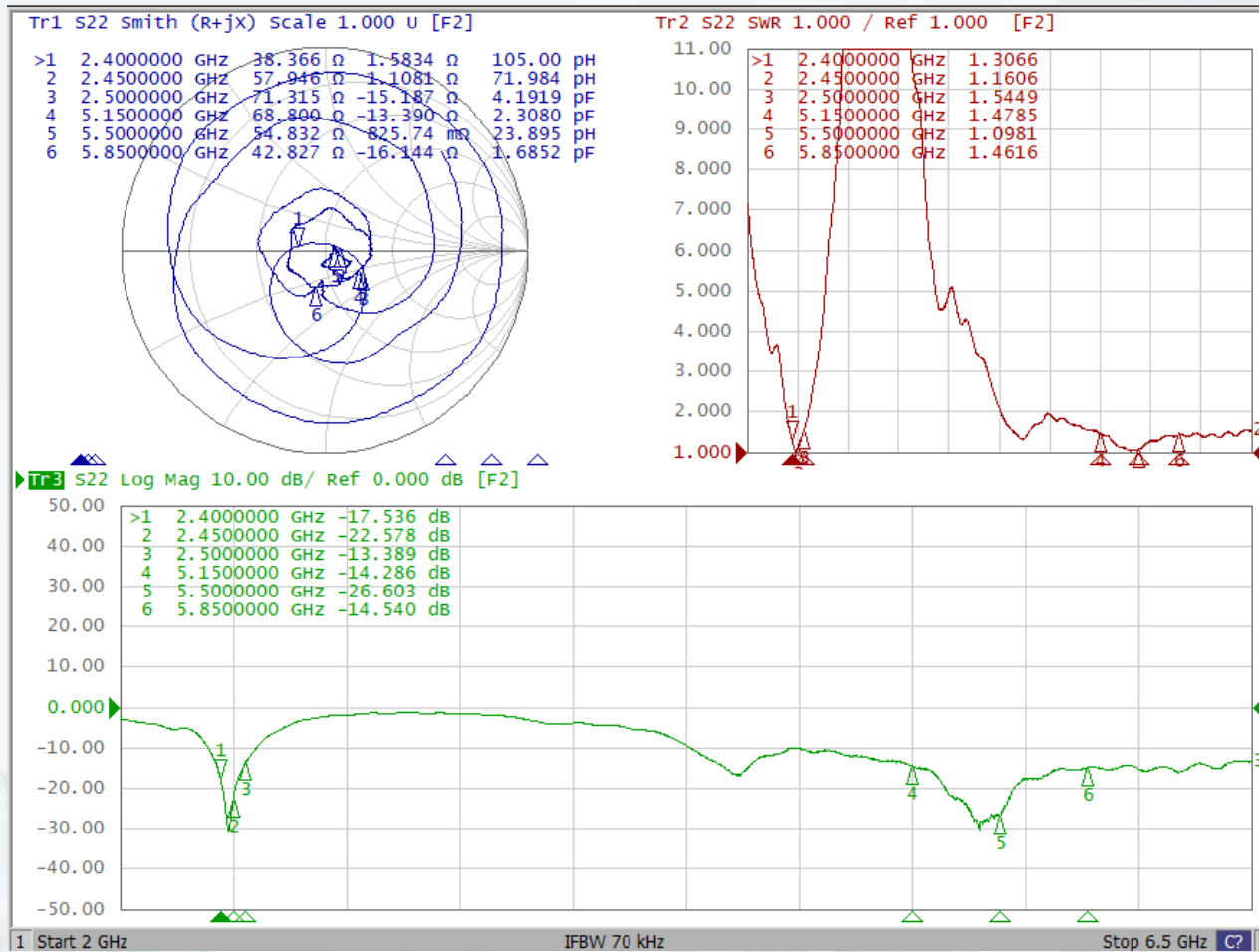
Test Item	Specification	Remark
Return Loss	10dB	
Peak Gain	N/A	
Efficiency	N/A	
Radiation pattern	Scale: +10 ~ -40dBi, Angle step size: 5 degree	

Antenna Placement & Solution



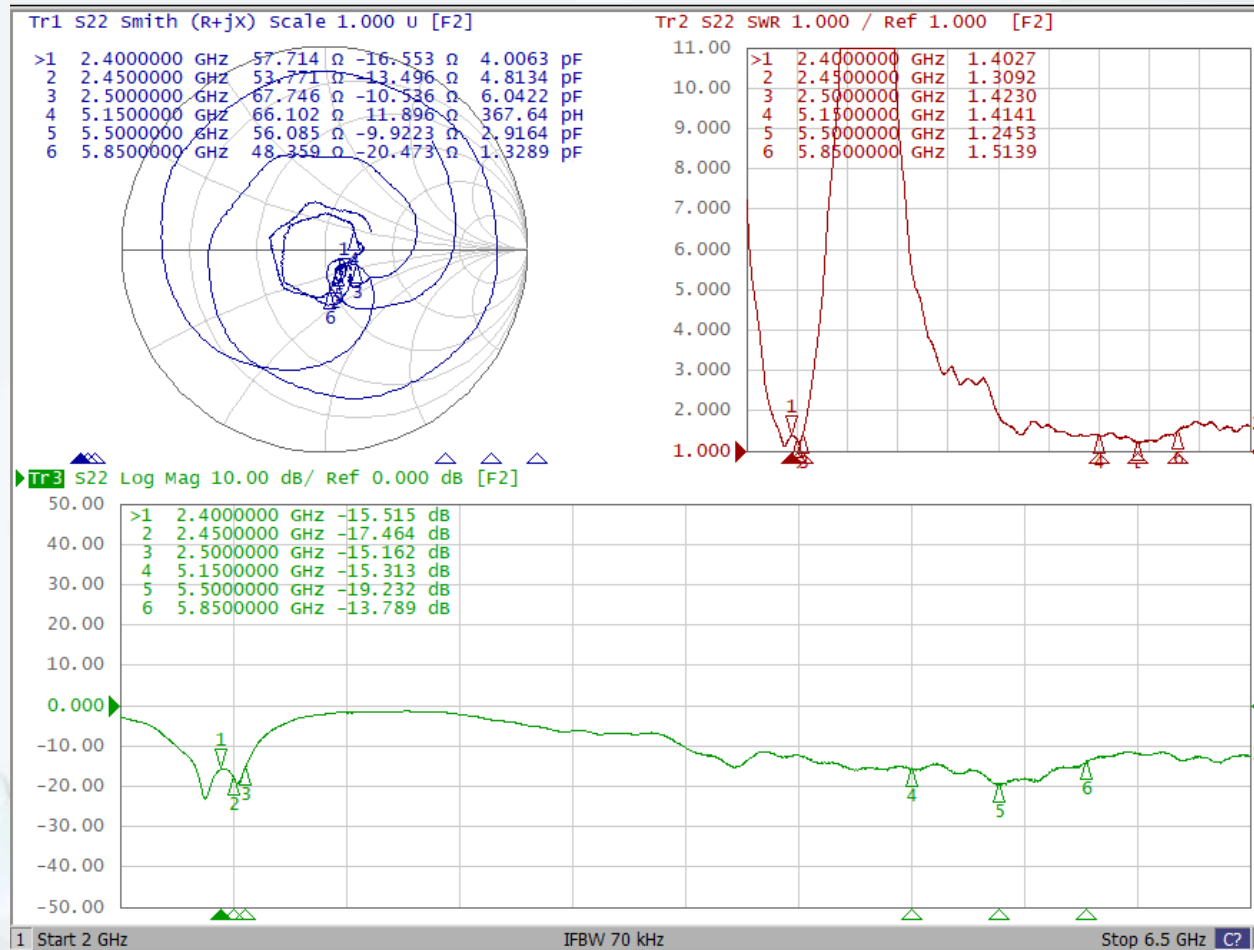
Return Loss Results

Antenna (ANT1)



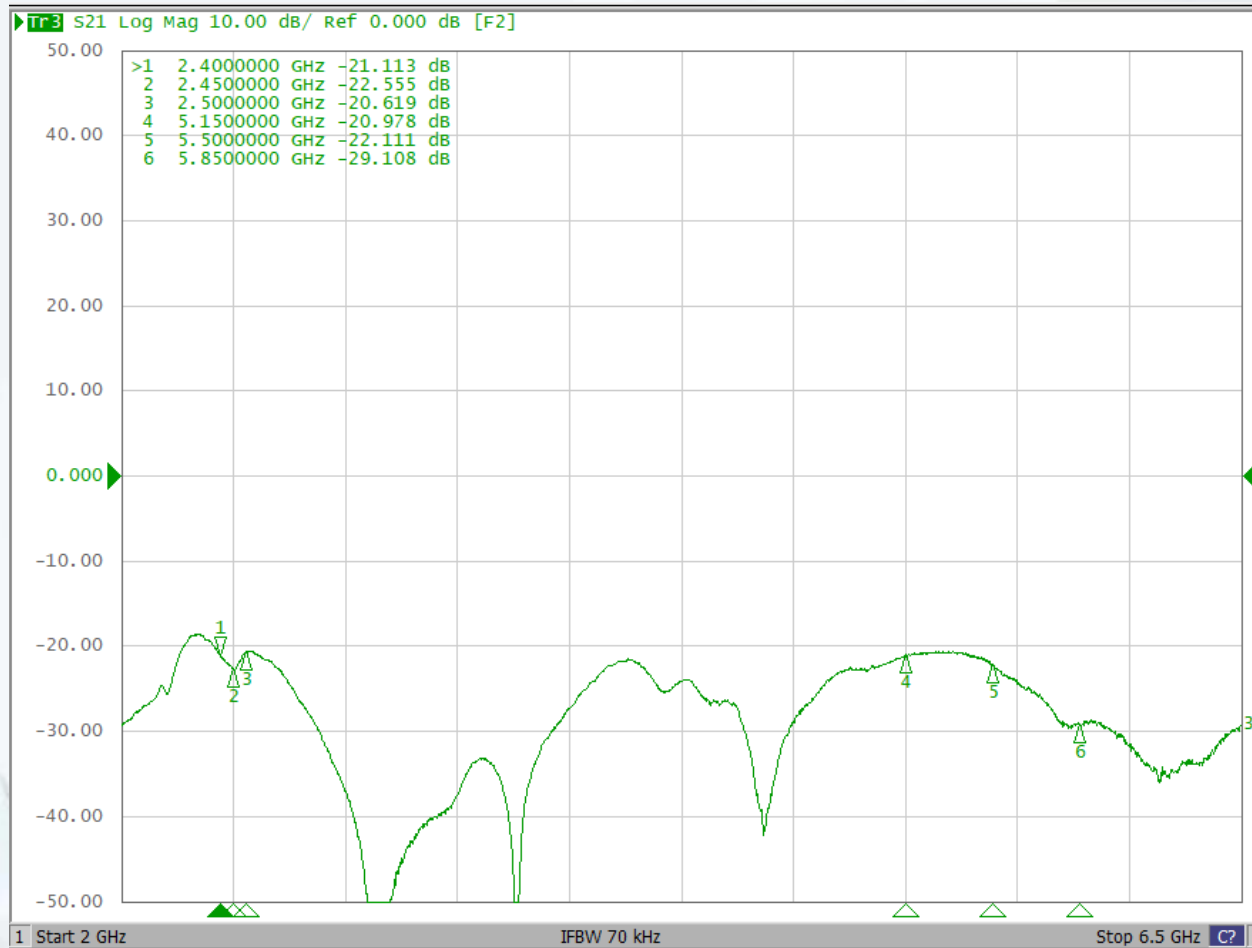
Return Loss Results

Antenna (ANT2)



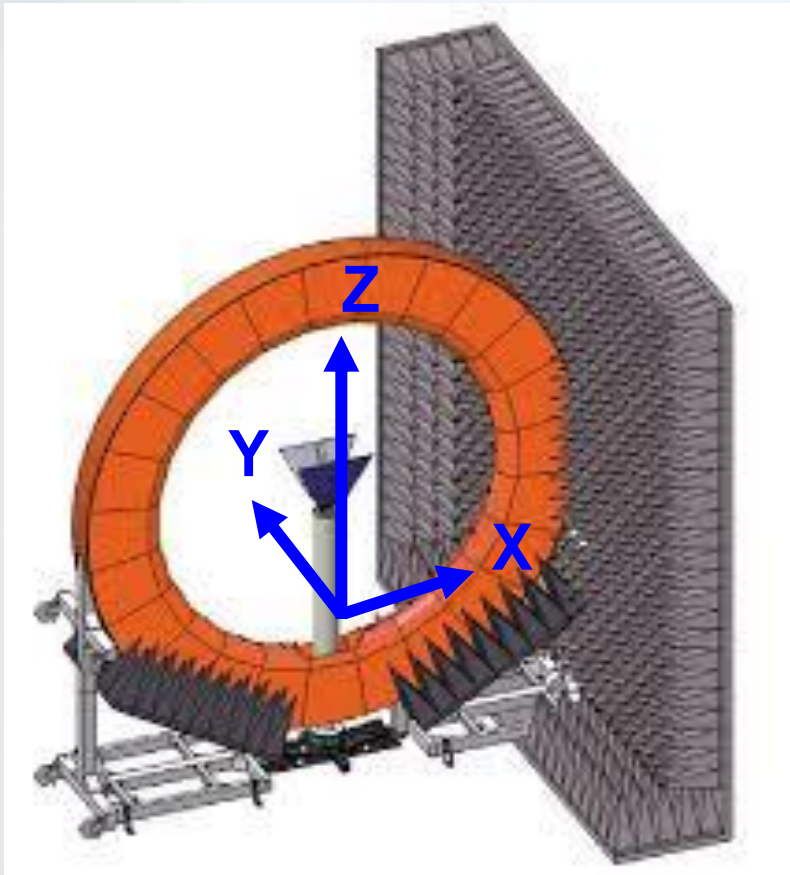
Return Loss Results

Isolation



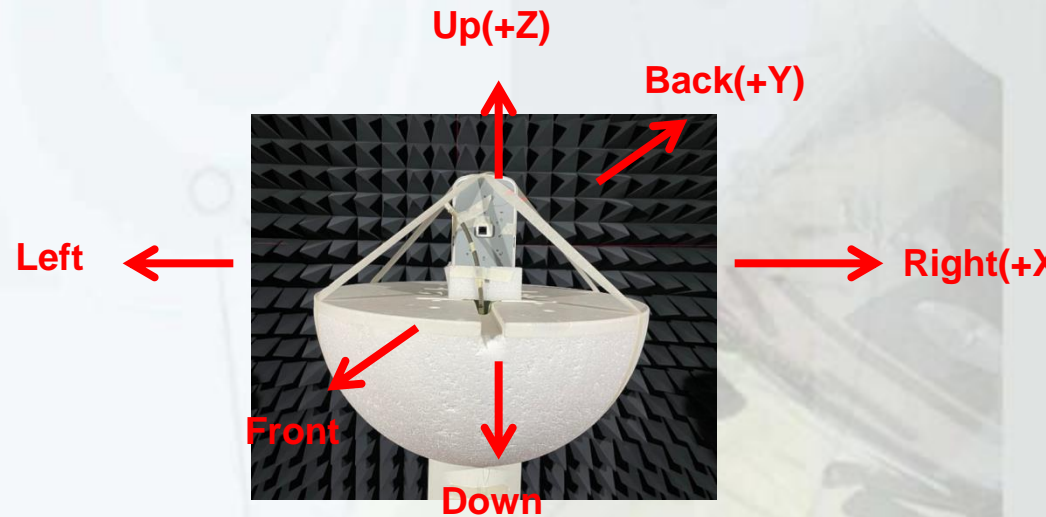
Test Setup for Radiation Pattern Measurement

Chamber Information

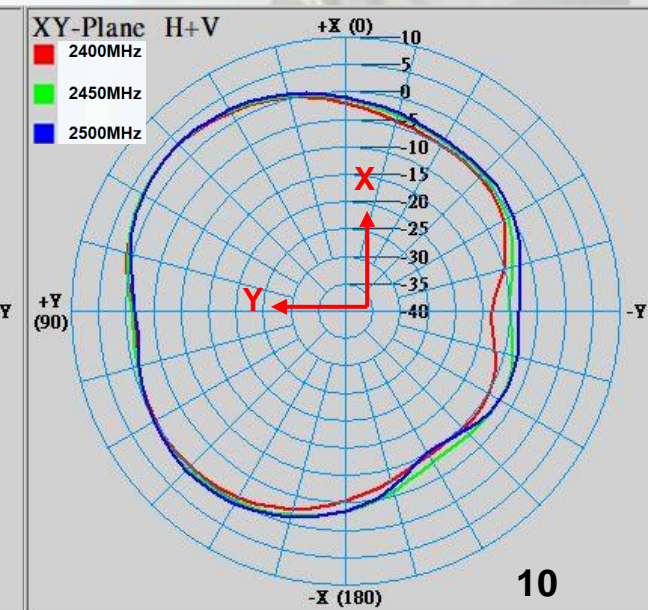
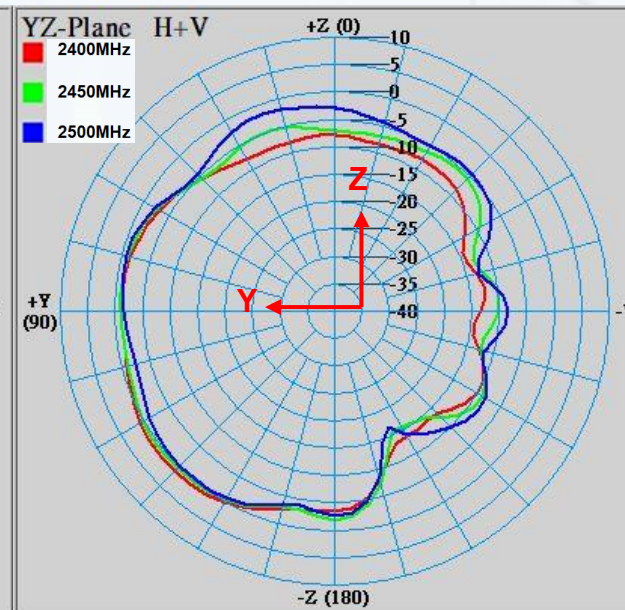
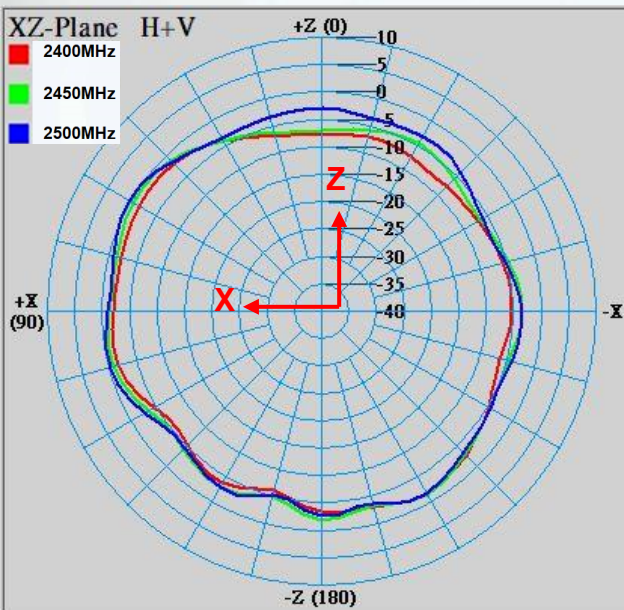
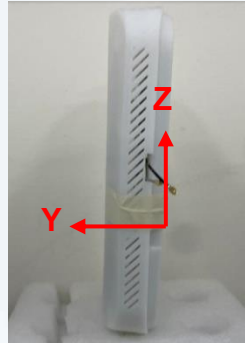
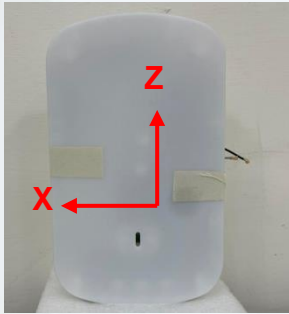


- **SATIMO SG-24L Multi-Probe Antenna Measurement System**

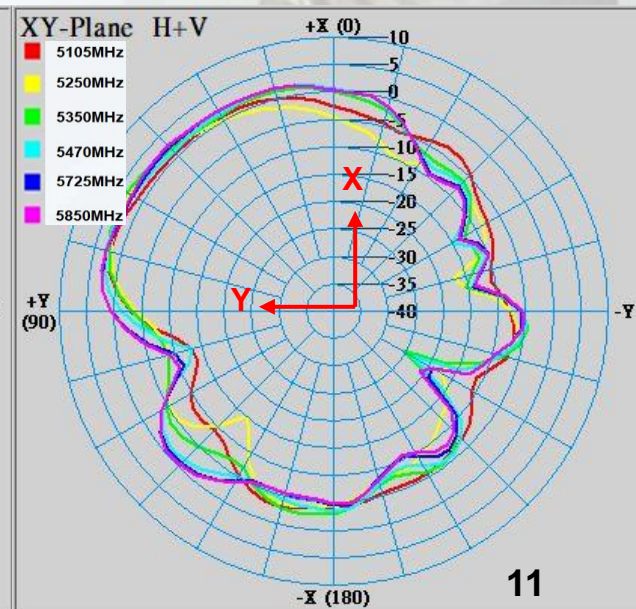
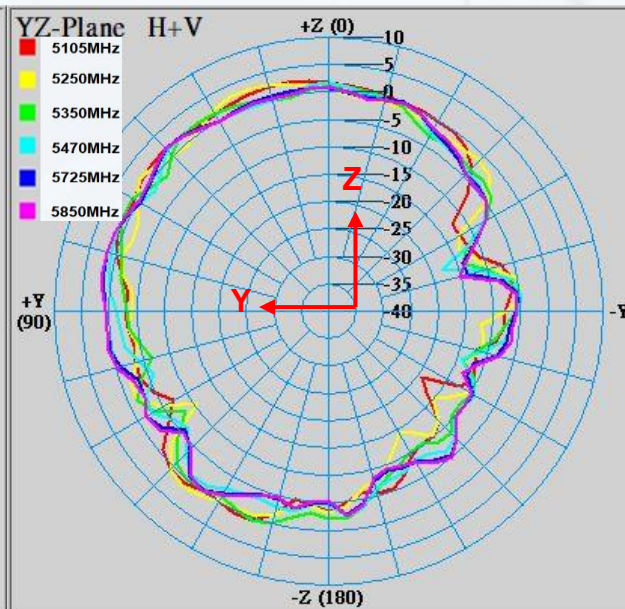
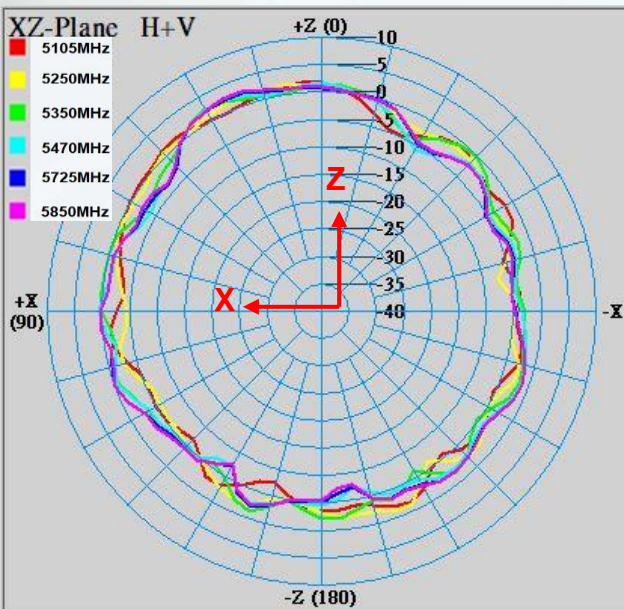
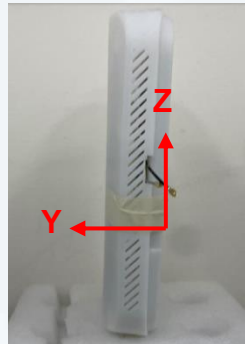
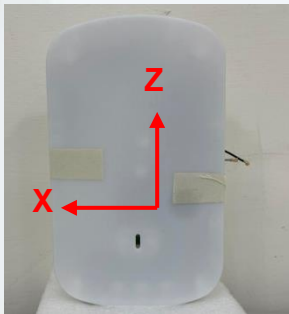
- Angle between probes: 15°
- Frequency range: 400 MHz – 8.5 GHz
- Chamber Room Size: 5m L x 5m W x 5m H



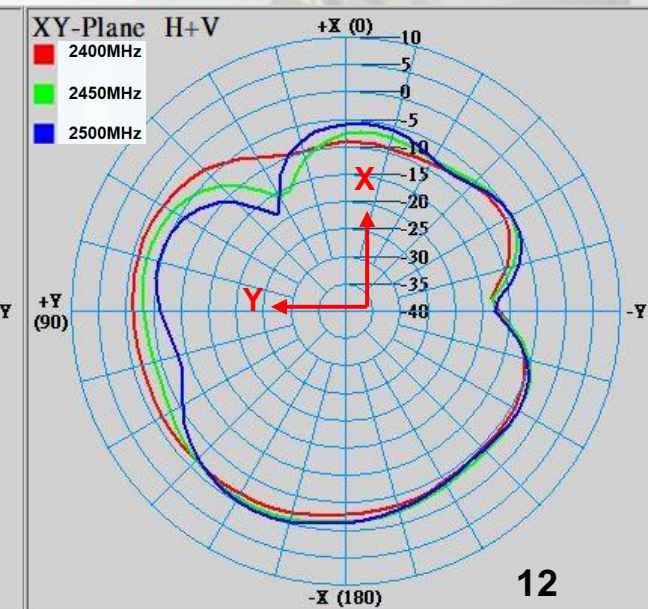
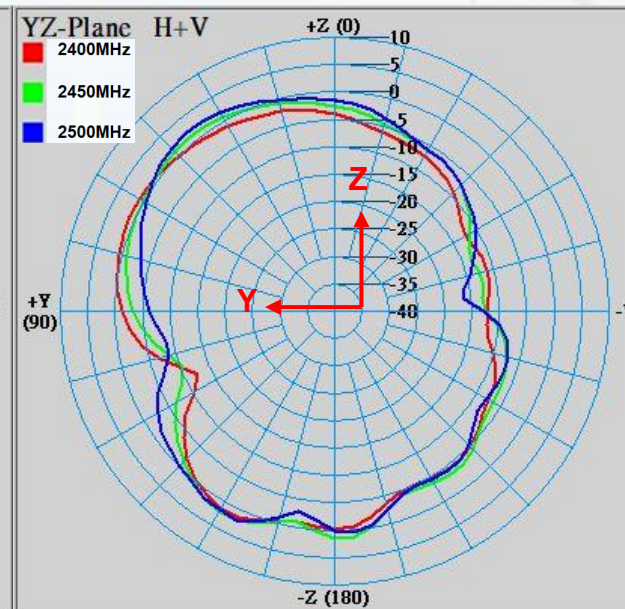
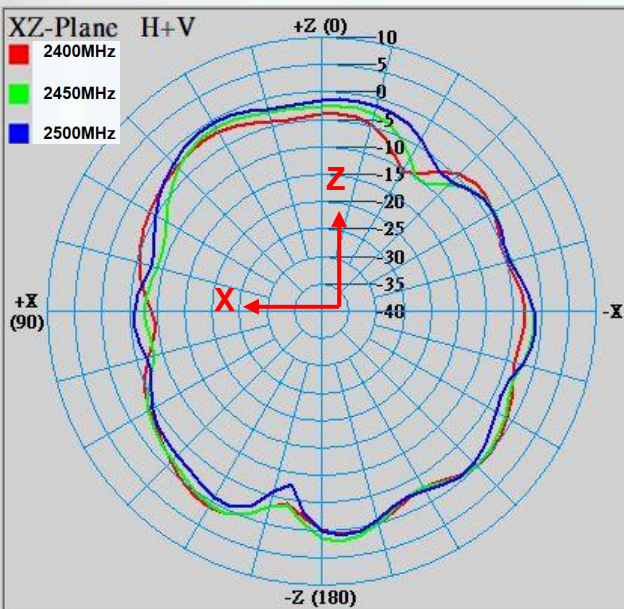
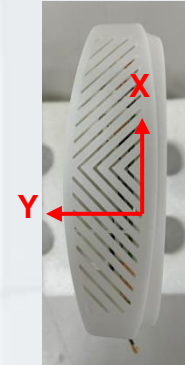
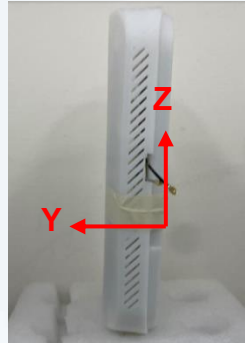
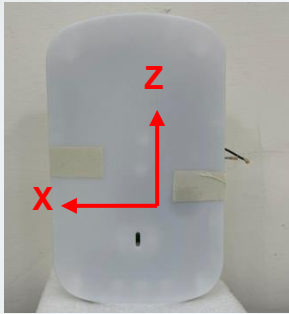
2D Radiation Pattern Results ANT1 (2.4G)



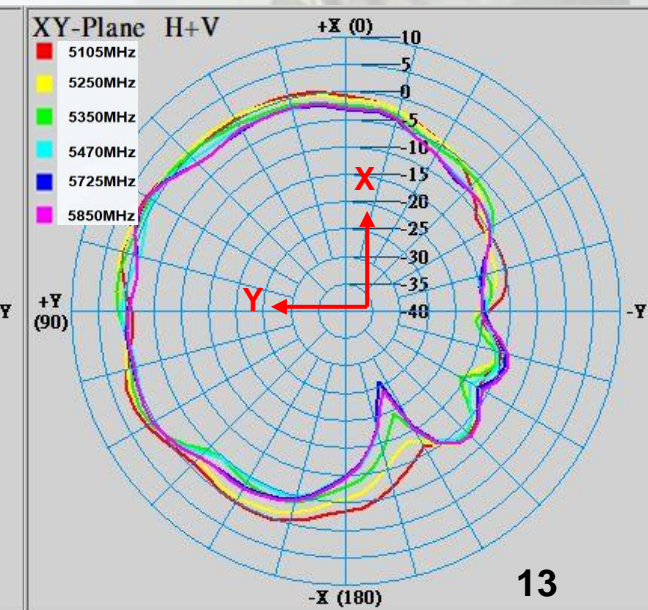
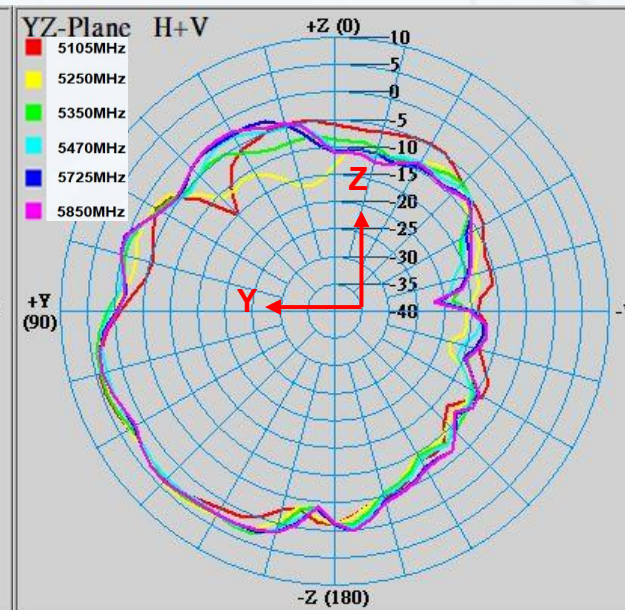
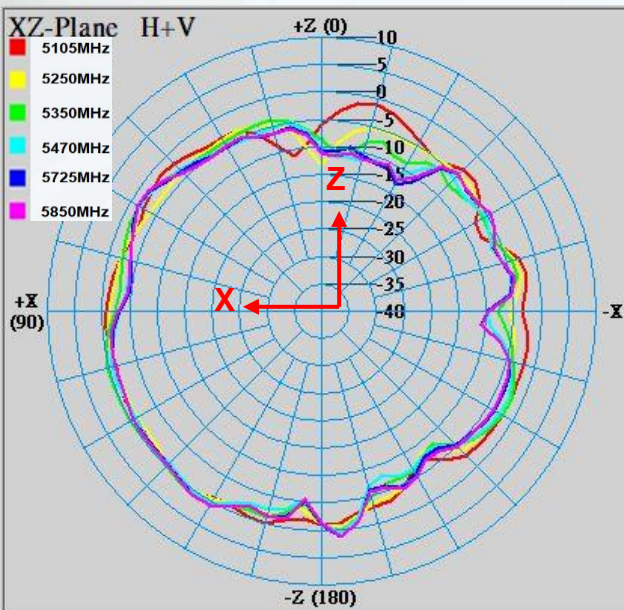
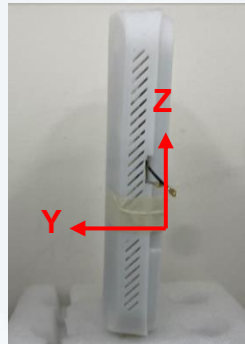
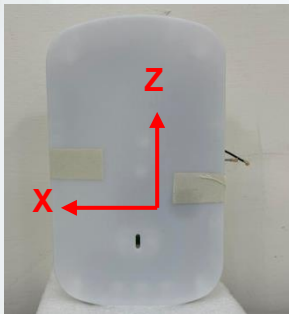
2D Radiation Pattern Results ANT1 (5G)



2D Radiation Pattern Results ANT2 (2.4G)



2D Radiation Pattern Results ANT2 (5G)



Results Summary

Return Loss

Frequency (MHz)	ANT1	ANT2
2400	17	15
2450	22	17
2500	13	15
5150	14	15
5500	26	19
5850	14	13

Results Summary

Isolation

Frequency (MHz)	ANT1-ANT2
2400	21
2450	22
2500	20
5150	20
5500	22
5850	29

Results Summary

Peak gain & Efficiency

Frequency (MHz)	ANT1 3D Peak Gain (dBi)	ANT1 Efficiency (%)	ANT2 3D Peak Gain (dBi)	ANT2 Efficiency (%)
2400	2.91	62.60	2.79	63.71
2450	2.83	63.76	2.85	66.76
2500	2.98	65.33	2.39	64.63
5150	4.82	73	4.84	73.23
5250	4.97	75.38	4.93	74.94
5350	4.99	75.87	4.97	76.50
5470	4.5	73.51	4.82	75.28
5725	4.87	75.52	4.93	75.19
5850	4.93	74.83	4.91	74.74