




1. Specification

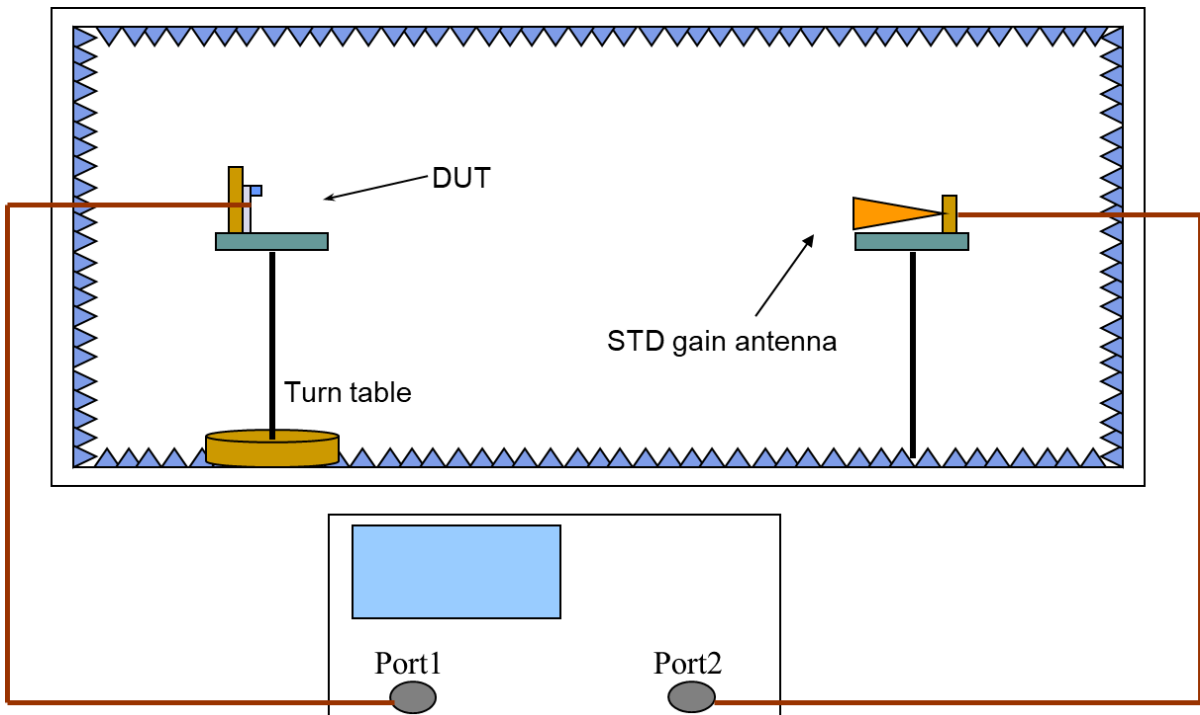
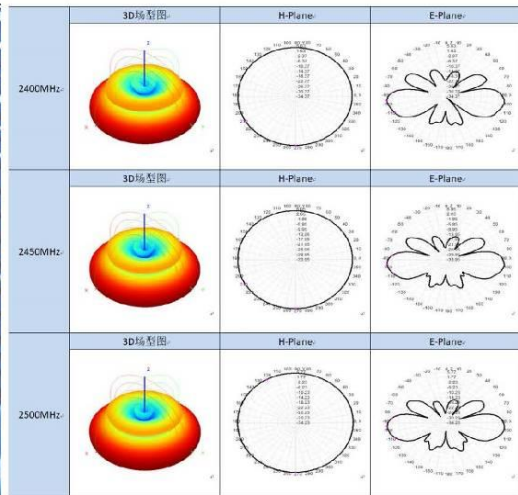
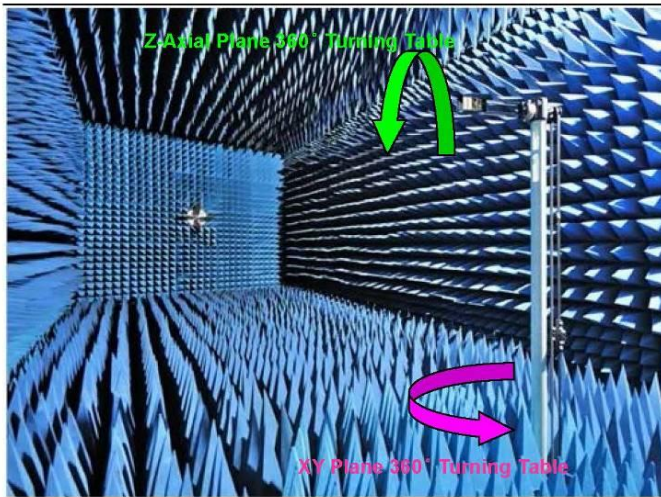
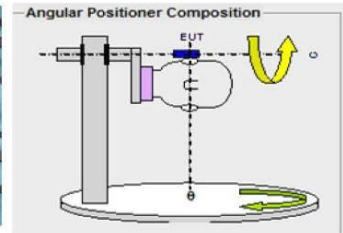
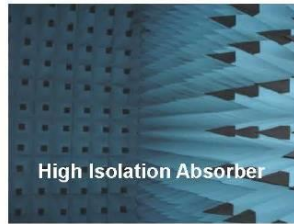
Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500MHz
S.W.R.	<= 2.0
Antenna Gain	3dBi
Efficiency	≈65%
Polarization	Linear
Radiation	Omni-directional
Impedance	50 Ohm
Max Power	50W
B. Material & Mechanical Characteristics	
Antenna Cover	TPEE
Connector Type	RP-SMA Plug
Dimension	13*161mm
Weight	0.008Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 80 °C
Storage Temperature	- 40 °C ~ + 80 °C

Test Equipment & Conditions

1. Network Analyzer: Keysight E5071C

2. 3D Chamber Test System

.Chamber Size: 9 x 5 x 4 m³
 .Freq. Range: 0.4 ~ 18.0 GHz
 .Double Ridge Horn Antenna
 .VNA: Agilent E5071C
 .3D Turning Table and Positioner
 .ADT Solution 3D Testing Software

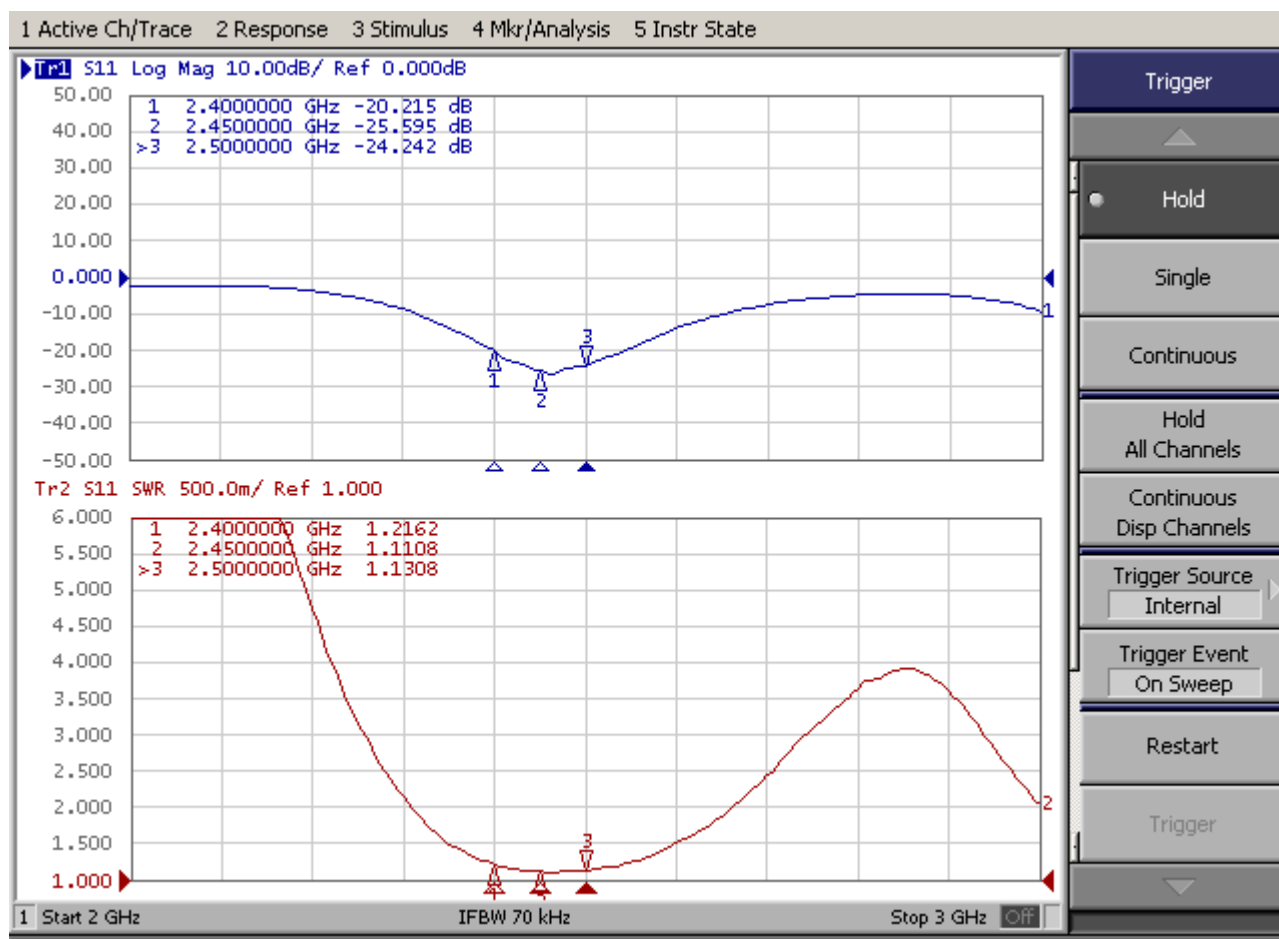




Product Number: BGS-AN2400-13161W
Product Name: WIFI Rubber Duck Antenna

2. Antenna - S Parameter Test Data

2.1. VSWR





Product Number: BGS-AN2400-13161W
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2.2. Total Efficiency & Gain:

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	3.35	65.04
2410	3.01	61.73
2420	2.87	60.09
2430	2.84	61.46
2440	2.55	58.09
2450	2.66	59.31
2460	2.67	59.86
2470	2.70	60.84
2480	2.57	57.91
2490	2.31	55.67
2500	2.28	56.13



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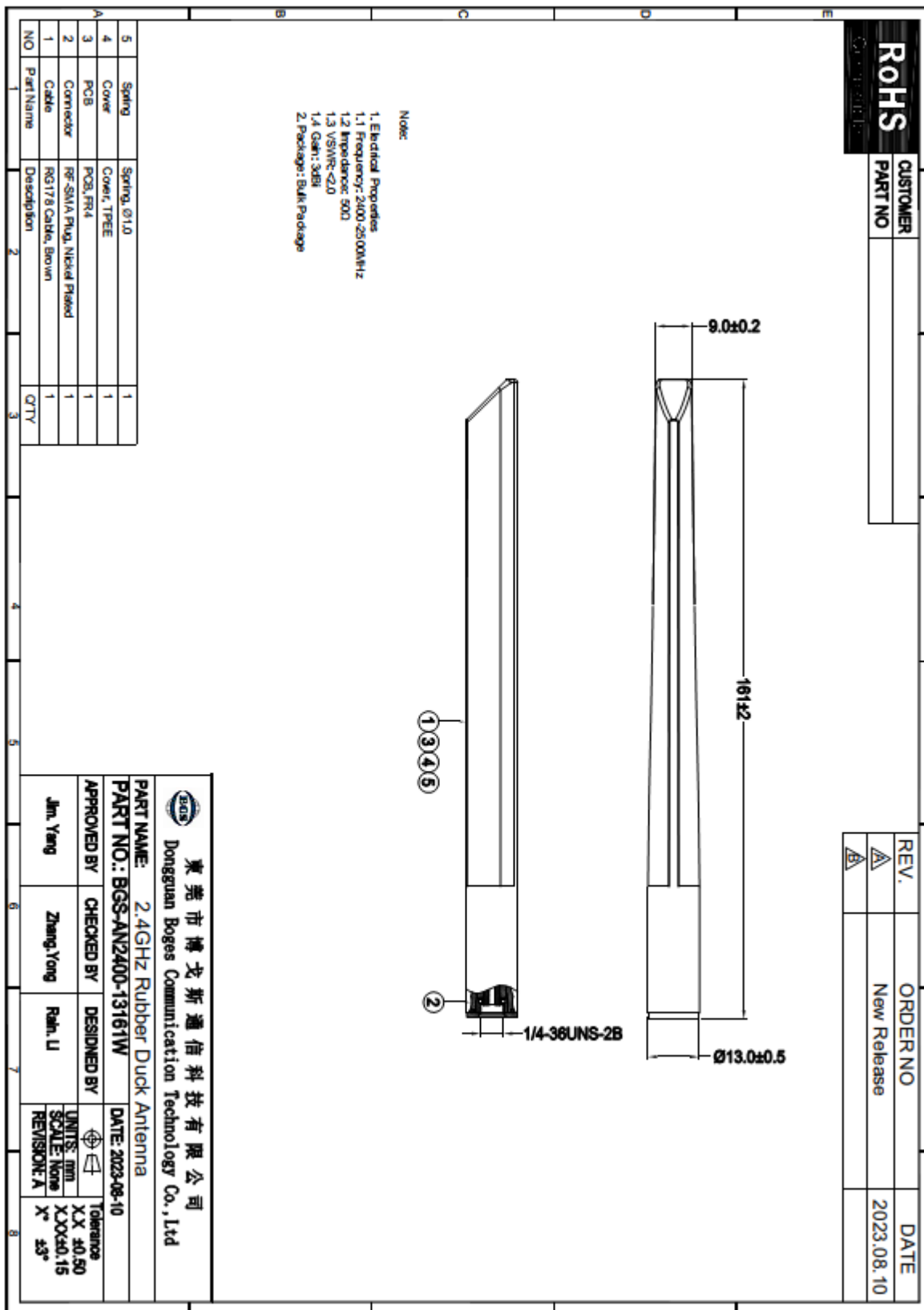
2.3 Radiation Pattern

2.4G	3D	2D-水平面	2D-垂直面
2400M Hz			
2450M Hz			
2500M Hz			



Product Number: BGS-AN2400-13161W
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3. Mechanical Drawing



Note:
 1. Electrical Properties
 1.1 Frequency: 2400-2500MHz
 1.2 Impedance: 50Ω
 1.3 VSWR: 2.0
 1.4 Gain: $3dBi$
 2. Package: Bulk Package

RoHS		CUSTOMER	ORDER NO	DATE
PART NO			New Release	2023.08.10
REV.				
△				
△				

NO	Part Name	Description	QTY
1	Cable	RG178 Cable, Brown	1
2	Connector	RF-SMA Plug, Nickel Plated	1
3	PCB	PCB, FR4	1
4	Cover	Cover, TPEE	1
5	Spring	Spring, Ø1.0	1

东莞市博戈斯通信科技有限公司
 Dongguan Boges Communication Technology Co., Ltd

PART NAME: 2.4GHz Rubber Duck Antenna
PART NO.: BGS-AN2400-13161W

APPROVED BY	CHECKED BY	DESIGNED BY	DATE: 2023-08-10
Jim Yang	Zhang Yong	Ran, Li	

UNITS: mm	Tolerance
SCALE: None	XX ±0.50
REVISION: A	XXX±0.15
	X° ±3°