

芯中芯 **Antenna Test Report**

Customer	芯中芯
Project	A118
Antenna Revision	A1
Product Description	FPC
Product No	
DATE	2022. 08. 31

Product Overview & Dimension

Front



Purpose

This report is to measure the performance of BT antenna for **A118**. The antenna operating frequency at **2.4~2.5GHz**, All test data are showed as below.

Content

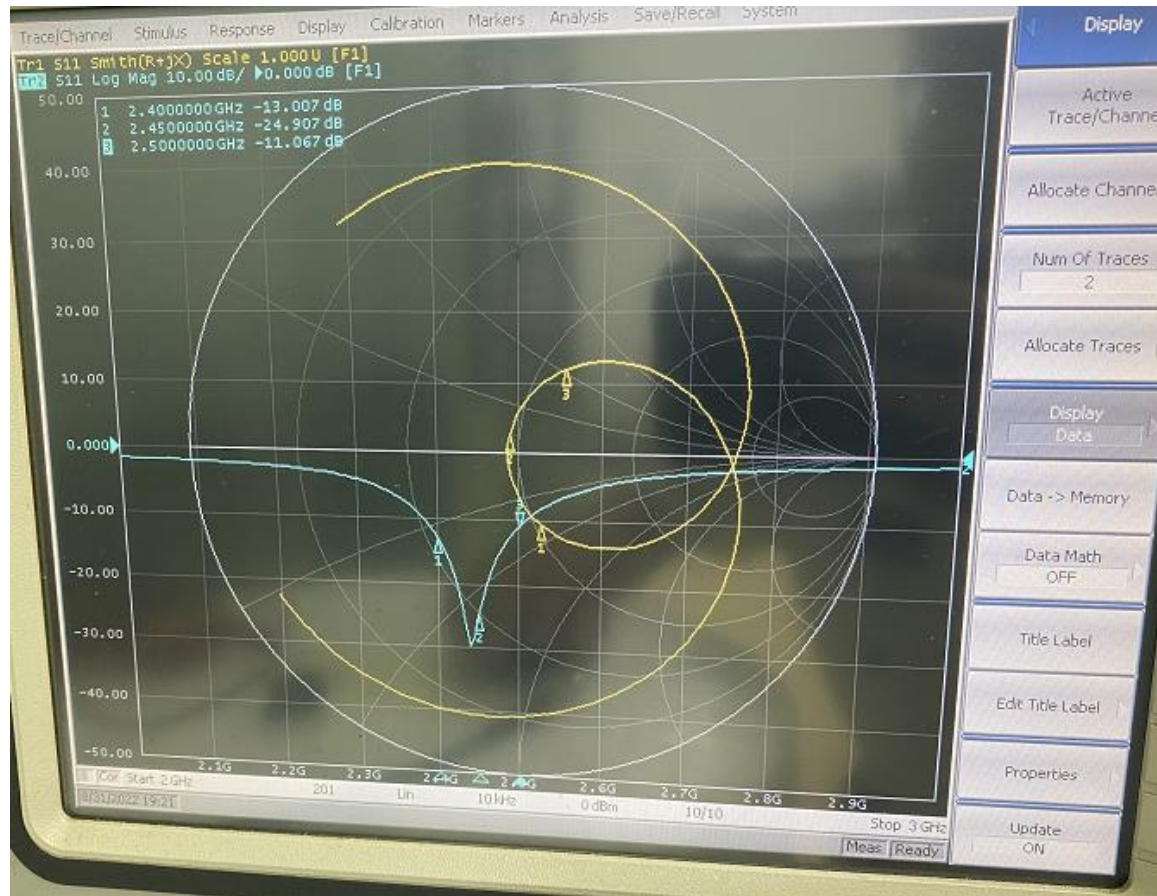
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



无源S11—(BT ANT)



(L-R)

芯中芯

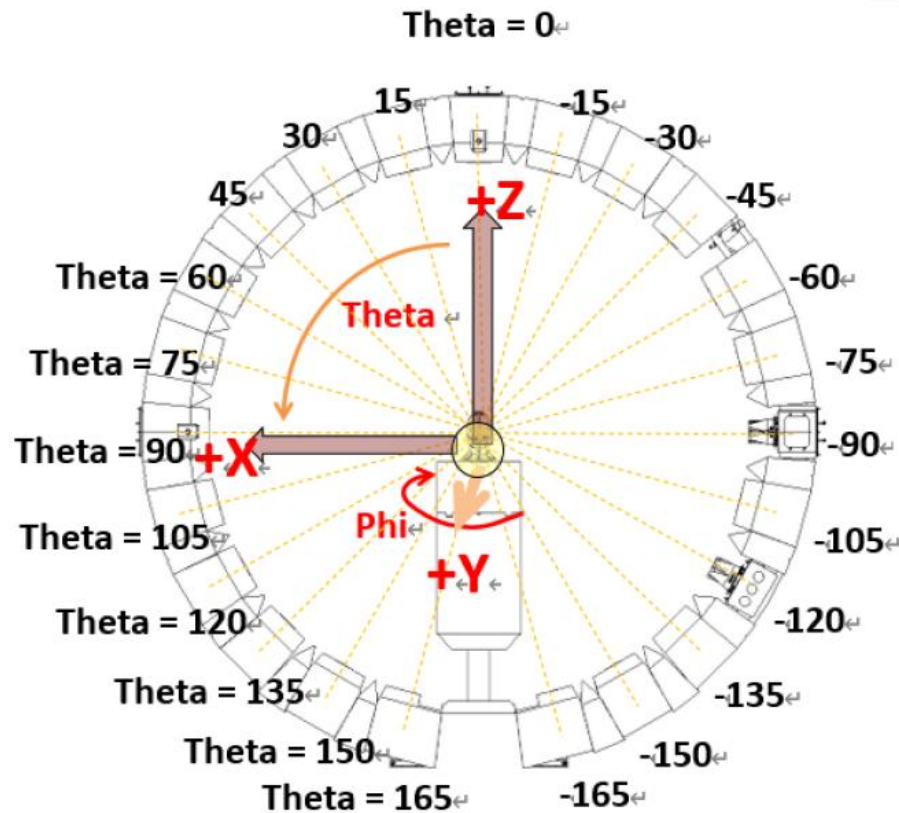
A118

2022.08.31



Test Result

Sample status & coordinates



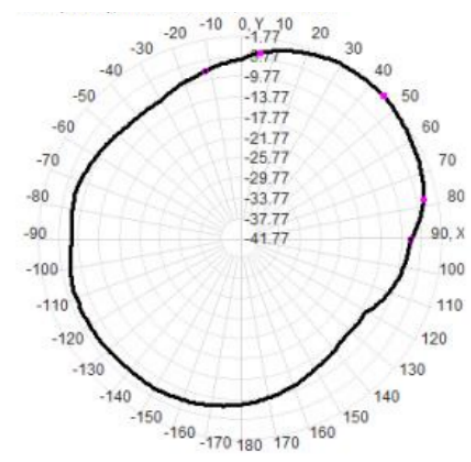
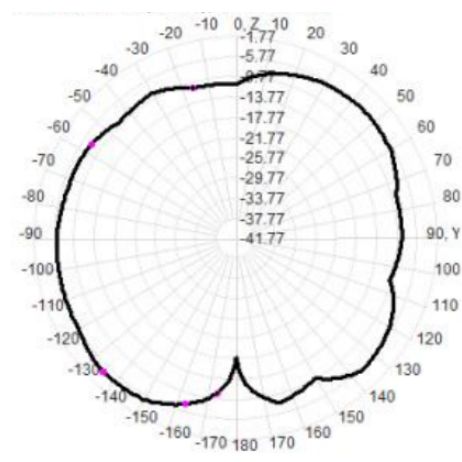
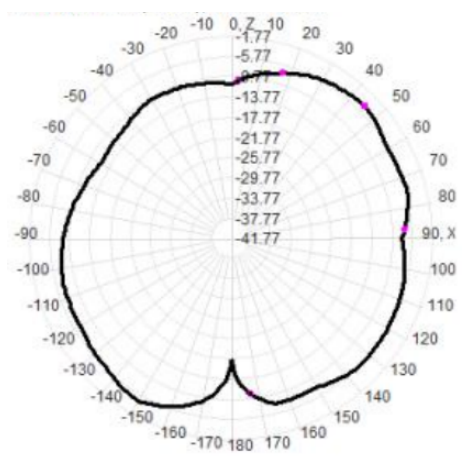
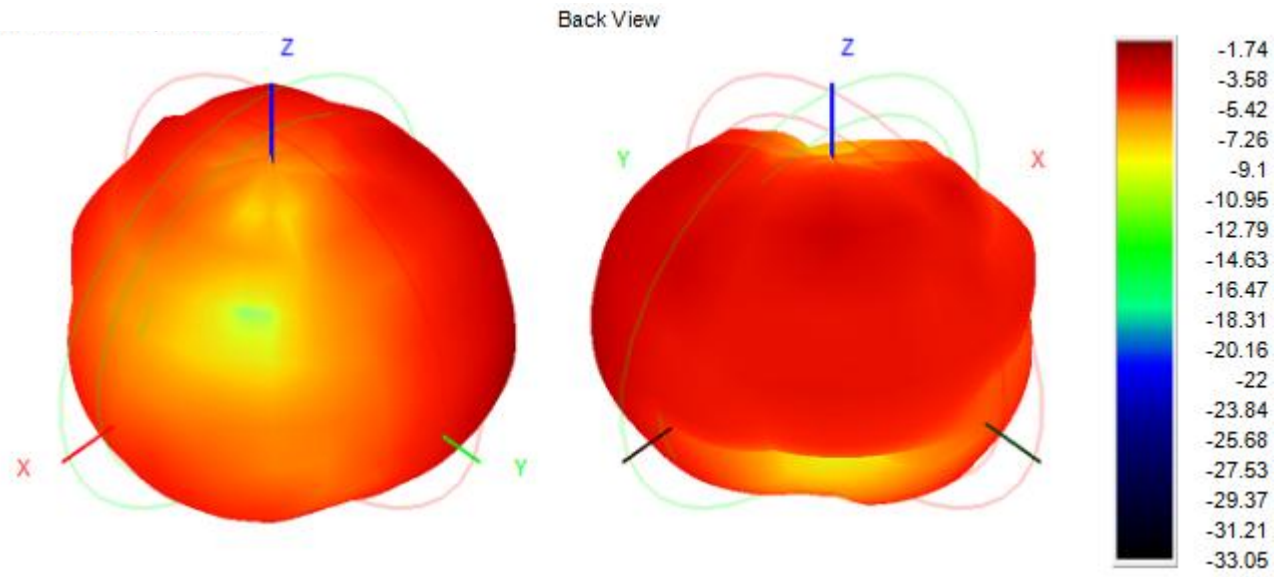
Test Result

Gain & Efficiency — **BT- ANT(L/R)**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	18.39	0.24
2410	19.58	0.30
2420	21.58	0.50
2430	20.40	0.47
2440	20.11	0.45
2450	20.21	0.42
2460	20.88	0.36
2470	20.14	0.29
2480	20.58	0.34
2490	19.41	0.23
2500	19.21	0.25

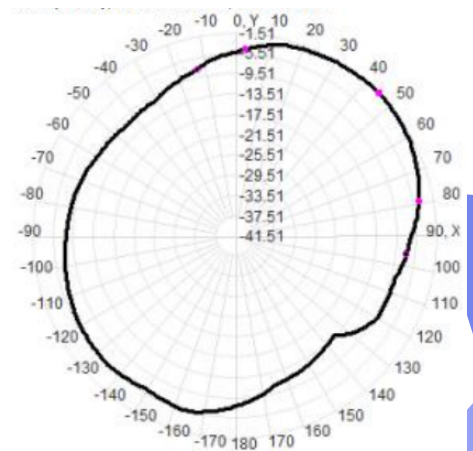
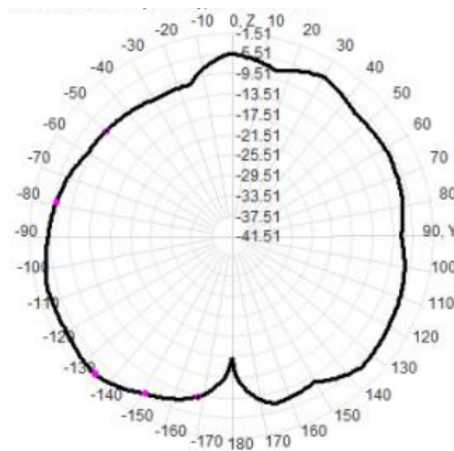
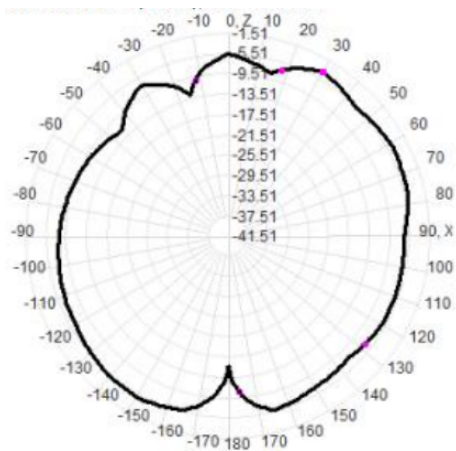
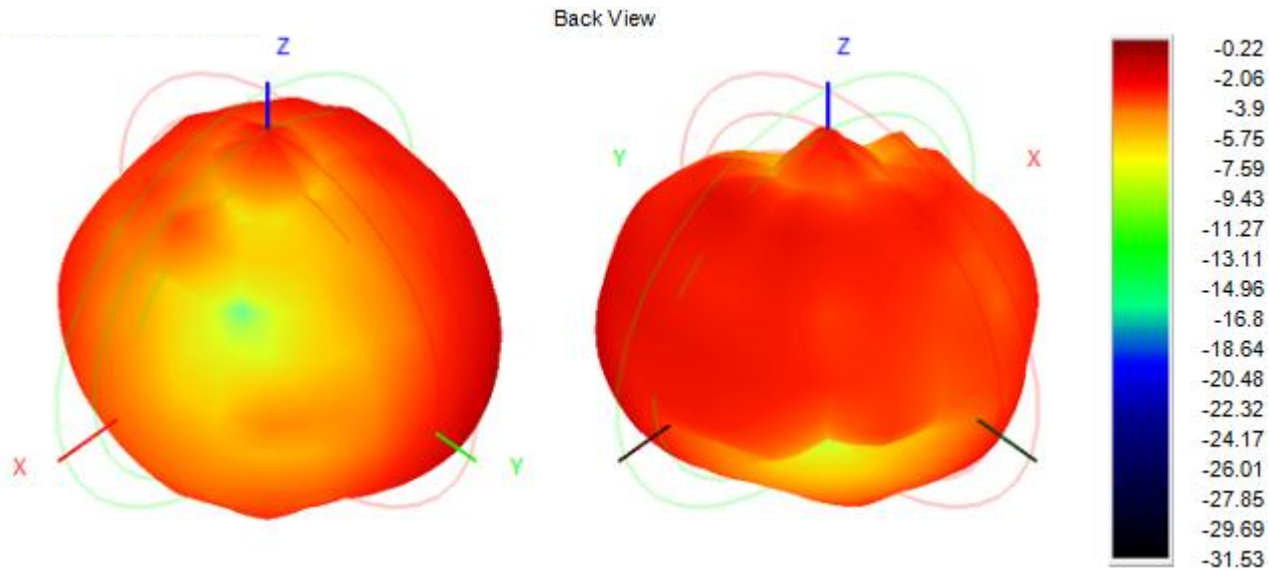
Test Result

2D&3D — BT-ANT



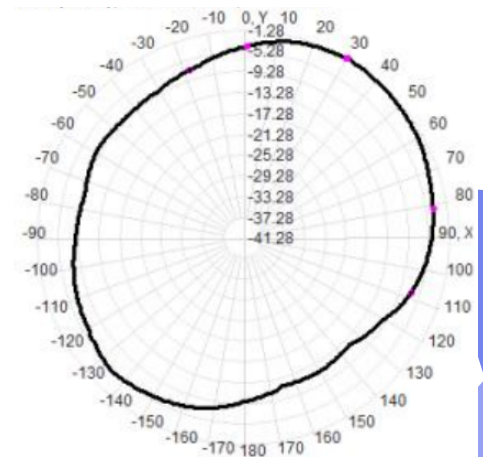
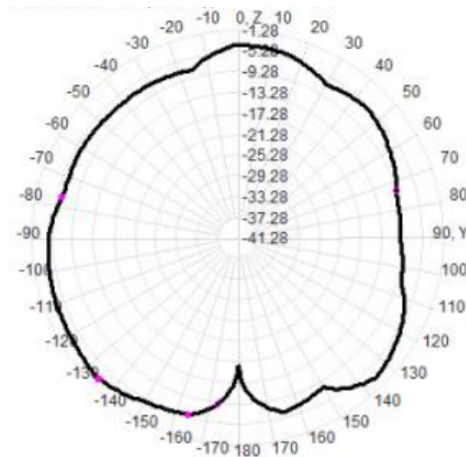
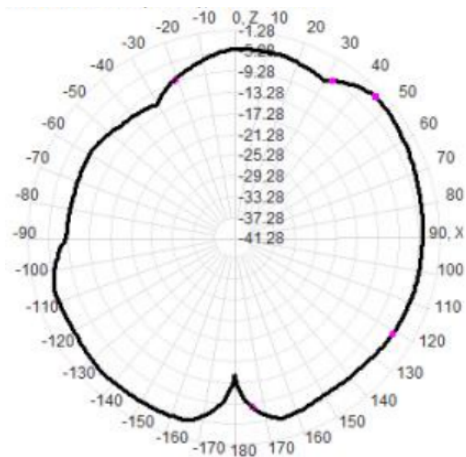
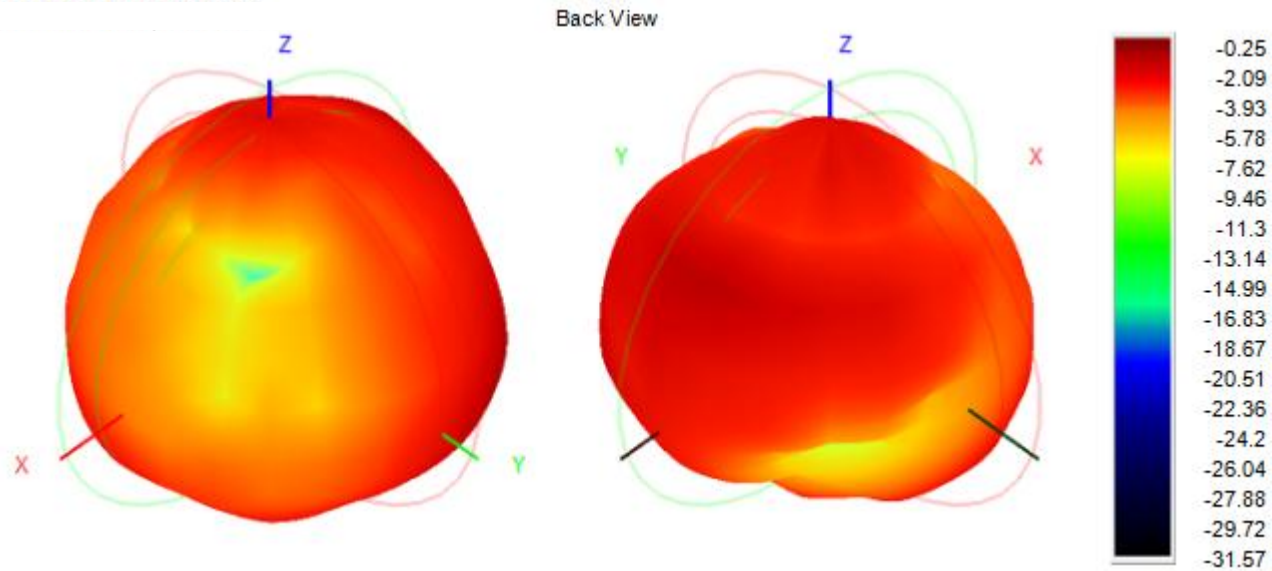
Test Result

2D&3D — BT-ANT

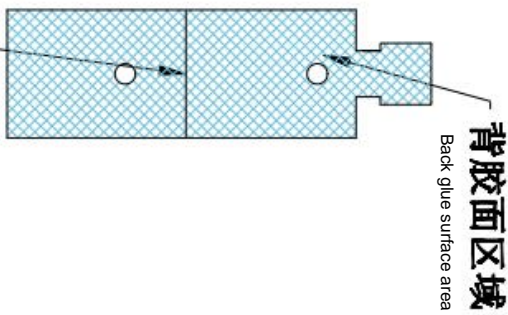
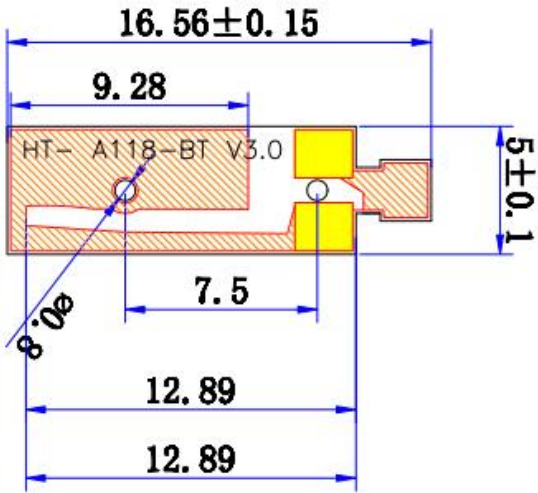


Test Result

2D&3D — BT-ANT



零件	FOR IDENTIFICATION
开模	FOR TOOLING
检测	FOR EVALUATION
出图	APPROVED DATE
参考	REFERENCE



背胶纸切断线位
Adhesive paper cut line position

- 技术要求**
1. 需符合欧盟RoHS, REACH, 具体详见附录;
 2. 单批用量: 2 PCS
 3. A面 PC 铜箔走线部分, B面代表 3M 9471 胶纸部分;
 4. FPC 总厚度为 $0.11 \sim 0.15 \text{mm}$ (不包括背胶纸型纸, 接地点需做镀金工艺 3mil)
 5. 请使用 P11 对半基材, 电解铜 表面黑色油墨 钢印白色
 6. 油墨不含颗粒金属粒子, 表面 UV 耐摩擦紫外线;
 7. 高温抗氧化性: 200°C 、40 分钟后, 铜箔表面允许有少量氧化点, 每 $300 \text{mm} \times 300 \text{mm}$ 面积内, 氧化点个数不超过 2 个, 做成整排, 不可单个;

MODIFICATION	
NO.	DATE
DESCRIPTION	ENGINEER

深圳合拓科技有限公司

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DATE: 20220915

SCALE: 1:1

UNIT: MM

DESIGNED BY: JING XU

CHECKED BY: JING XU

DATE: 20220915

DESIGN: JING XU

DATE: 20220915

APPROVED BY: JING XU

DATE: 20220915

SIZE: A4

CUSTOMER REV: A118-EAR

DATE: 20220915

PART NAME: HT-20220915001-A118-EAR

Customer Rev: A118-EAR

DATE: 20220915