

# **Antenna Test Data Repor**

**Customer: Zeolite**

**Project: F22428TCL**

**Band: B2/B3/B5/B8**

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# 1. Test Project

|                              | Test Project                               | Equipment                                                                                      |
|------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------|
| 1. S Parameter               | 1. Return Loss (RL)<br><br>2. VSWR         | Network Analyzer:<br><br>Agilent 5071B                                                         |
| 2. RF Test<br><br>(2/3/4/5G) | 1. power<br><br>2. level<br><br>3. TRP/TIS | Comprehensive Test:<br><br>SP9500/CMW500/8960<br><br>Test Environment:<br><br>Anechoic Chamber |

# 2. Test Equipment



Agilent 5071B (S Parameter (RL/VSWR) Test Equipment)



**Agilent 8960** (2G/3G Test Equipment)

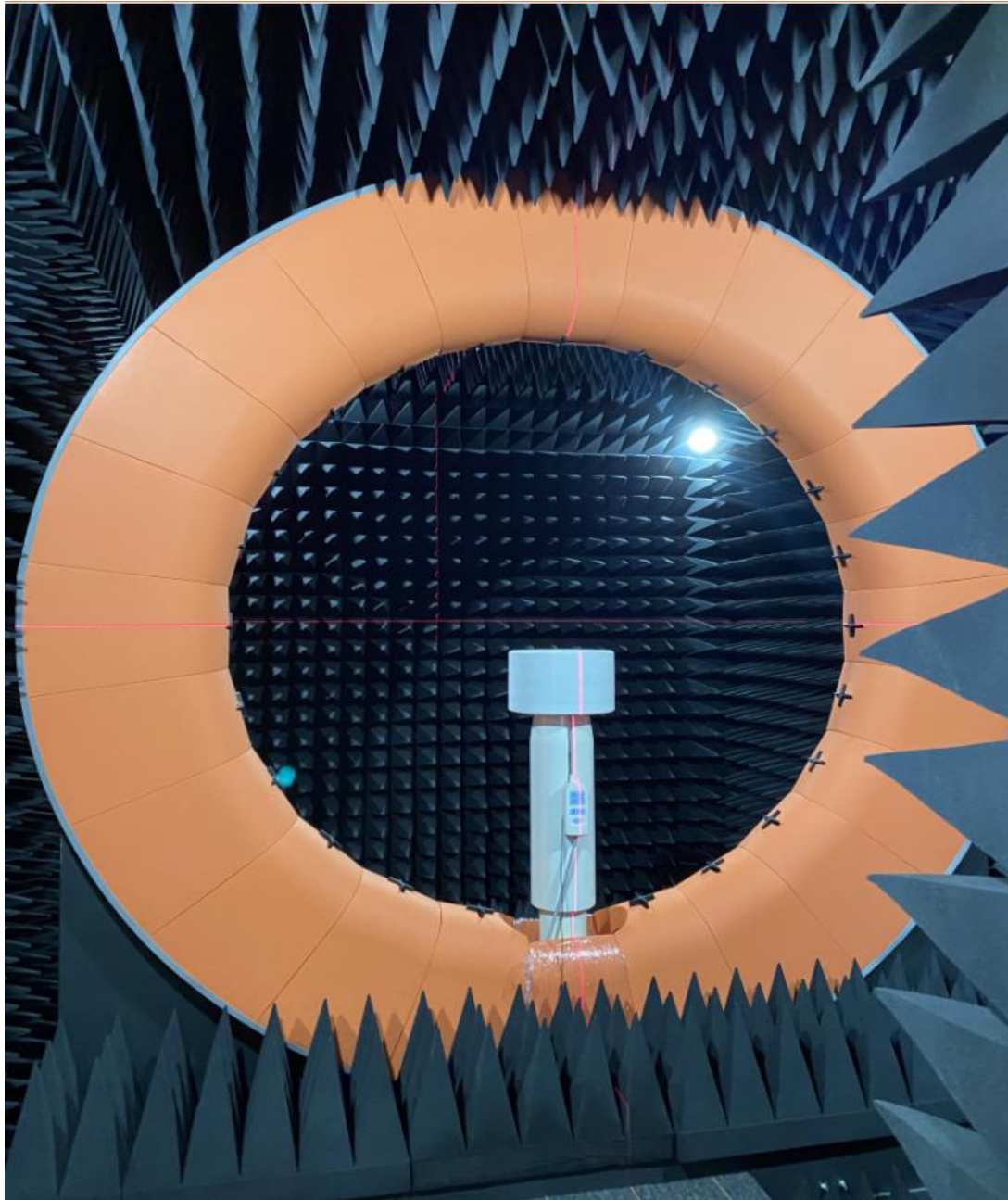


**CMW 500** (2G/3G/4G Test Equipment)



**SP9500** (5G Test Equipment)

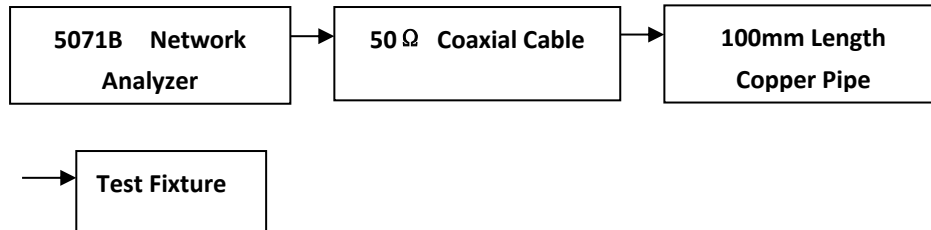
### 3. TestEnvironment



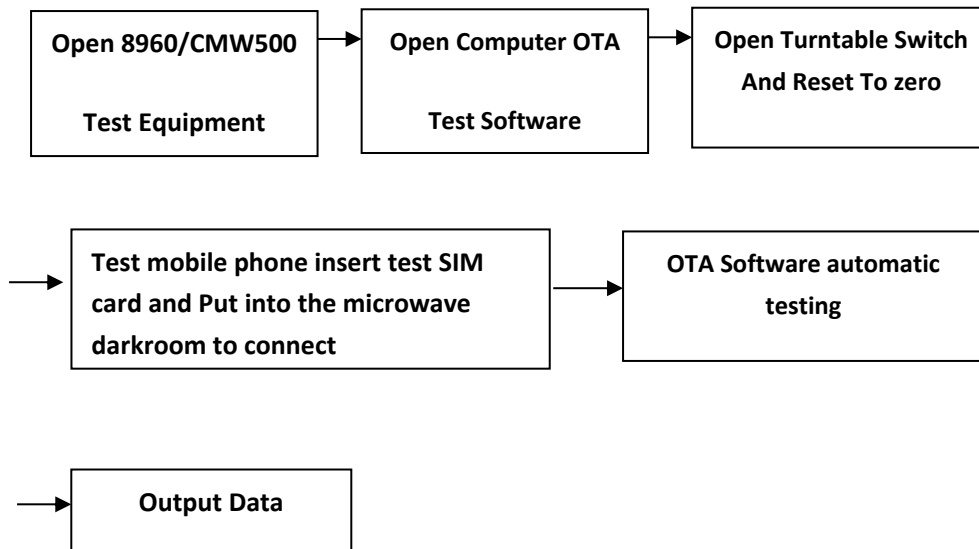
Microwave Anechoic Chamber

## 4.Test Steps

### Passive VSWR/RL Test Steps:



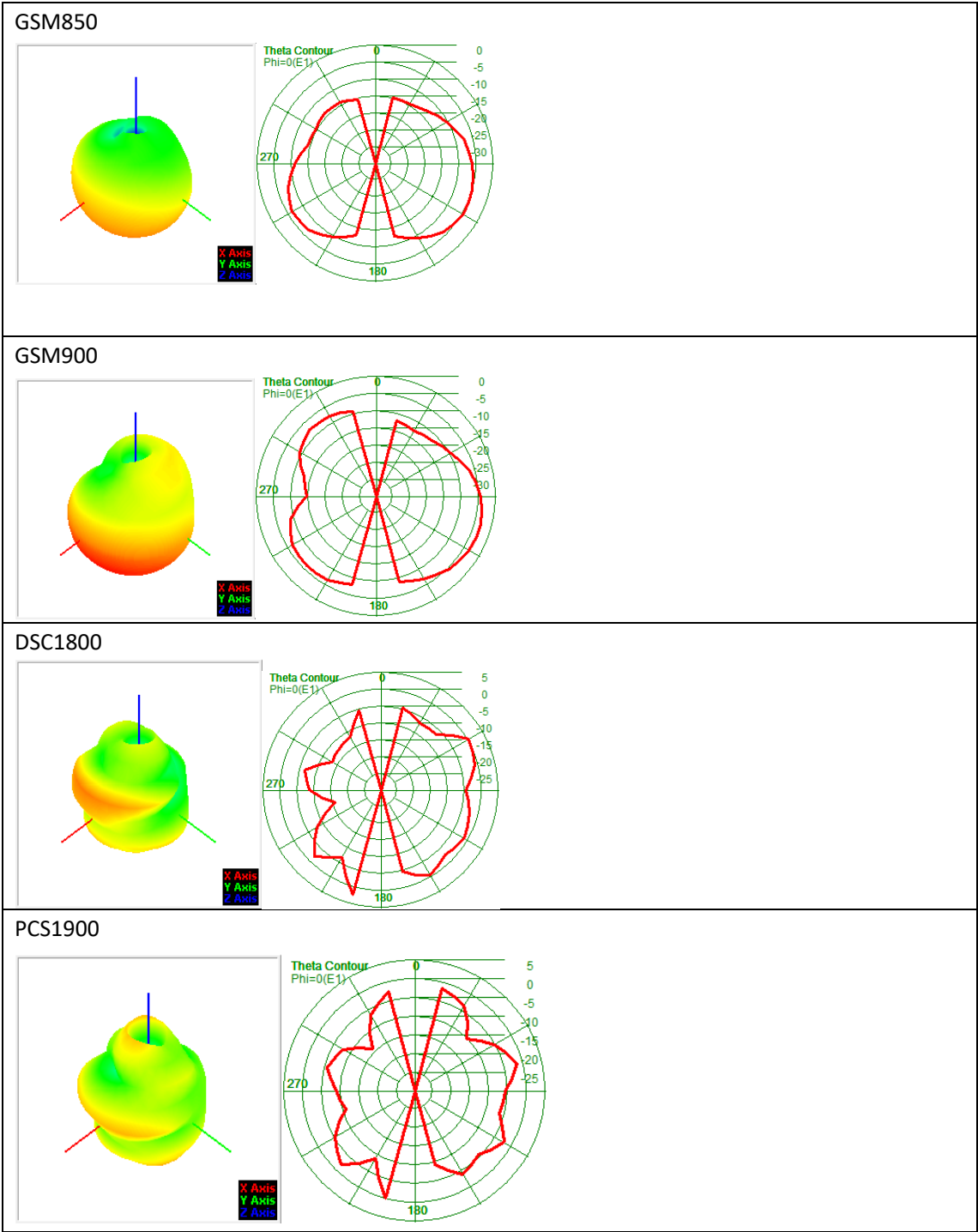
### Active TRP/TIS Test Steps:



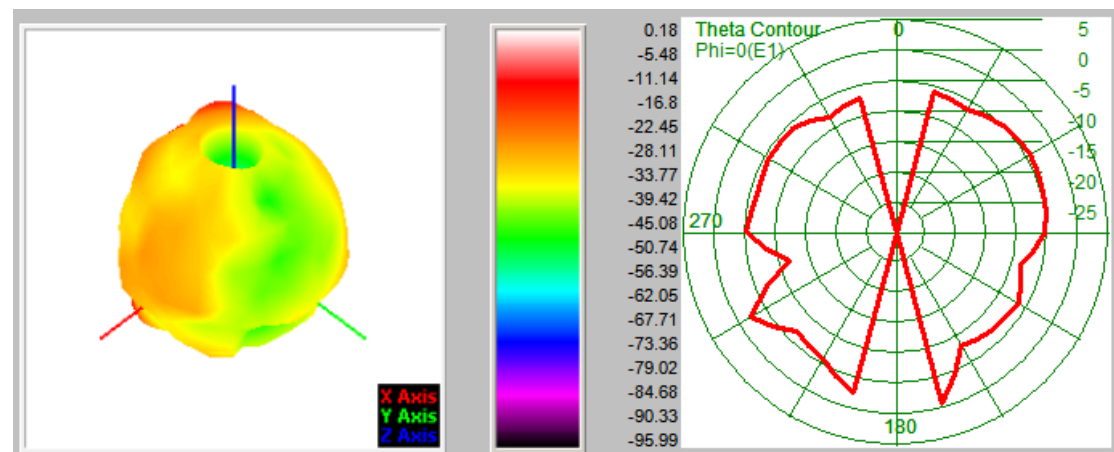
# 5.Antenna Gain

| Frequency | Max Gain | Frequency | Max Gain |
|-----------|----------|-----------|----------|
| 824Mhz    | -0.08    | 2400Mhz   | -3.97    |
| 852Mhz    | 0.17     | 2450Mhz   | -3.47    |
| 880Mhz    | 0.28     | 2500Mhz   | -4.11    |
| 908Mhz    | -0.35    |           |          |
| 936Mhz    | -0.24    |           |          |
| 964Mhz    | 0.09     |           |          |
| 1710Mhz   | -0.78    |           |          |
| 1766Mhz   | -0.46    |           |          |
| 1822Mhz   | -0.17    |           |          |
| 1878Mhz   | -0.34    |           |          |
| 1934Mhz   | -0.67    |           |          |
| 1990Mhz   | -0.90    |           |          |

# 6.3D Lobe Diagram



BT



## 8.Introduction to Antenna Information

|                                 |                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------|
| F22428TCL                       |                                                                                                                |
| Antenna type and frequency band | MAIN ANTENNA( <u>PIFA</u> ):2G<br><br>DIV ANTENNA( <u>PIFA</u> ):<br><br>GPS/WIFI/BT ANTENNA( <u>PIFA</u> ):BT |
| Antenna materia                 | stainless steel                                                                                                |