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AUGi_Sense

LoRa ANTENNA TEST REPORT

Product Name	AUGi Sense
Applicant	Innocomm
Manufacturer	Innocomm
Test site	Innocomm
Model	Sense
Antenna type	LoRa_IFA
Address	1F, No.6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu 30078, Taiwan

Approved by	Reviewed by	Issued by
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TABLE OF CONTENT

1. INTRODUCTION.....	3
1.1 TEST EQUIPMENT	
1.2 TEST SAMPLE	
1.3 TEST CONDITION	
1.4 TEST SETUP	
2. PASSIVE PERFROMANCE TEST.....	4
2.1 AVERAGE EFFICIENCY PEAK GAIN)	
2.2 3D GAIN OF FREE SPACE (AVERAGE)	
2.3 VSWR MEASUREMENT	
2.4 Return Loss	
2.5 2D Plots	
2.6 3D Plots	
3. Conclusion	5

1. INTRODUCTION

1.1 TEST EQUIPMENT

Passive Test:

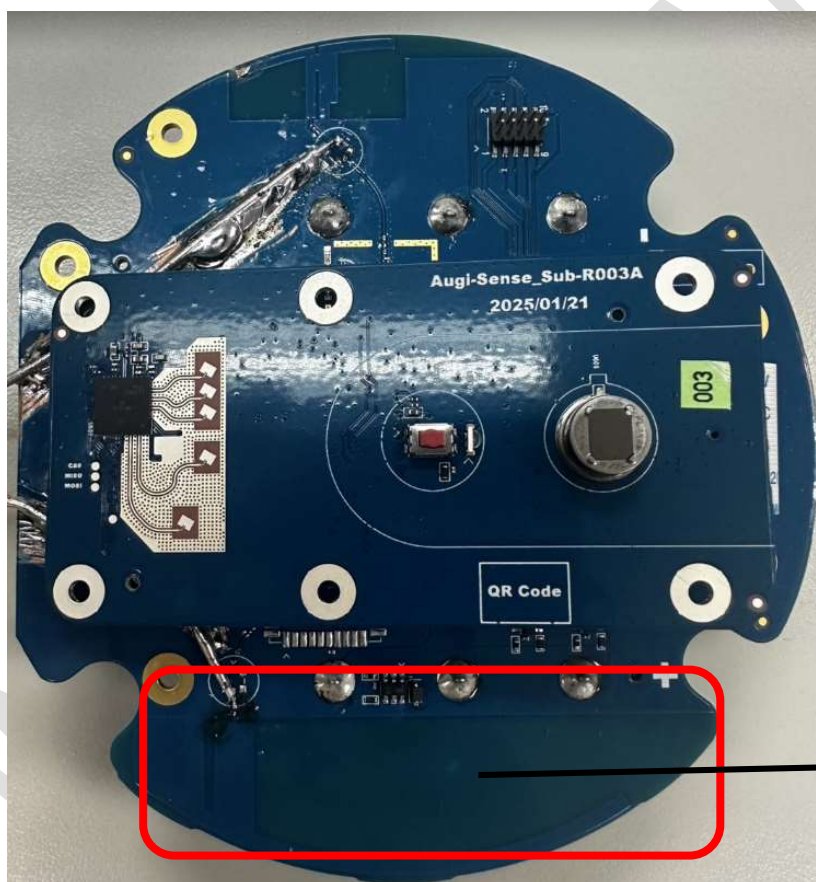
Network Analyzer: R/S ZVB8 (9KHz ~ 8.5GHz)

Passive Chamber: Atenlab OTA 200

1.2 TEST SAMPLE

Quantity: 1

EVT3.



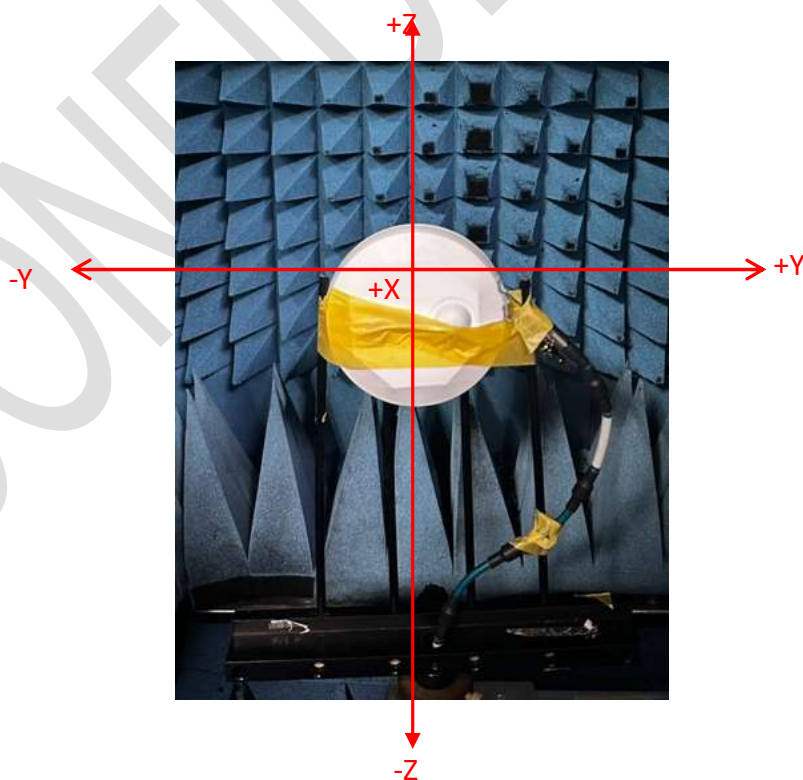
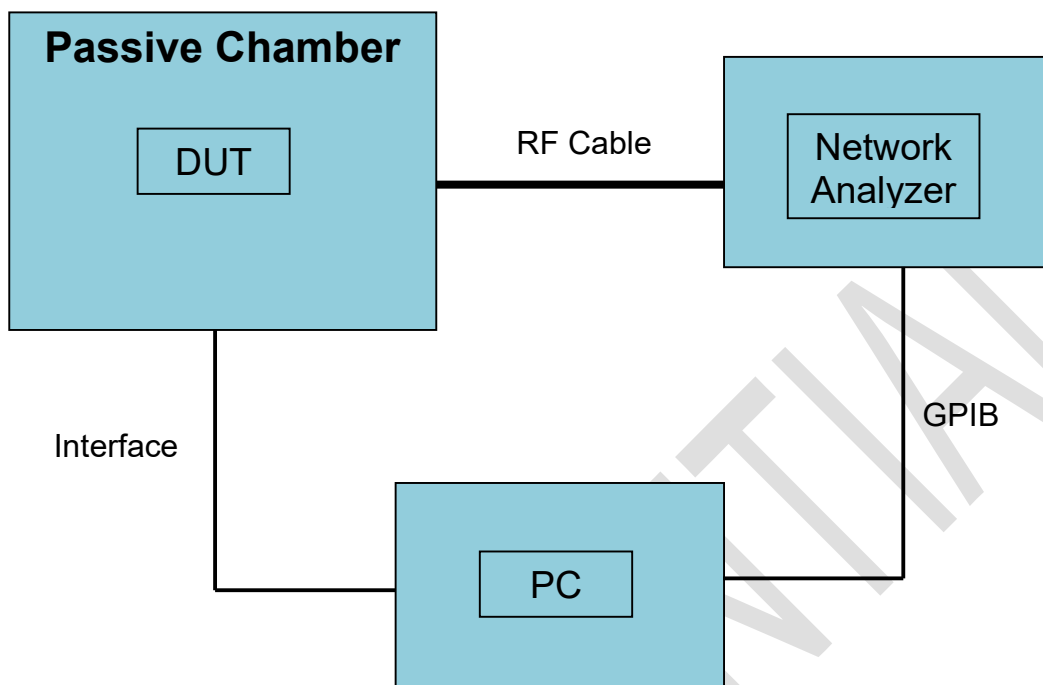
LoRa

1.3 TEST CONDITION

Support Band: LoRa_914.2MHz,

Temperature: 25°C

1.4 TEST SETUP



2. PASSIVE PERFORMANCE TEST

2.1 AVERAGE EFFICIENCY/ PEAK GAIN

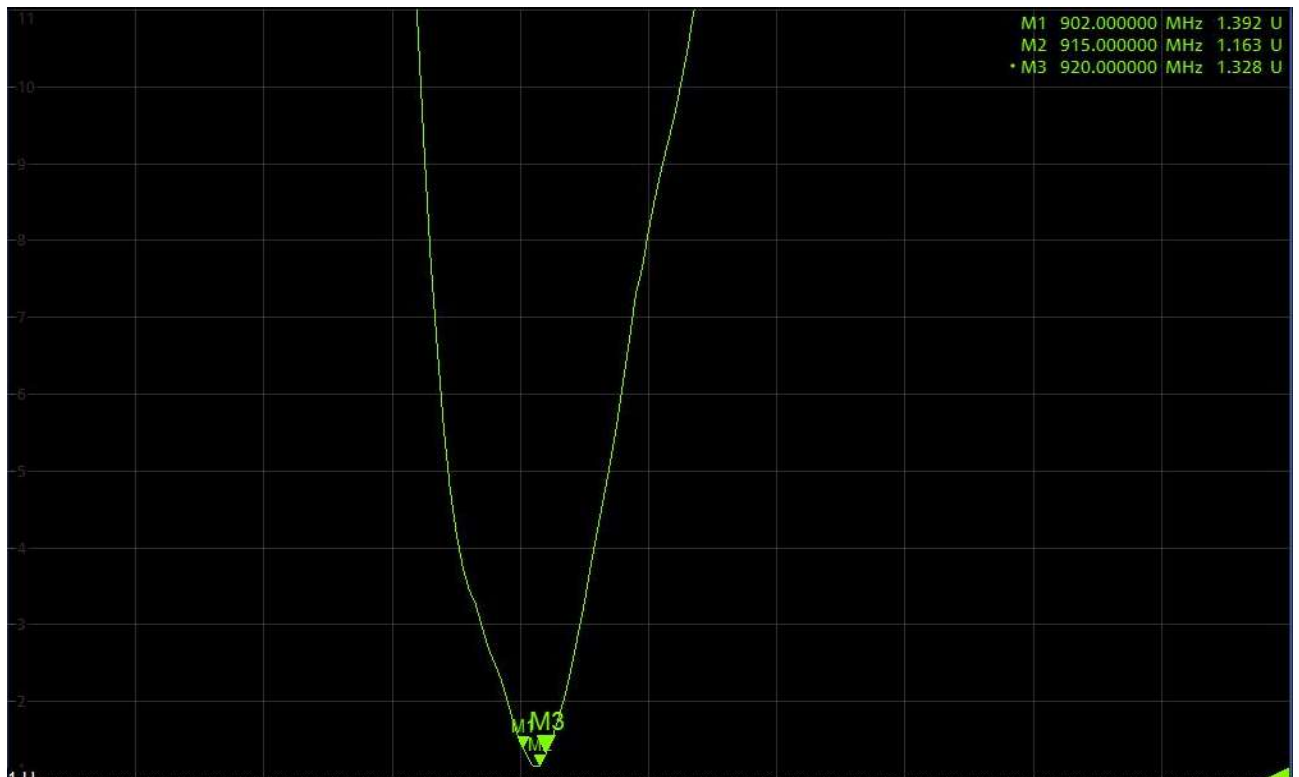
Frequency (MHz)	Average efficiency (%)	Average Gain (dBi)	Peak Gain (dBi)
LoRa	75.33	-1.23	2

2.2 3D GAIN OF FREE SPACE (AVERAGE)

Frequency (MHz)	AUGi_Sense		
	Frequency (MHz)	Gain (dBi)	Efficiency %
LoRa	903MHz	-1.27	74.64
	914.2MHz	-1.17	76.38
	920MHz	-1.25	74.99

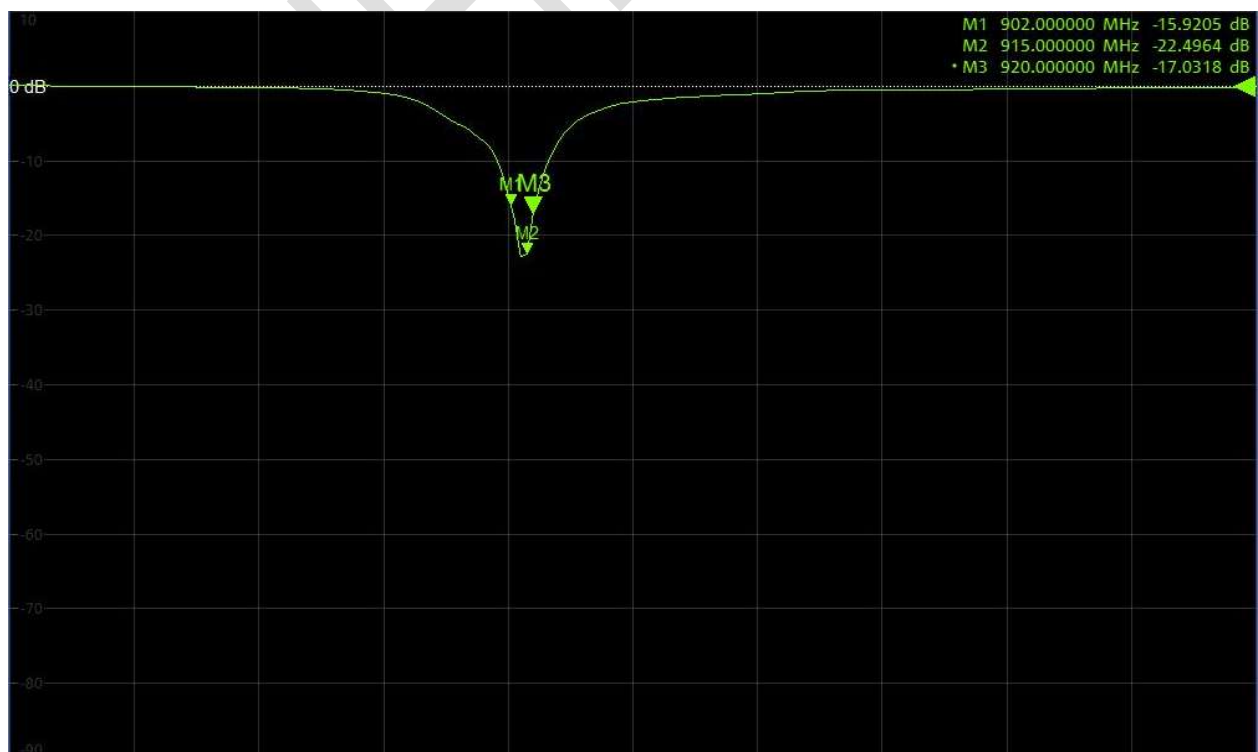
2.3 VSWR MEASUREMENT

LoRa



2.4 RETURN LOSS

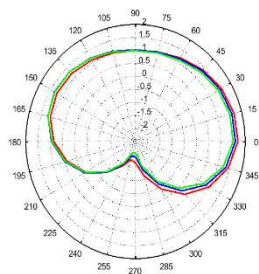
LoRa



2.5 2D PLOTS LoRa

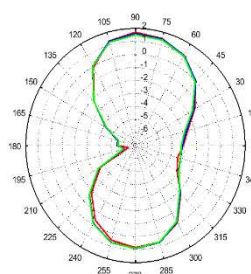
	Color	Freq./Chan.
1	Red	902MHz
2	Blue	915MHz
3	Green	920MHz

Total_Polar Graph_H_XY Plane



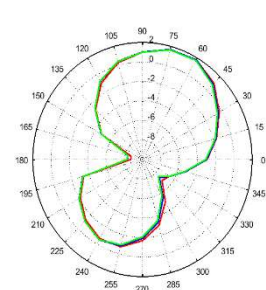
H plane

Total_Polar Graph_E1_XZ Plane

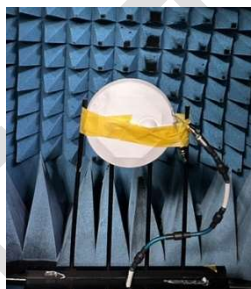


E1 plane

Total_Polar Graph_E2_YZ Plane



E2 plane



2.6 3D PLOTS LoRa_914.2MHz

