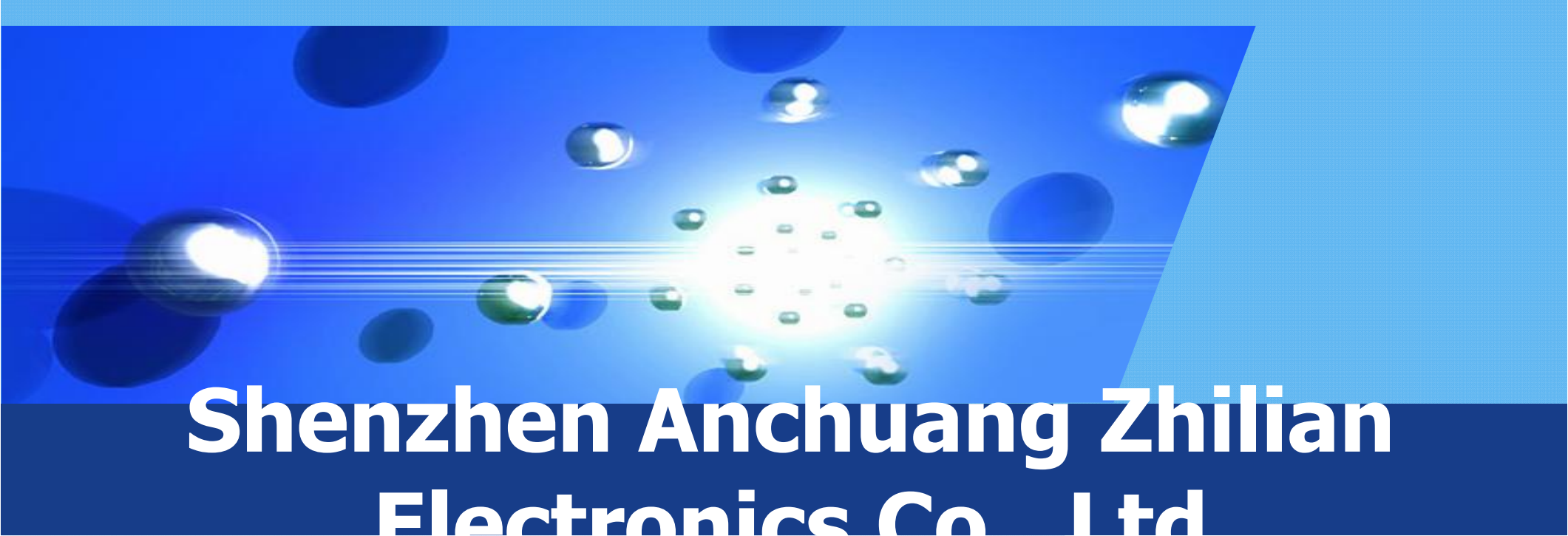




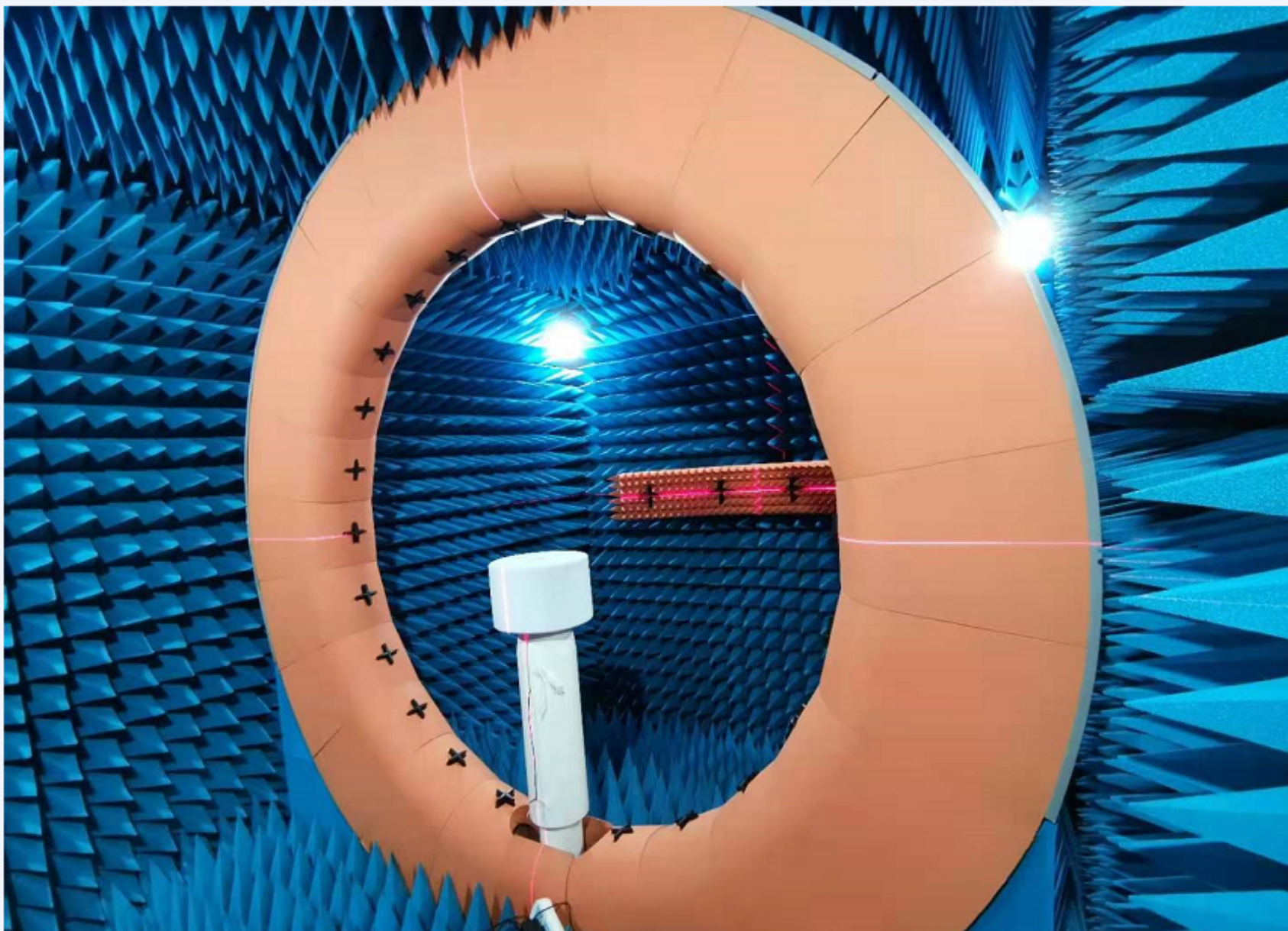
# Shenzhen Anchuang Zhilian Electronics Co., Ltd

Antenna debugging report

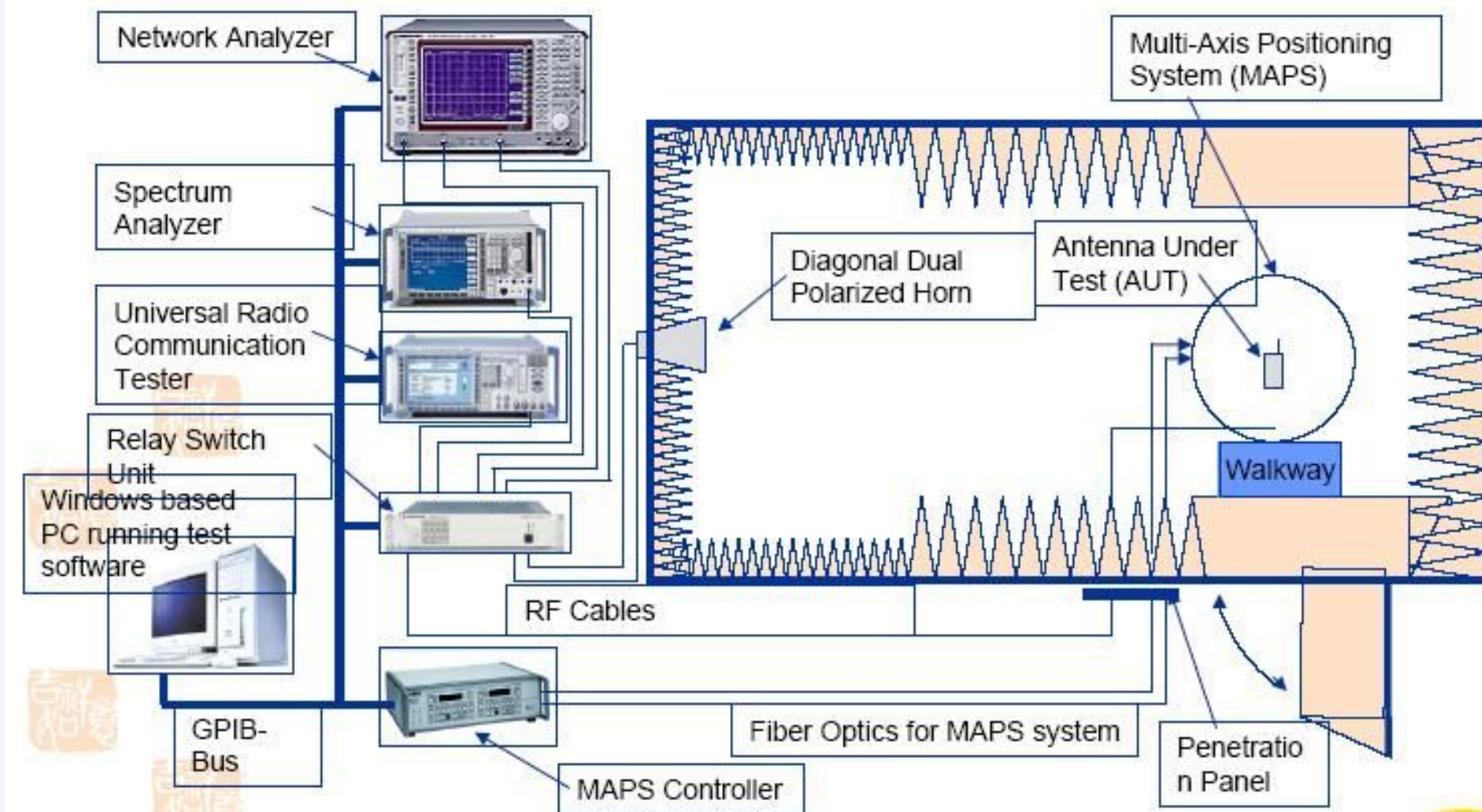
# project information

|                                   |                                                                |                              |    |      |             |
|-----------------------------------|----------------------------------------------------------------|------------------------------|----|------|-------------|
| custom:                           | Jarvis                                                         | Project -<br>Motherboa<br>rd | F8 | date | 2023. 8. 17 |
| Frequency<br>band                 | 2400-2500 5100-5800                                            |                              |    |      |             |
| Antenna<br>Structure              | FPC+black 0.81 second-generation terminal 70MM black<br>bottom |                              |    |      |             |
| RF<br>Engineeri<br>ng             | Yi Longhui                                                     |                              |    |      |             |
| Structura<br>l<br>engineeri<br>ng | Liu Gong                                                       |                              |    |      |             |
| Report<br>version                 | V1. 0                                                          |                              |    |      |             |

# SATIMOdarkroom

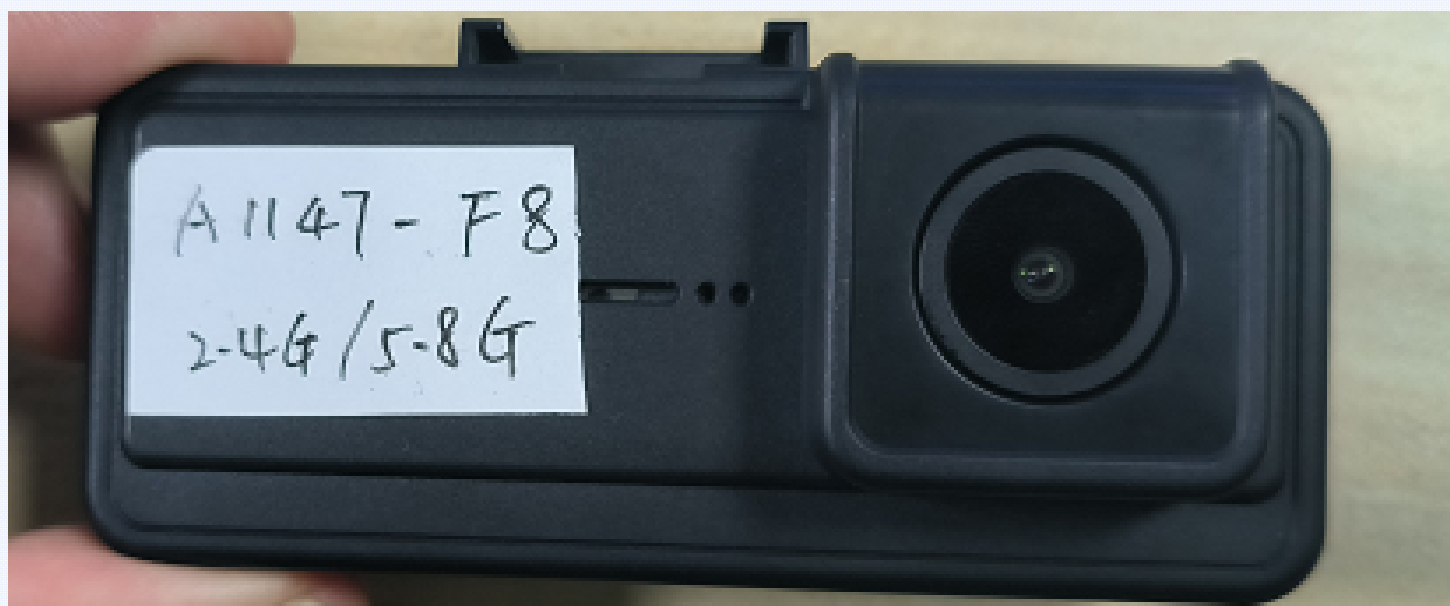


# test system

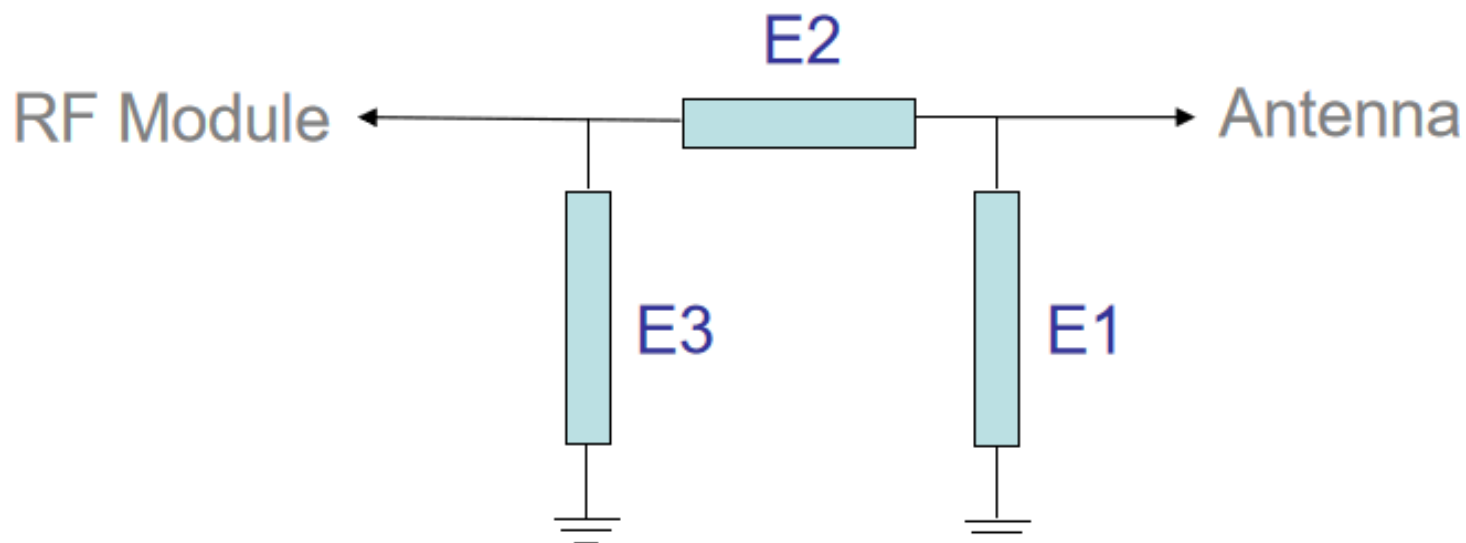


| testing environment  |                            |
|----------------------|----------------------------|
| testing environment  | XH-IOE MPS2440 Test System |
| ambient temperature  | 23°C                       |
| ambient humidity     | 52%                        |
| Ambient air pressure | 101KPa                     |

- 1、 product drawing
- 2、 matching circuit
- 3、 test data



# matching circuit



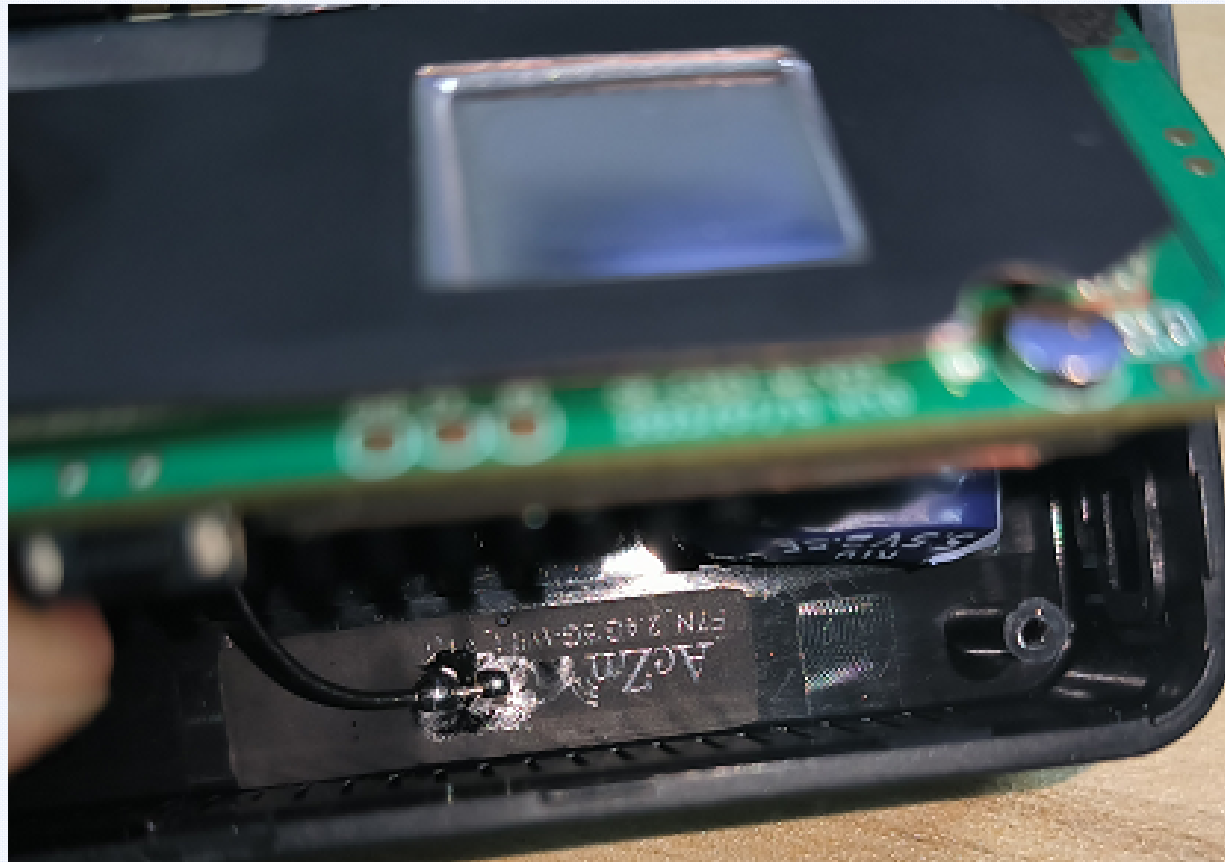
| Element                               | Value |
|---------------------------------------|-------|
| E1(0402)                              |       |
| E2(0402)                              |       |
| E3(0402)                              |       |
| No changes made to the original match |       |

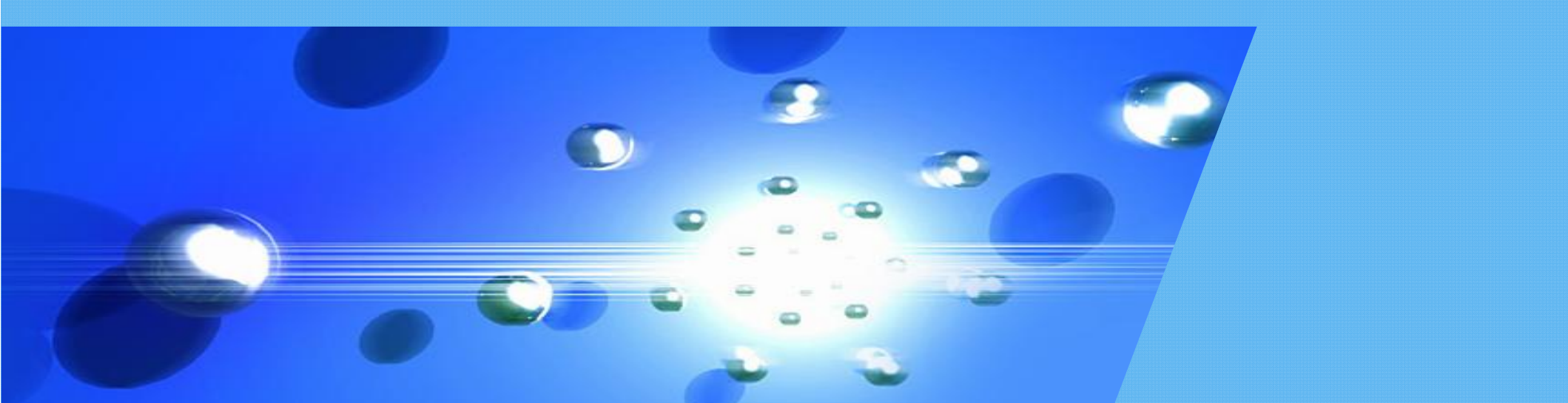
# Passive test data

| Frequency / MHz | Efficiency / dB | Efficiency / % | Gain/ dBi |
|-----------------|-----------------|----------------|-----------|
| 2400            | -4.68           | 34.04          | 0.56      |
| 2410            | -4.49           | 35.56          | 0.42      |
| 2420            | -4.51           | 35.4           | 0.74      |
| 2430            | -4.6            | 34.67          | 0.38      |
| 2440            | -4.33           | 36.9           | 0.73      |
| 2450            | -4.45           | 35.89          | 0.59      |
| 2460            | -4.67           | 34.12          | 0.16      |
| 2470            | -4.53           | 35.24          | 0.4       |
| 2480            | -4.6            | 34.67          | 0.06      |
| 2490            | -4.83           | 32.89          | -0.04     |
| 2500            | -4.52           | 35.32          | 0.04      |

|      |       |       |      |
|------|-------|-------|------|
| 5100 | -2.87 | 51.64 | 4.18 |
| 5150 | -3.28 | 46.99 | 3.72 |
| 5200 | -3.2  | 47.86 | 4.1  |
| 5250 | -3.53 | 44.36 | 3.91 |
| 5300 | -3.37 | 46.03 | 4.41 |
| 5350 | -3.29 | 46.88 | 4.55 |
| 5400 | -3.6  | 43.65 | 4    |
| 5450 | -3.31 | 46.67 | 4.07 |
| 5500 | -3.33 | 46.45 | 3.95 |
| 5550 | -3.43 | 45.39 | 3.87 |
| 5600 | -3.27 | 47.1  | 3.79 |
| 5650 | -3.49 | 44.77 | 3.36 |
| 5700 | -3.43 | 45.39 | 3.28 |
| 5750 | -3.5  | 44.67 | 2.89 |
| 5800 | -3.82 | 41.5  | 2.41 |

# Assembly drawing





Thank You !

