



# Antenna Part Specification

|                    |                      |
|--------------------|----------------------|
| Project name:      | Tune Buds            |
| Material category: | FPC                  |
| Antenna type:      | Single stage antenna |
| Version:           | V1.0                 |
| Date:              | 2022. 11. 08         |



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| Change record            |                   |                 |         |
|--------------------------|-------------------|-----------------|---------|
| Compile /<br>change date | Reason for change | Changed content | Version |
|                          |                   |                 |         |
|                          |                   |                 |         |
|                          |                   |                 |         |



I: Antenna location

please refer to the internal photo.

The antenna is on the inner surface of the headphone cover

II: Manufacturer Information

①Name of manufacturer

Shenzhen Cicent Communication Technology Co., Ltd.

②Address

505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china

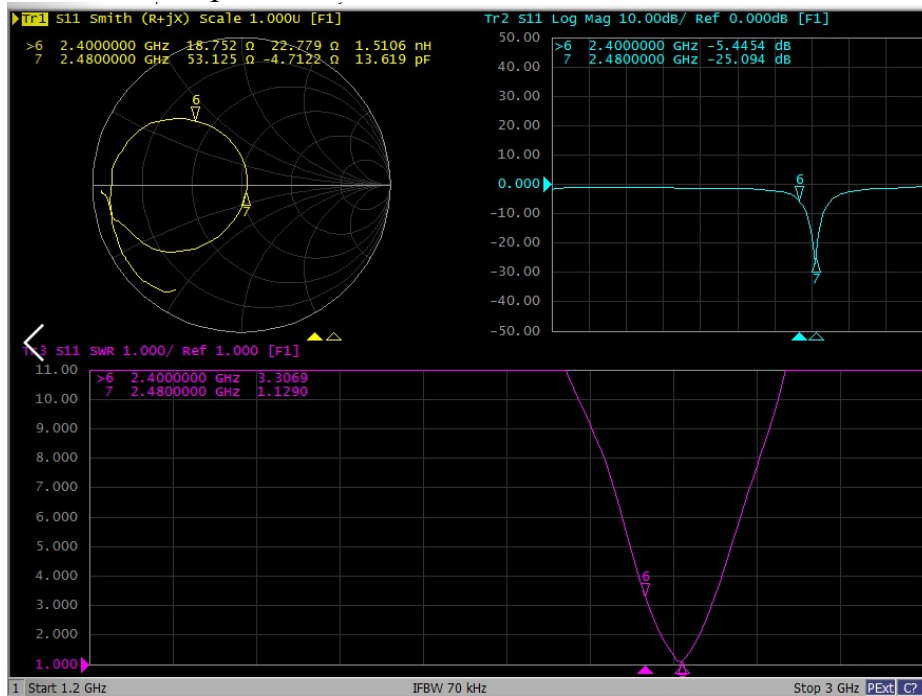


### III: The report of passive data



Angilent E5071C

### Antenna S11 parameter test situation



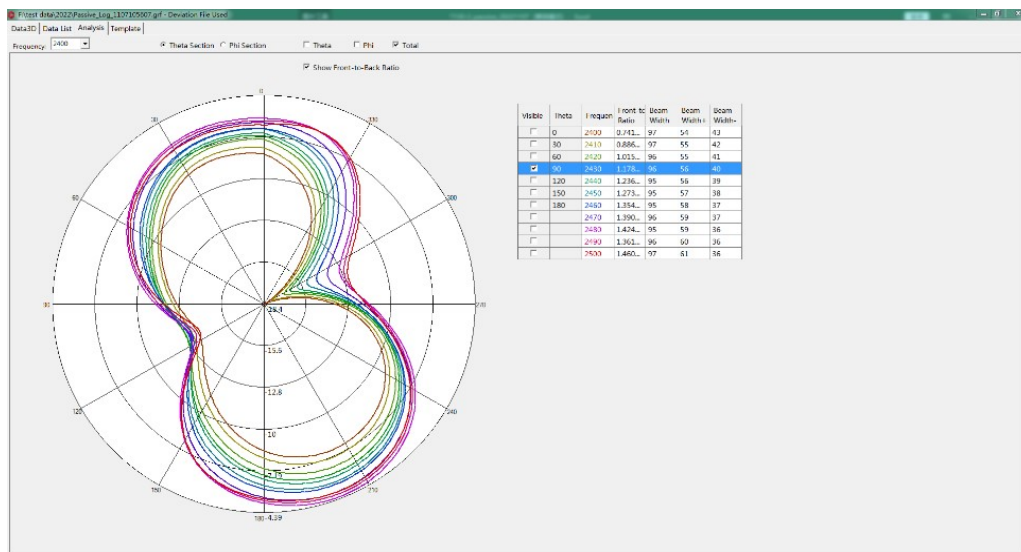
### Efficiency:

| 2400-2480 MHz   |            |                  |            |
|-----------------|------------|------------------|------------|
| Frequency (MHz) | Gain (dBi) | Efficiency (dB ) | Efficiency |
| 2400            | -7.3       | -9.6             | 11.0       |
| 2410            | -6.8       | -9.1             | 12.4       |
| 2420            | -6.3       | -8.5             | 14.0       |
| 2430            | -5.9       | -8.2             | 15.0       |
| 2440            | -5.7       | -8.0             | 16.0       |
| 2450            | -5.3       | -7.6             | 17.5       |
| 2460            | -5.1       | -7.4             | 18.2       |
| 2470            | -4.6       | -7.0             | 20.1       |
| 2480            | -4.4       | -6.7             | 21.6       |
| Average value   | -5.72      | -8.00            | 16.2       |

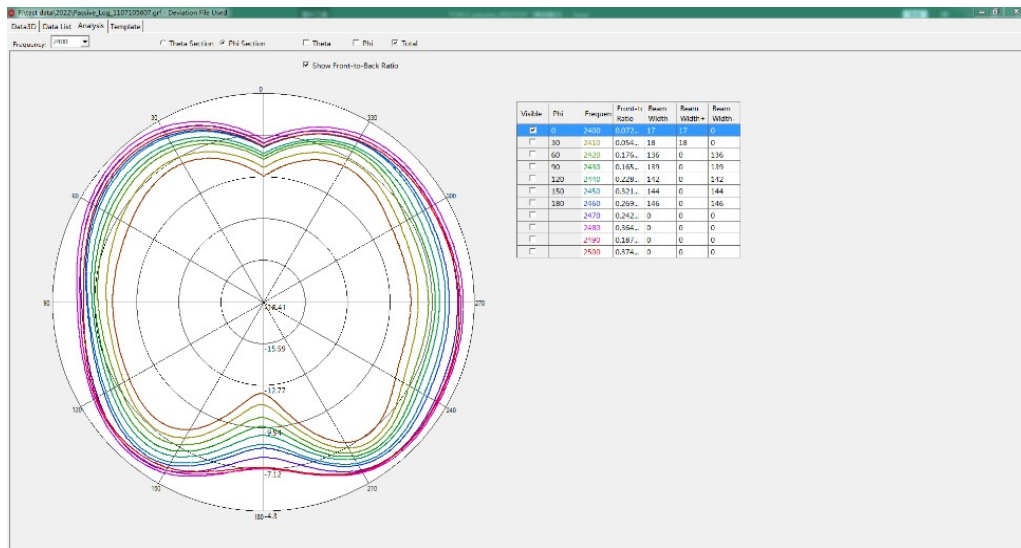


## Antenna radiation pattern:

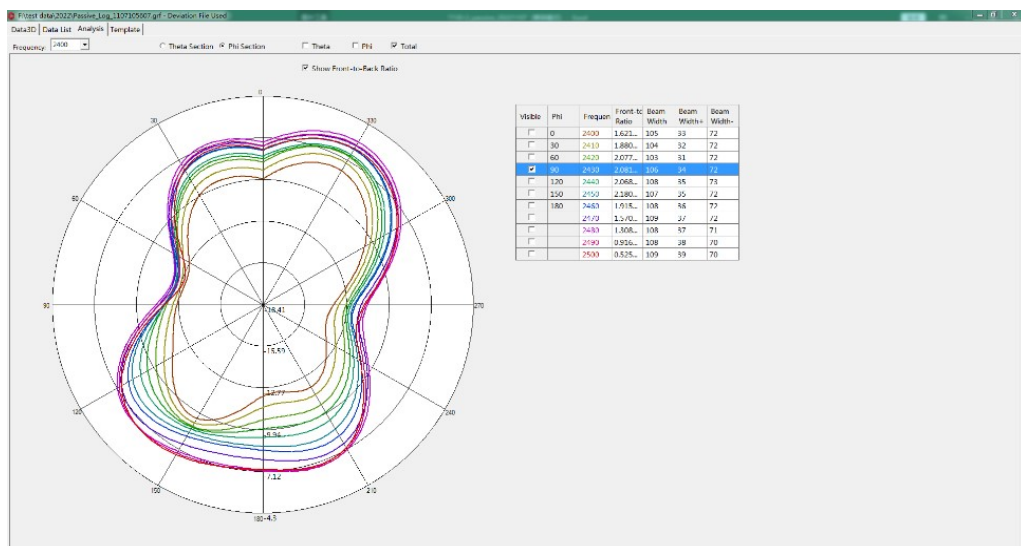
Theta=90°



Phi=0°

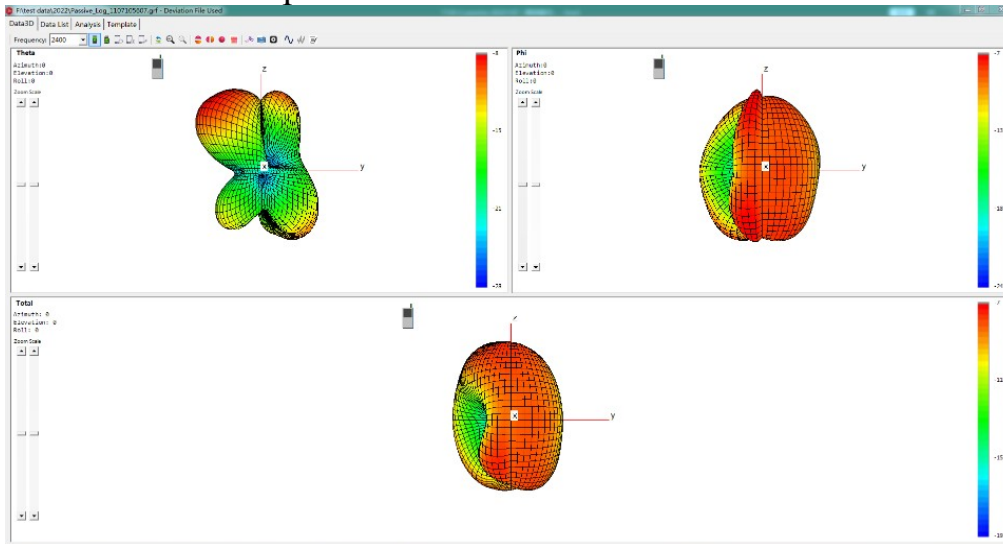


Phi=90°



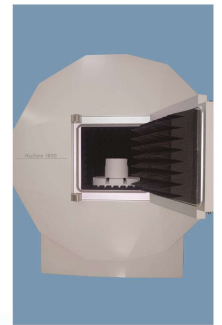
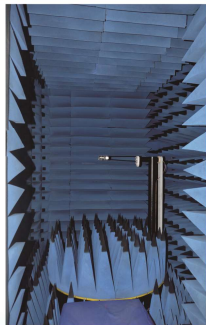
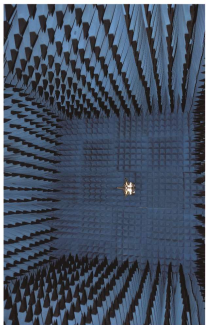


## Antenna radiation pattern 3D :



## IV: 3D Active test report of antenna

|   | Channel | TRP (dBm) | TIS (dBm) |
|---|---------|-----------|-----------|
| L | CH 0    | 6.4       | -86.2     |
|   | CH 39   | 7.5       | -88.1     |
|   | CH 78   | 7.2       | -88.0     |



OTA Standard Chamber



V: Matching circuit

please refer to schematics.