

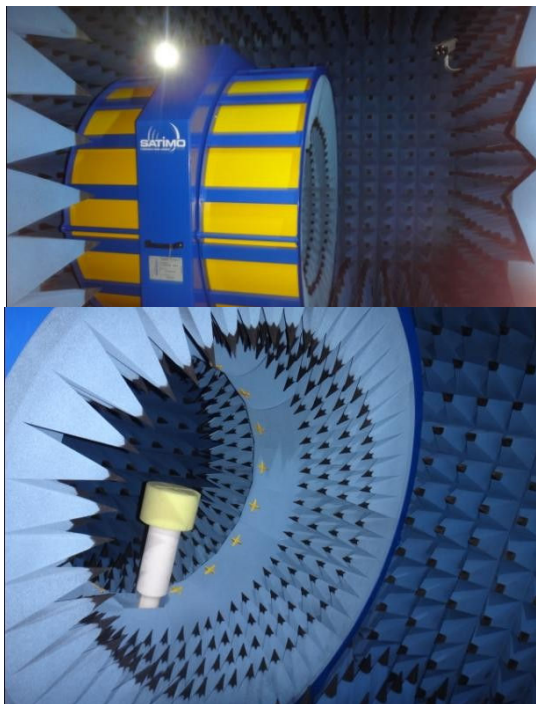
# Test Reoprt



|                          |              |                     |                |
|--------------------------|--------------|---------------------|----------------|
| Customer name            | YoSmart Inc. | project name        | 915 ANT        |
| Test frequency           | 915MHz       | Antenna type        | Spring antenna |
| Radio frequency engineer | Yu Jiyuang   | Structural engineer | Huang xin      |
| Date                     | 2026/06/25   | lister              | Yu Jiyuang     |

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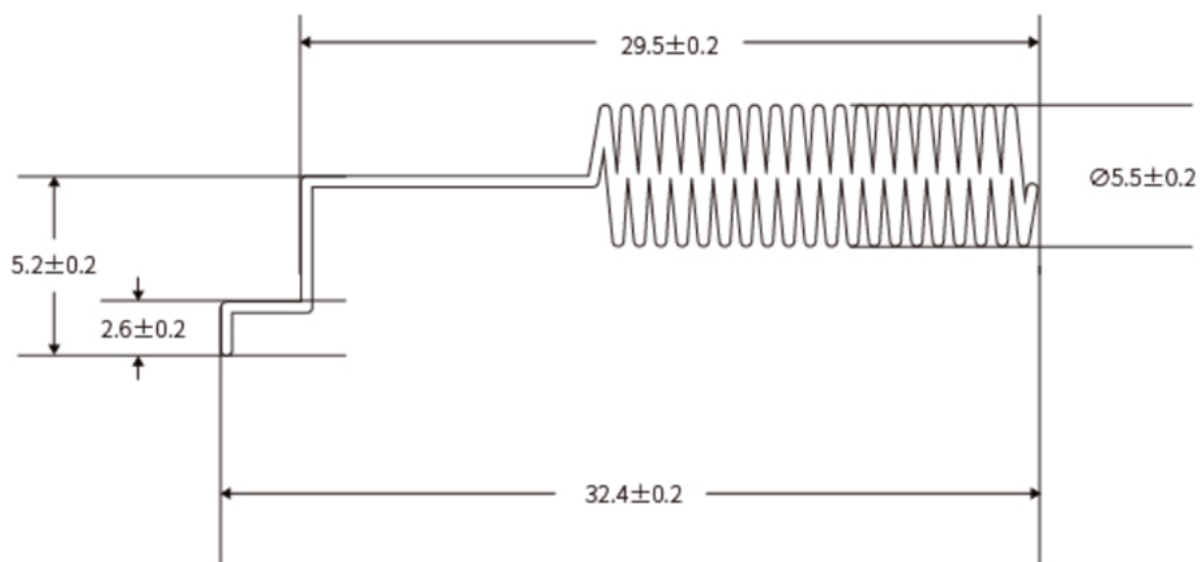
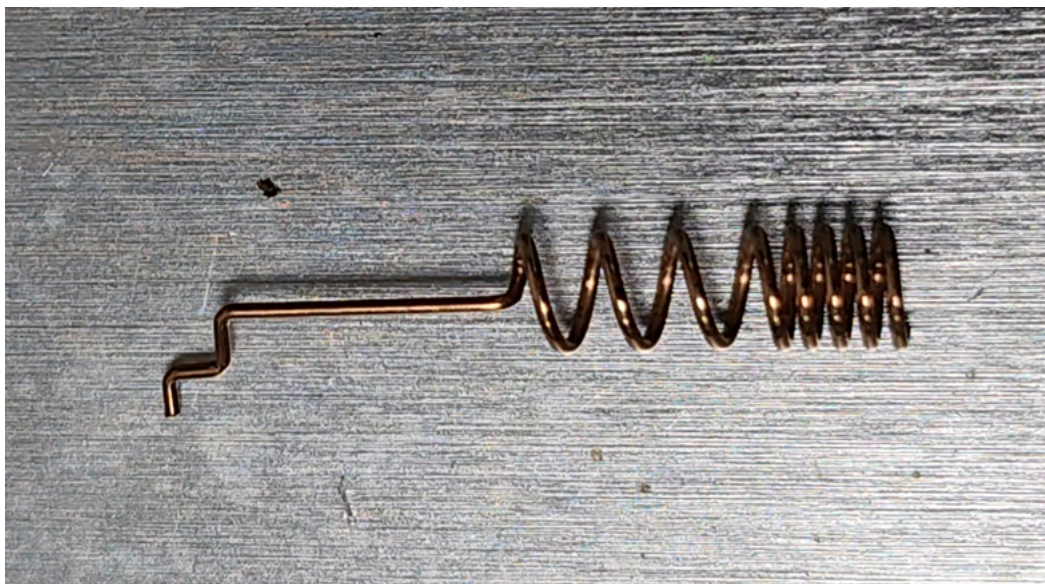
Original imported from France by SATIMO Company, the StarLab3D laboratory can accurately and quickly test the TRP, TIS, efficiency, gain, Apple graph, and direction graph and other parameter data of communication terminal products such as mobile phones, tablets, and laptops.

-  Summary of the Report Version
-  Antenna physical diagram
-  Standing wave ratio, return loss
-  Antenna matching circuit
-  Gain, efficiency, radiation pattern

## 1: Summary of the Report Version

| Ver  | Date       | Content summary  |
|------|------------|------------------|
| V1.0 | 2026/06/25 | Original version |
|      |            |                  |
|      |            |                  |
|      |            |                  |

## 2: Antenna physical diagram



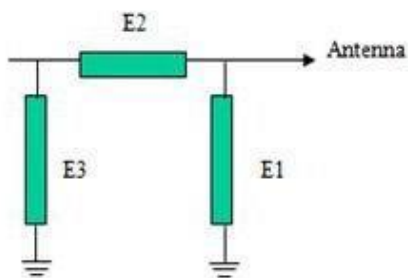
### 3: Standing wave ratio, return loss



### 4: Antenna matching circuit

| Element | E1 | E2 | E3 |  |
|---------|----|----|----|--|
| Value   | NC | 0欧 | NC |  |

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## 5: Gain, efficiency, radiation pattern

| Frequency ID               | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 13     | 14     | 15     | 16     |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz)            | 908    | 909    | 910    | 911    | 912    | 913    | 914    | 915    | 916    | 917    | 918    | 919    | 920    | 921    | 922    | 923    |
| Efficiency (dBi)           | -5.17  | -5.11  | -5.11  | -4.99  | -4.92  | -4.90  | -4.93  | -4.99  | -4.98  | -4.97  | -4.95  | -4.92  | -4.87  | -4.90  | -4.91  | -4.88  |
| Gain (dBi)                 | 0.84   | 0.89   | 0.85   | 0.91   | 0.96   | 0.93   | 0.87   | 0.72   | 0.68   | 0.62   | 0.61   | 0.57   | 0.54   | 0.48   | 0.39   | 0.34   |
| Efficiency (%)             | 30.44  | 30.81  | 30.87  | 31.73  | 32.23  | 32.37  | 32.16  | 31.66  | 31.79  | 31.87  | 32.00  | 32.20  | 32.61  | 32.33  | 32.30  | 32.51  |
| Directivity (dB)           | 6.00   | 6.00   | 5.96   | 5.90   | 5.88   | 5.83   | 5.79   | 5.72   | 5.66   | 5.59   | 5.56   | 5.49   | 5.41   | 5.38   | 5.30   | 5.22   |
| Peak Gain Position (Theta) | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 |
| Peak Gain Position (Phi)   | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 | 195.00 |
| Efficiency ThetaPol (%)    | 13.93  | 14.23  | 14.38  | 14.94  | 15.32  | 15.54  | 15.59  | 15.50  | 15.67  | 15.81  | 15.96  | 16.13  | 16.40  | 16.31  | 16.34  | 16.47  |
| Efficiency PhiPol (%)      | 16.51  | 16.59  | 16.48  | 16.79  | 16.91  | 16.83  | 16.56  | 16.16  | 16.12  | 16.06  | 16.04  | 16.07  | 16.21  | 16.02  | 15.96  | 16.04  |
| Upper Hem. Efficiency (%)  | 11.37  | 11.51  | 11.54  | 11.88  | 12.08  | 12.16  | 12.10  | 11.92  | 11.97  | 12.02  | 12.09  | 12.17  | 12.36  | 12.27  | 12.28  | 12.37  |
| Lower Hem. Efficiency (%)  | 19.07  | 19.30  | 19.32  | 19.85  | 20.15  | 20.22  | 20.06  | 19.74  | 19.82  | 19.86  | 19.91  | 20.03  | 20.25  | 20.06  | 20.02  | 20.14  |

| T90(H)图度          | 10.96 | 10.86 | 10.77 | 10.58 | 10.48 | 10.23 | 10.19 | 9.97  | 10.03 | 9.86  | 9.66  | 9.48  | 9.39  | 9.27  | 9.14  | 9.02  |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Gain 15deg (dBi)  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| E1(XZ)波谱宽度        | 44.00 | 44.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 44.00 | 45.00 | 44.00 |
| E1(XZ)前后比         | 4.04  | 4.07  | 4.10  | 4.11  | 4.16  | 4.17  | 4.24  | 4.28  | 4.32  | 4.35  | 4.36  | 4.45  | 4.45  | 4.48  | 4.45  | 4.51  |
| E2(YZ)波谱宽度        | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 42.00 | 42.00 | 42.00 | 40.00 | 40.00 | 39.00 |
| E2(YZ)前后比         | 1.00  | 1.09  | 1.08  | 1.06  | 1.05  | 1.08  | 1.09  | 1.04  | 1.08  | 0.97  | 0.97  | 0.91  | 0.91  | 0.82  | 0.91  | 0.98  |
| 最大增益处轴比(P)        | 4.41  | 4.46  | 4.57  | 4.63  | 4.66  | 4.66  | 4.69  | 4.71  | 4.68  | 4.68  | 4.68  | 4.74  | 4.67  | 4.67  | 4.66  | 4.71  |
| 顶点(Theta=0)处轴比(P) | 8.36  | 8.50  | 8.60  | 8.75  | 8.96  | 9.02  | 9.23  | 9.31  | 9.38  | 9.58  | 9.68  | 9.66  | 9.76  | 9.96  | 10.01 | 10.07 |
| 仰角10度最差(大)轴比(P)   | 34.17 | 34.59 | 34.07 | 46.89 | 49.24 | 46.85 | 46.83 | 44.34 | 42.02 | 48.12 | 42.96 | 46.89 | 46.92 | 41.97 | 47.99 | 37.26 |
| Hc(XY)波谱宽度        | 74.00 | 75.00 | 76.00 | 77.00 | 77.00 | 78.00 | 79.00 | 79.00 | 82.00 | 82.00 | 83.00 | 84.00 | 85.00 | 86.00 | 86.00 | 87.00 |
| Hc(XY)前后比         | 3.21  | 3.26  | 3.41  | 3.41  | 3.49  | 3.55  | 3.65  | 3.79  | 3.85  | 4.02  | 4.13  | 4.28  | 4.36  | 4.50  | 4.60  | 4.79  |
| 左旋圆极化效率(%)        | 19.70 | 19.93 | 19.90 | 20.41 | 20.69 | 20.73 | 20.54 | 20.17 | 20.22 | 20.25 | 20.30 | 20.41 | 20.64 | 20.44 | 20.39 | 20.48 |
| 右旋圆极化效率(%)        | 10.73 | 10.88 | 10.96 | 11.32 | 11.54 | 11.65 | 11.62 | 11.49 | 11.57 | 11.62 | 11.70 | 11.80 | 11.96 | 11.89 | 11.91 | 12.03 |

