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APPROVAL SHEET

客户名称 Customer				
项目名称 Project Name	0dBi BT Antenna			
工作频段 Working Band/Type	2.4GHz Folded Dipole Antenna			
供应商名称 Supplier	上海圣丹纳无线科技有限公司 Shanghai Saintenna Wireless Technology Co.,LTD.			
圣丹纳物料型号 Saintenna P/N	SAA31578A			
是否符合 RoHS IF ROHS	yes			
送样日期 Providing Date	2020.07.10			
供应商 Supplier	制定 Prepared by	设计 Designer	品质 QA	批准 Approver
	马玉学	钱锐	李光辉	余剑平
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目录/Content

一 封面/Cover.....	☒
二 目录/Content.....	☒
三 规格/Specification.....	☒
四 图纸/Drawing.....	☒
五 电性能报告/Electric Report.....	☒

规格/Specification

1. 机械规格/Mechanical Specification

- 连接方式/Connect Type..... SMA-J
- 工作温度/Work Temperature..... -40~85℃
- 存储温度/Storage Temperature..... -40~85℃

2. 电性能参数/Electrical Specification

- 频段/Frequency Range..... 2400MHz~2500MHz
- 驻波比/VSWR..... <3
- 增益/Peak Gain..... 0dBi
- 极化/Polarization..... Vertical
- 特性阻抗/Input Impedance..... 50 Ω
- 最大承载功率/Max Input Power..... 5W



0dBi BT Antenna

上海圣丹纳无线科技有限公司
Shanghai Saintenna Wireless Technology Co.,LTD.

Project Information

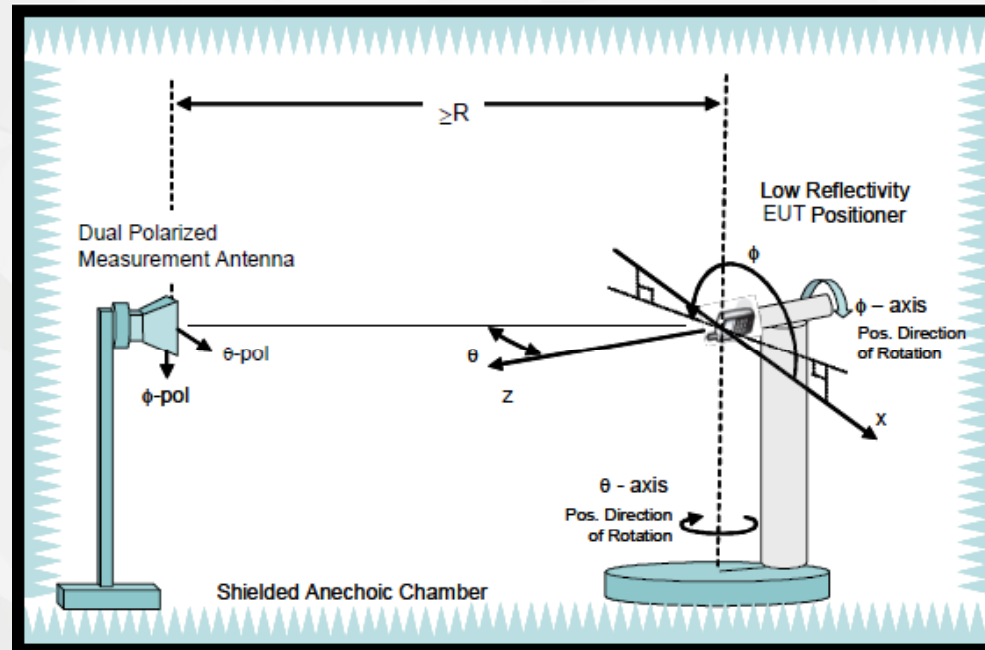
客户名称 Customer Name	Quectel
项目名称 Project Name	0dBi BT Antenna
工作频段/类型 Working Band/Type	2.4GHz Folded Dipole Antenna
规格 Description	SMA-Male
版本版本 Version	V1.0
日期 Date	2020-7-10

Tuning Instrument

Network Analyzer	Agilent E5071C
Frequency Range	100KHz ~ 8.5GHz
Calibration date	2020.03.03
Test Item	Return Loss/VSWR/Smith Chart /Isolation



Typical Setup for Test System



Combined-Axes System

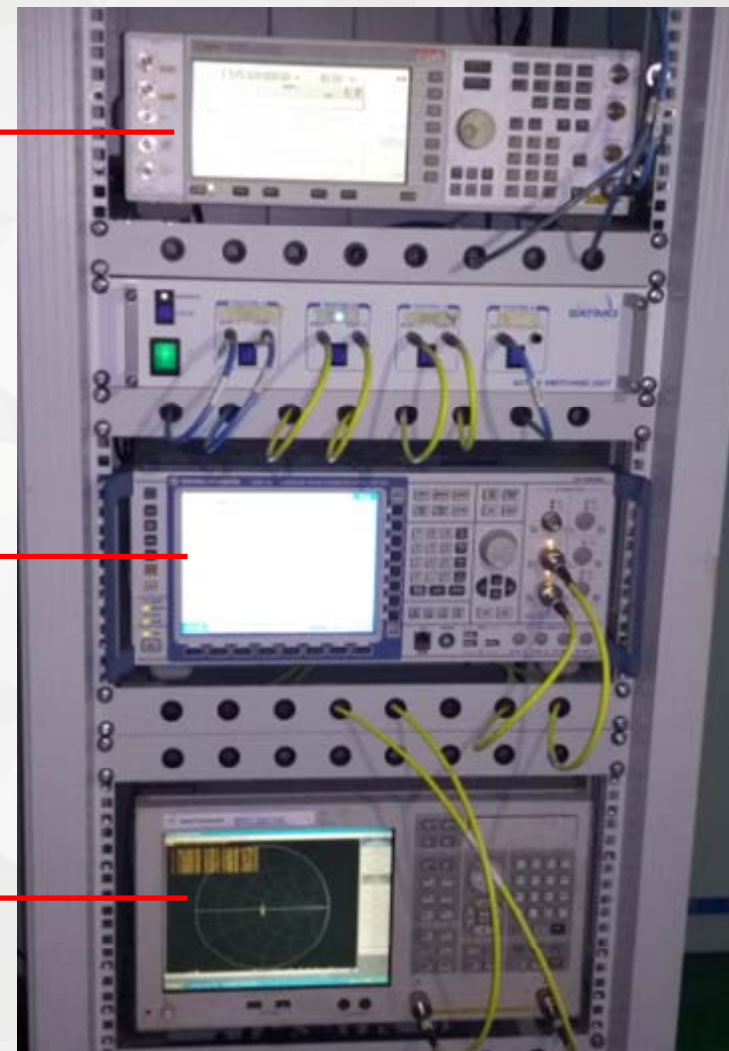
Antenna Radiation Pattern Measurement Software Version: V3.1

Test Instrument

Generator	Agilent E4438C
Test Item	GPS

Radio Communication Tester	R&S CMW500
Test Item	Active Test

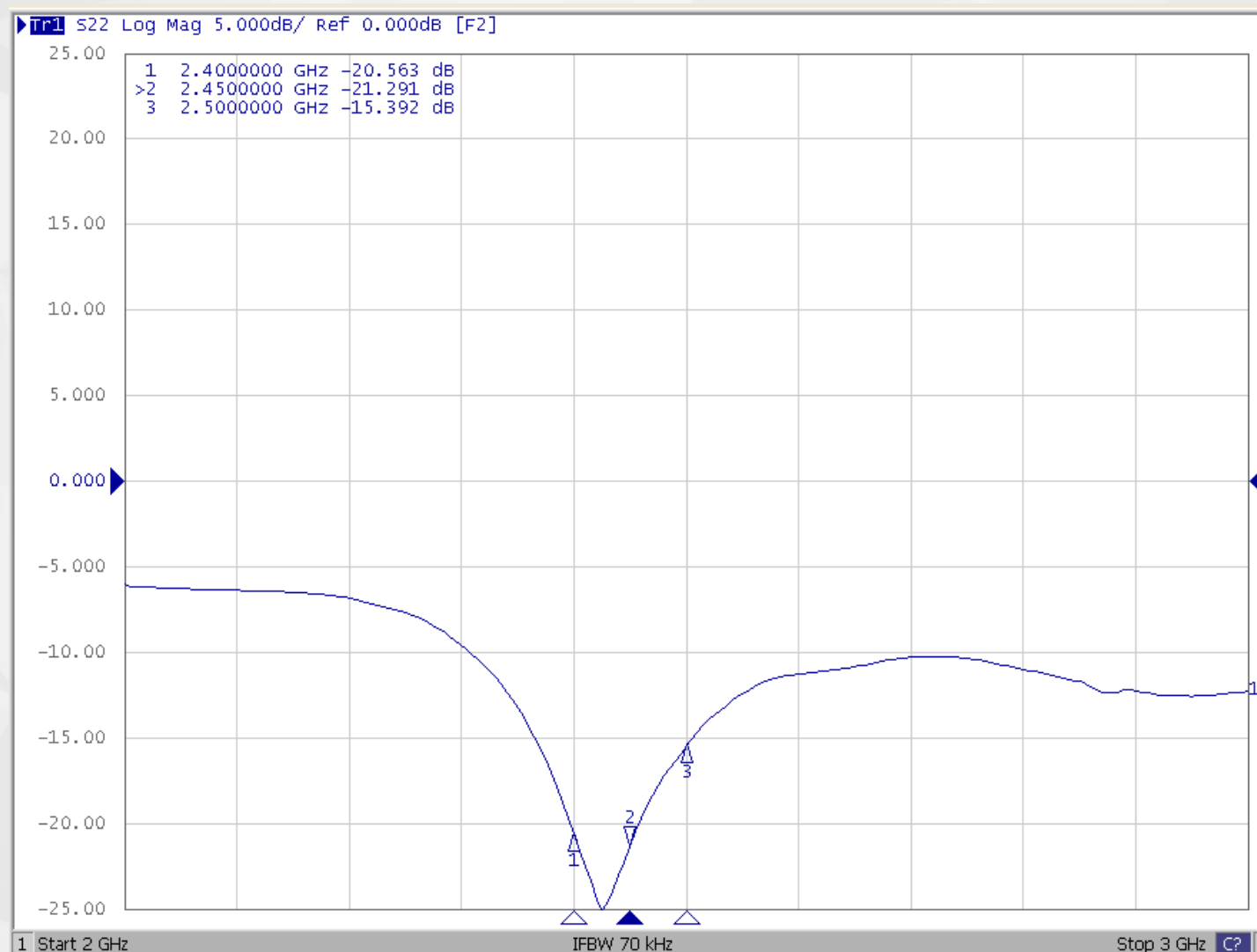
Network Analyzer	Agilent E5071C
Test Item	Passive Test



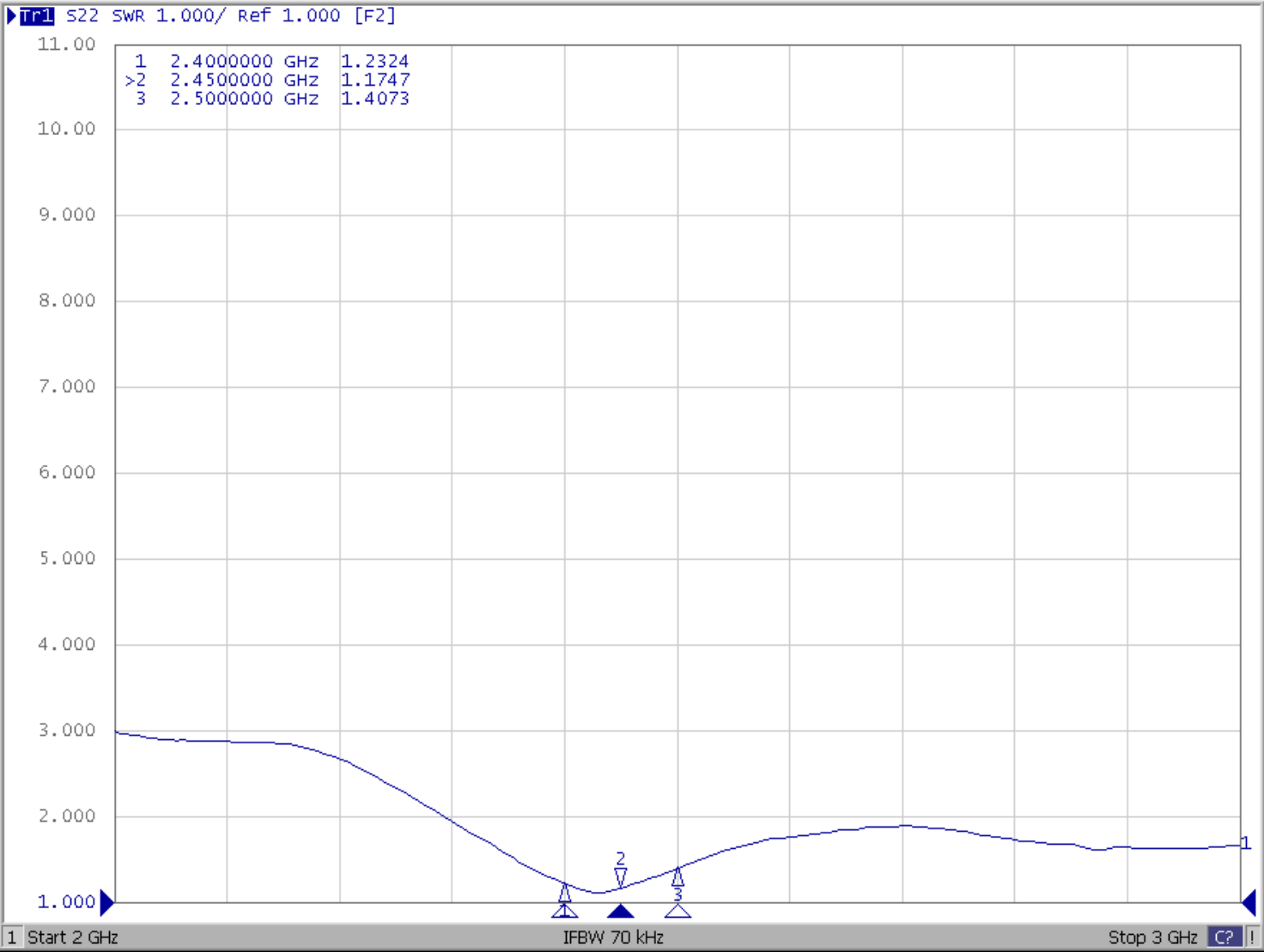
Test Fixture



S11 Return Loss



S11 VSWR

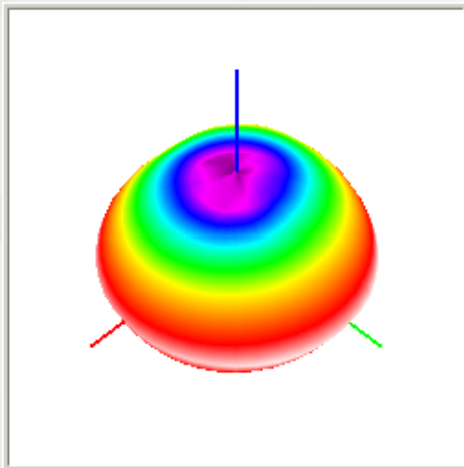


Gain/Efficiency

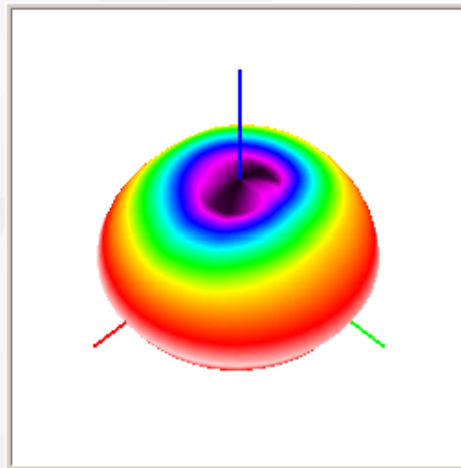
Freq.(MHz)	Gain(dBi)	Efficiency
2400	0.25	51.60%
2410	0.47	51.80%
2420	-0.02	49.00%
2430	-0.12	46.60%
2440	-0.04	46.50%
2450	-0.55	45.60%
2460	-0.34	45.00%
2470	-0.11	44.70%
2480	-0.02	43.80%
2490	-0.11	43.40%
2500	-0.24	43.50%

Test Result

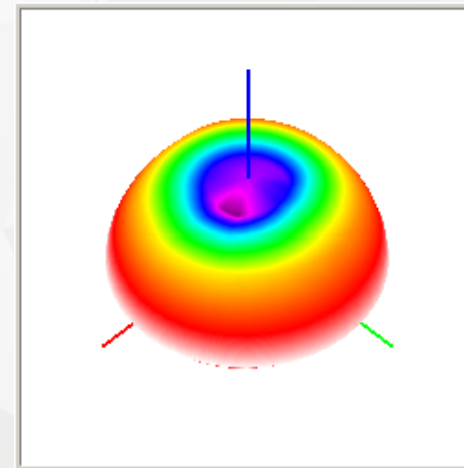
Frequency(GHz)	2.4	2.45	2.5
VSWR	1.29	1.4	1.54
Gain(dBi)	0.25	-0.55	-0.24



2.4GHz



2.45GHz



2.5GHz