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- 1: Antenna model: Inverted F antenna (IFA)
- 2: Antenna type: PCB antenna
- 3: Gain: 1.5dBi / 3.5dBi
- 4: The antenna is shown in Figure 1
- 5: Model: N012102-03

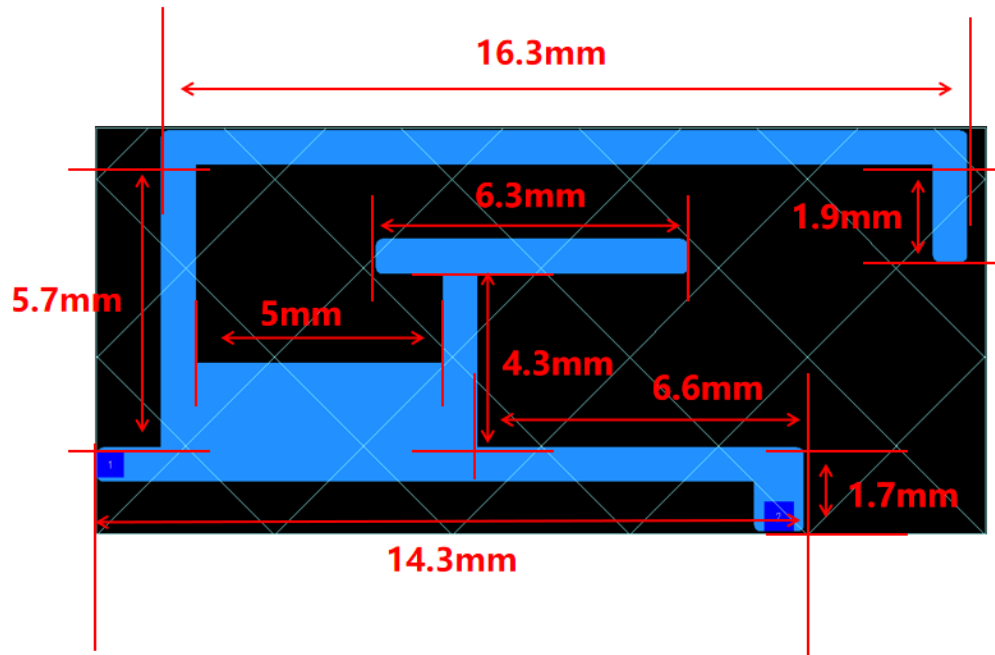
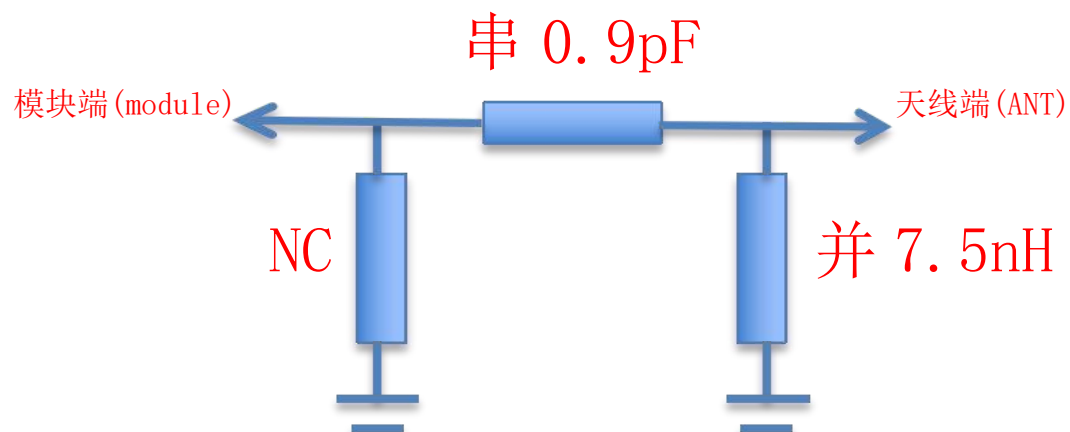


Figure 1

- 6: Antenna Matching Circuit Diagram



7: Antenna Efficiency and Gain

|         |               |             |               |
|---------|---------------|-------------|---------------|
| Antenna | Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|         | 2400          | 44.48       | 0.51          |
|         | 2410          | 46.28       | 0.90          |
|         | 2420          | 50.64       | 1.45          |
|         | 2430          | 51.18       | 1.60          |
|         | 2440          | 53.75       | 1.57          |
|         | 2450          | 54.91       | 1.87          |
|         | 2460          | 54.48       | 1.84          |
|         | 2470          | 53.23       | 1.26          |
|         | 2480          | 52.12       | 1.55          |
|         | 2490          | 50.97       | 1.40          |
|         | 2500          | 49.28       | 1.17          |
|         | 5200          | 41.21       | 2.42          |
|         | 5250          | 40.58       | 2.02          |
|         | 5300          | 46.20       | 3.26          |
|         | 5350          | 44.94       | 3.05          |
|         | 5400          | 46.65       | 3.09          |
|         | 5450          | 43.44       | 3.08          |
|         | 5500          | 47.26       | 4.03          |
|         | 5550          | 49.06       | 4.09          |
|         | 5600          | 45.16       | 3.39          |
|         | 5650          | 44.46       | 3.04          |
|         | 5700          | 41.57       | 3.46          |
|         | 5750          | 40.63       | 3.63          |
|         | 5800          | 42.10       | 2.90          |

8: The antenna performance is shown in Figure 2. The working frequency band covers the entire 2.4G/5G ISM frequency band.

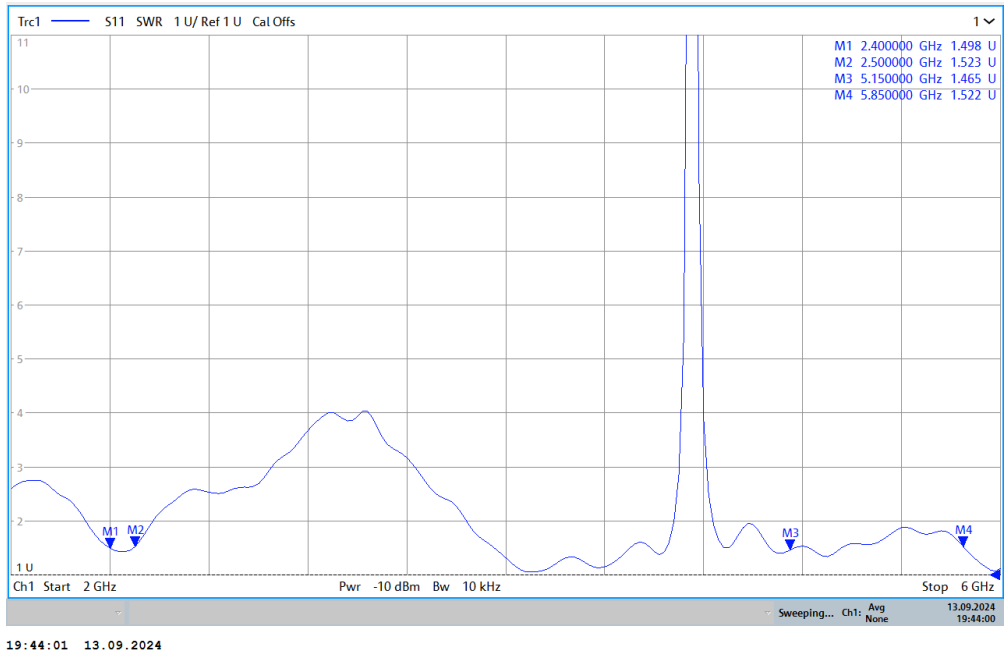
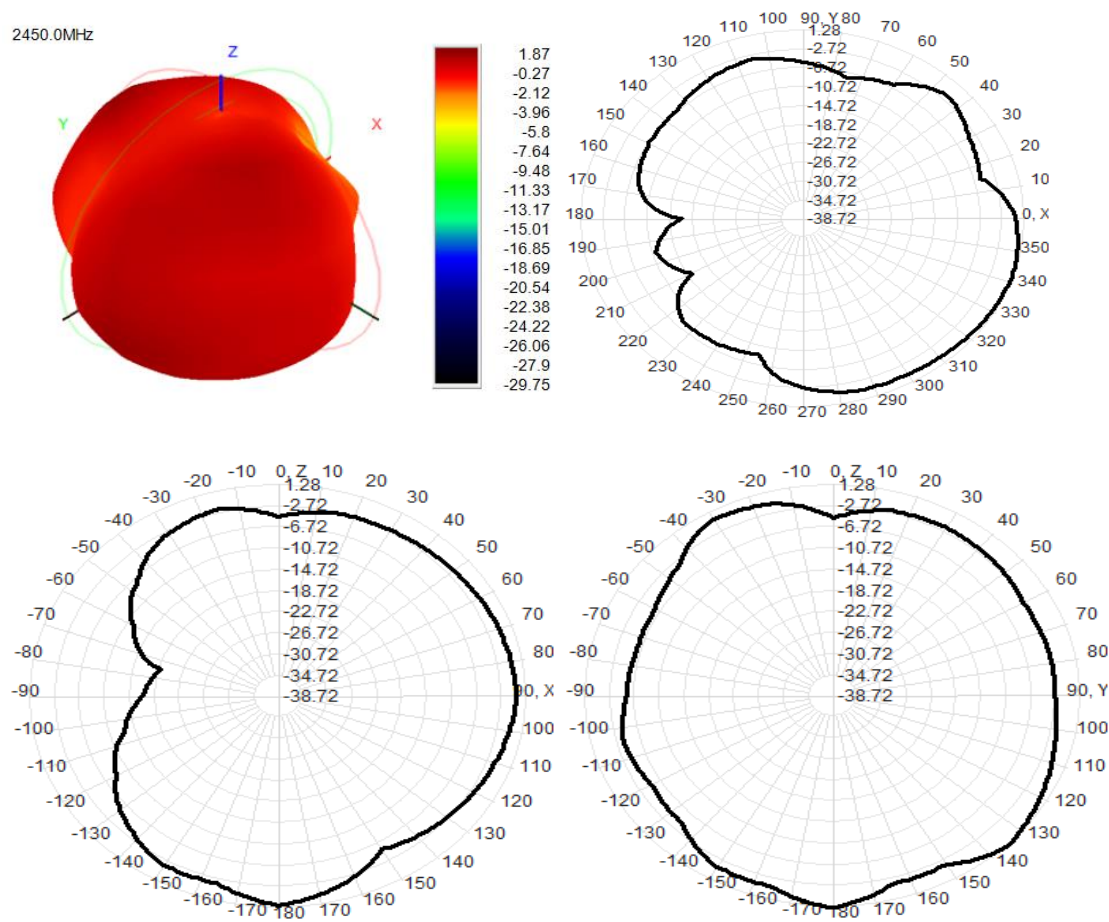


Figure 2

9: 3D antenna gains are shown in Figures 3:



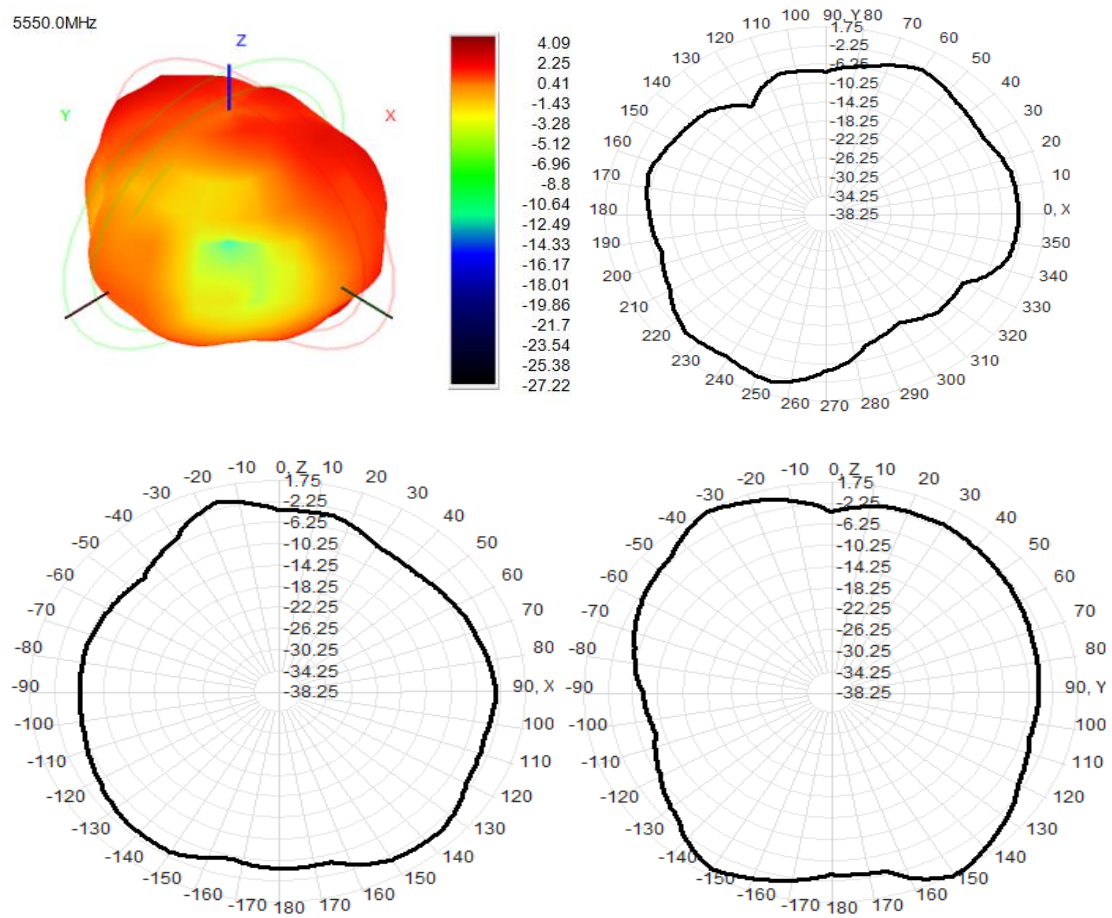


Figure 3