

# Y173 (W121) Antenna Test Report

Customers: Innovatech

Project name: Y173 (W121)

# Y173 project appearance



# Y173 project match

The original match of the mainboard is not moved

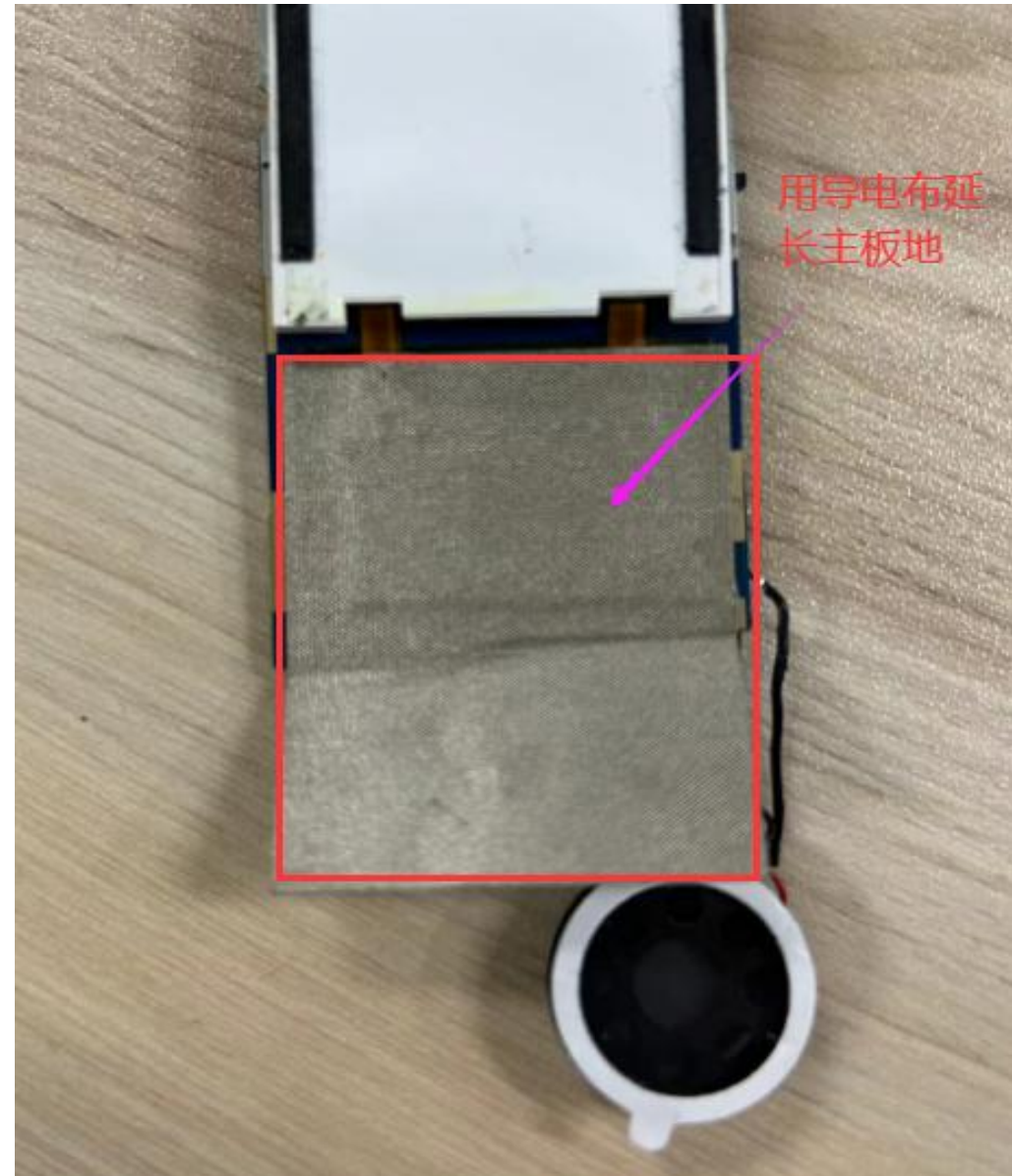
- The original match of the mainboard is not moved

| Plate type       | The whole machine     |                |                         |                 |              |                         |      |
|------------------|-----------------------|----------------|-------------------------|-----------------|--------------|-------------------------|------|
| Antenna Overview | The main antenna      | Frequency band |                         | Antenna status  | Antenna form | Design area             | 匹配改动 |
|                  |                       | 2G             | G2/3/5/8/W2/4/5/8       | Gold-plated FPC | PIFA         | The bottom of the phone | 未改   |
|                  |                       | 3G             |                         |                 |              |                         |      |
|                  |                       | 4G             | N/A                     |                 |              |                         |      |
|                  |                       | 5G             | N/A                     |                 |              |                         |      |
|                  | Other antennas        | BT/WIFI        | 2. 4G                   |                 |              |                         |      |
|                  |                       | GPS            | N/ A                    |                 |              |                         |      |
|                  |                       | Diversity      | N/A                     |                 |              |                         |      |
| Prototype status | Y173Debugging machine |                | Environmental treatment |                 |              |                         |      |

| YZS ANT TRP&TIS parameter Summary of Y173 |           |        |         |           |        |         |
|-------------------------------------------|-----------|--------|---------|-----------|--------|---------|
| BAND                                      | GSM900    |        |         | DCS1800   |        |         |
| CHANNEL                                   | 1         | 62     | 124     | 512       | 698    | 885     |
| TRP (dBm)                                 | 27. 89    | 28. 23 | 27. 75  | 24. 69    | 25. 12 | 25. 48  |
| TIS (dBm)                                 |           |        | -102. 8 |           |        | -102. 8 |
| BAND                                      | GSM850    |        |         | PCS1900   |        |         |
| CHANNEL                                   | 128       | 190    | 251     | 512       | 661    | 810     |
| TRP (dBm)                                 | 26. 51    | 27. 63 | 27. 89  | 25. 23    | 25. 02 | 24. 16  |
| TIS (dBm)                                 |           |        | -103. 7 |           |        | -101. 6 |
| BAND                                      | WCDMA1900 |        |         | WCDMA1700 |        |         |
| CHANNEL                                   | 9262      | 9400   | 9538    | 1312      | 1413   | 1513    |
| TRP (dBm)                                 | 17. 68    | 17. 18 | 17. 06  | 16. 51    | 17. 34 | 17. 53  |
| TIS (dBm)                                 |           |        | -102. 5 |           |        | -101. 2 |
| BAND                                      | WCDMA850  |        |         | WCDMA900  |        |         |
| CHANNEL                                   | 4132      | 4183   | 4233    | 2712      | 2787   | 2863    |
| TRP (dBm)                                 | 17. 52    | 18. 21 | 18. 61  | 17. 85    | 17. 76 | 17. 62  |
| TIS (dBm)                                 |           |        | -103. 8 |           |        | -103. 2 |

| YZS ANT TRP&TIS parameter Summary of Y173-Motherboard conduction |           |        |         |           |        |         |
|------------------------------------------------------------------|-----------|--------|---------|-----------|--------|---------|
| BAND                                                             | GSM900    |        |         | DCS1800   |        |         |
| CHANNEL                                                          | 1         | 62     | 124     | 512       | 698    | 885     |
| TRP (dBm)                                                        | 32. 22    | 32. 16 | 32. 13  | 29. 37    | 29. 24 | 29. 45  |
| TIS (dBm)                                                        |           |        | -107. 5 |           |        | -106    |
| BAND                                                             | GSM850    |        |         | PCS1900   |        |         |
| CHANNEL                                                          | 128       | 190    | 251     | 512       | 661    | 810     |
| TRP (dBm)                                                        | 32. 36    | 32. 33 | 32. 9   | 29. 11    | 29. 06 | 29. 15  |
| TIS (dBm)                                                        |           |        | -108. 5 |           |        | -108. 5 |
| BAND                                                             | WCDMA1900 |        |         | WCDMA1700 |        |         |
| CHANNEL                                                          | 9262      | 9400   | 9538    | 1312      | 1413   | 1513    |
| TRP (dBm)                                                        | 22. 05    | 21. 96 | 22. 08  | 22. 03    | 22. 23 | 22. 17  |
| TIS (dBm)                                                        |           |        | -110    |           |        | -109. 5 |
| BAND                                                             | WCDMA850  |        |         | WCDMA900  |        |         |
| CHANNEL                                                          | 4132      | 4183   | 4233    | 2712      | 2787   | 2863    |
| TRP (dBm)                                                        | 22. 21    | 22. 23 | 22. 27  | 22. 18    | 22. 23 | 22. 17  |
| TIS (dBm)                                                        |           |        | -108    |           |        | -108    |

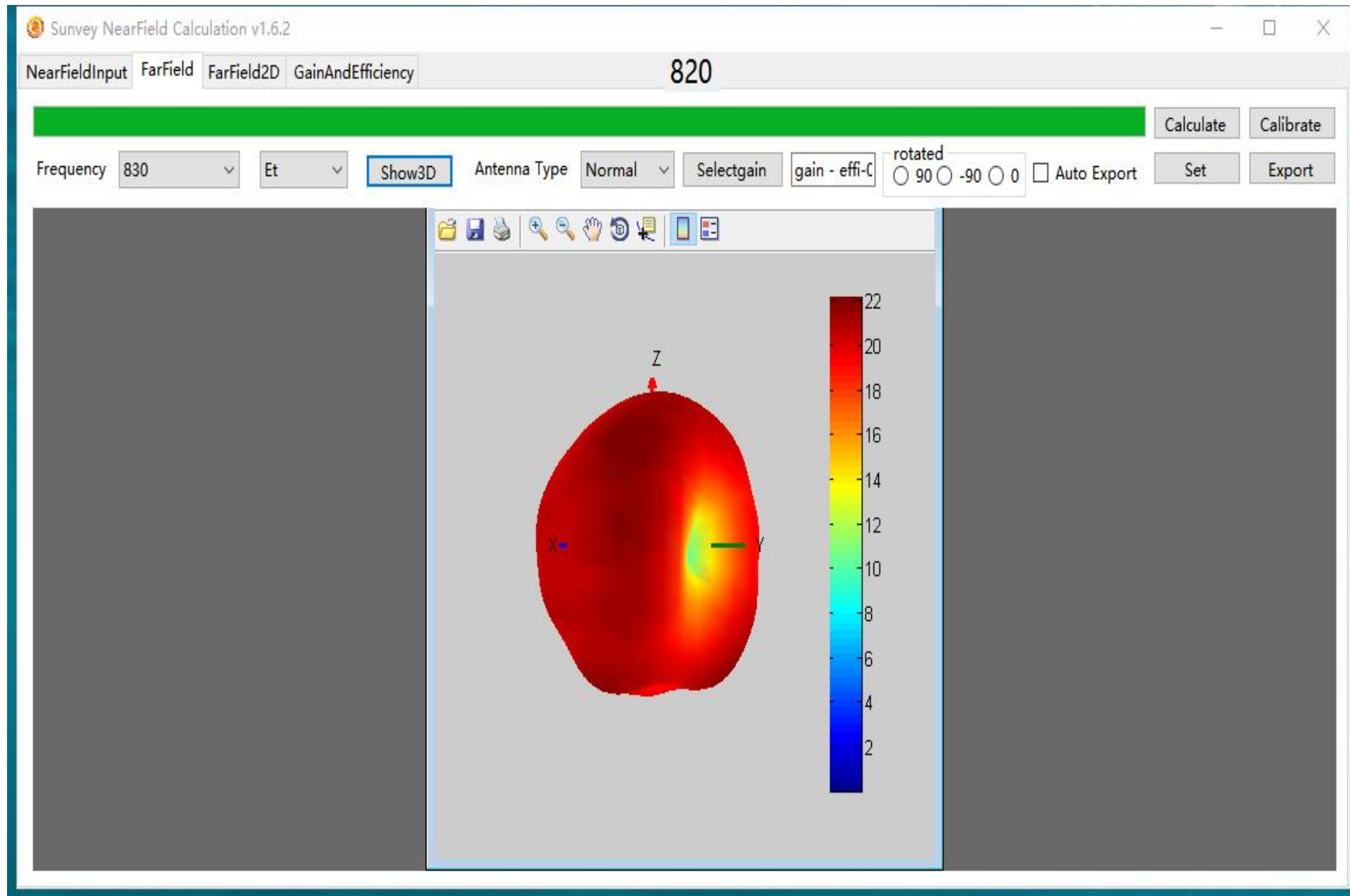
# Environmental treatment



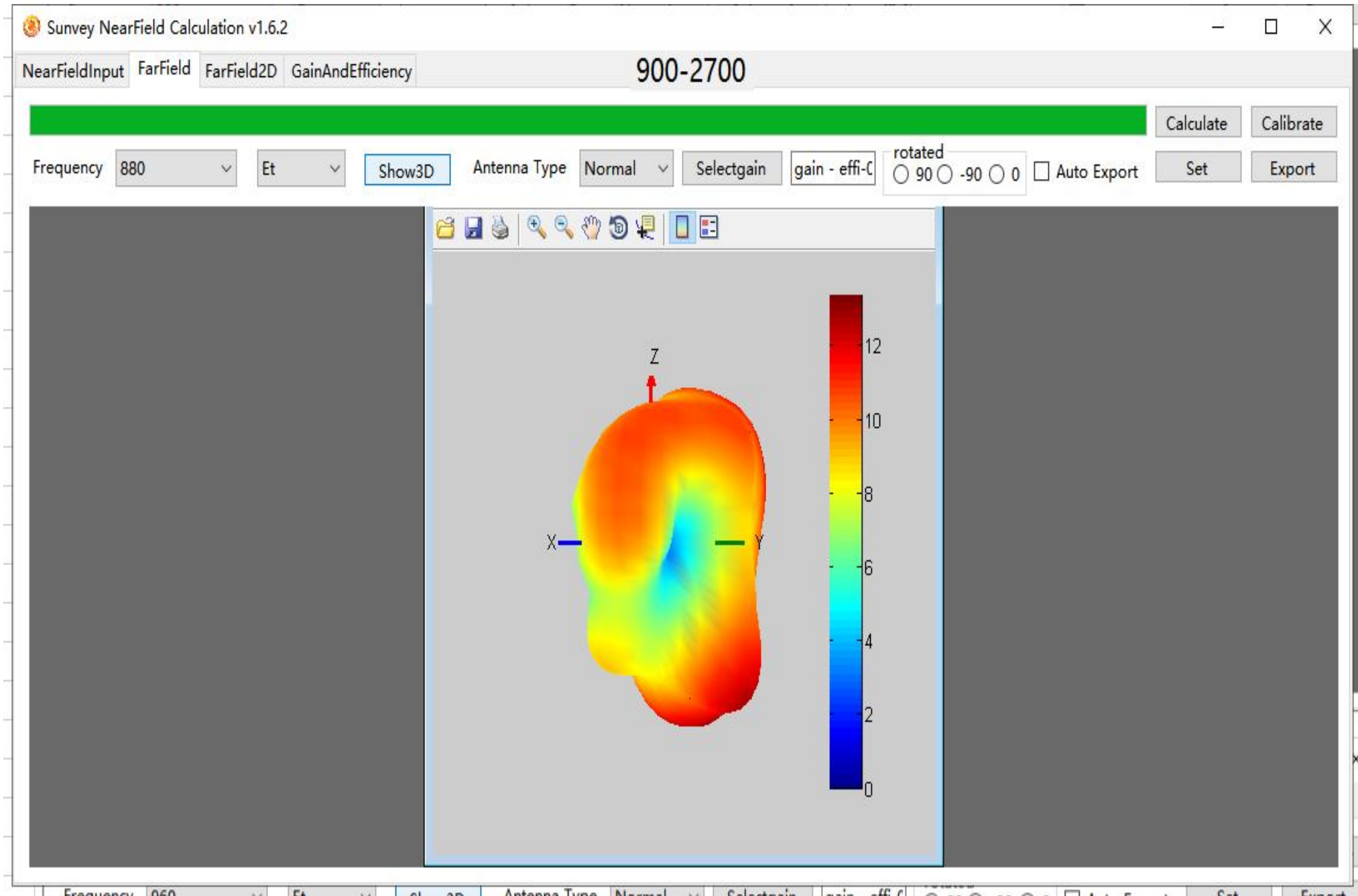
# Antenna gain

| Y173 Antenna Gain |        |
|-------------------|--------|
| 频段Frequency       | 增益Gain |
| GSM850            | -0.53  |
| EGSM900           | -0.47  |
| DCS1800           | -0.32  |
| PCS1900           | -0.35  |
| W900              | -0.47  |
| W1700             | -0.33  |
| W850              | -0.53  |
| W1900             | -0.35  |
| BT                | -0.13  |
| 以上单位为：dBi         |        |

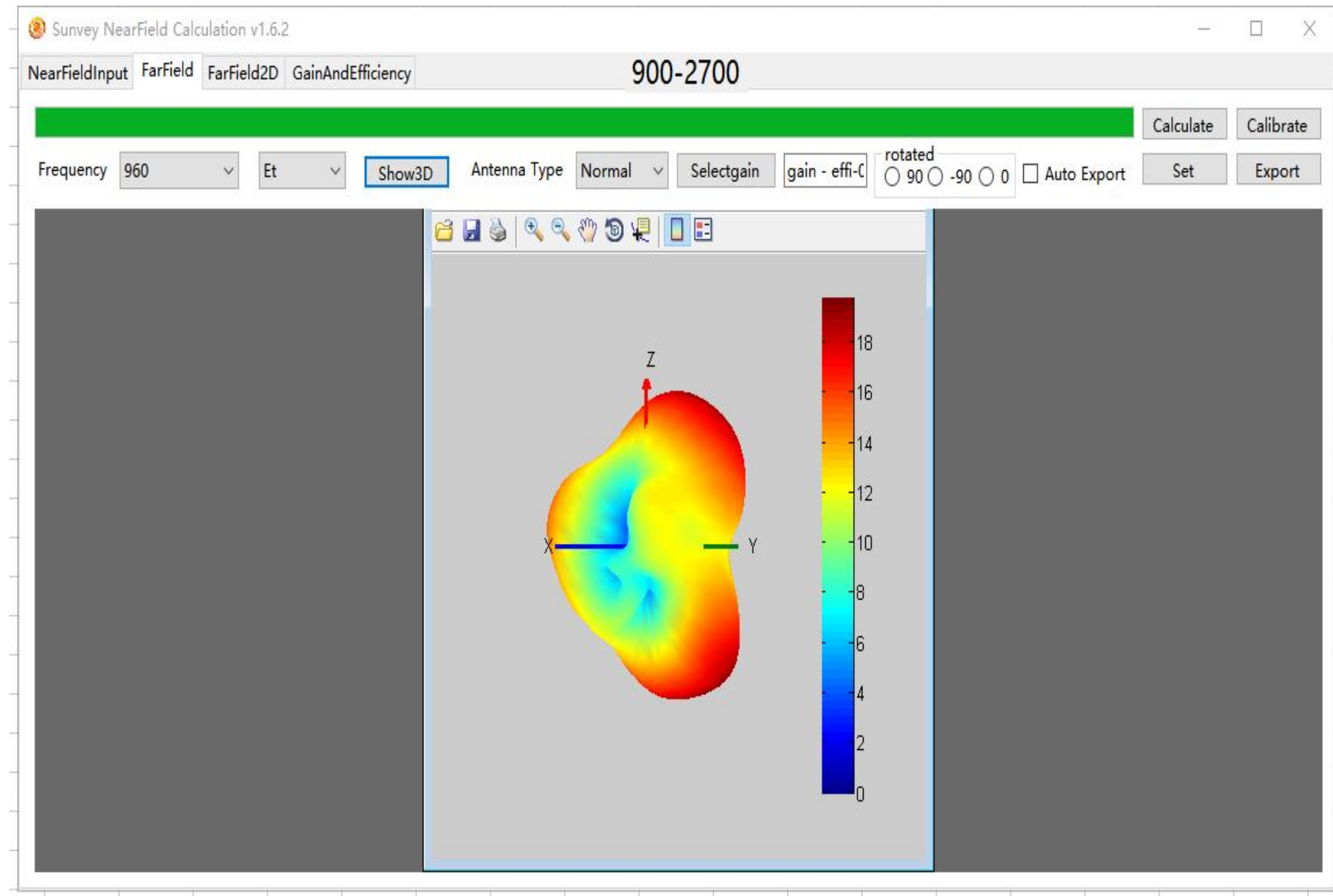
# Main antenna apple diagramApple chart



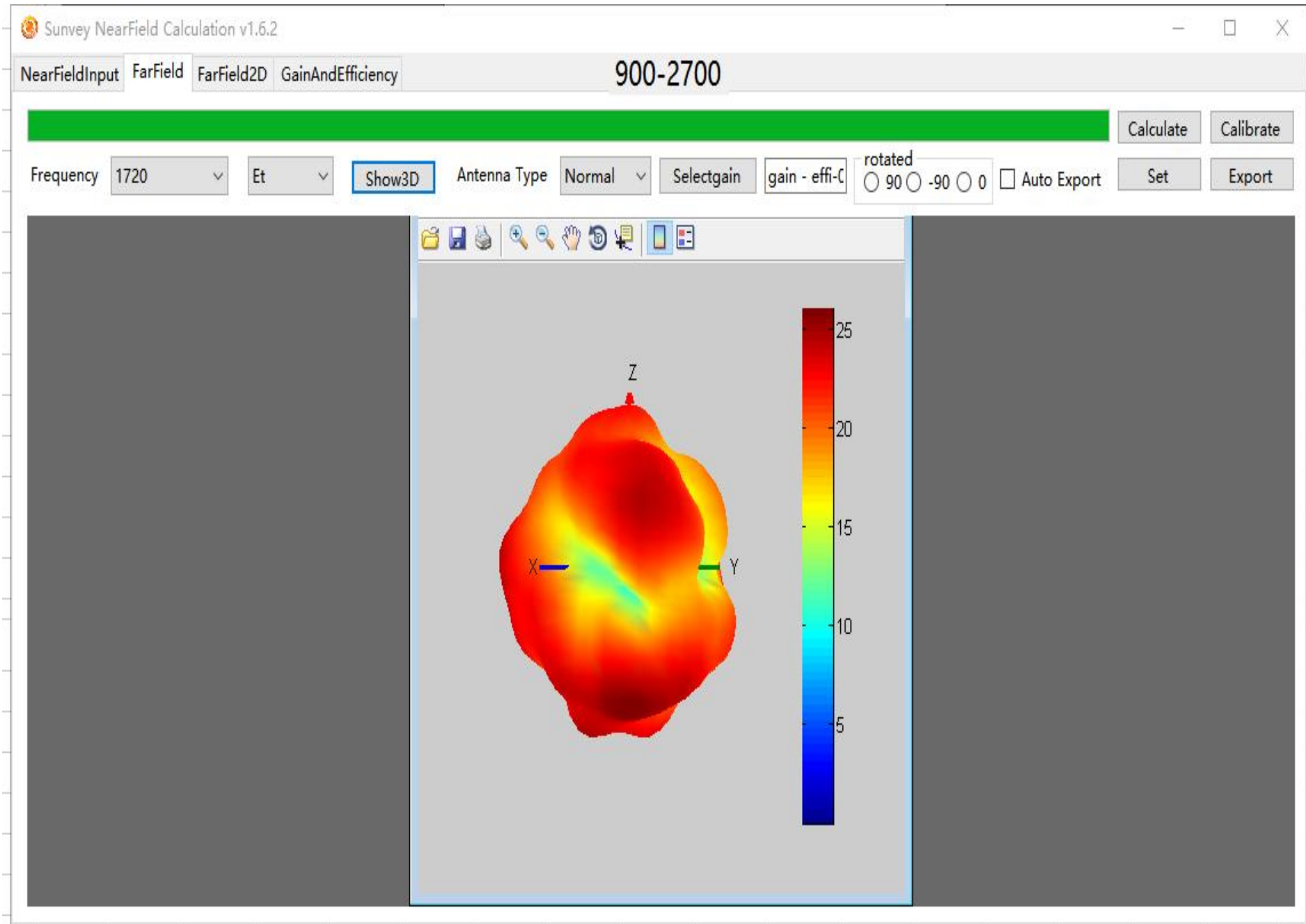
# Main antenna apple diagramApple chart



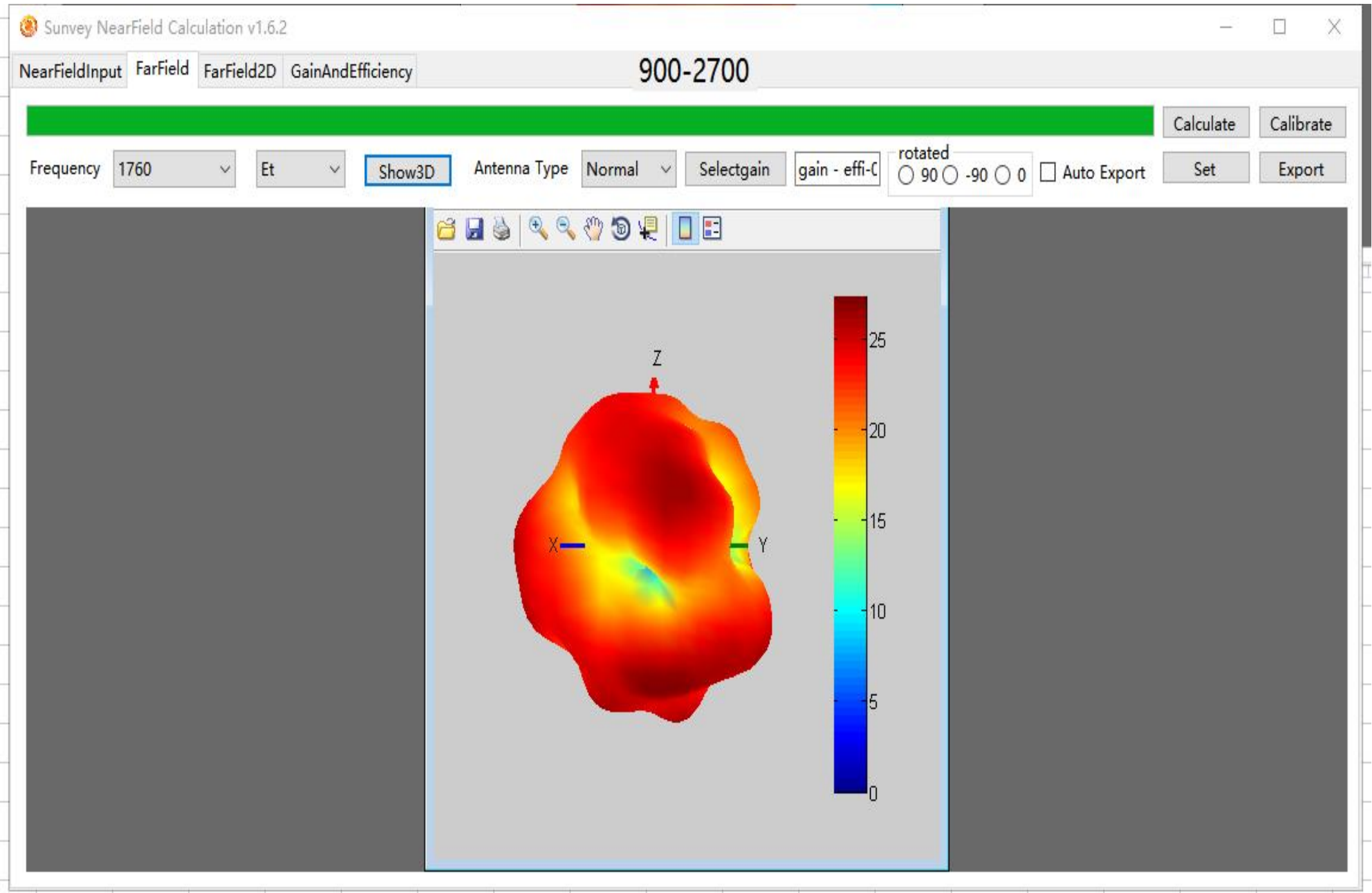
# Main antenna apple diagramApple chart



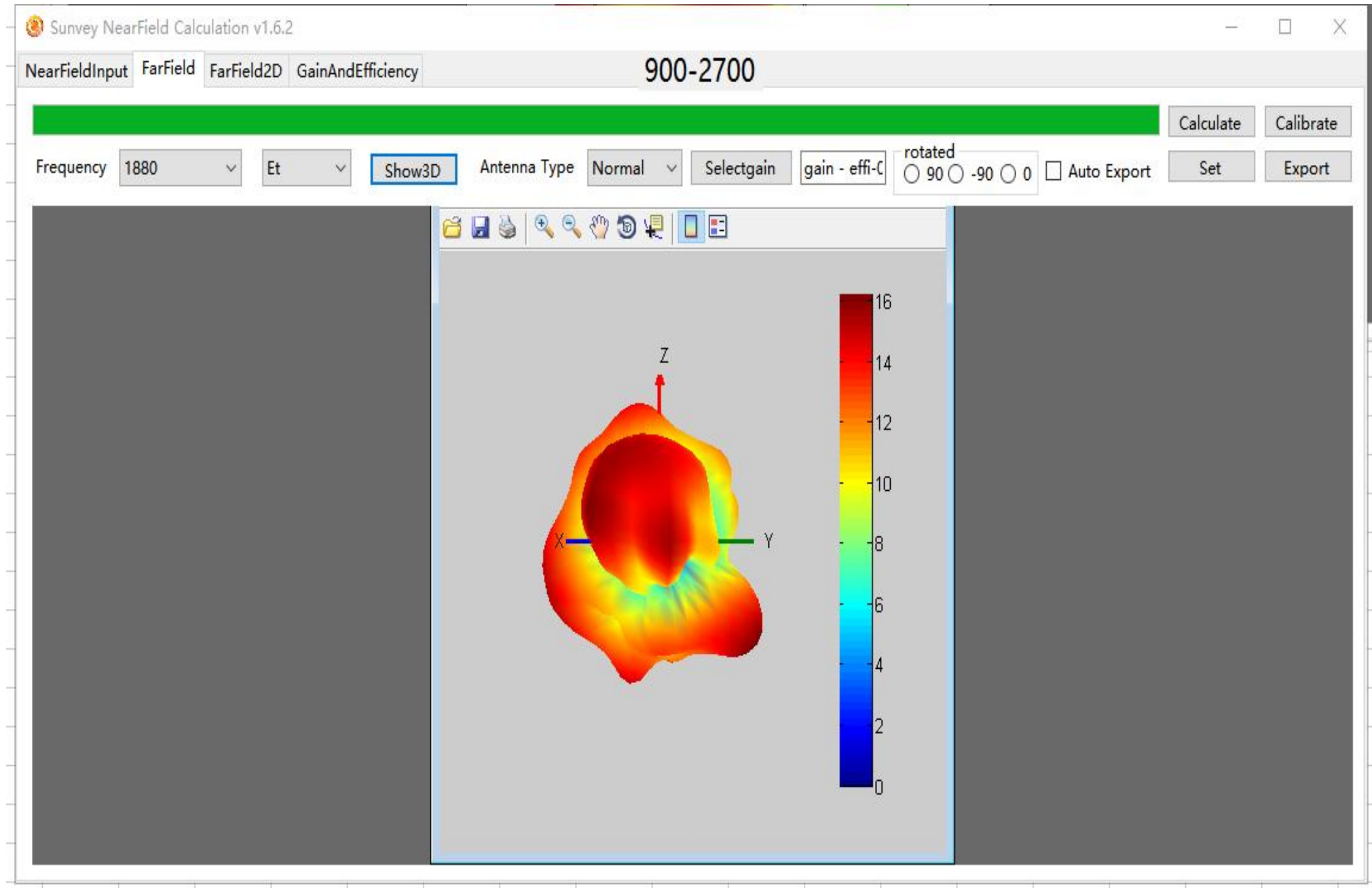
# Main antenna apple diagramApple chart



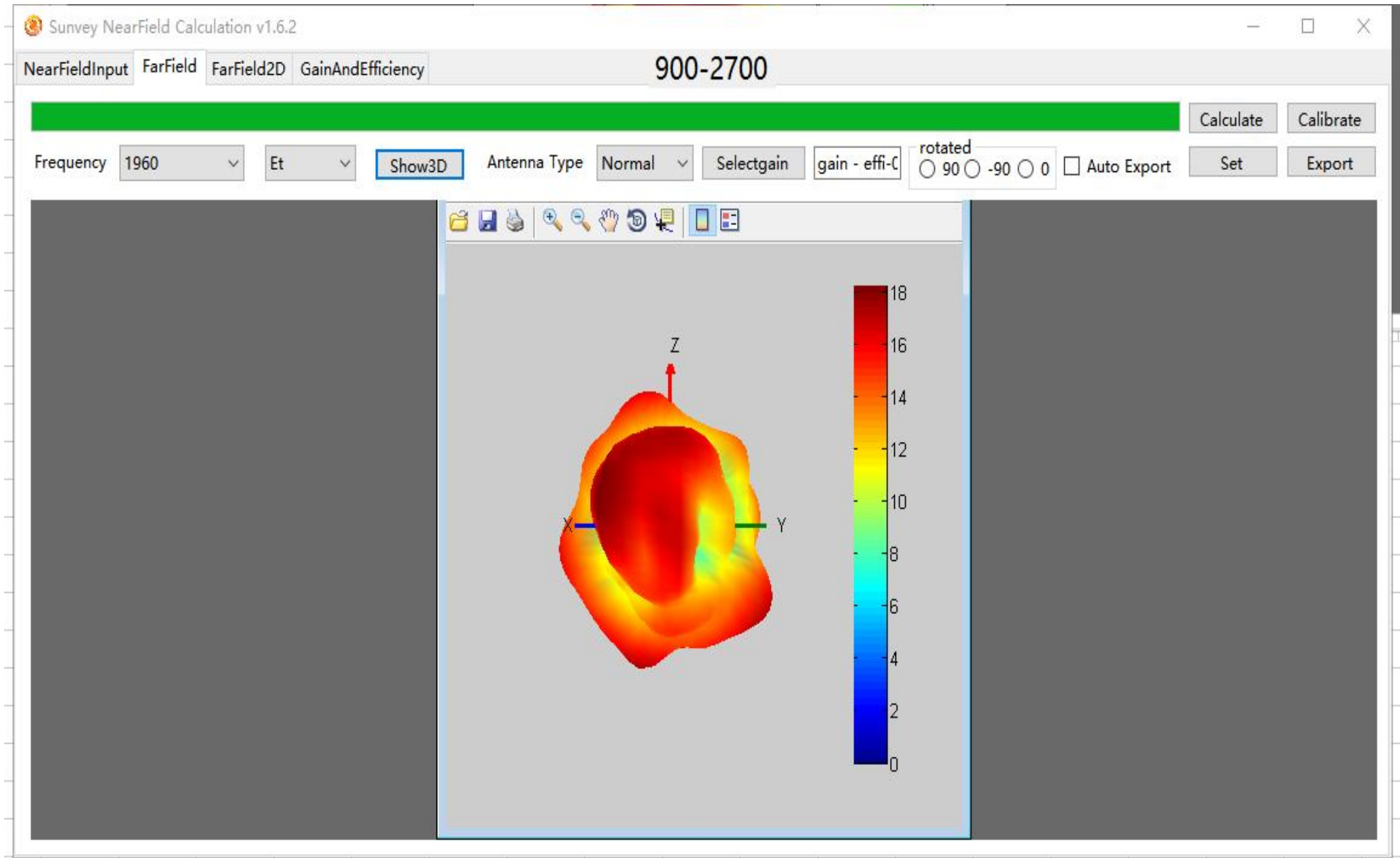
# Main antenna apple diagramApple chart



# Main antenna apple diagramApple chart

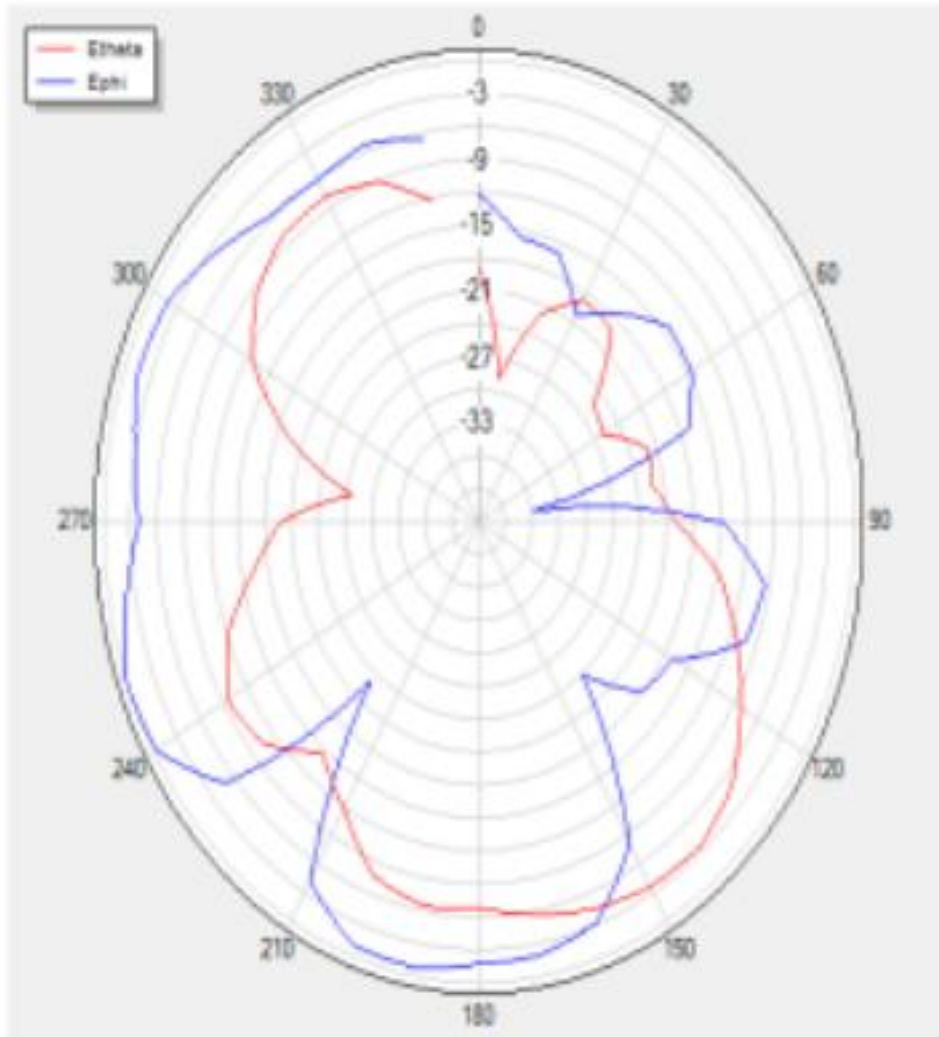


# Main antenna apple diagramApple chart

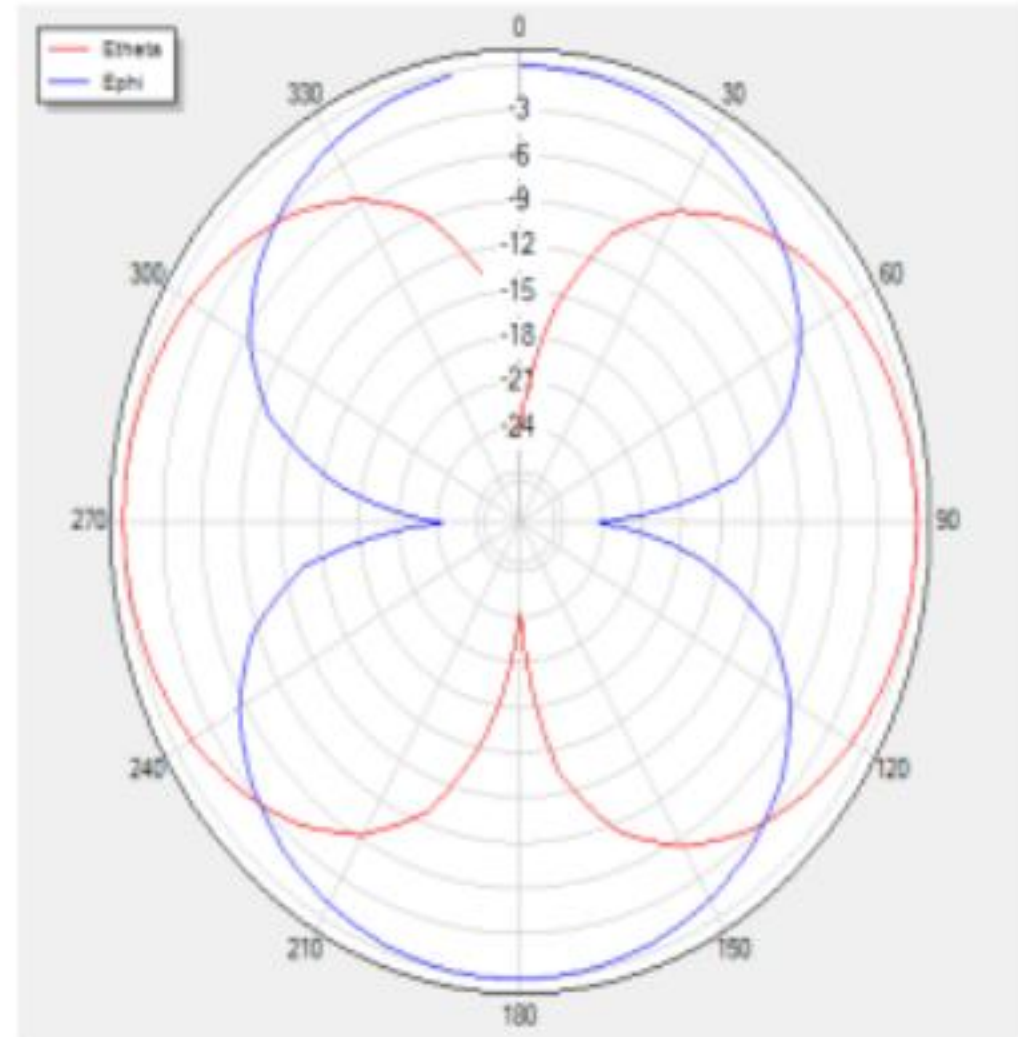


# 蓝牙波瓣图

H Theta=90 freq=2400MHz

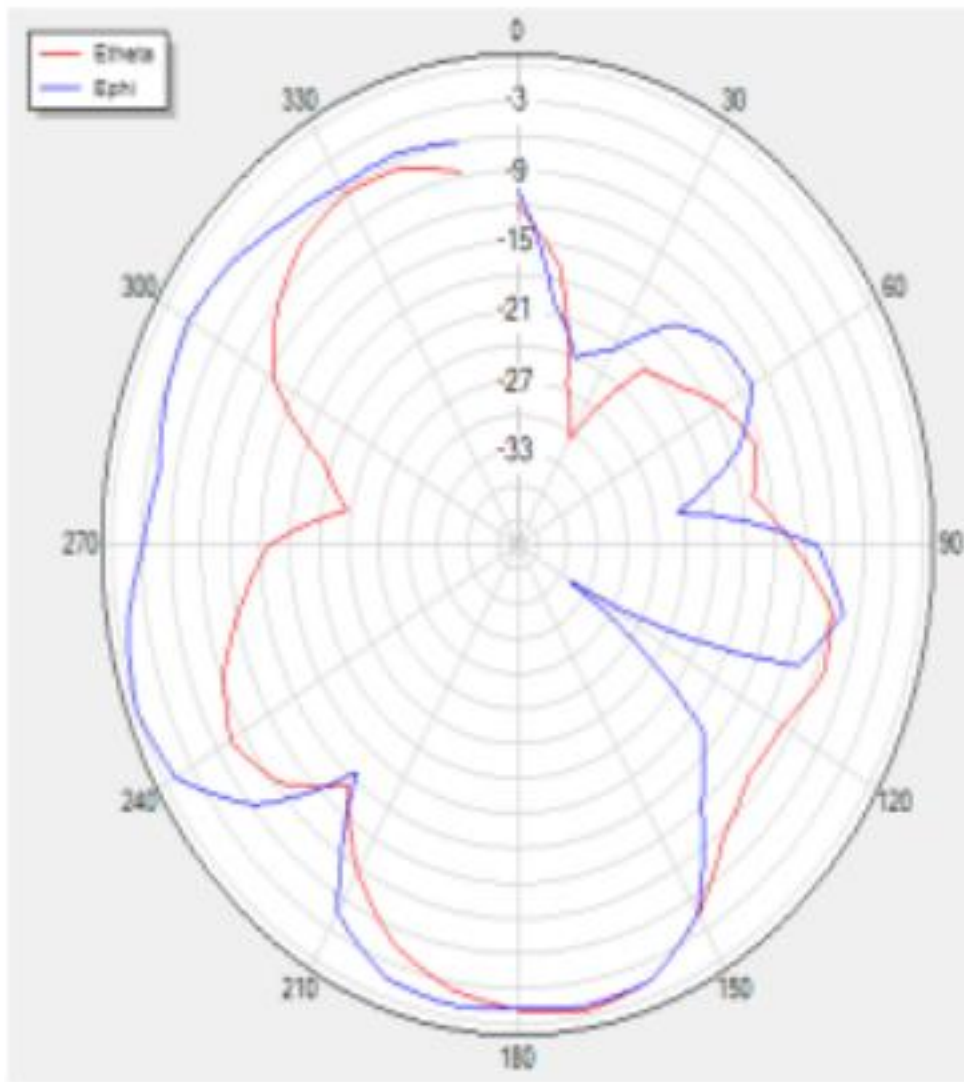


H Theta=0 freq=2400MHz

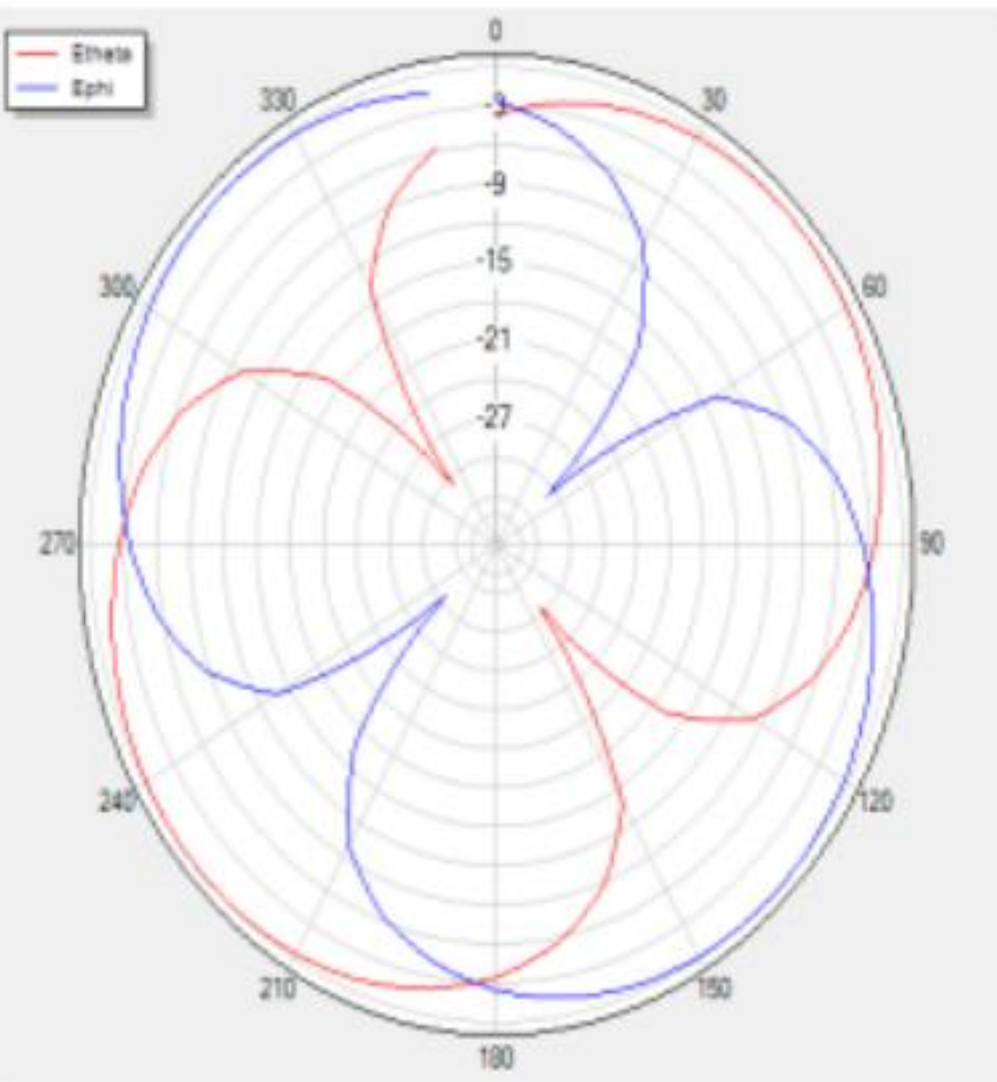


# 蓝牙波瓣图

H Theta=90 freq=2450MHz

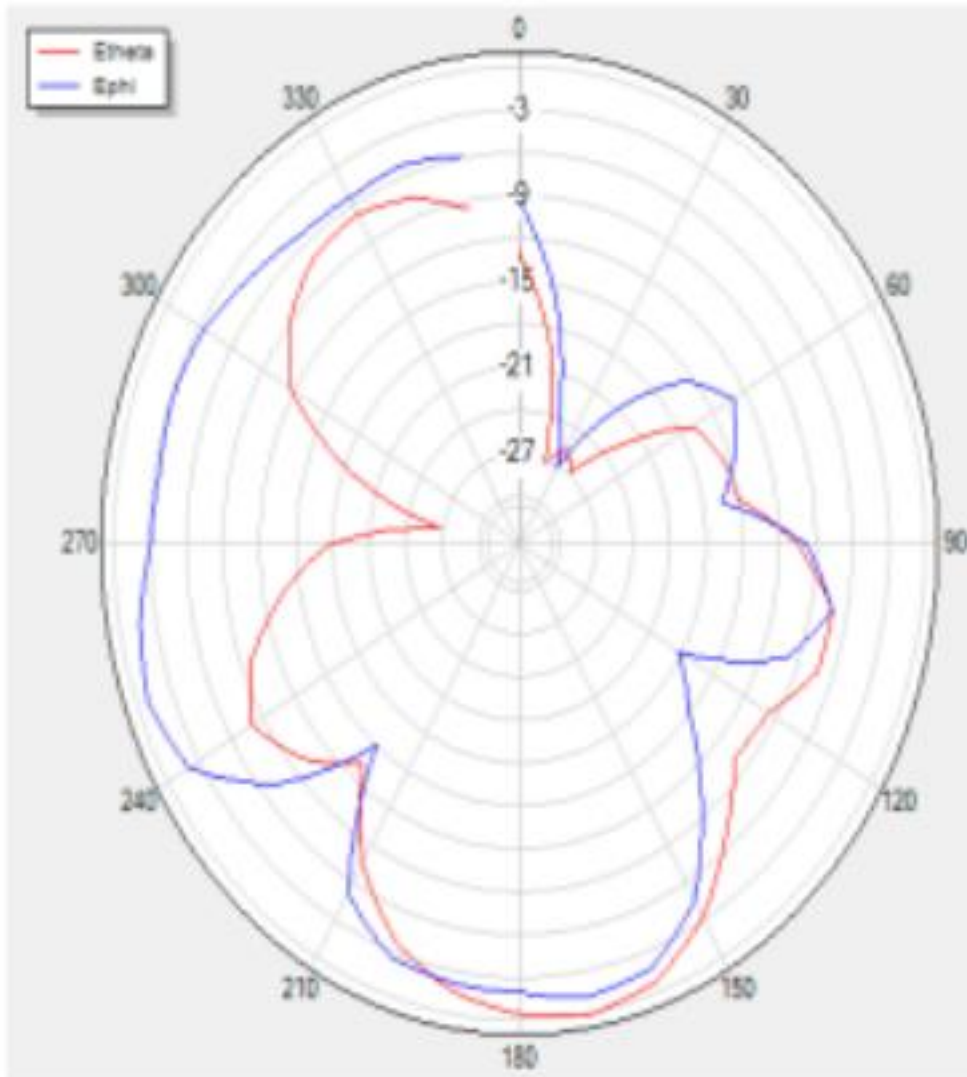


H Theta=0 freq=2450MHz

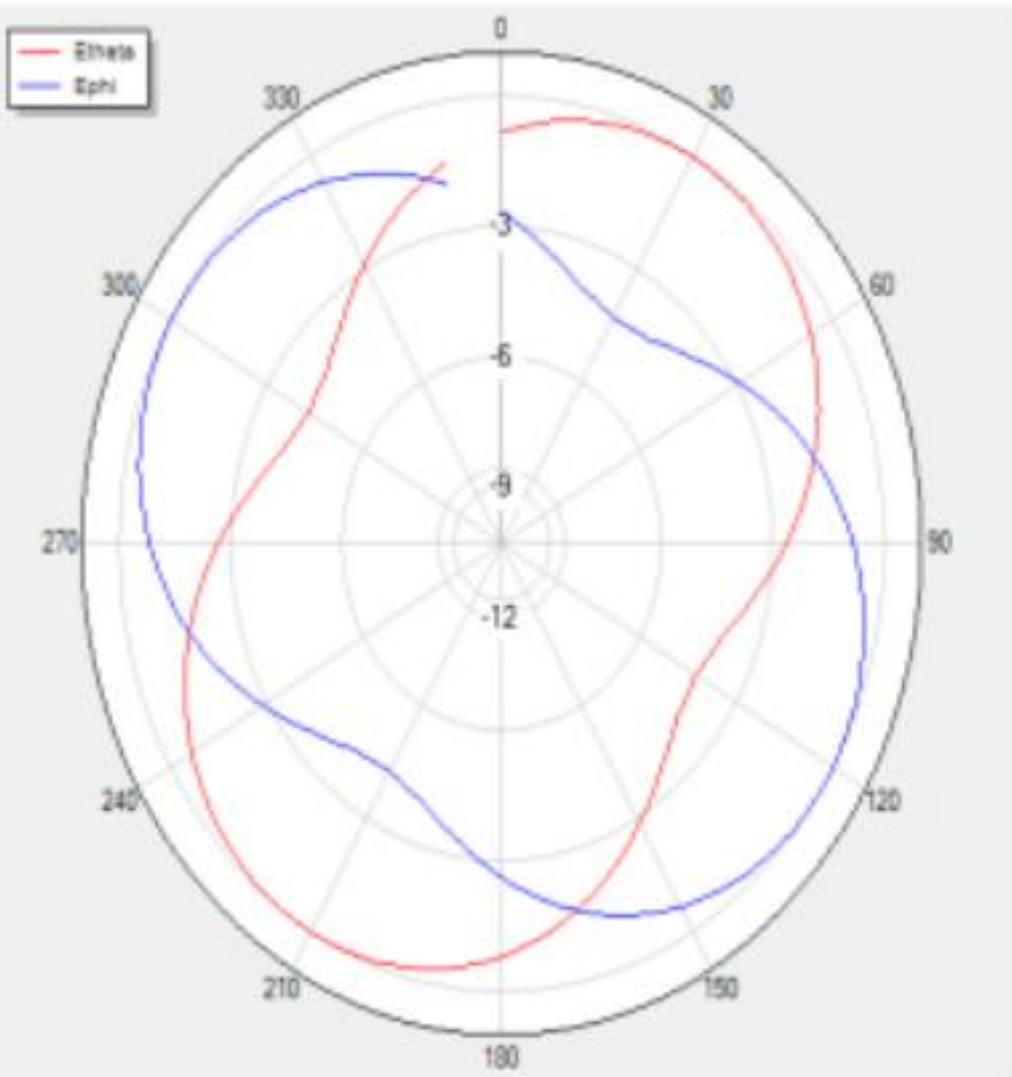


# 蓝牙波瓣图

H Theta=90 freq=2480MHz



H Theta=0 freq=2480MHz



# 蓝牙尺寸图

