

LYNwave Technology

Antenna & Thermal solution provider

Antenna Test Report

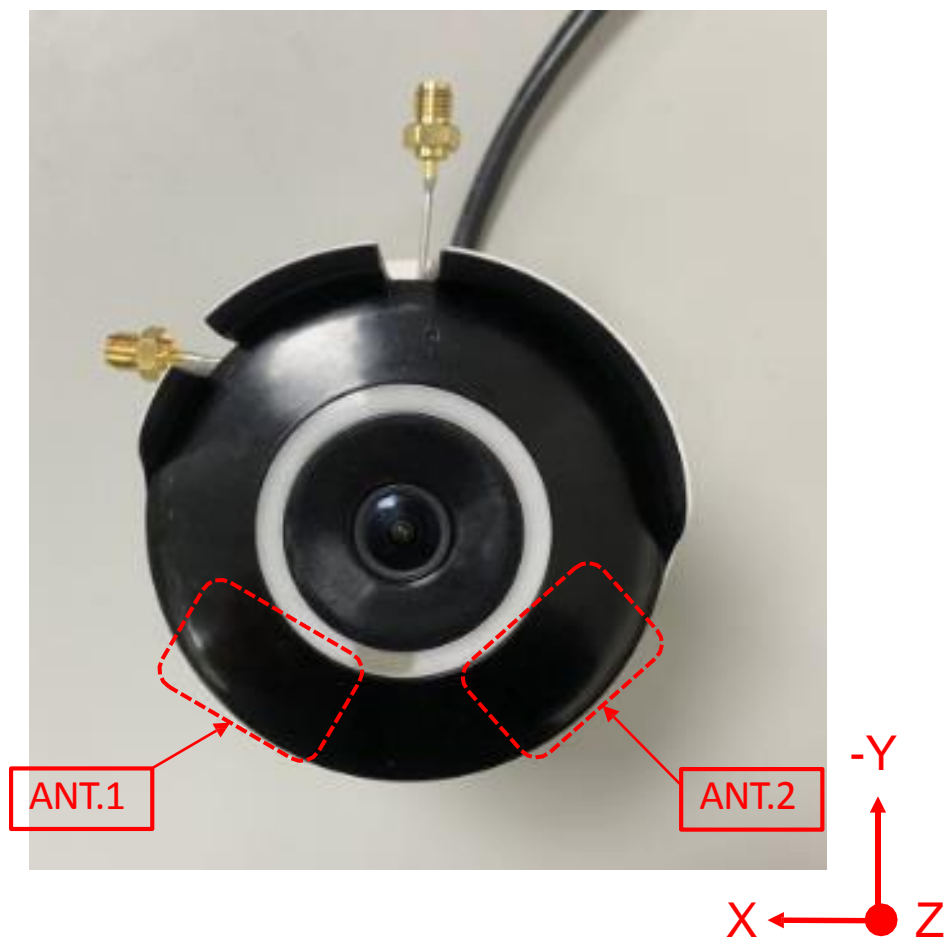
Project Name: RCO3916
Model Name: Ant1 : LYNwave/ALX18M-052AA3 Antenna type :Embedded
Ant2 : Xavi / LED ante Antenna Type : PCB
Feature: 2.4G/5G
Application: Camera

Date	Owner	Revision
09/19	Zino	1. Field Test
09/26	Zino	1. Update Type C Field Test
10/05	Zino	1. Update bottom plate PCB
10/18	Zino	1. Change Cable RF-1.13
12/22	Zino	1. V1 sample tuning

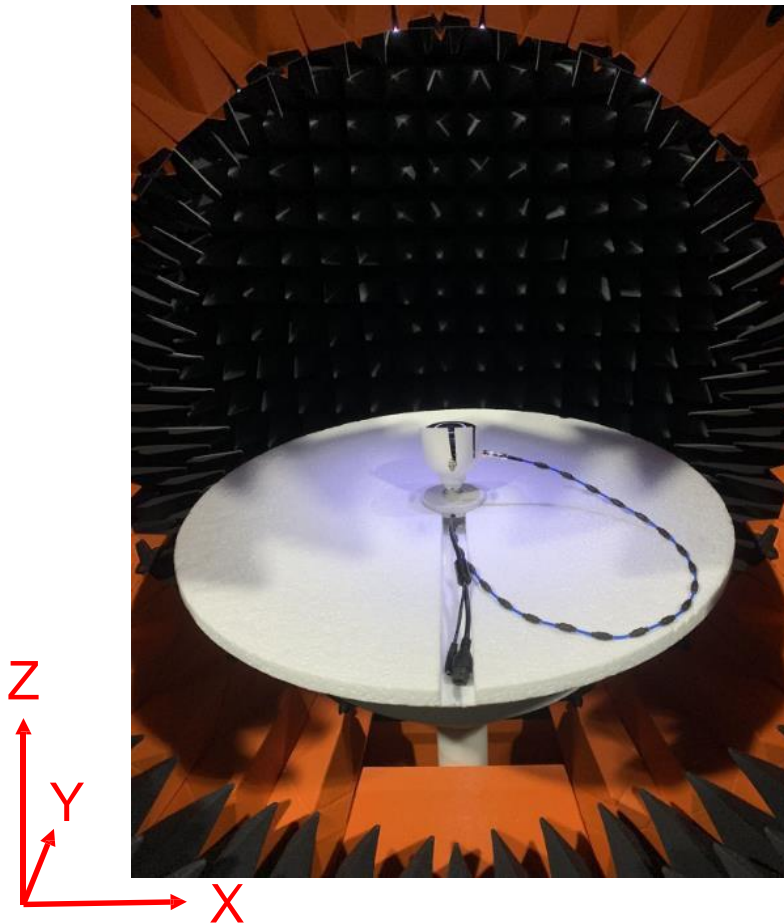
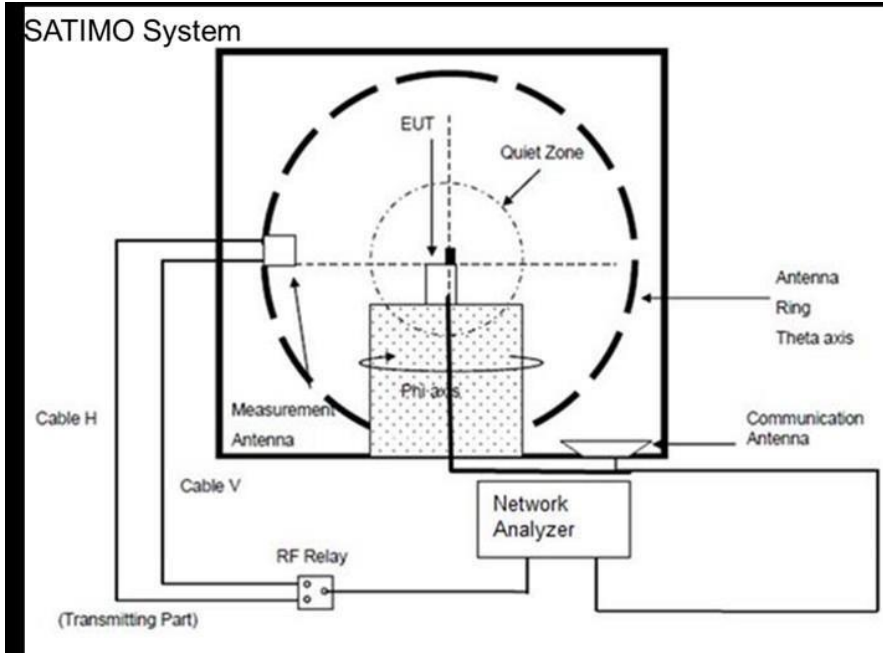
- A. Antenna RF Characteristics
 - 1. Antenna Placement
 - 2. Antenna Equipment
 - 3. Return Loss
 - 4. Isolation
 - 5. Gain Table
 - 6. The Antenna Characteristics
 - 7. Radiation Pattern

Antenna Placement

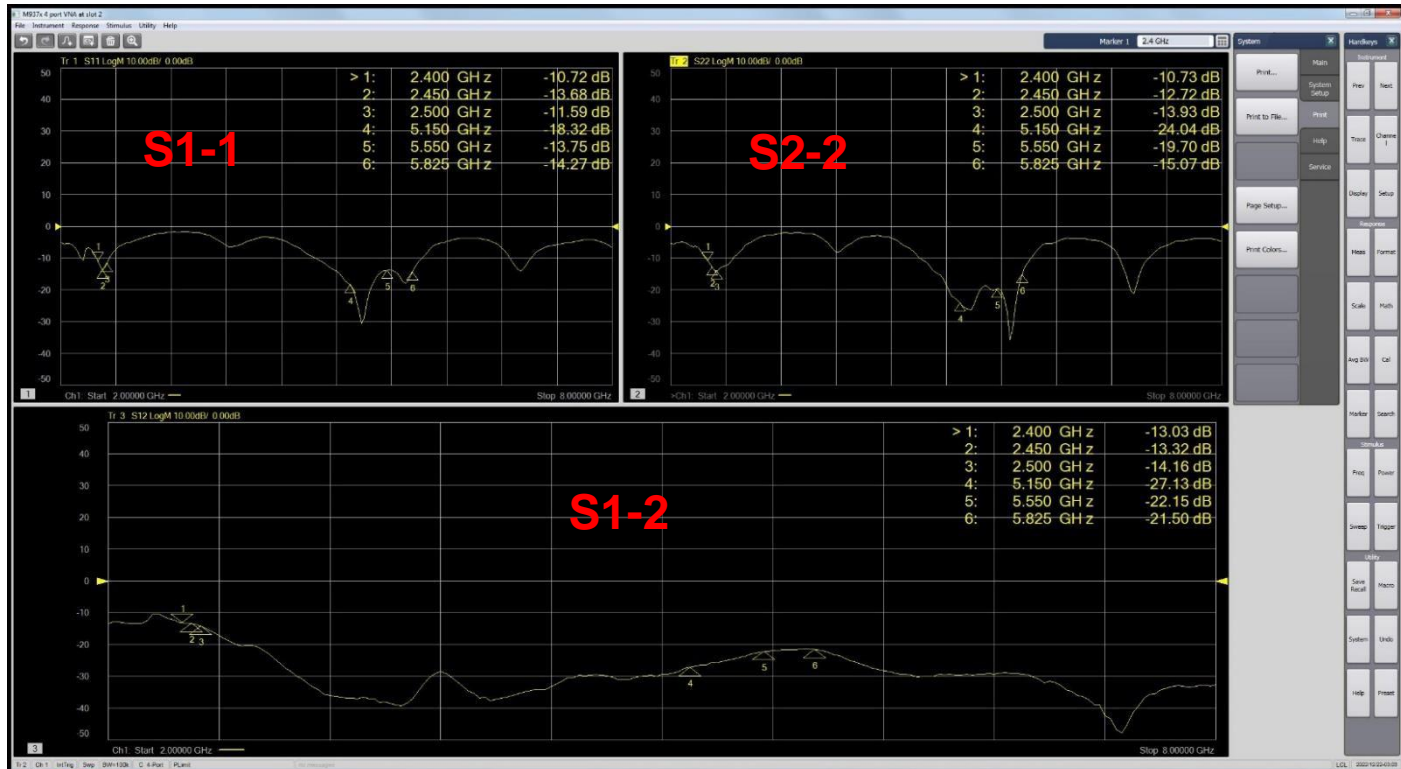
Antenna	Description	Frequency
Ant.1	Dual Band	2400 MHz ~ 2500 MHz / 5150 ~ 5825 MHz
Ant.2	Dual Band	2400 MHz ~ 2500 MHz / 5150 ~ 5825 MHz



Antenna Equipment :
Satimo Chamber



S-Parameters



Gain Table

Ant.1 – Dualband						
Frequency (MHz)	2400	2450	2500	5150	5550	5825
Peak Gain(dBi)	1.5	1.8	1.4	2.9	3.3	4.0
Efficiency(%)	52	54	53	61	57	56
Ant.2 – Dualband						
Frequency (MHz)	2400	2450	2500	5150	5550	5825
Peak Gain(dBi)	1.0	1.7	2.3	2.8	3.7	3.1
Efficiency(%)	51	52	55	54	60	55

The antenna characteristics

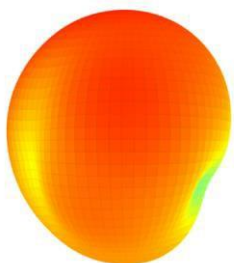
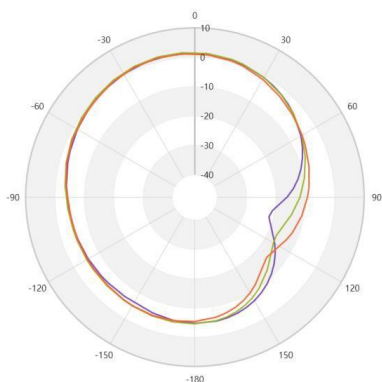
- Return loss < -10dB in operating band
- Isolation
 - 2G Band >10 dB
 - 5G Band >20 dB
- Efficiency
 - 2G Band >50%
 - 5G Band >50%
- Gain
 - 2G Band 1.0~2.3dBi
 - 5G Band 2.8~4.0dBi

Ant.1_ 2D.3D Radiation Pattern
 Frequency(MHz) : 2D. 2400~2500
 3D. 2450

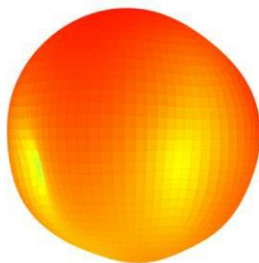
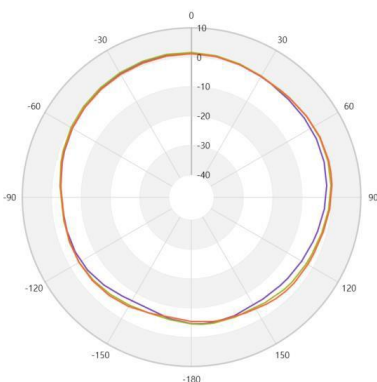
- 2400.00 MHz
- 2450.00 MHz
- 2500.00 MHz

Radiation Pattern :

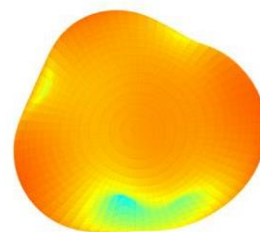
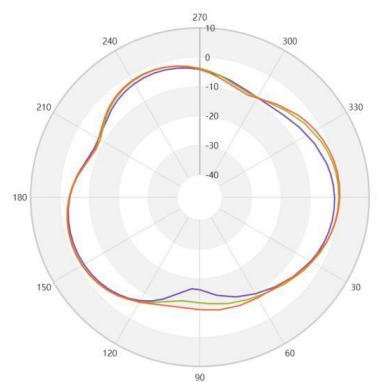
Azimuth Plane



Elevation Plane
phi = 0



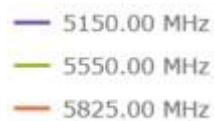
Elevation Plane
phi = 90



Setup :

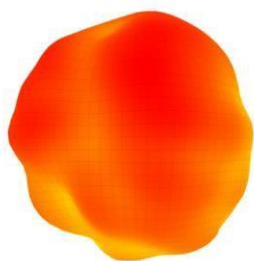
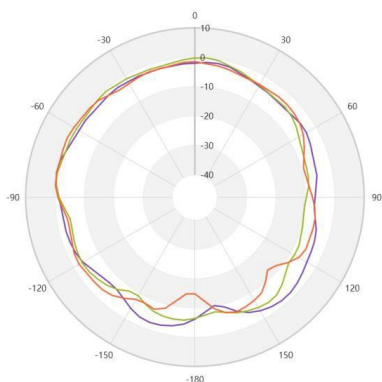


Ant.1_ 2D.3D Radiation Pattern
 Frequency(MHz) : 2D. 5150~5825
 3D. 5550

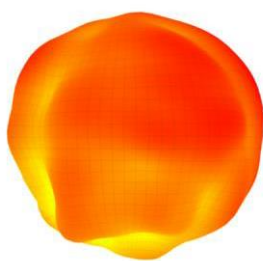
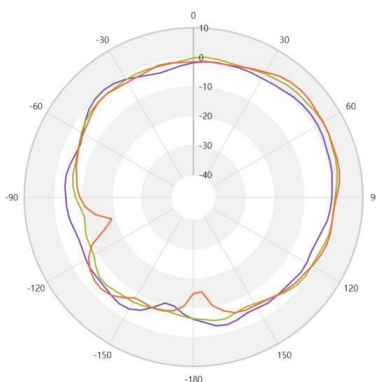


Radiation Pattern :

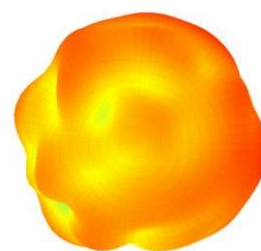
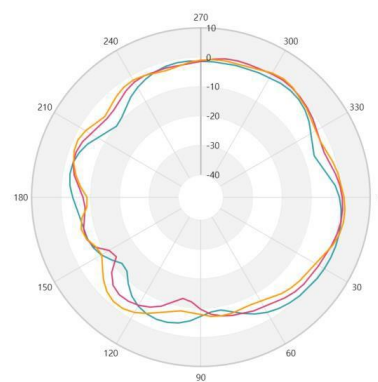
Azimuth Plane



Elevation Plane
phi = 0



Elevation Plane
phi = 90



Setup :

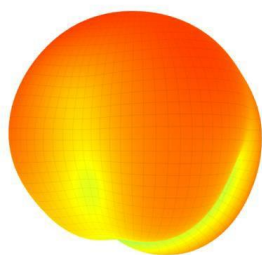
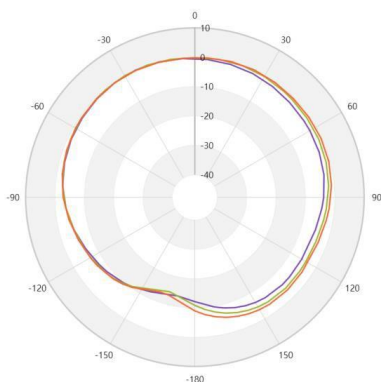


Ant.1_ 2D.3D Radiation Pattern
Frequency(MHz) : 2D. 2400~2500
3D. 2450

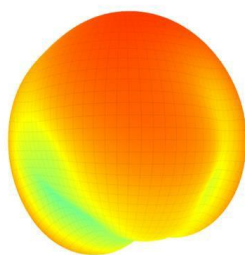
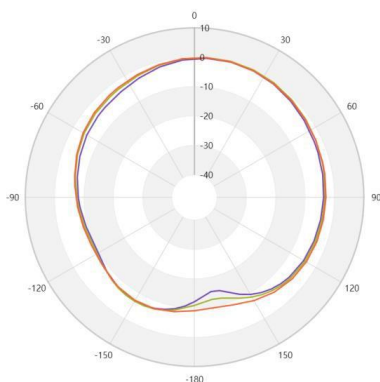
- 2400.00 MHz
- 2450.00 MHz
- 2500.00 MHz

Radiation Pattern :

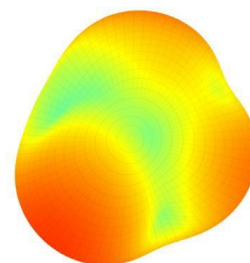
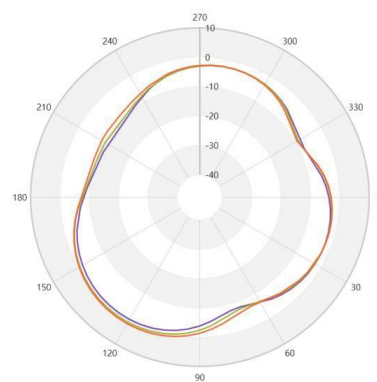
Azimuth Plane



Elevation Plane
phi = 0



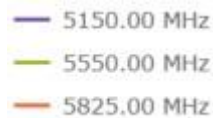
Elevation Plane
phi = 90



Setup :

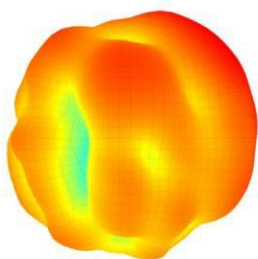
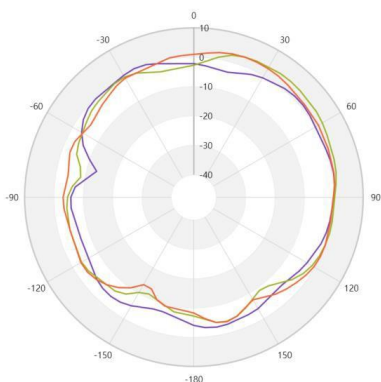


Ant.1_ 2D.3D Radiation Pattern
 Frequency(MHz) : 2D. 5150~5825
 3D. 5550

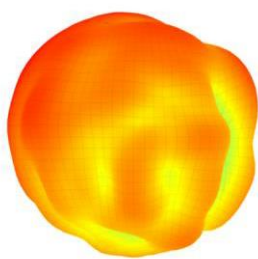
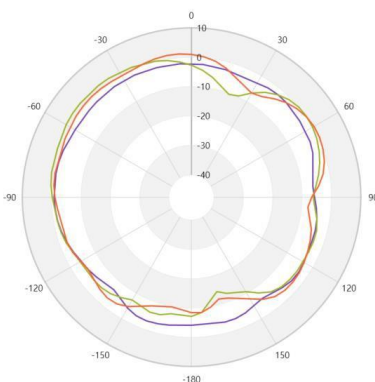


Radiation Pattern :

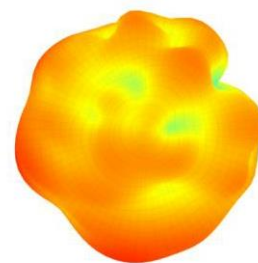
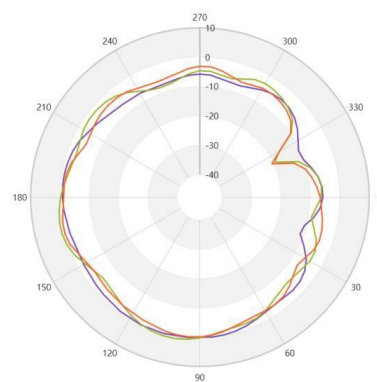
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Setup :



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