东莞市小帅电子科技有限公司

specification

客户
CUSTOMER: _____

产品名称
PRODUCTS: 2.4G /5.8GHz 双频天线

客户料号
PART NO: _____

产品型号
Spec.: 2HG5

日期
Data: 2022.05.29

供应商 SUPPLIER		
拟制 PREPARED BY	审核 CHECKED BY	批准 APPROVED BY
汪大海	王笑	Alen

客户 CUSTOMER		
承认 ACCEPTED BY	审核 CHECKED BY	批准 APPROVED BY

天线制造商：东莞市小帅电子科技有限公司
Antenna manufacturer: Dongguan Xiaoshuai Electronic Technology Co. , Ltd.

地址： 东莞市黄江镇长龙社区常兴智谷产业园5栋3楼

Address: 3rd floor, building 5, Changxing Zhigu Industrial Park, Changlong community, Huangjiang, Guangdong Town, Dongguan

天线尺寸 ：直径10MM*长度195MM。

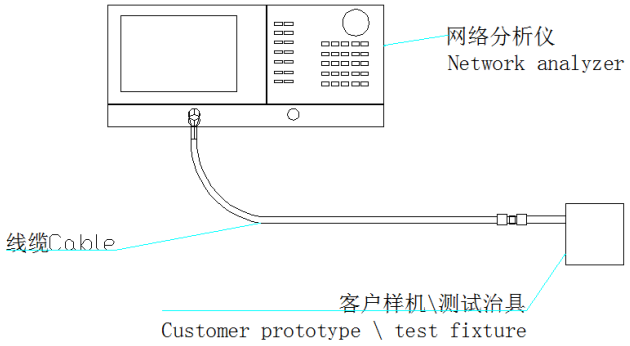
1实物照片 Physical photos

2. 电气性能 Electrical Characteristics

2.1. 测试环境条件 Test Environment Conditions

温度 Temperature	Ordinary Temperature (5 to 35℃)
湿度 Humidity	Ordinary Humidity (25 to 85% RH)

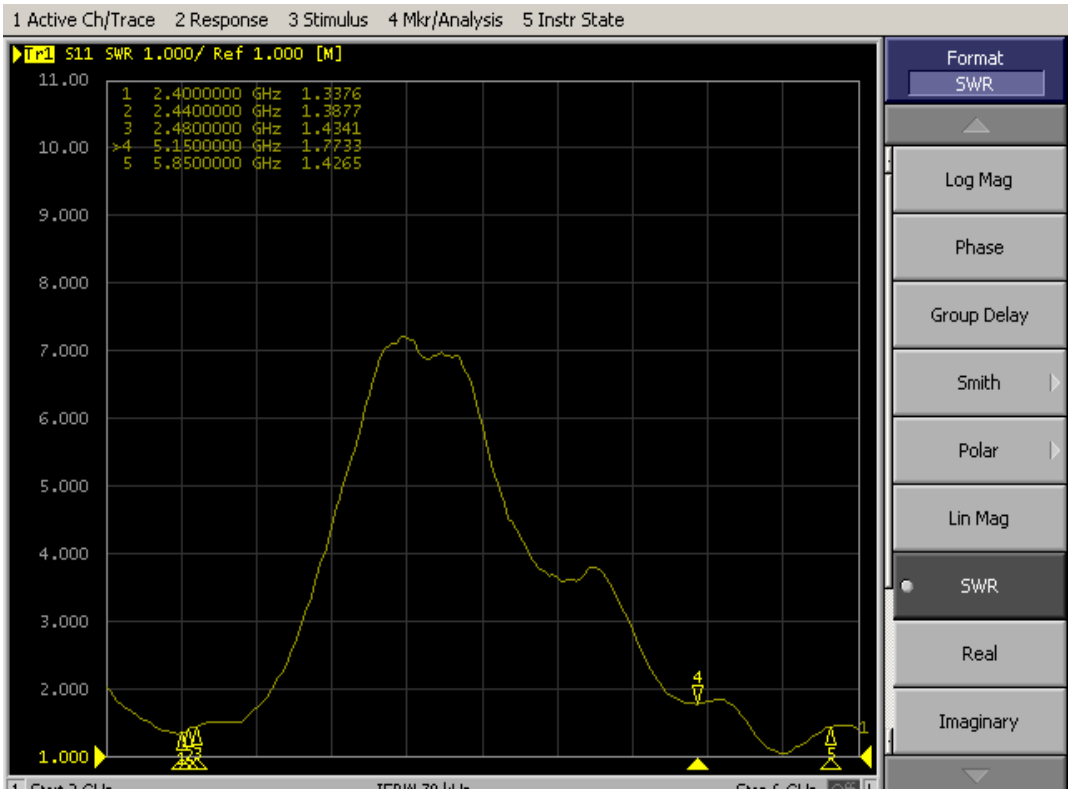
2.2. 测示方法 Measurement method



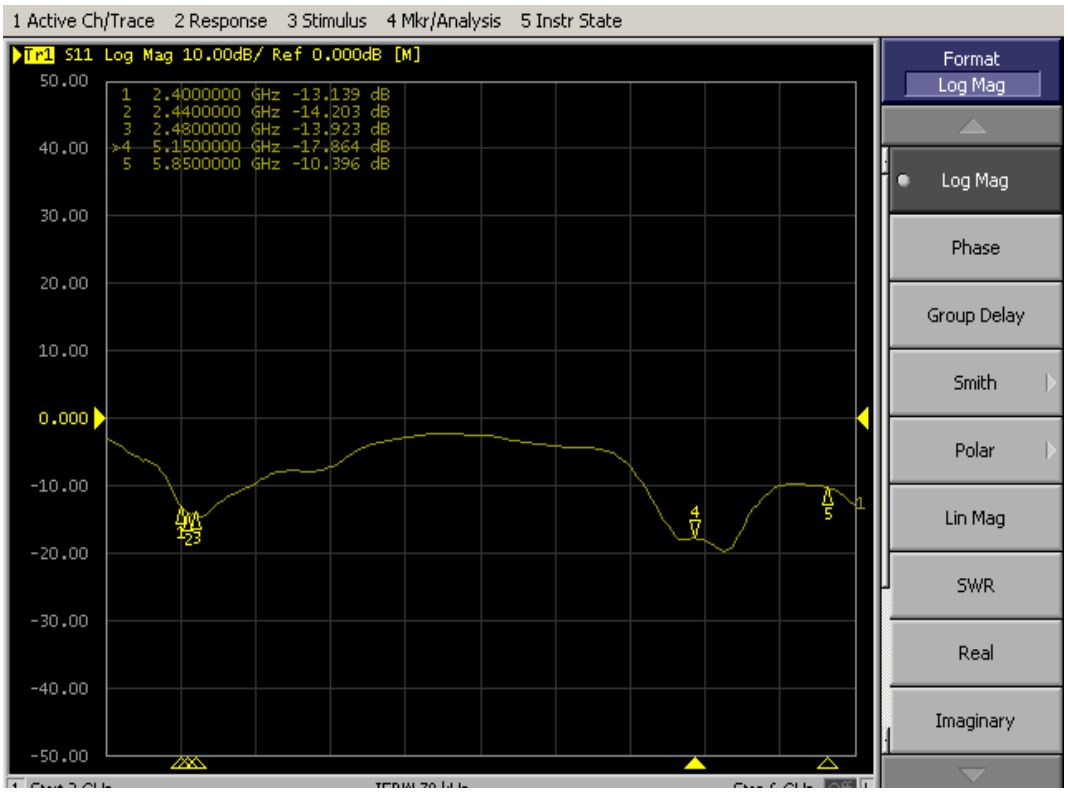
电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500MHZ/5150-5800MHZ
频带宽度 Bandwidth (MHz)	20
输入阻抗 Input Impendence (Ω)	50
电压驻波比 V.S.W.R	≤1.5
增益 Gain (dBi)	5
极化形式 Polarization Type	垂直 Vertical

雷电保护 Lightning Protection	直流接地
功率容量 Power Capacity (w)	50
机械指标 Mechanical Specifications	
天线长度 Antenna Length (mm)	195mm±3mm
辐射体 Radiator	铜 Cuprum
连接器型号 Connect Type	SMA 内针/内孔
工作温度 Working Temp(℃)	-40-60
储藏温度 Storage Temperature(℃)	-20-60
外壳颜色 Radome Color	黑色 Black
重量 Weight (g)	21.5

2.2.1. 电压驻波比 VSWR



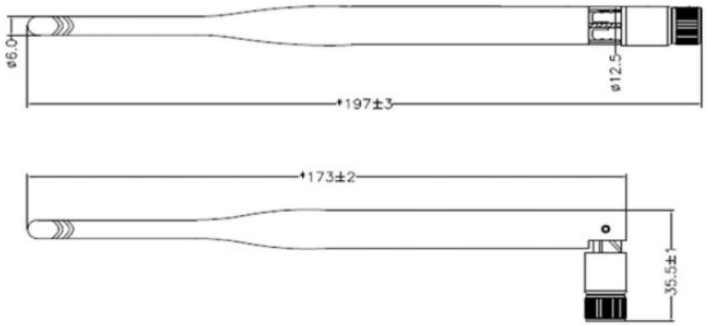
2.2.2. 回波损耗 Log Mag



单位：mm　　比例：1:1

RoHS COMPLIANT

REVISIONS				
ZONE	REV	DESCRIPTTION	DATE	APPROVED
	A	INTIAL DESIGN	2019/03/01	Lu



08	
07	频率：2.4GHz 5.8GHz
06	阻抗：50ohm
05	VSWR：<1.5
04	接口型号1：SMA-J
03	天线颜色：黑色
02	增益：5dBi
01	尺寸：L=197MM

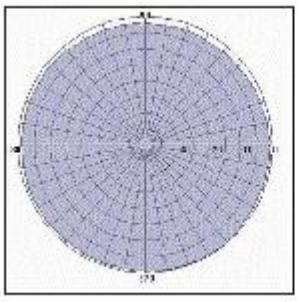
ShenZhen ChuFeng Communication Technology Co., Ltd
TEL: 0755-29769193　FAX:0755-29769193

TITLE: 双频胶棒天线197MM

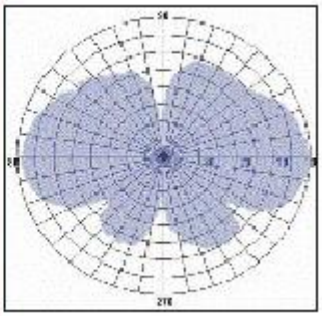
DWG NO.	CUSTOMER PIN	UNIT	REV.
CF-双频5DB-197mm		mm	A

GENERAL TOLERANCES		SCALE 2:1	APPROVALS	DATE
.x	±0.2	SIZE A4	DRAWN BY:	
.xx	±0.2		CHK'D BY:	
.xxx	±0.2			
ANGLES	±3°	SHEET 1 of 1	APP'D BY:	
(UNLESS OTHERWISE SPECIFIED)				

水平面方向图

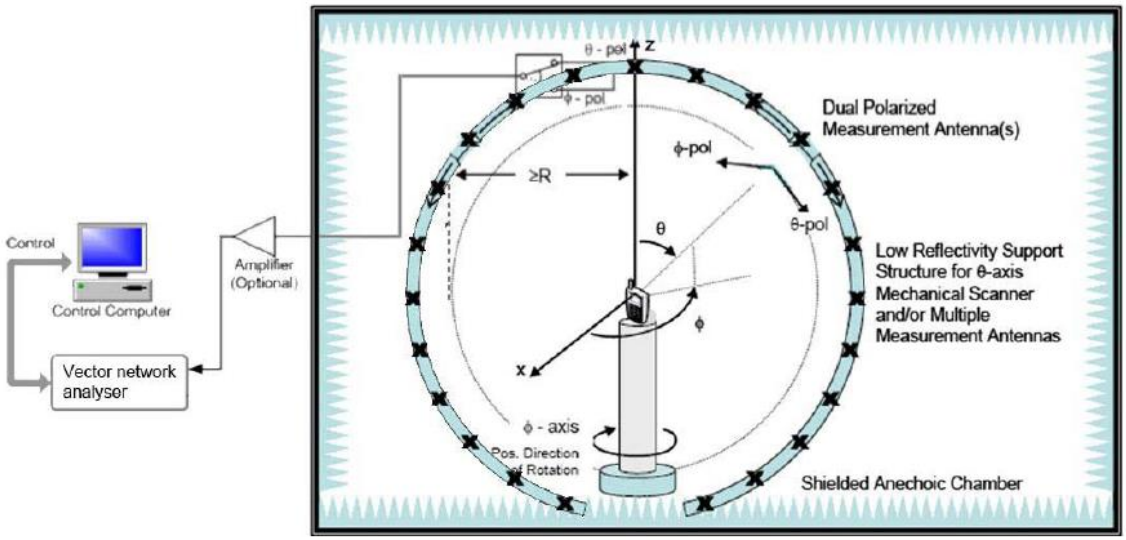


垂直面方向图



2.3. 效率及增益 **Efficiency** and Gain

2.3.1. 测试系统 Test system

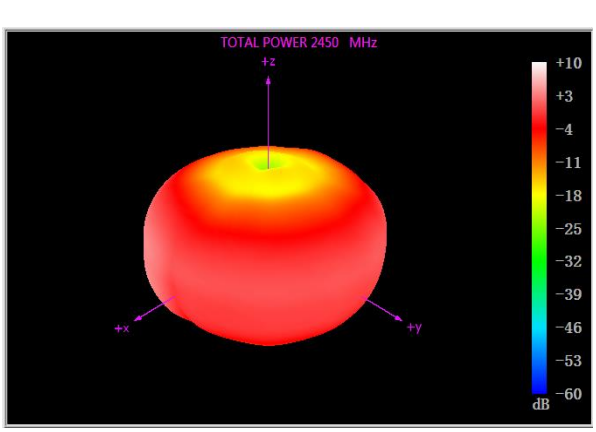


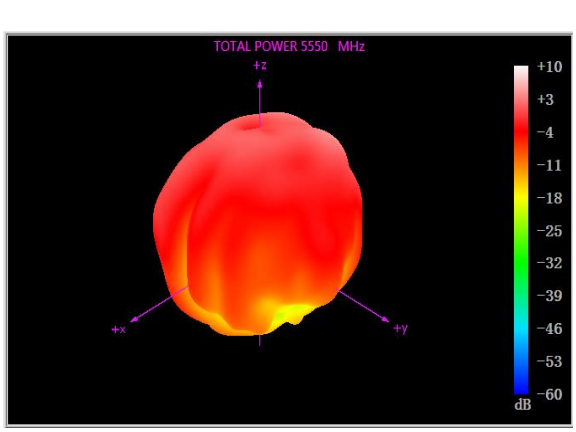
2.3.2. 无源数据 No-source test data

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400 MHz	73.3	4.6
2410 MHz	76.98	4.99
2420 MHz	80.08	5.3
2430 MHz	80.83	5.42
2440 MHz	77.86	5.22
2450 MHz	71.74	4.65
2460 MHz	75.88	4.6
2470 MHz	73.21	4.27
2480 MHz	65.98	3.73
2490 MHz	70.06	4.1
2500 MHz	69.83	4.09

Frequency (MHz)	Efficiency (%)	Gain (dBi)
5150 MHz	51.51	3.51
5200 MHz	48.9	4.6
5250 MHz	59.58	4.86
5300 MHz	60.11	5.14
5350 MHz	49.86	5.71
5400 MHz	52.51	5.12
5450 MHz	48.99	5.02
5500 MHz	43.47	5.43
5550 MHz	51.41	4.79
5600 MHz	49.95	4.27
5650 MHz	49.27	4.07
5700 MHz	47.79	3.84
5750 MHz	43.94	5.17
5800 MHz	43.87	5.08
5850 MHz	42.15	5.01

2.3.3. 3D Radiation Drawing





2.3.4. directional drawing of horizontal plane