



天线承认书

Parts Approval Sheet

|              |                   |         |            |
|--------------|-------------------|---------|------------|
| Customer     |                   | Project | ST-R528-NA |
| Band         | WIFI              | Color   | BLACK      |
| PN           | X2601             | Version | V0         |
| model number | X1689-90L-WIFI-V2 |         |            |

DATE: 2024/10/23

| R&D                 |            |              | QC         |
|---------------------|------------|--------------|------------|
| Issued by           | Checked by | Confirmed by | Checked by |
|                     |            |              |            |
| Customer<br>Confirm |            |              |            |

Environmental requirements: ☒ ROHS

☐ REACH

## 1.Summary

This report summarizes the electrical results of the our antenna to support the project ST-R528-NA. The test fixture is made for further testing, which is show below:



## 2.General Description

### 2.1Antenna Components/Part revisions

The antenna part number is T: A

### 2.2Definitions

VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total isotropic sensitivity

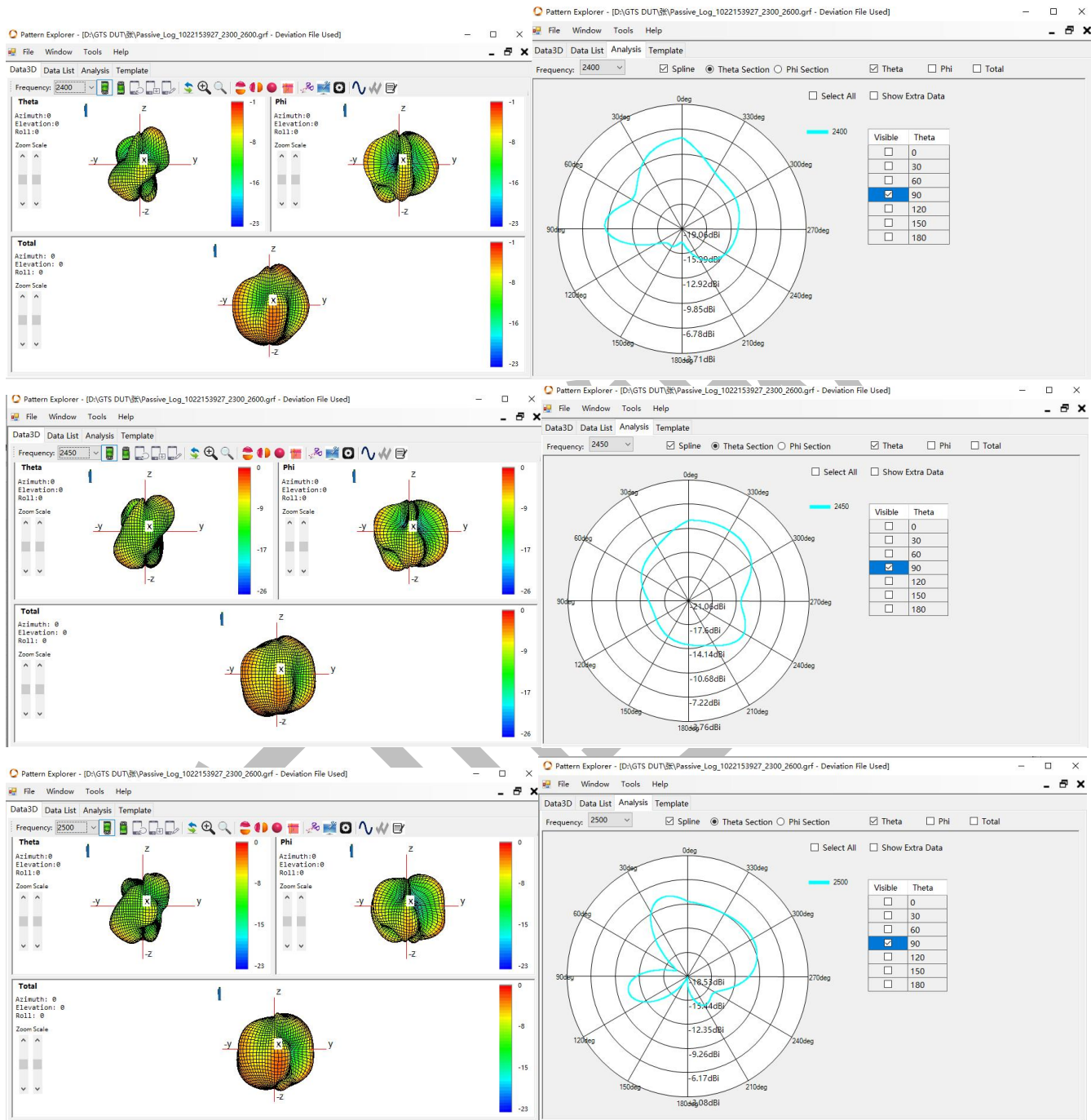
Antenna Type: FPC Antenna

### 3.Electrical Performance

#### 3.1 Gain&Efficiency

|      |       |       |
|------|-------|-------|
| 2300 | -2.25 | 23.28 |
| 2310 | -3    | 22.6  |
| 2320 | -1.97 | 23.16 |
| 2330 | -1.09 | 24.36 |
| 2340 | -1.93 | 24.46 |
| 2350 | -2.04 | 24.95 |
| 2360 | -1.3  | 26.6  |
| 2370 | -1.32 | 27.19 |
| 2380 | -2.15 | 26.36 |
| 2390 | -1.59 | 28.36 |
| 2400 | -1.13 | 27.71 |
| 2410 | -1.44 | 28.24 |
| 2420 | -1.33 | 27.77 |
| 2430 | -0.76 | 28.8  |
| 2440 | -0.87 | 29.24 |
| 2450 | -0.92 | 29.52 |
| 2460 | -0.61 | 31.91 |
| 2470 | -0.86 | 32.69 |
| 2480 | -0.53 | 33.36 |
| 2490 | -0.24 | 32.77 |
| 2500 | -0.28 | 33.57 |
| 2510 | 0.13  | 34.98 |
| 2520 | -0.78 | 33.74 |
| 2530 | 0.14  | 36.36 |
| 2540 | -0.53 | 35.16 |
| 2550 | -0.5  | 35.98 |
| 2560 | -0.55 | 35.3  |
| 2570 | -0.1  | 35.1  |
| 2580 | -0.71 | 36.59 |
| 2590 | -0.38 | 36.85 |
| 2600 | -0.55 | 35.82 |

## 3.2 3D Radiation Pattern



## 4. Antenna Engineer drawing

