

Shenzhen DreamLNK Technology Co., Ltd.
深圳市骏晔科技有限公司

4G Sucker Antenna

Product Specification

Client Name		Frequency Band	780-960/1710-1990/2300-2700MHZ
Wire Name		Version	A1
Customer's Part Number		DreamLNK's Part Number	DL-X014-4G
RF Designer	James Wang	RF Manager	Knight Ai
Structural Designer		Structural Design Manager	
Technical Director		Date	2020-05-09

Client confirmation:

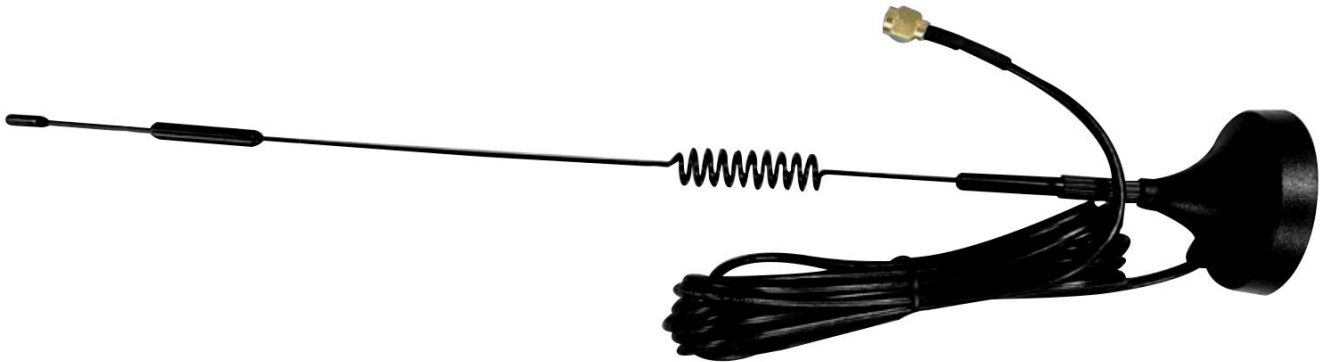
Whether the product meets your requirements? OK NG

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1. Photo

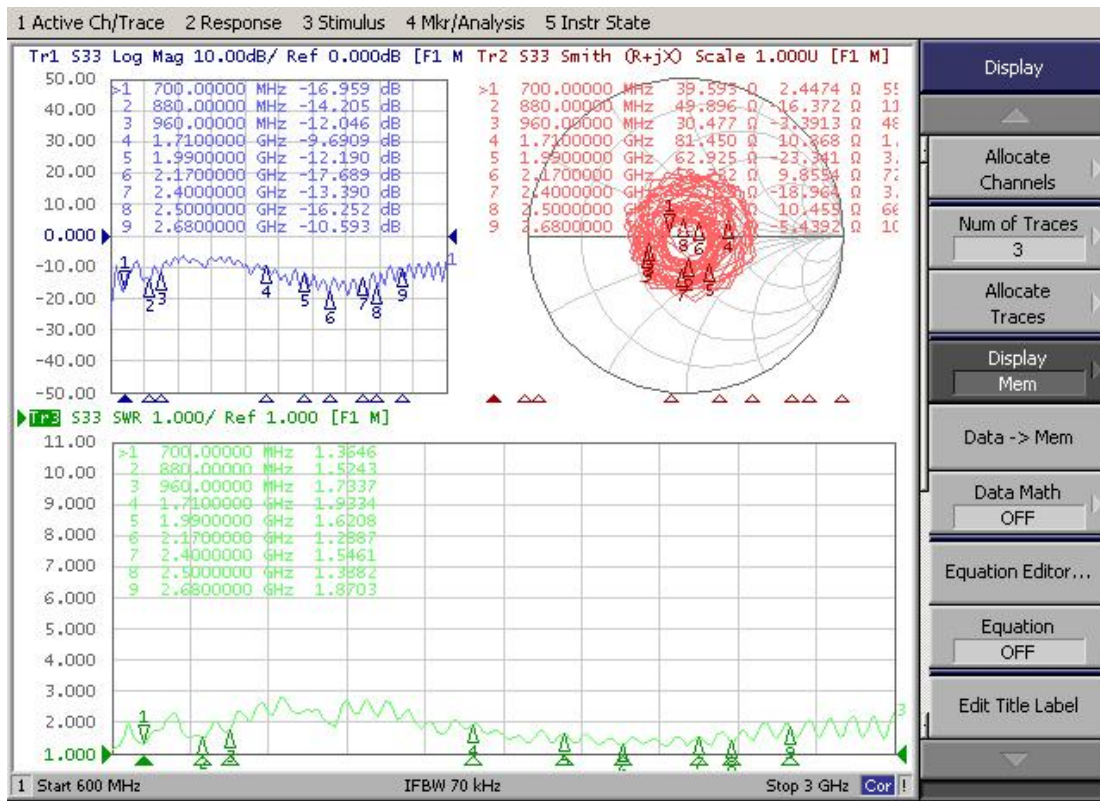


2. Parameters

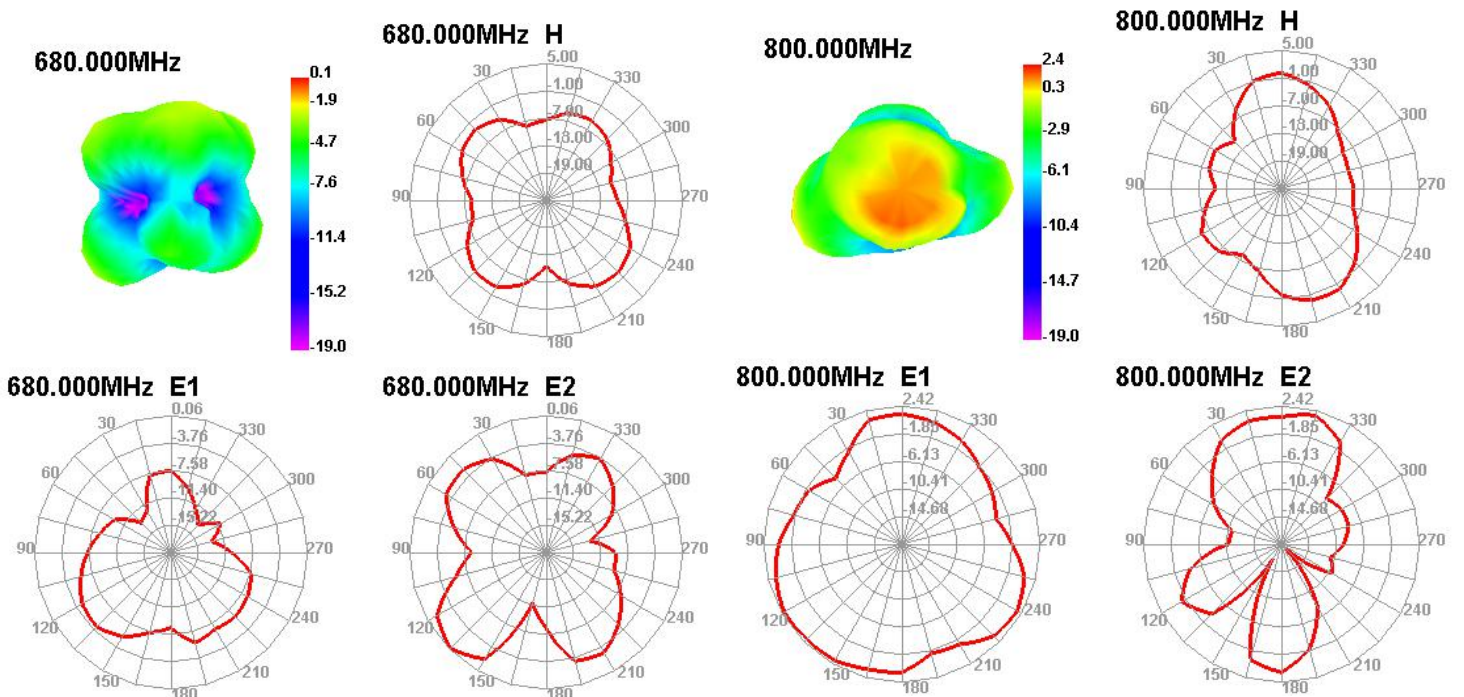
Test parameters			
Product Name	Magnetic Base Whip Antenna	Model No	DL-X014-4G
Electrical Specifications			
Frequency Range	780-960/1710-1990/2300-2700 MHZ	Polarization	Linear
Input Impedance	50 Ω	Radiation direction	Omnidirectional
VSWR	≤ 2.0	Max. Power	50W
Gain	5dBi	Bandwidth	/
Mechanical Specifications			
Dimensions	319*30mm	Color	Black
Connector Model	SMA-J	Cable Length	3000 \pm 1mm
Antenna Material	ABS + Copper	Voltage	/
Working Temperature	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C	Relative Humidity	40~85%

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3. S11 Data (VSWR, Return loss, Smith)

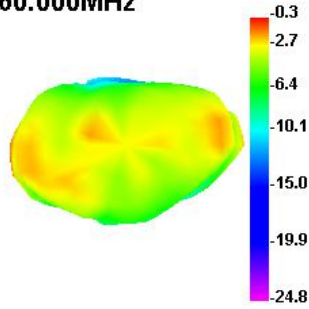


Antenna Pattern:

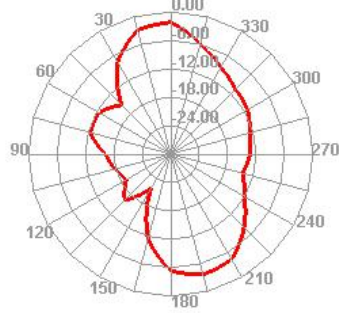


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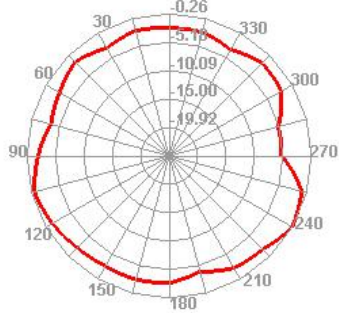
960.000MHz



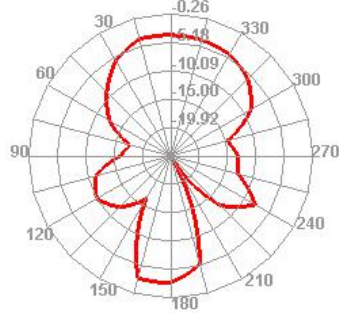
960.000MHz H



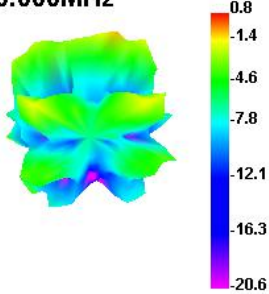
960.000MHz E1



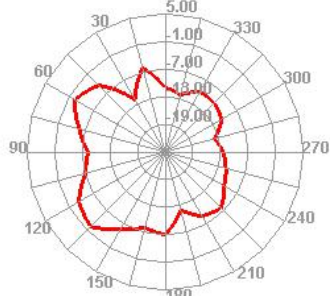
960.000MHz E2



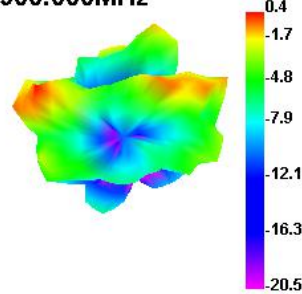
1700.000MHz



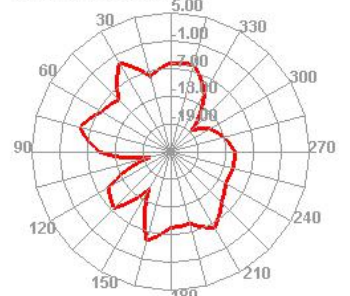
1700.000MHz H



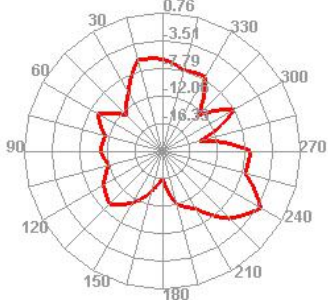
1900.000MHz



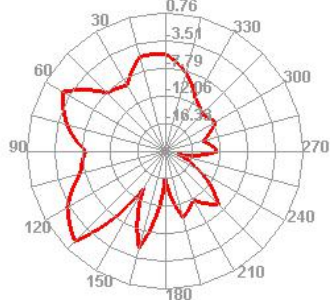
1900.000MHz H



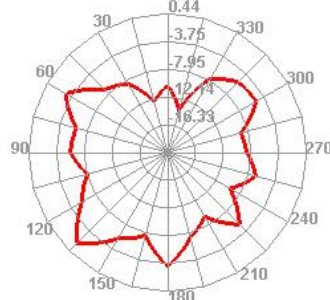
1700.000MHz E1



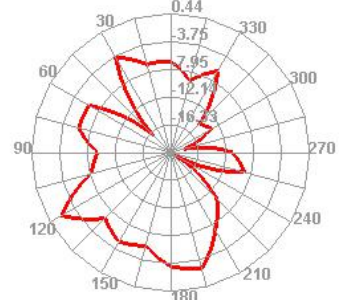
1700.000MHz E2



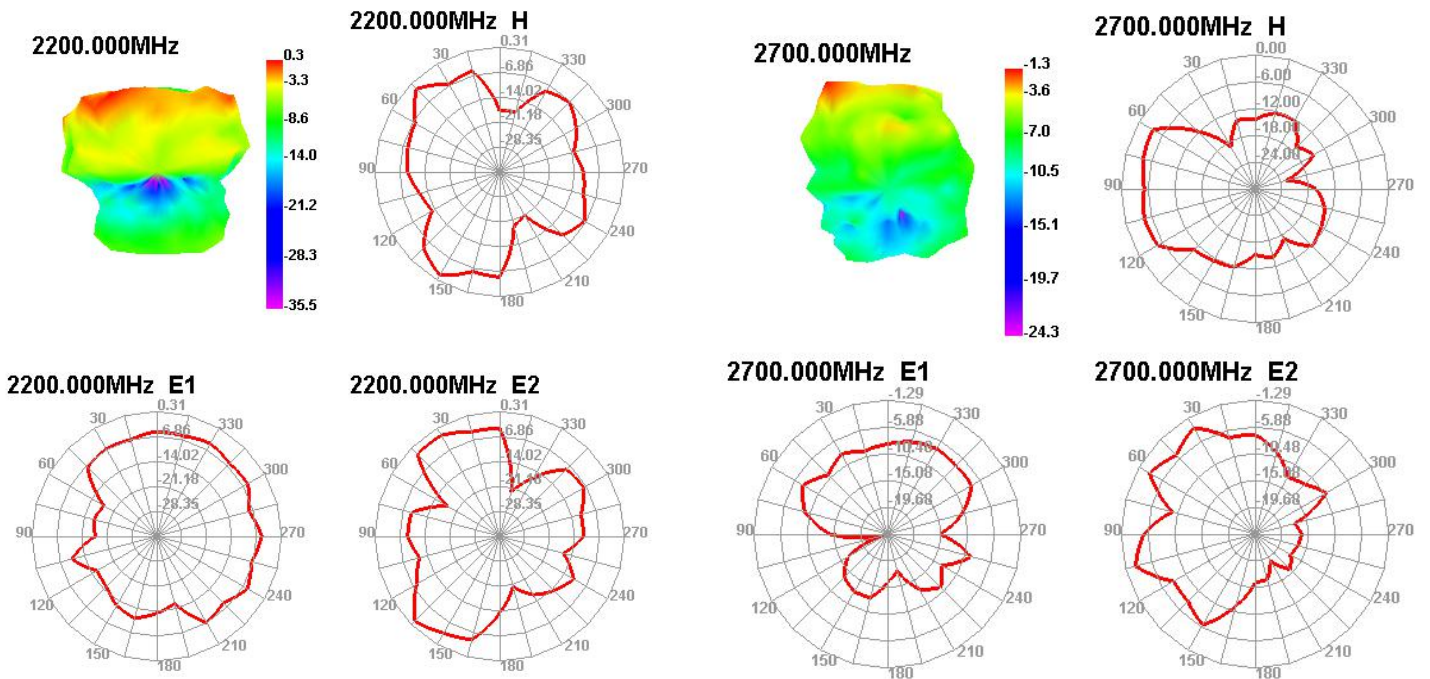
1900.000MHz E1



1900.000MHz E2



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Testing Equipment and Principle

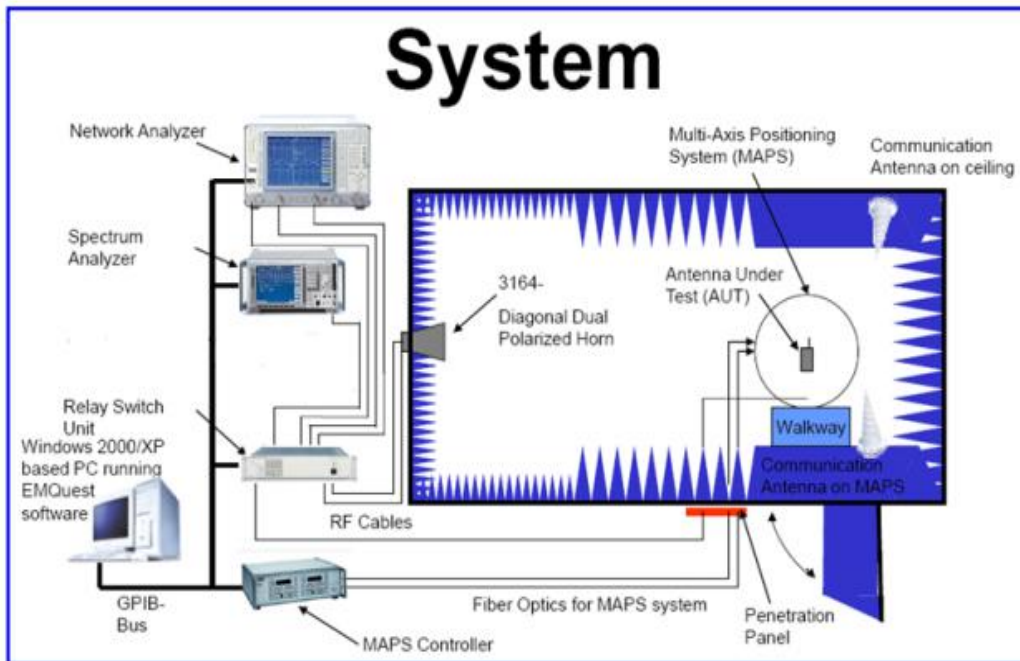
1. Testing Equipment:

Network Analyzers: Agilent 8753D 5071B

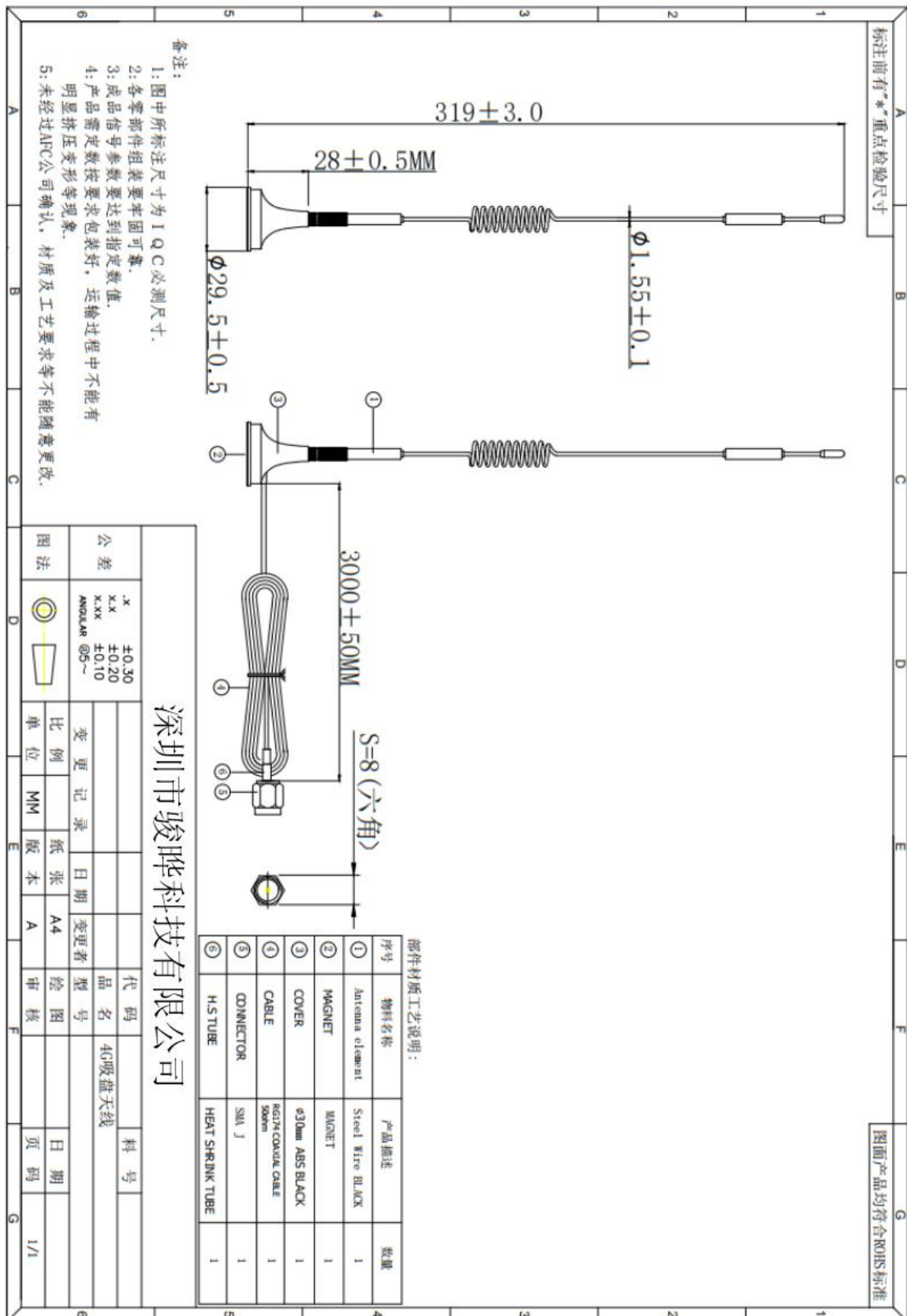
Communications Test Set: Agilent E5515C/CMW500

3D Chamber Test System

2. Testing Principle:



4. Structure diagram



5. Reliability testing report

Testing Contents		Testing Method	Requirement	Result
C1	V.S.W.R.	Set proper network analyzer parameters for testing	Compliance with Requirements	pass
M1	Gain	Set proper antenna anechoic chamber parameters for testing	Compliance with Requirements	pass
M2	Vibration	GB / T2423.48-2008 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol. ≤5%	pass
M6	Random Drop	GB / T2423.8-1995 Single antenna Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated, fracture 2. Frequency Tol. ≤5%	pass
E3	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	pass
E4	Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. ≤5%	pass
E5	Thermal Shock	GB / T 2423.22 - 2008 - 40°C (30 minutes) to + 80°C (30 minutes) = 1 cycle; Keep testing for 24 Cycles	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. ≤5%	pass
R1	Aging test	GB /T 2423.2 - 2008 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. ≤5%	pass
M1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2015/863/EU	pass

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6. Contact us

Shenzhen DreamLNK Technology Co., Ltd

★ Data collection, Smart home, Internet of Things applications, Wireless remote control technology, Remote active RFID, Antennas ★

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