

# SPECIFICATION

客 戶

CUSTOMER: \_\_\_\_\_

客 戶 料 号

CUSTOMER NO: \_\_\_\_\_

品 名 **2.4-5.8GHz Antenna**

PART NAME: \_\_\_\_\_

供 方 料 号

SUPPLIER NO: \_\_\_\_\_

送样日期 Date:

送样数量 Q'TY: PCS

客户确认 **CUSTOMER APPROVED BY**

APPROVAL

CHIEF

SUPERVISOR

供方确认 **SUPPLIER SIGNATURE**

APPROVAL

CHECK

DESIGN

**sunny**

**ZouJie**

**LuoYi**

# Project Table

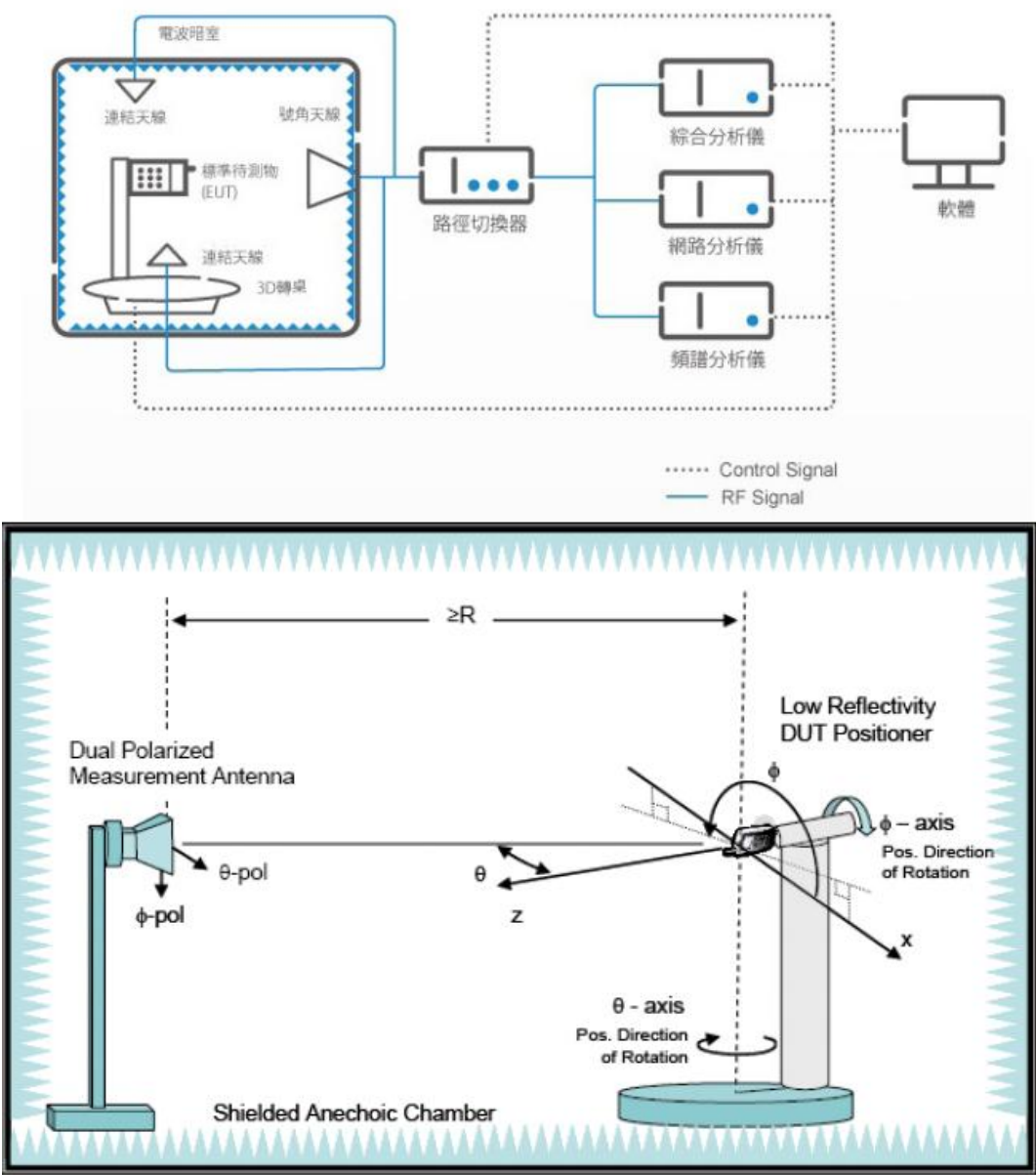
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# Specification

| Electrical Properties |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| Frequency             | 2.4-5.8GHz                                                                          |
| Impedance             | 50Ω Nominal                                                                         |
| V.S.W.R               | 2.0Max                                                                              |
| Return Loss           | -10 dB Max                                                                          |
| Radiation             | Omni-directional                                                                    |
| Gain (Peak)           | 1.57 dBi(BT Max);<br>1.19 dBi(2.4G Max);<br>1.07 dBi(5.2GMax);<br>0.87dBi(5.8G Max) |
| Cable Type            | Φ1.13mm                                                                             |
| Polarization          | Linear, Vertical                                                                    |
| Admitted Power        | 1 W                                                                                 |
| Physical Properties   |                                                                                     |
| Antenna Material      | FPC                                                                                 |
| Operating Temp.       | -40℃ ~+65℃                                                                          |
| Storage Temp.         | -10℃ ~+60℃                                                                          |
| Working humidity      | 5% ~ 95%                                                                            |
| Storage humidity      | 95%                                                                                 |

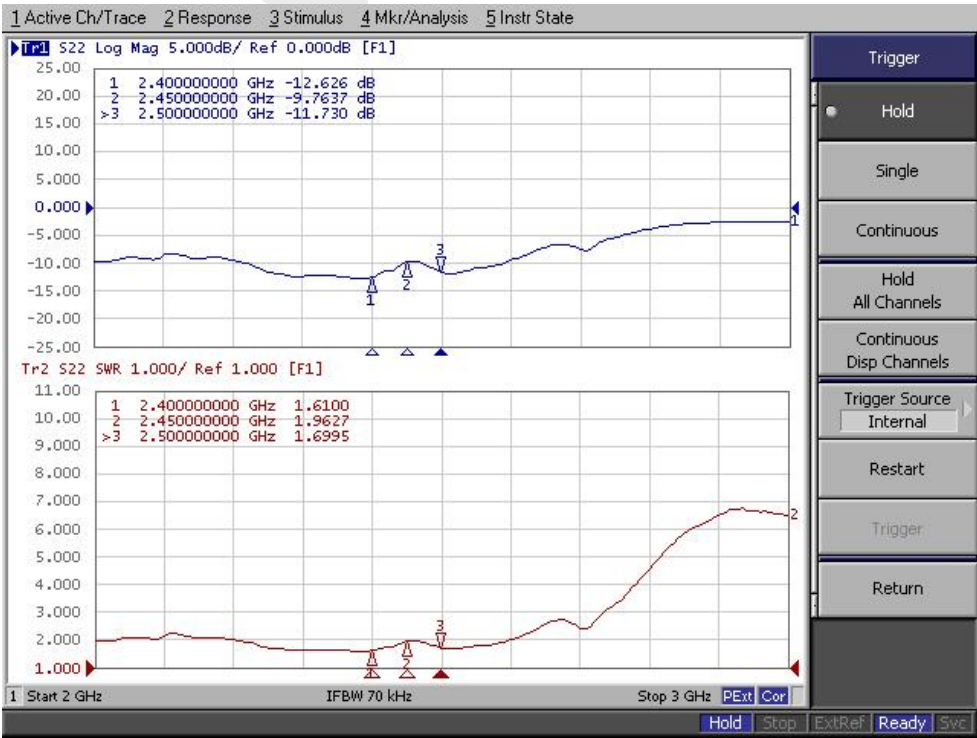
# Test Equipment

OTA 系統架構圖

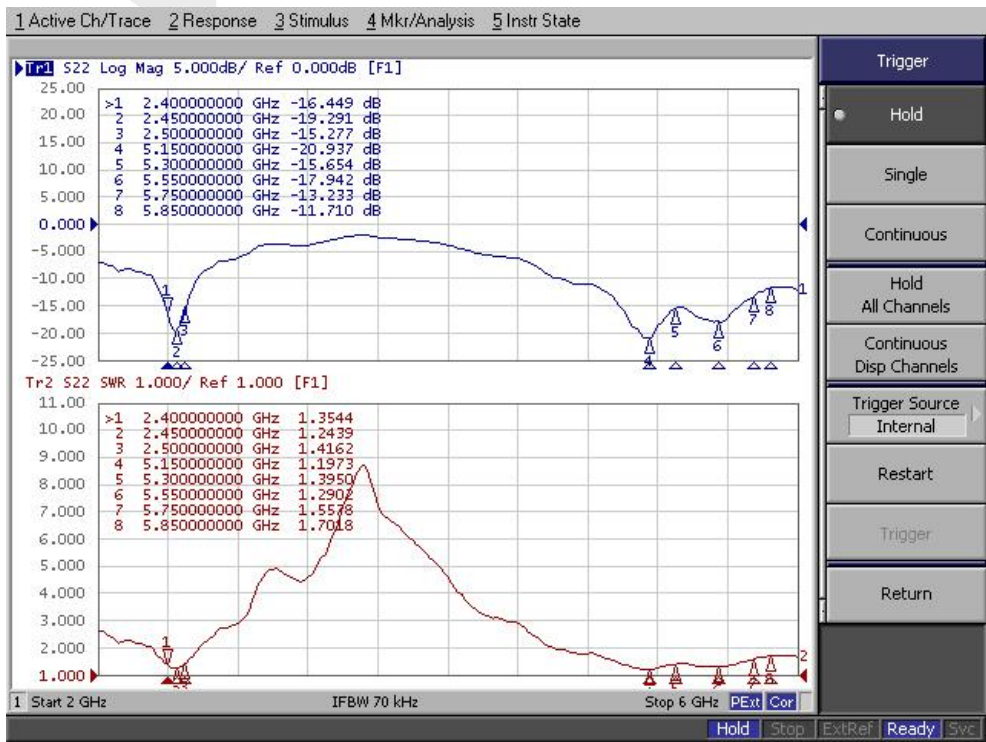


# Passive Data

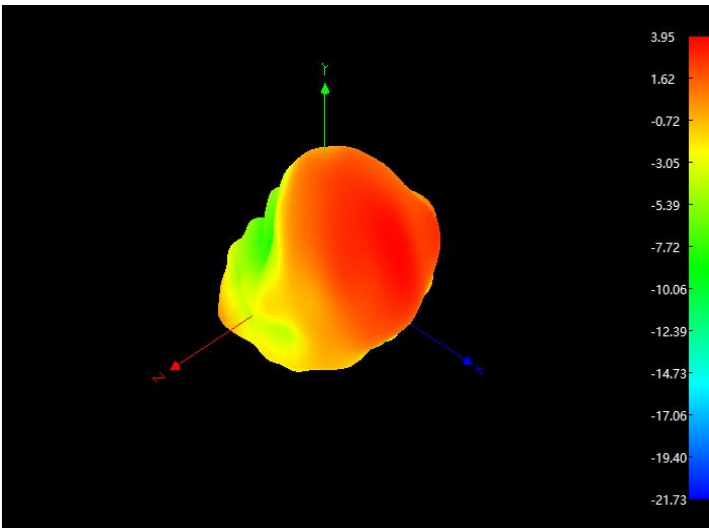
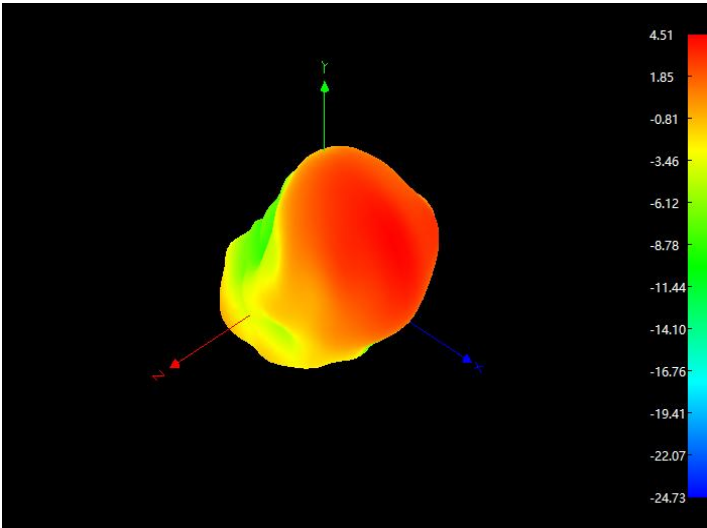
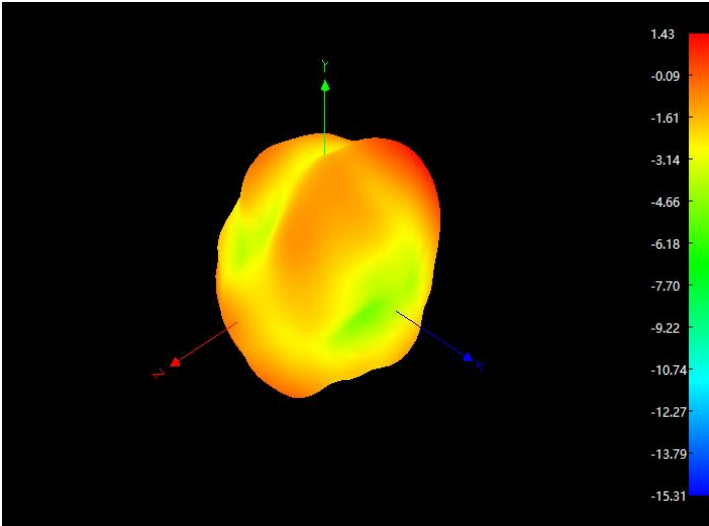
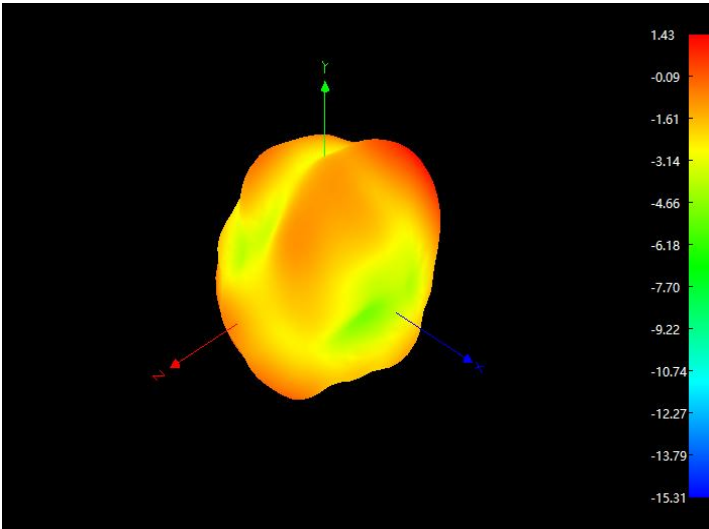
## R-LOSS.VSWR (BT)



## R-LOSS.VSWR(2.4G/5.8G)



# Direction Map



# Gain Test Data



## Effi / Gain BT

| Frequency      | 2. 4GHz | 2. 45GHz | 2. 5GHz |
|----------------|---------|----------|---------|
| Efficiency (%) | 46. 39  | 43. 49   | 45. 38  |
| Gain (dBi)     | 1. 57   | 1. 36    | 1. 47   |

## Effi / Gain 2.4G/5.8G

| Frequency      | 2. 40GHz | 2. 45GHz | 2. 50GHz | 5. 15GHz | 5. 55GHz | 5. 85GHz |
|----------------|----------|----------|----------|----------|----------|----------|
| Efficiency (%) | 42. 1    | 47. 99   | 44. 11   | 47. 79   | 42. 35   | 41. 04   |
| Gain (dBi)     | 0. 75    | 1. 19    | 0. 86    | 1. 07    | 0. 967   | 0. 87    |

