# ANWEI commnuication Equipment Co.,Ltd

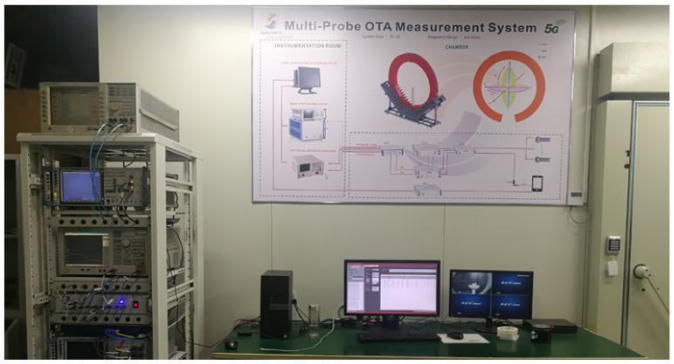
**APPROVAL SHEET**

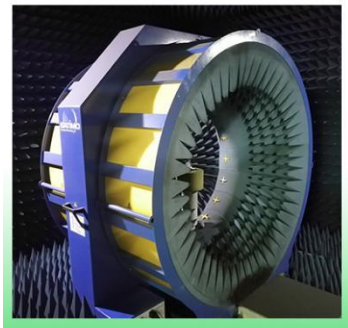
| | | | |
|---|---|---|---|
| Customer | Ming Yue | Specs | F12 |
| Part Number | | Frequency Band | 2G:GSM850/900/1800/1900<br>3G:WCDMA-B2/5<br>4G:LTE-B2/4/5/12/13/17/66/71 |
| Color | Black | Edition | REV:A0 |
| Salesperson | Mr.Zhang | Design | Zhong Zhi Hui |
| Structure | Qin Yun Lin | Confirm | |
| Date | 2025/05/16 | Signing Date | |

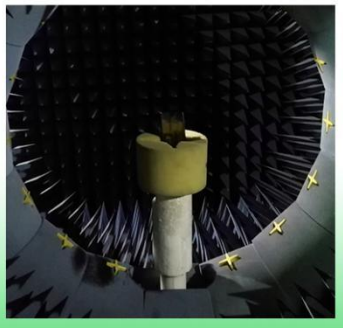
Customer confirmation:

ANT Manufacturers：ANWEI commnuication Equipment Co.,Ltd
Address:2nd Floor, East Block, Building 5, Yifenghua Innovation Industrial Park, Huaning Road, Dalang Street, Longhua District, Shenzhen City, Guangdong Province

# Project development environment





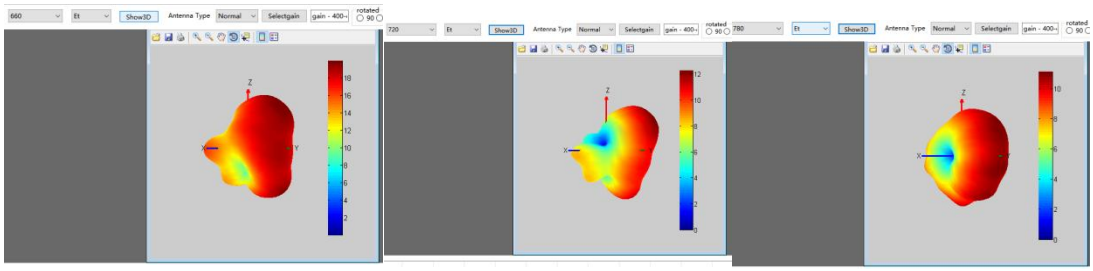
安威无线一直都是您值得信赖且优秀的合作伙伴，我们为您提供全方位一站式的产品以及技术服务!

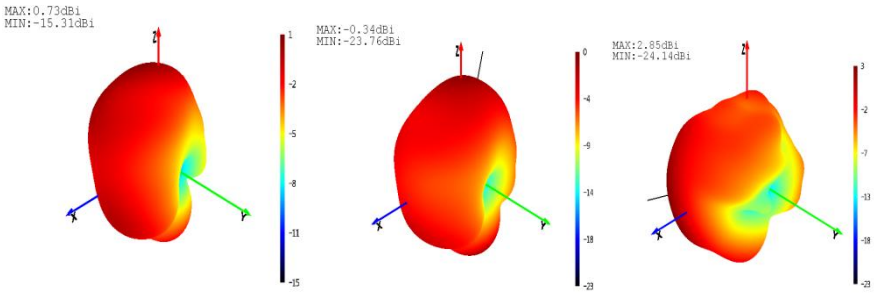
“质量第一，服务至上”是安威一直以来的发展宗旨

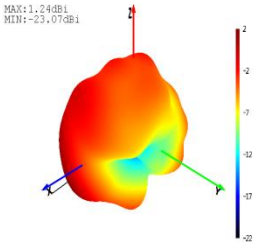
## 天线增益(Antenna gain)

| Standard | Band | Frequency | Gain(dbi) |
|---|---|---|---|
| TDD_LTE | TDD_B2 | 1860 | 1.24 |
| TDD_LTE | TDD_B4 | 1720 | 2.85 |
| TDD_LTE | TDD_B5 | 840 | 0.73 |
| FDD_LTE | FDD_B12 | 720 | -8.62 |
| FDD_LTE | FDD_B13 | 780 | -7.88 |
| FDD_LTE | FDD_B17 | 720 | -8.62 |
| FDD_LTE | FDD_B66 | 1720 | 2.85 |
| FDD_LTE | FDD_B71 | 660 | -8.93 |
| | | | |
| WCDMA | WCDMA_B2 | 1860 | 1.24 |
| WCDMA | WCDMA_B5 | 840 | 0.73 |
| | | | |
| GSM | GSM850 | 840 | 0.73 |
| GSM | GSM900 | 900 | -0.34 |
| GSM | DCS1800 | 1720 | 2.85 |
| GSM | PCS1900 | 1860 | 1.24 |
| | | | |
| 5G WIFI | | 5100 | 0.42 |
| 5G WIFI | | 5300 | 0.87 |
| 5G WIFI | | 5600 | 1.72 |
| 5G WIFI | | 5800 | 2.85 |
| 2.4G WIFI | | 2450 | 3.88 |
| BT | | 2450 | 3.88 |
| GPS | | 1575 | 2.82 |

## Main antenna apple map






## （Main antenna） PolarGraphs/EtotalGraphs

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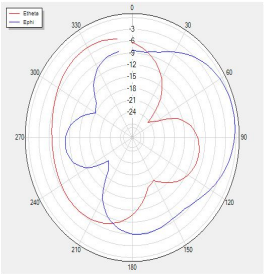
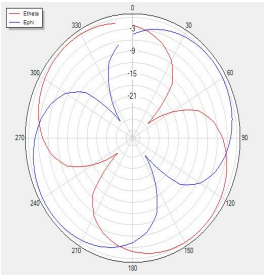
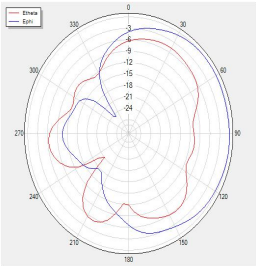


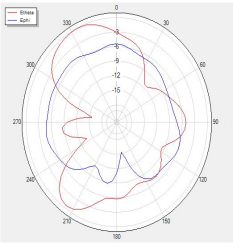
H Theta=0 freq=660MHz



V Phi=90 freq=660MHz



V Phi=0 freq=660MHz



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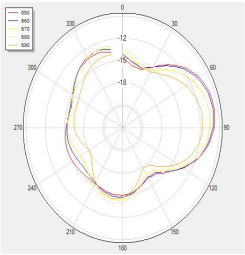

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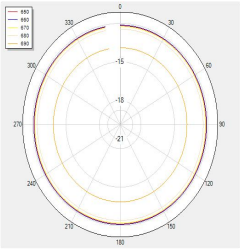

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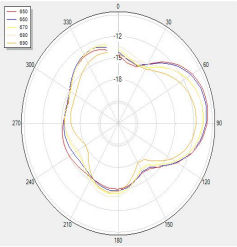

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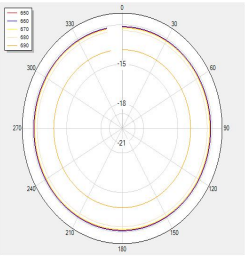

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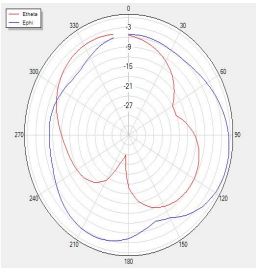
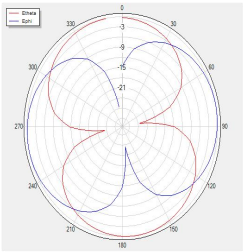
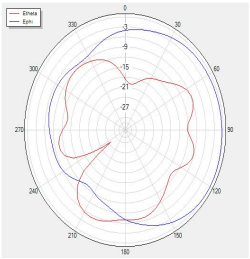


H Theta=0 freq=720MHz



V Phi=90 freq=720MHz



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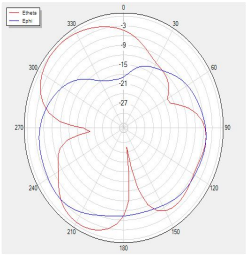

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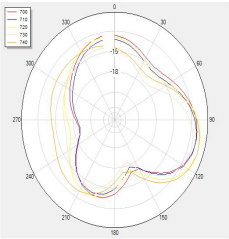

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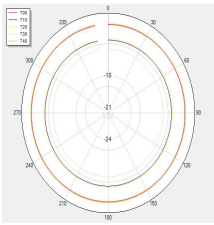
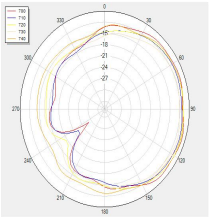


V Phi=90



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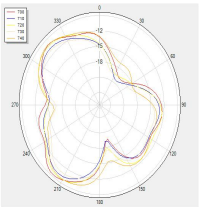
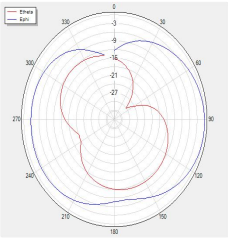
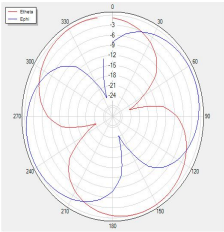


H Theta=90 freq=780MHz



H Theta=0 freq=780MHz



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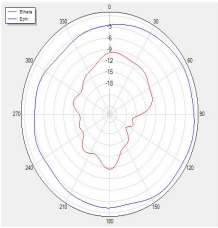

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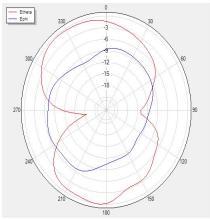

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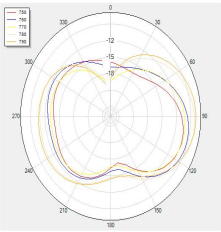

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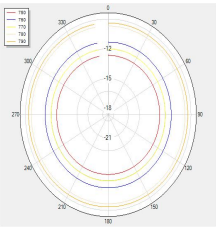

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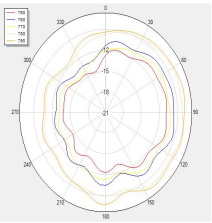

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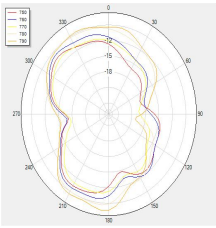
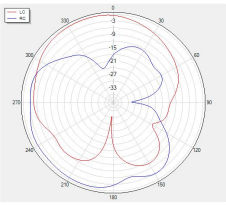
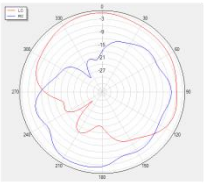


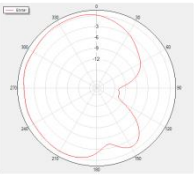
Phi=90 freq=840MHz



Phi=0 freq=840MHz



Phi=90 Freq=840MHz



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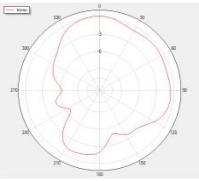
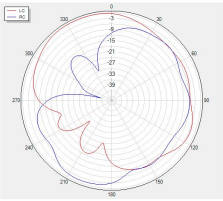
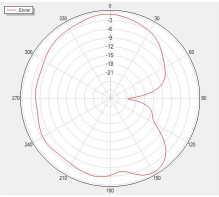


Phi=90 freq=900MHz

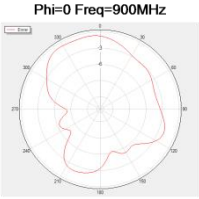
Phi=0 freq=900MHz

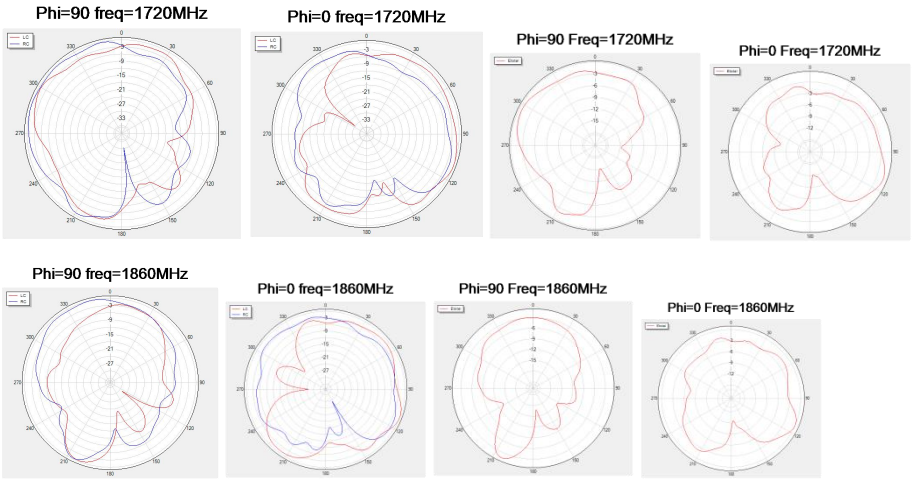


Phi=90 Freq=900MHz

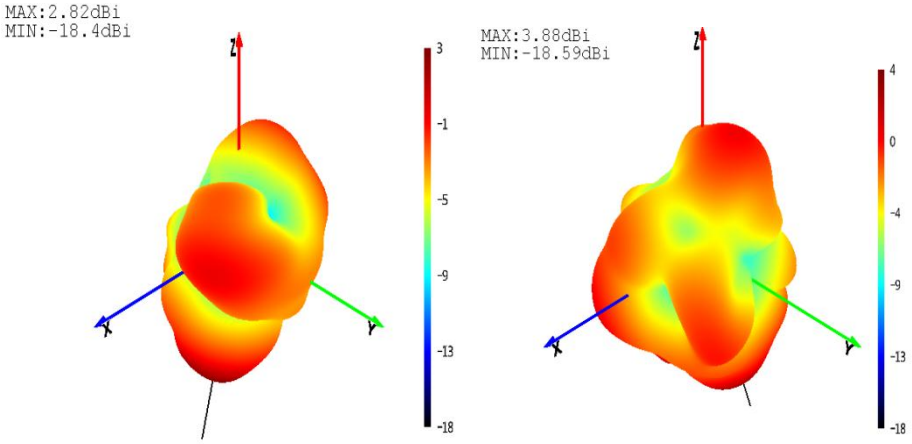


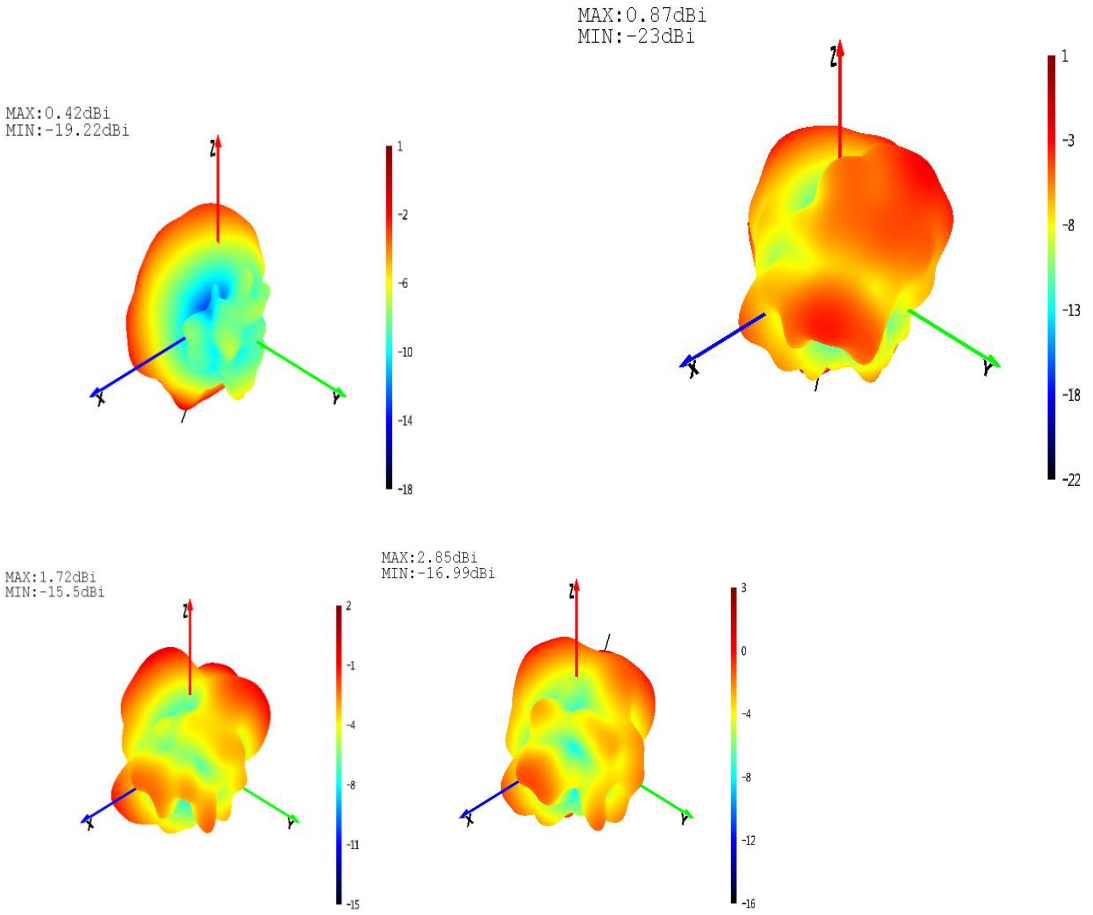
Phi=0 Freq=900MHz





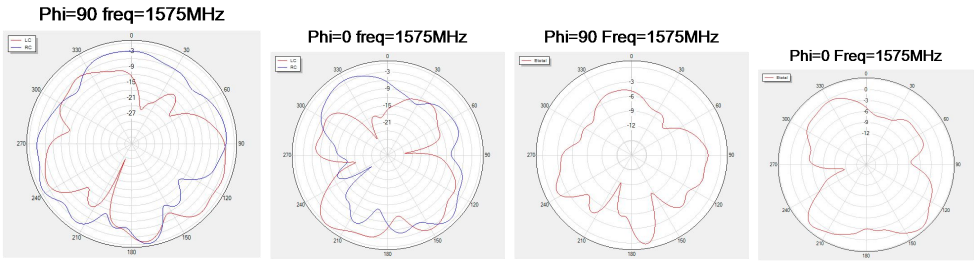

## （GPS antenna）+（2.4G/5G WIFI/BT antenna） apple Map



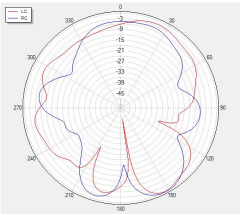



## （ GPS antenna ） + （ 2.4G/5G WIFI/BT antenna ）

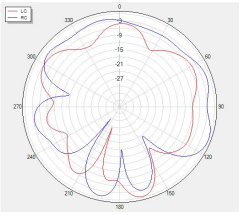
## PolarGraphs/EtotalGraphs



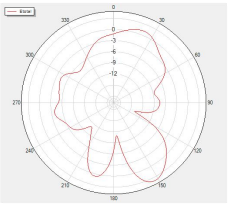
Phi=90 freq=2450MHz



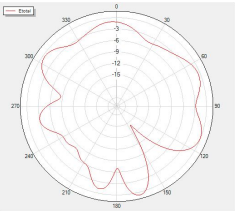
Phi=0 freq=2450MHz



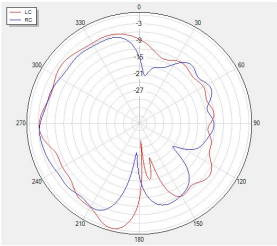
Phi=90 Freq=2450MHz



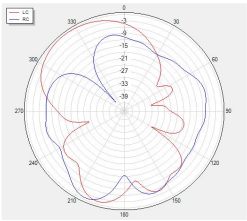
Phi=0 Freq=2450MHz



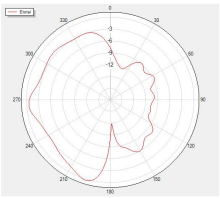
Phi=90 freq=5100MHz



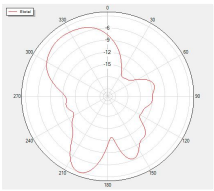
Phi=0 freq=5100MHz



Phi=90 Freq=5100MHz



Phi=0 Freq=5100MHz



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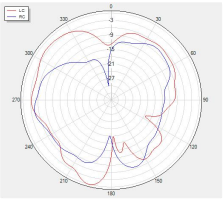

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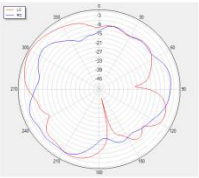

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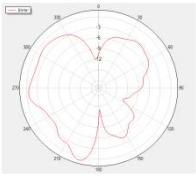

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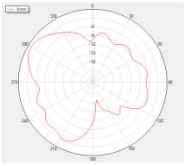

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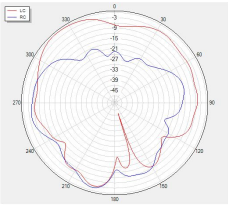

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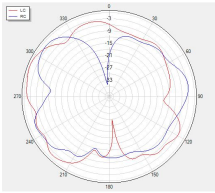
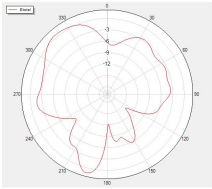
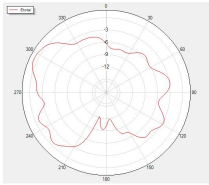


Phi=90 Freq=5600MHz



Phi=0 Freq=5600MHz



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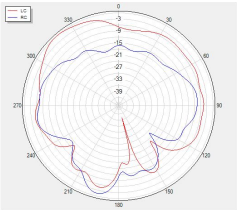

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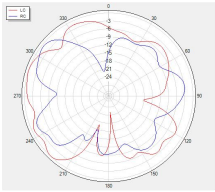

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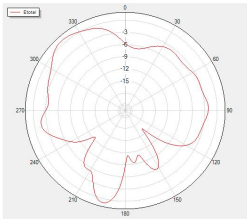

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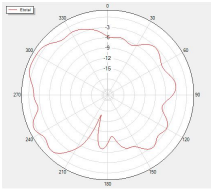
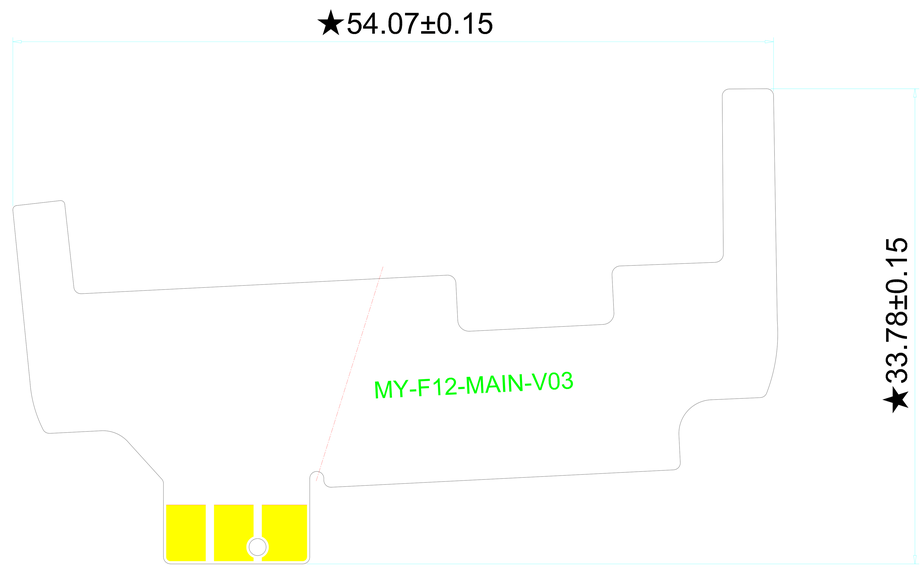
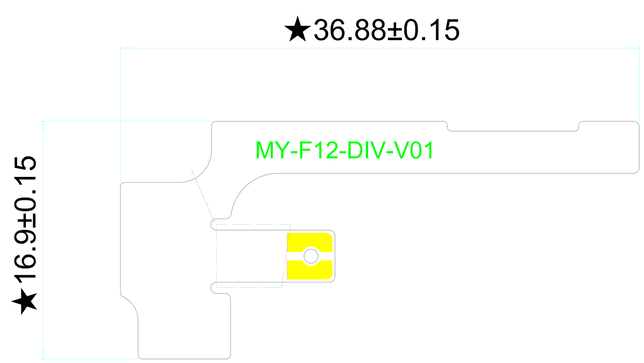
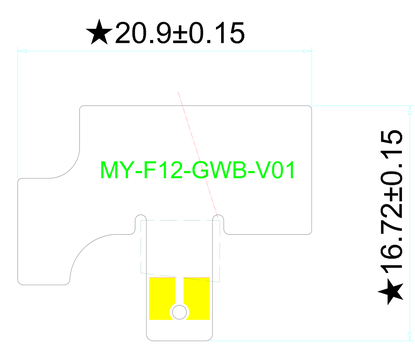





GSM/WCDMA/LTE Antenna




LTE Diversity Antenna




Bluetooth/WIFI Antenna