

深圳市艾特诺通讯设备有限公司

SHENZHEN ATN COMMUNICATION TECHNOLOGY CO.,LTD.

承 认 书

SPECIFICATION FOR APPROVAL

客 户: CUSTOMER:	艾创力ettronic
客 户 编 号: CUSTOMER P/N:	1246-7006
本 厂 编 号: OUR MODEL NO:	ATN1446
规 格: SPECIFICATIONS:	2.4G-2.48G Bluetooth antenna
样 品 数: Q'TY:	1 PCS
日 期: DATE:	2023.09.26

深圳市艾特诺通讯设备有限公司 A T N			客 户 CUSTOMER		
结 构 Structure	射 频 RF	核 准 Approver	结 构 Structure	电 子 Electronics	核 准 Approver

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change record				
Release/change date	reasons for change	content of change	Version	Remark
2023.09.26	New edition issue	New edition issue	A1.0	

一、测试设备 Test Equipment&Conditions

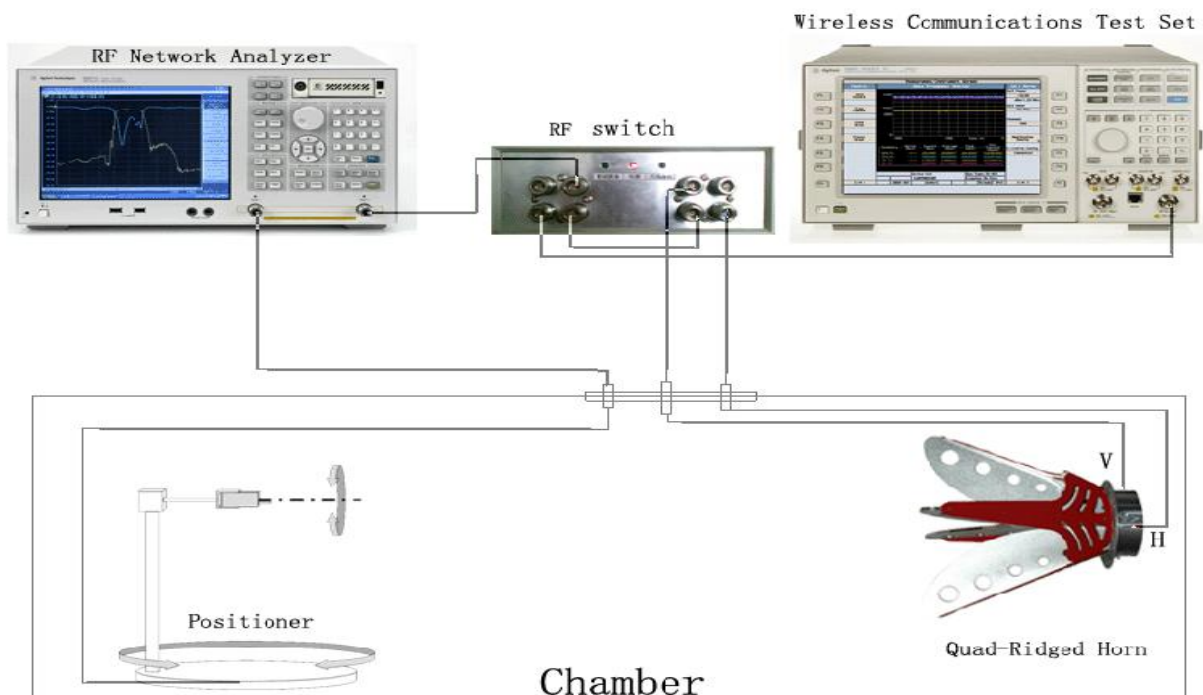
1.1 网络分析仪 (Network Analyzers)

Agilent Technologies E5071B

1.2 综合测试仪 (Communications Test Set)

CMW500

1.3 3D 暗室测试系统 (3D Chamber Test System)



二、产品规格 Product Specification

2.1、Material&Mechanical Characteristics

材质 Material FPC

尺寸 Dimension mm

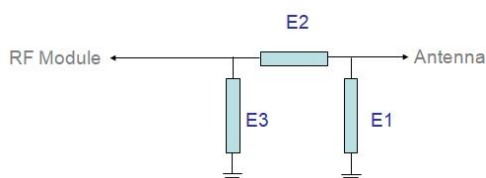
2.2、储存条件 Storage conditions

储存温度 Storage Temperature 22°C±5°C

相对湿度 relative humidity 35-65%

储存期限 Storage life 360 days

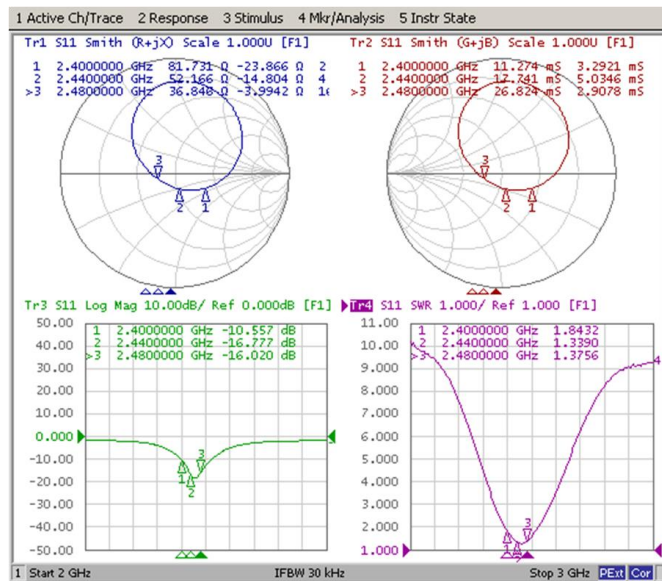
三、匹配电路 Matching circuit



Element	Value
E1(0201)	NC
E2(0201)	0Ω
E3(0201)	NC

四、测试数据报告 Test Data Report

4.1 S11 Parameter

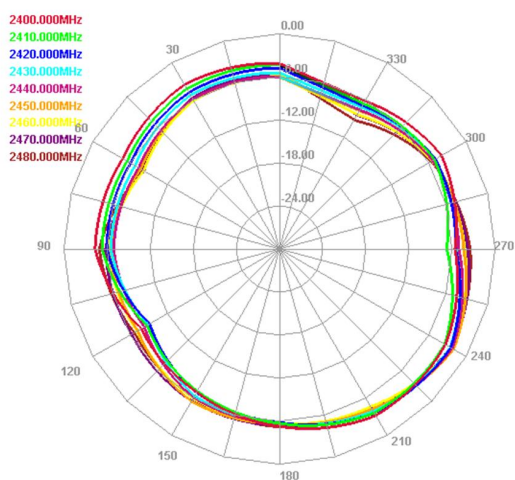


4.2 增益和效率 Gain & Efficiency

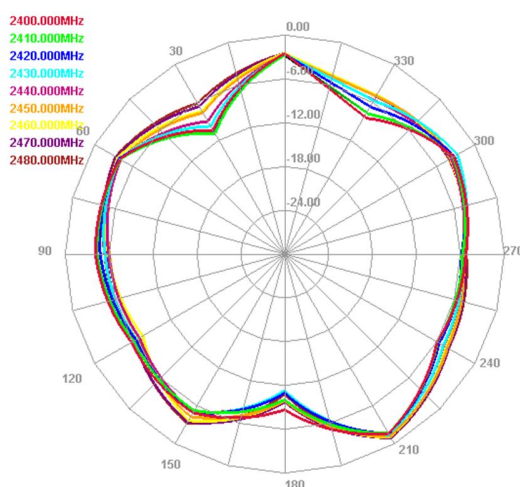
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	34.03	-4.68	-1.59
2410	32.03	-4.94	-1.64
2420	32.8	-4.84	-1.59
2430	33.21	-4.79	-1.42
2440	32.51	-4.88	-1.51
2450	34.23	-4.66	-1.16
2460	33.17	-4.79	-1.03
2470	35.17	-4.54	-0.97
2480	35.04	-4.55	-0.85

4.3 方向图 Radiation pattern

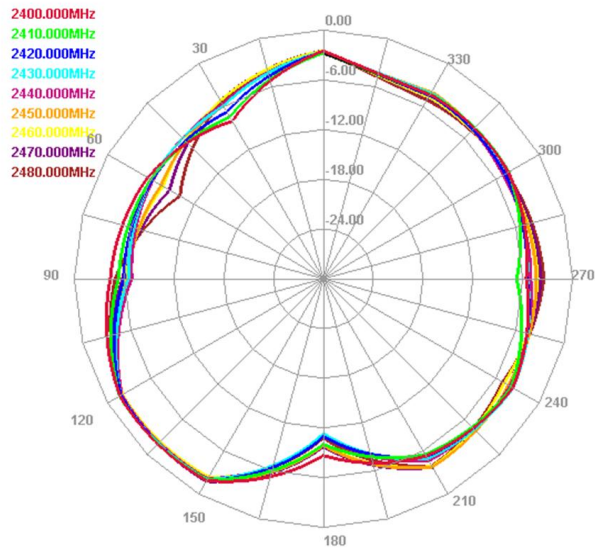
Horizontal



E1 Face



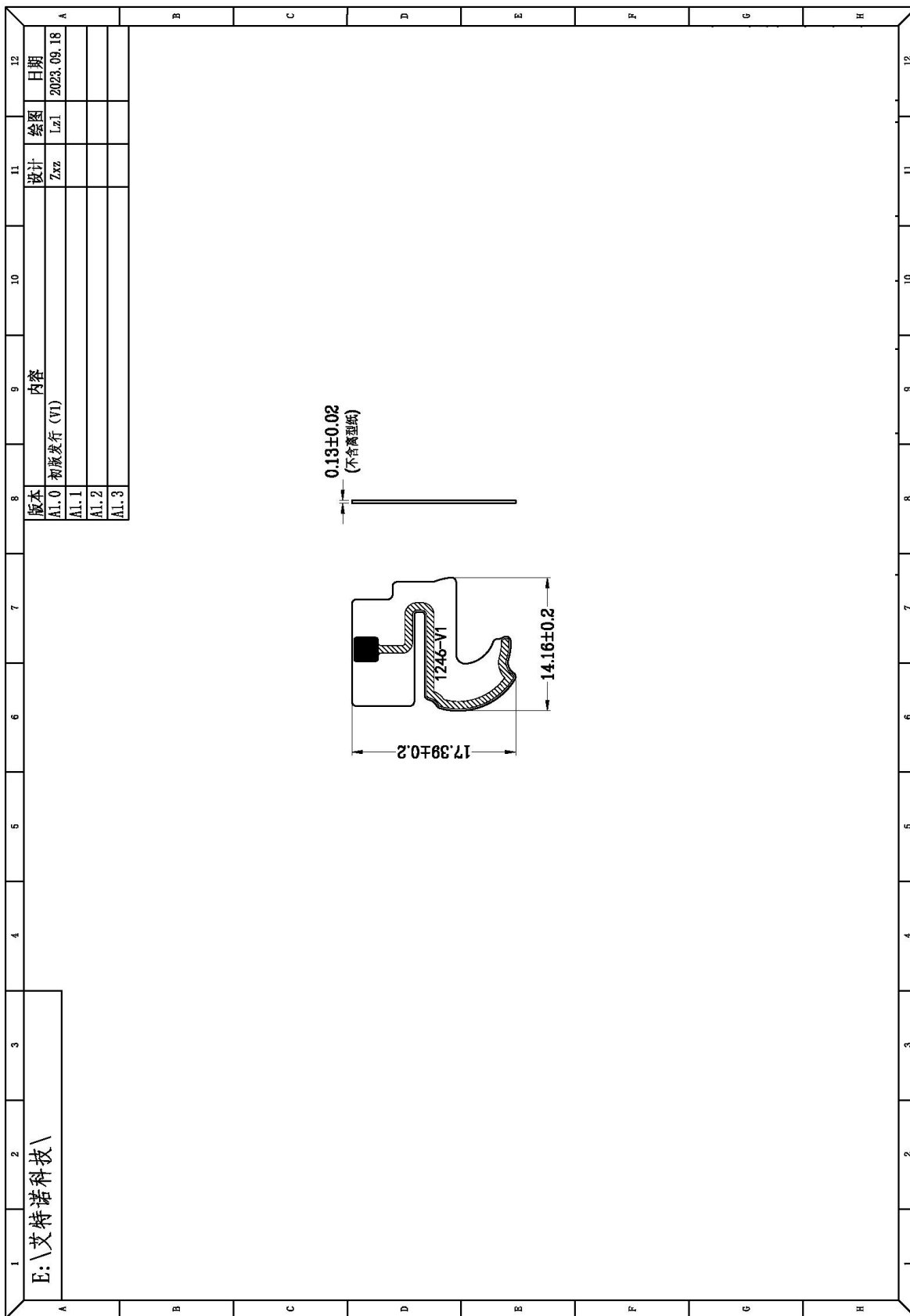
E2 Face



4.4 OTA 测试数据 OTA Test Data

band	channel	TRP (dBm)	TIS (dBm)
Bluetooth BR	0	2.0	-84.2
	39	3.1	-87.1
	78	4.2	-88.7

五、工程图纸Product Drawing



六、样品尺寸检测报告 Size test report

尺寸检验报告 Dimension test report

项目 project: 1246		品名 Product Name: 天线Antenna						
类别 category: FPC		数量 Quantity: 5 个 five			日期 Date: 2023.09.26			
检验依据标准: Inspection basis and standard		<input checked="" type="checkbox"/> 工程图纸 Engineering drawings <input type="checkbox"/> 标准样板 Standard template <input type="checkbox"/> 其它 Other _____						
检验项目 Inspection items		样品测验值 test value					判定结果 determine	
		1	2	3	4	5		
外观检验 Appearance inspectio	1.油污划痕、压伤等不良 Oil scratches, crushing, etc	√	√	√	√	√	OK	
	2、其它 Other							
尺寸检验 Dimensional inspection	1	17.39±0.2	17.42	17.46	17.42	17.44	17.46	ok
	2	14.16±0.2	14.2	14.24	14.26	14.22	14.24	ok
	3	/						
	4							