

주식회사 알아이씨

제품사양서

2018.01.25. (Ver. 1.0)

DESCRIPTION	915MHz LoRa Antenna SMA-J Connect (Black)
WORKING BAND	902.3MHz ~ 927.5MHz
MODEL	RIC-LRAT-915195-SMAJ
CUSTOMER NAME	
ISSUE DATE	2018.01.25.

DESIGN	CHECK	APPROBAL
J.W. PARK	J.B. KIM	M.K. JANG
2018. .	2018. .	2018. 01. 25.

INDEX

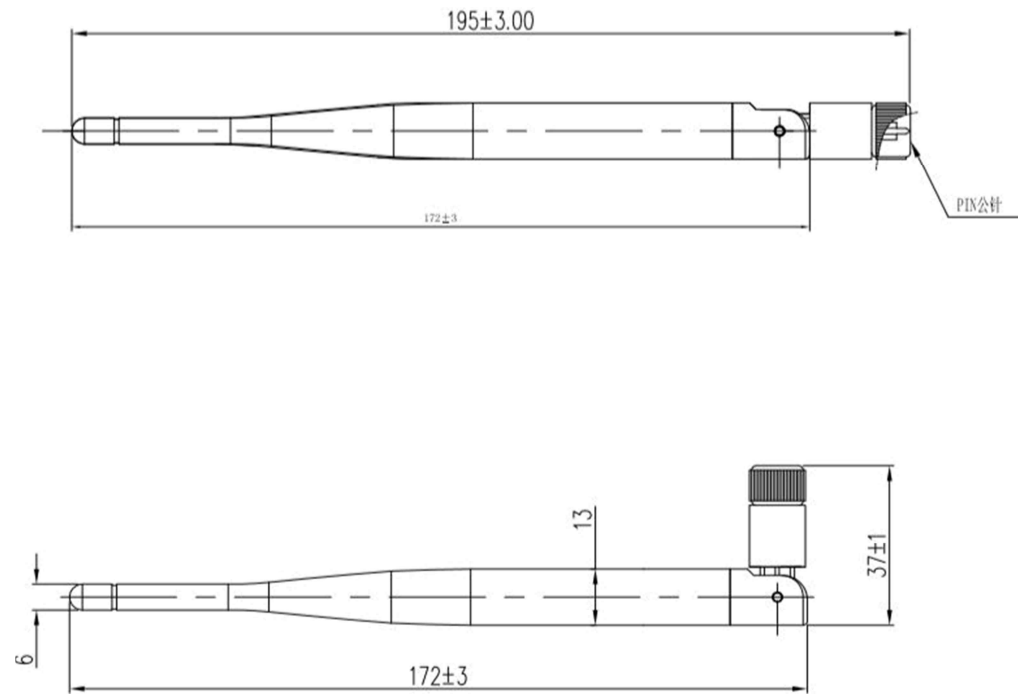
1. Product Drawing
2. Instrument
3. Typical Setup for Test System
4. Anechoic Chamber
5. Test Instrument
6. Antenna Sample Description
7. Performance Report
8. Specification

문서개정이력

Author	Date	Version	Comment
	2018.01.25.	1.0	초안 작성

이 문서와 문서에 포함되어있는 정보는 (주)알아이씨의 고유 기밀 정보이며, (주)알아이씨의 사전 동의 없이 전체 혹은 부분적인 내용을 외부에 유출하거나 사용할 수 없습니다.

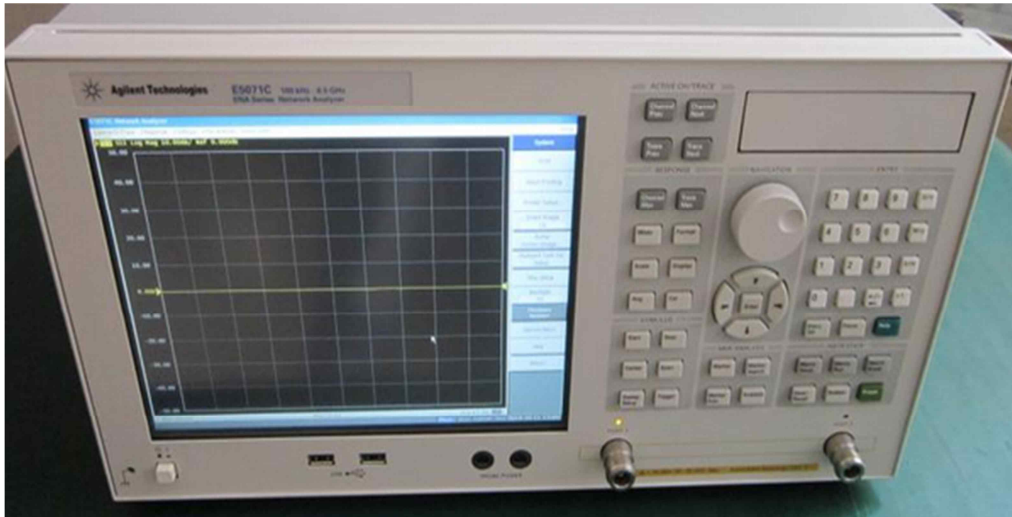
1. Product Drawing



No		Description	QTY
1	Antenna Cap	TPEE,Color:black	1
2	Upper Base	PBT+PC,Color:black	1
3	Bottom Base	PBT+PC,Color:black	1
4	Rivet	PBT+PC,Color:black	2
5	Cable	RG178mm Cable:50Ω	1
6	Connector	SMA-Plug For for RG178 Cable	1

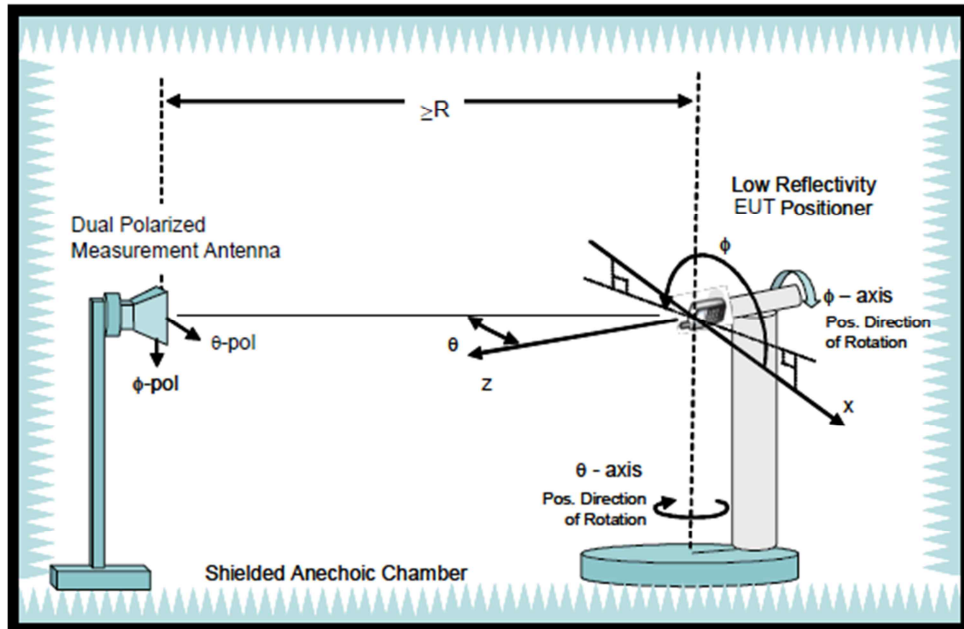
RIC CO., LTD		
제품명칭	RIC-LoRa-SMA	
세부명칭		
단위	mm	
설계자	검사자	승인자
승인일자	2018.01.25.	

2. Instrument

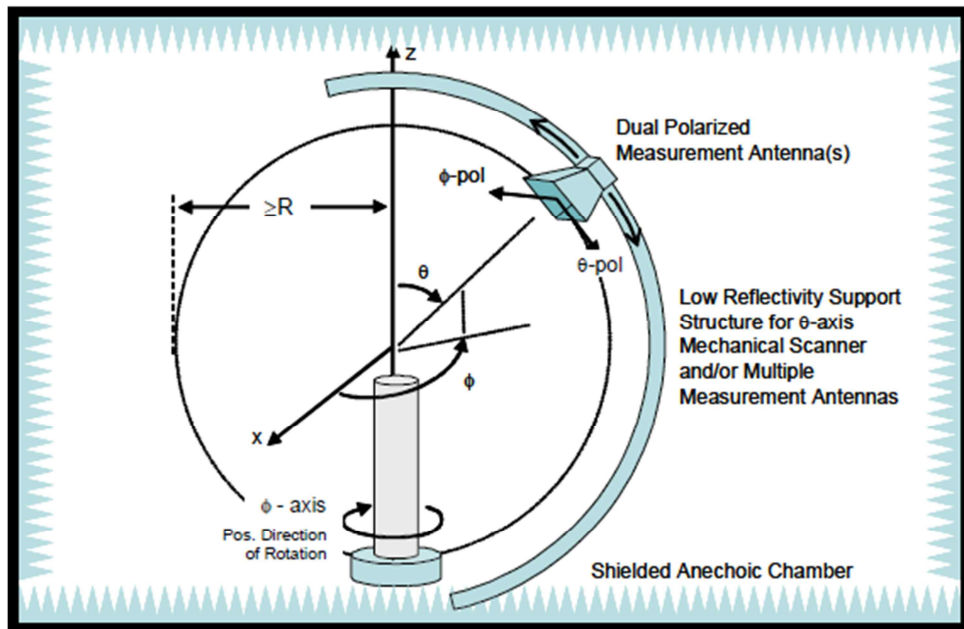


Network Analyzer	Agilent E5071C
Frequency Range	100KHz ~ 8.5GHz
Test Item	Return Loss/VSWR/ Smith Chart/Isolation

3. Typical Setup for Test System

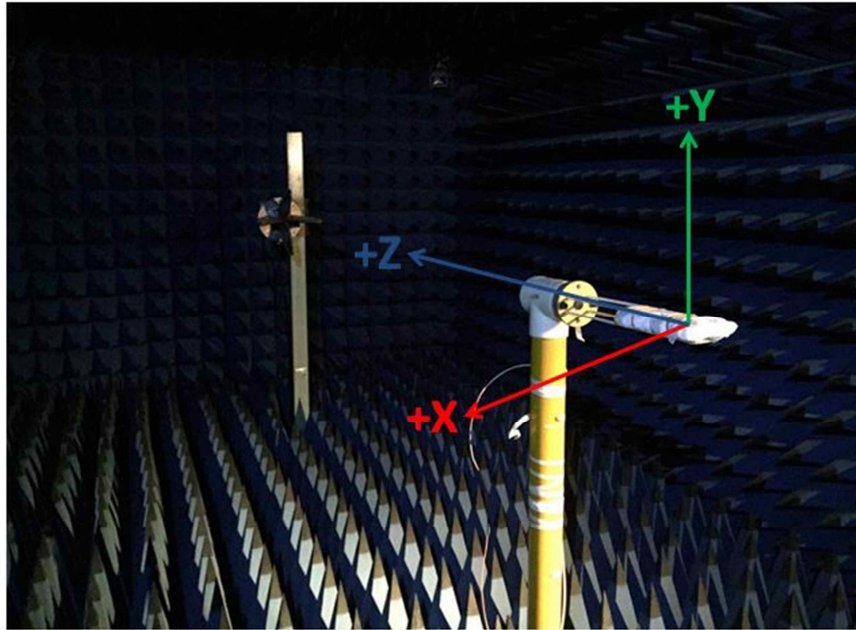


Combined-Axes System

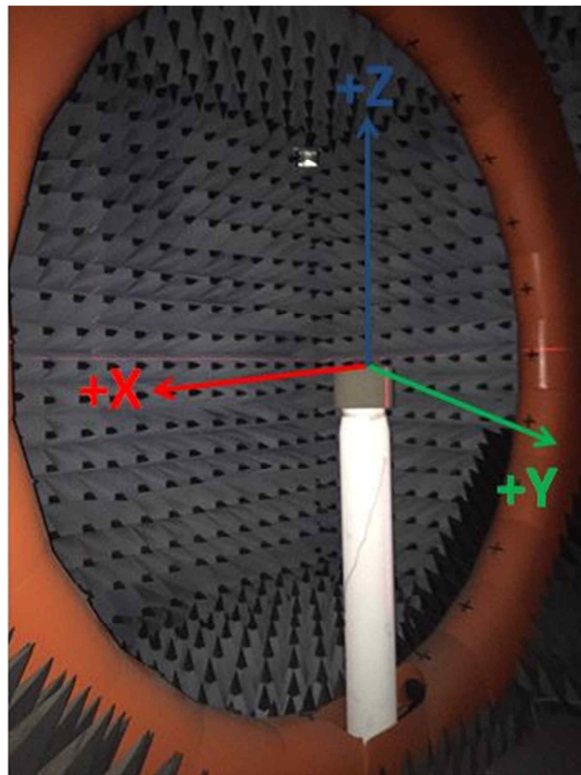


Distributed-Axes System

4. Anechoic Chamber



Combined-Axes System



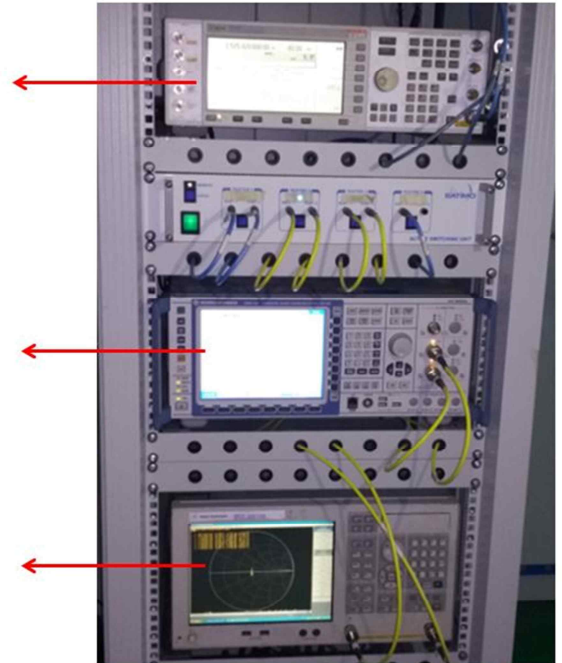
Distributed-Axes System

5. Test Instrument

Generator	Agilent E4438C
Test Item	GPS

Radio Communication Tester	R&S CMW500
Test Item	Active Test

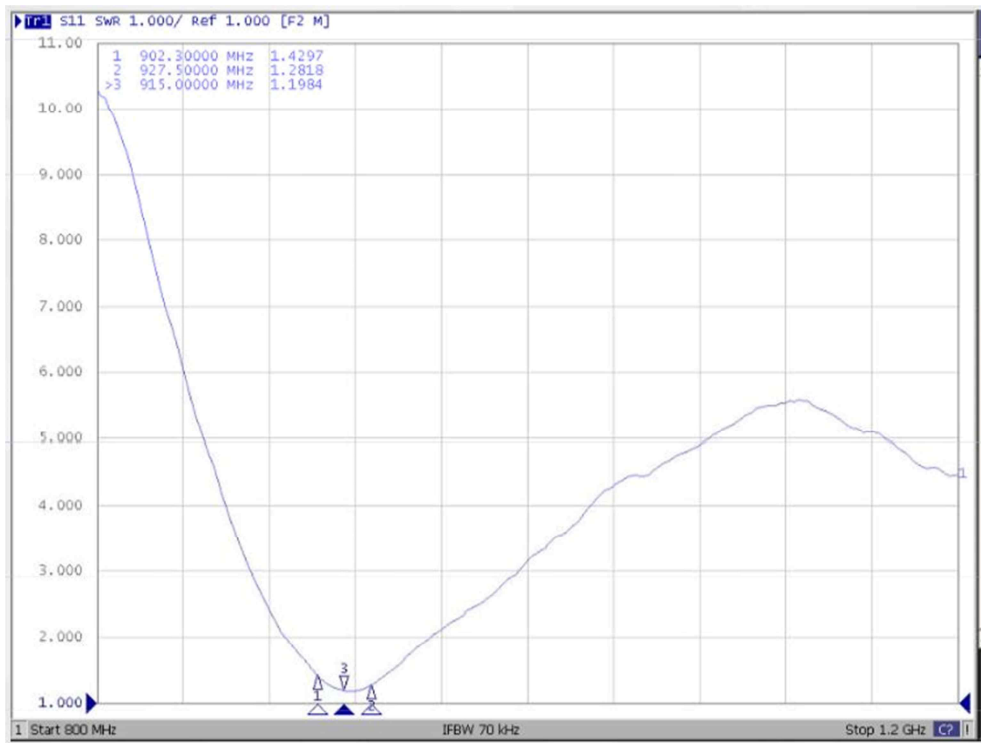
Network Analyzer	Agilent E5071C
Test Item	Passive Test



6. Antenna Sample Description

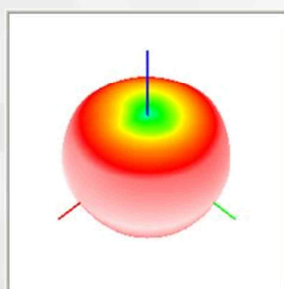


7. Performance Report

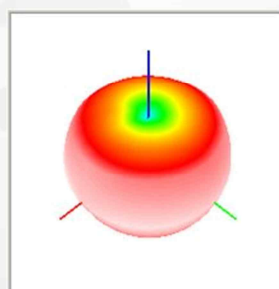


VSWR

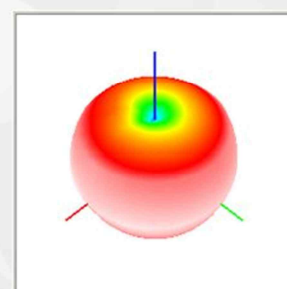
Freq.(GHz)	902.3	915	927.5
VSWR	1.4	1.2	1.3
Peak Gain(dBi)	1.68	1.84	1.54
Average Gain(dBi)	-1.92	-1.95	-1.83
Efficiency	80.6%	83.0%	79.8%



902.3GHz



915GHz



927.5GHz

Test Result

8. Specification

(1) Physical Properties

- Connect TypeSMA-J
- Operating Temperature.....-30°C ~ +75°C
- Storage Temperature.....-20°C ~ +65°C

(2) Electrical Properties

- Frequency Range.....902.3MHz ~ 927.5MHz
- Impedance..... 50Ω
- VSWR.....<2.0
- Efficiency.....Max83%
- Peak Gain.....2dBi