



# Antenna Part Specification

|                   |                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------|
| Project name:     | CB020                                                                                         |
| Antenna material: | L-BT Antenna                                                                                  |
| Antenna type:     | Monopole                                                                                      |
| Version:          | V1.0                                                                                          |
| Date:             | 2025.03.10                                                                                    |
| Supplier:         | Shenzhen Cicent Communication Technology Co., Ltd.                                            |
| Supplier Address: | 505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china |
| PN:               | 103BK3E2000                                                                                   |



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| Change record            |                   |                 |         |
|--------------------------|-------------------|-----------------|---------|
| Compile /<br>change date | Reason for change | Changed content | Version |
| 2025.03.10               | First edition     | First edition   | V1.0    |
|                          |                   |                 |         |
|                          |                   |                 |         |

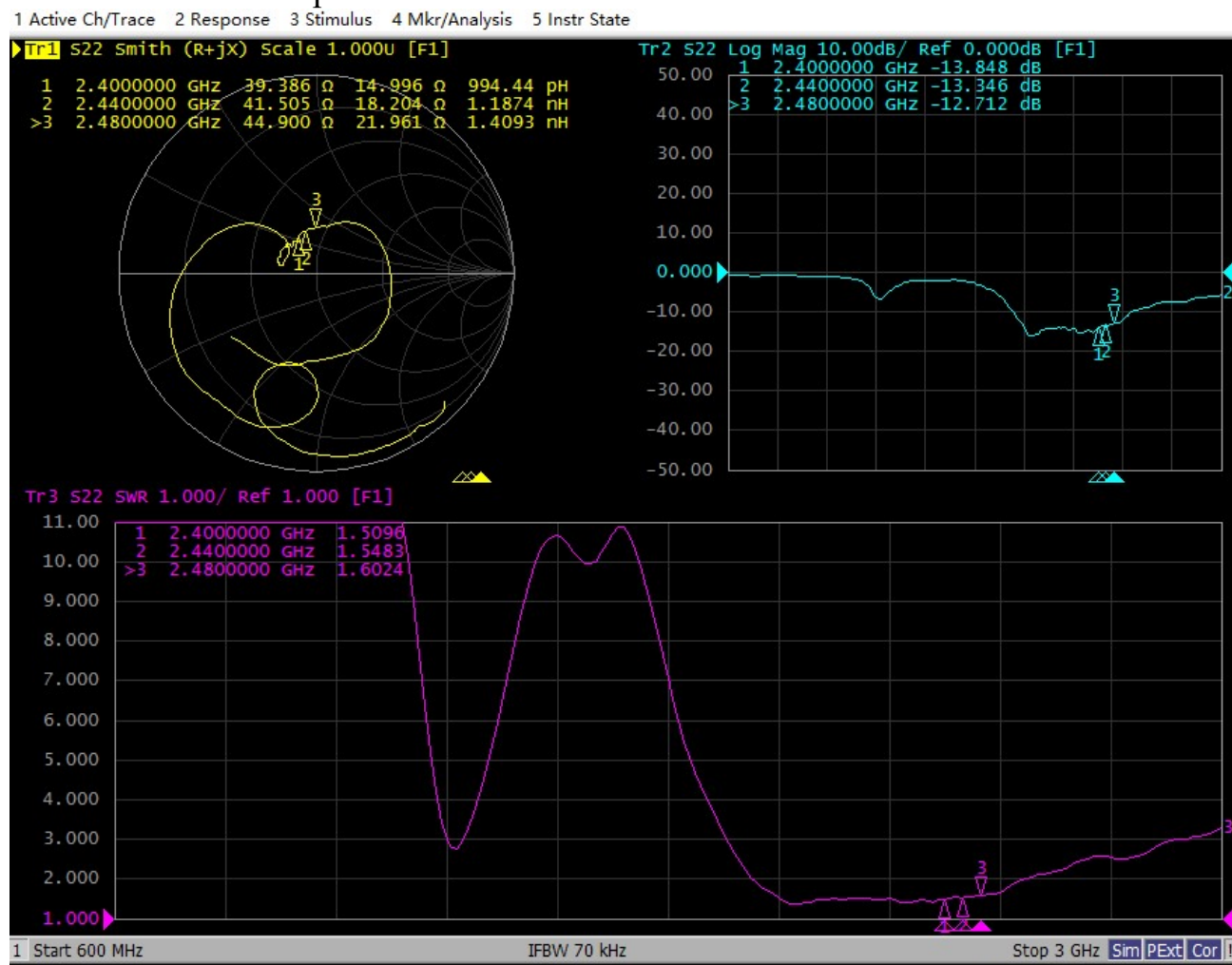


## I: The report of passive data



Angilent E5071C

### Left ear antenna S11 parameters

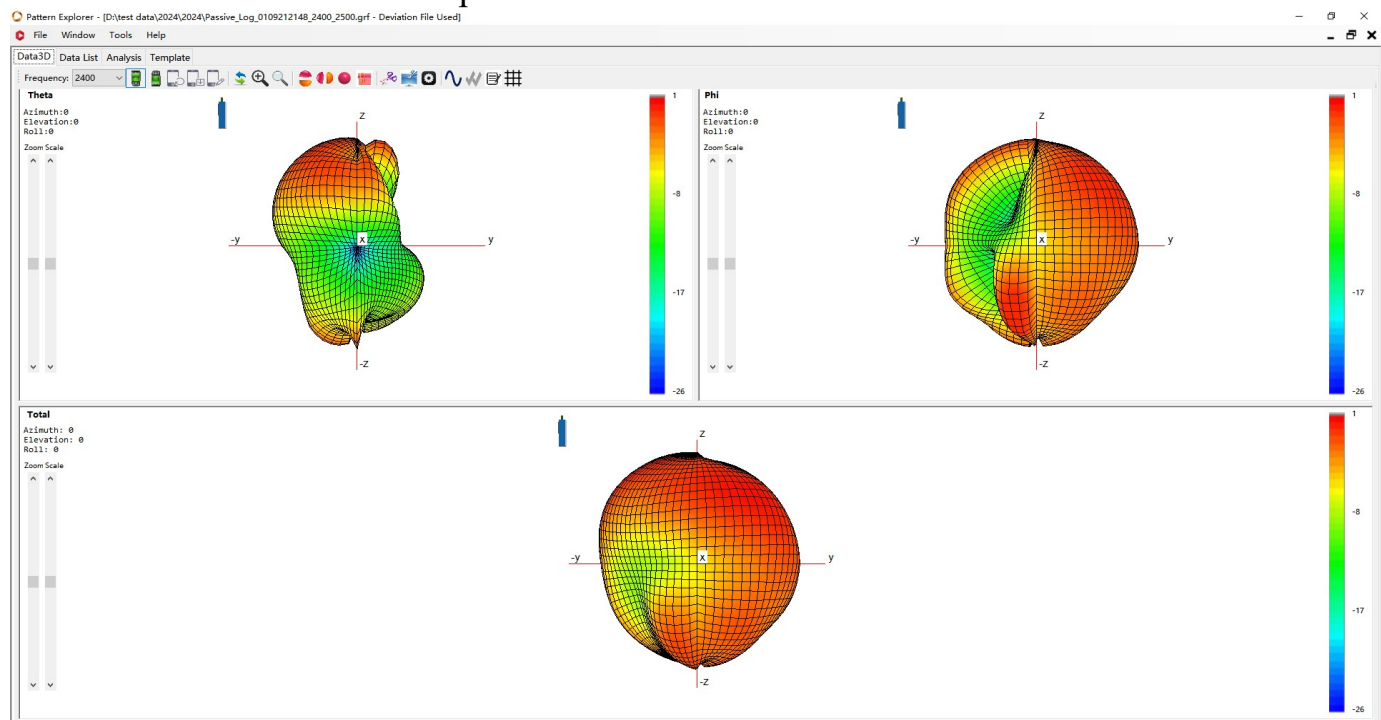




Efficiency:

| L-2400-2480MHz    |               |                  |            |
|-------------------|---------------|------------------|------------|
| Frequency ( MHz ) | Efficiency(%) | Efficiency (dB ) | Gain (dBi) |
| 2400              | 47.8%         | -3.2             | 0.7        |
| 2410              | 47.6%         | -3.2             | 0.6        |
| 2420              | 46.9%         | -3.3             | 0.6        |
| 2430              | 44.4%         | -3.5             | 0.3        |
| 2440              | 41.5%         | -3.8             | 0.0        |
| 2450              | 41.0%         | -3.9             | -0.1       |
| 2460              | 38.6%         | -4.1             | -0.4       |
| 2470              | 39.5%         | -4.0             | -0.4       |
| 2480              | 40.1%         | -4.0             | -0.4       |
| Average value     | 43.0%         | -3.7             | 0.1        |

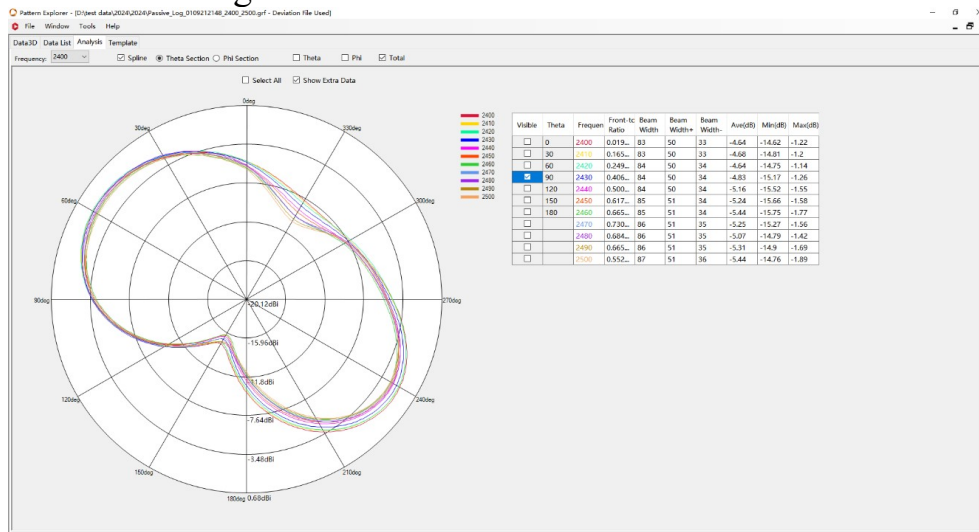
Left ear 3D antenna radiation pattern:



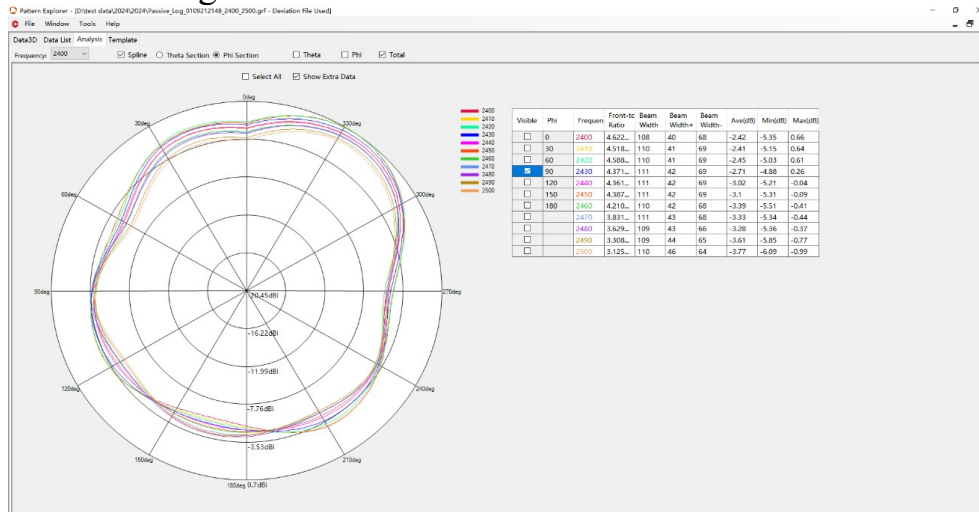


## Left ear 2D antenna radiation pattern:

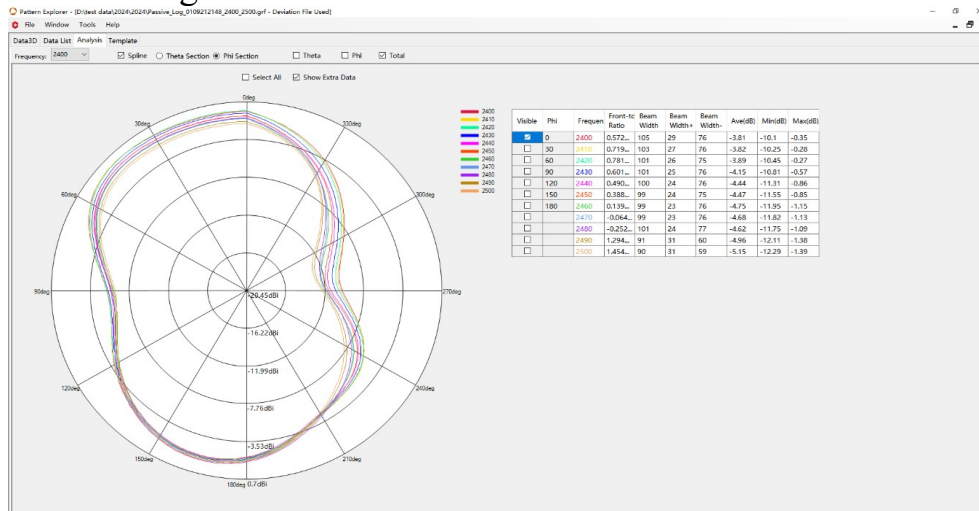
Theta=90.00deg



## Phi=90.00deg



## Phi=0.00deg





II: 3D Active test report of antenna

| BT-1# | Channel | TRP (dBm) | TIS (dBm) |
|-------|---------|-----------|-----------|
| L     | CH 0    | 4.9       | -89.8     |
|       | CH 39   | 5.3       | -90.3     |
|       | CH 78   | 5.0       | -90.1     |

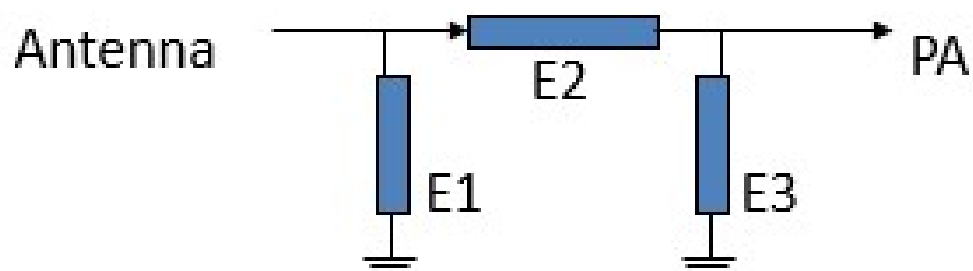


OTA Standard Chambe



### III: Matching circuit

Left ear matching circuit:



| 图示编号 | 匹配值 |
|------|-----|
| E1   | NA  |
| E2   | 0Ω  |
| E3   | NA  |



IV: Structure file

