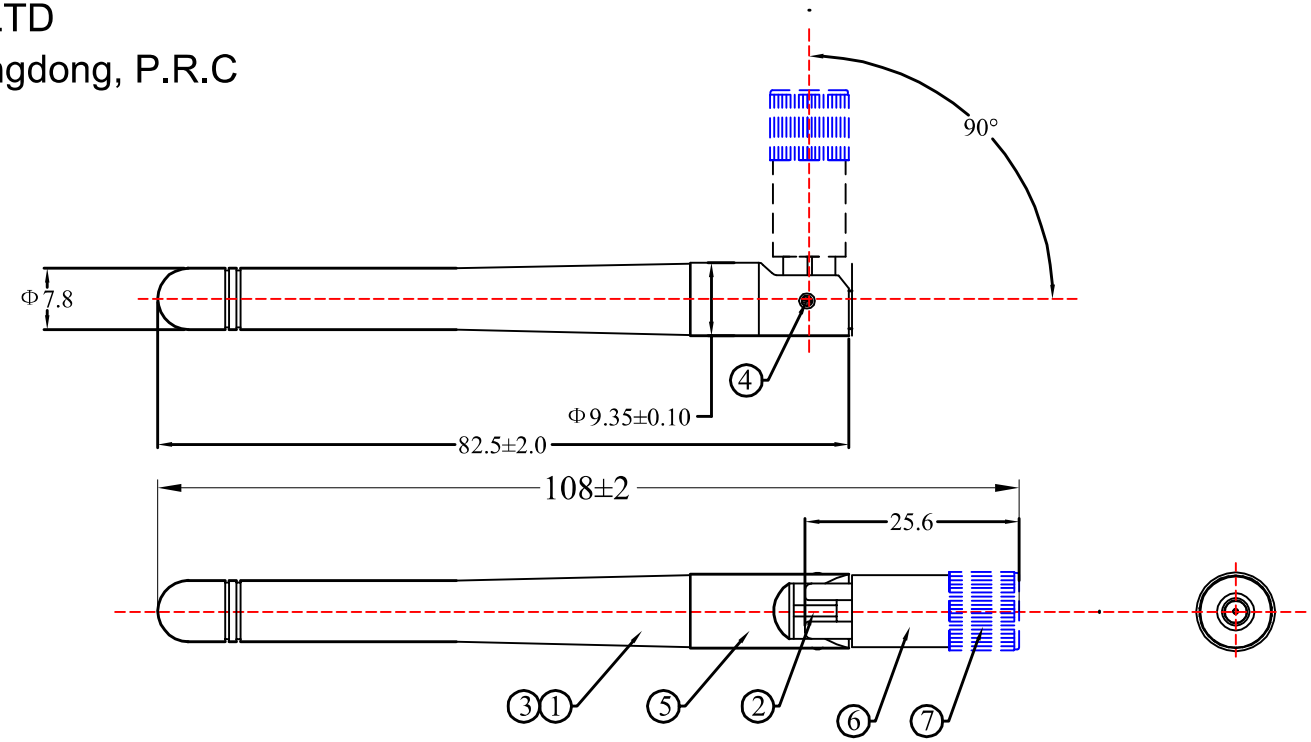
TRULY ELECTRONICS MFG., LTD
Truly industry city, shanwei Guangdong, P.R.C

| REV | DESCRIPTION | MEMO |
|---|---|---|
| 01 | DRAWING RECEIVED | May.29.2022 |




NOTES:
1. ALL MATERIALS MUST MEET RoHS.
2. ELECTRICAL CHARACTERISTICS:
   2.1 FREQUENCY RANGE:2.4GHz-2.5GHz/4.9-5.8GHZ
   2.2 VSWR:≤2.0
   2.3 NORMINAL IMPEDANCE:50 OHM
   2.4 POLARIZATION:VERTICAL

3.ENVIRONMENT:
   3.1 OPERATION TEMPERATURE:-30°C TO +70°C

| No. | ITEM | DESCRIPTION | QTY |
|---|---|---|---|
| 7 | CONNECTOR | RA-SMA REVERSE STRAIGHT PLUG FOR RG-178 CABLE,BLACK. | 1PC |
| 6 | ANTENNA BASE | PA+30%GF,COLOR;BLACK | 1PC |
| 5 | ANTENNA BASE | PC,COLOR;BLACK | 1PC |
| 4 | RIVET | BRASS,BLACK NICKEL PLATED | 2PC |
| 3 | GROUND TUSE | Ø5.2x23.0mm COPPER PIPE,MATERIAL:BRASS,INCKEL PLATED. | 1PC |
| 2 | CABLE | RG-178/U RF COAXIAL CABLE,FEP JACKET, TRANSPARENT BROWN,L=83mm | 1PC |
| 1 | COVER | TPE,COLOR;BLACK | 1PC |

BILL OF MATERIAL

THIRD ANGLE PROJECTION

TOLERANCES UNLESS OTHERWISE SPECIFIED

| | | |
|---|---|---|
| ONE PLACE DECIMAL | .X | N/A |
| TWO PLACE DECIMAL | .XX | N/A |
| THREE PLACE DECIMAL | .XXX | N/A |
| HOLE DIA. VARIATION | .XX | N/A |
| ANGULAR DIMENSION | (ENG) | N/A |

DRAWING APPROVAL
DWN:
CHK:
APPD:
SIZE: A4 UNIT: mm
SCALE: - : -

LIJIE

CUS:
PART No. A25458101
ITEM: 2.4GHz/5.8GHz ANTENNA
SHEET: 1 OF 1 CUS REV: N/A EXC REV: 01

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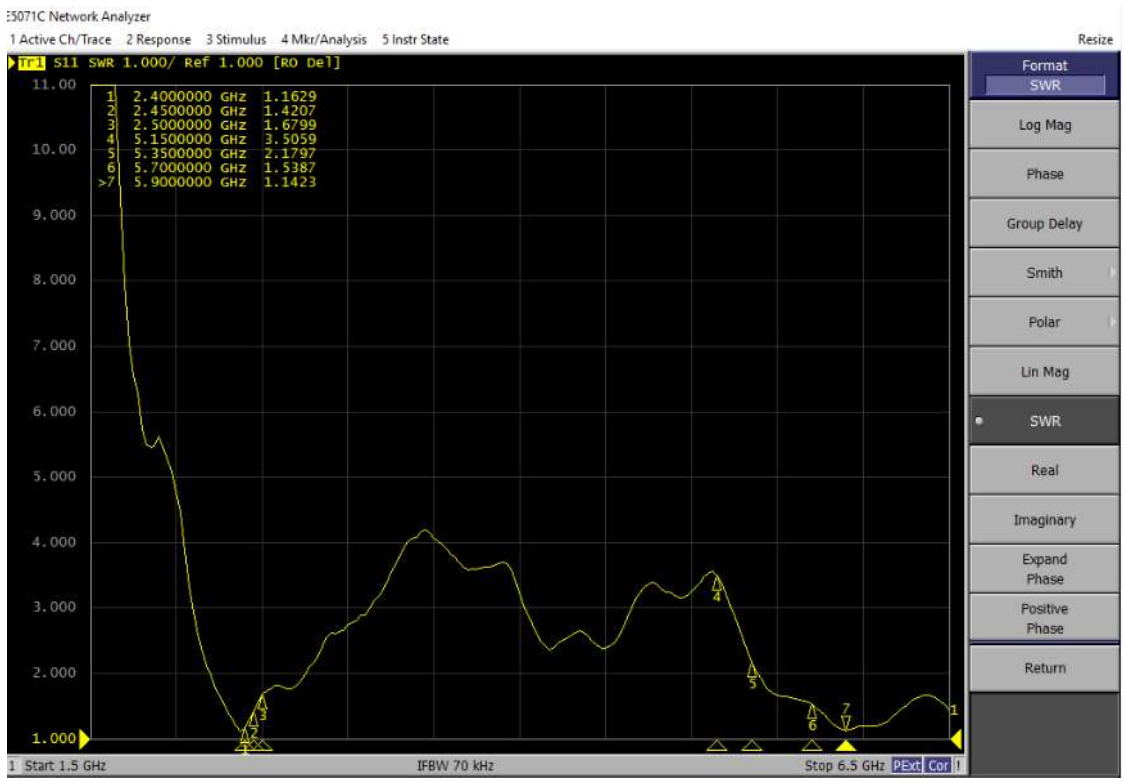
# Dual-frequency Glue Stick Antenna Test Report

Glue stick antenna picture:

Small adhesive antenna S11 data:

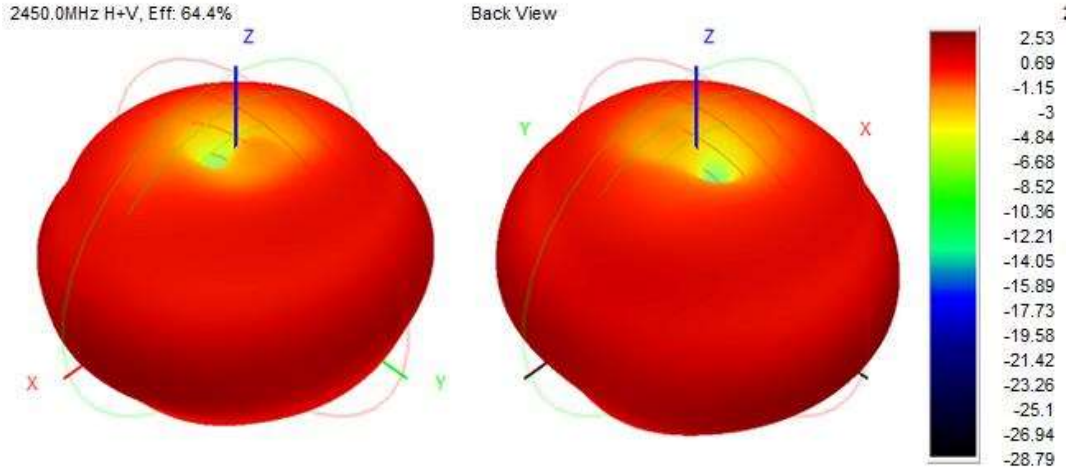
| Frequency(MHz) | 2400 | 2450 | 2500 | 5150 | 5350 | 5700 | 5900 |
|---|---|---|---|---|---|---|---|
| ReturnLoss | -27.36 | -17.27 | -13.04 | -5.19 | -8.83 | -12.56 | -26.25 |
| VSWR | 1.16 | 1.42 | 1.68 | 3.50 | 2.17 | 1.53 | 1.14 |

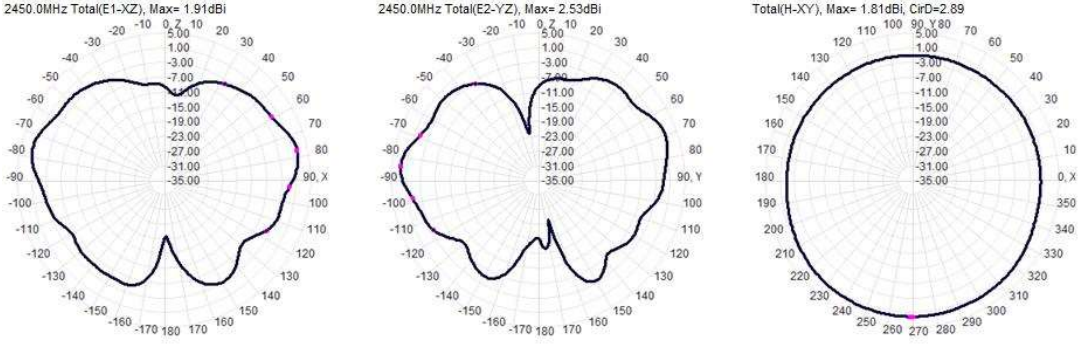



Gain efficiency and radiation pattern of small rubber rod antenna:

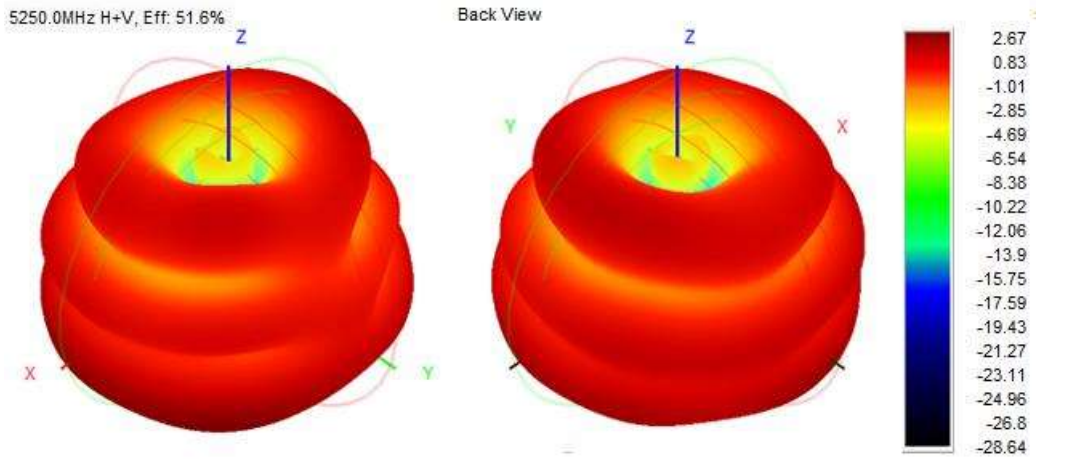
| Fq （MHz） | 2400 | 2410 | 2420 | 2430 | 2440 | 2450 | 2460 | 2470 | 2480 | 2490 | 2500 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gain（dBi） | 1.40 | 0.78 | 1.02 | 1.15 | 1.40 | 2.50 | 1.48 | 1.29 | 1.95 | 1.72 | 1.75 |
| Efficie（%） | 57.2 | 59.1 | 59.7 | 60.6 | 62.1 | 64.4 | 66.2 | 67.1 | 65.6 | 64.2 | 63.2 |
| Fq （MHz） | 5150 | 5200 | 5250 | 5300 | 5350 | 5400 | 5450 | 5500 | 5550 | 5600 | 5650 |
| Gain（dBi） | 2.07 | 1.83 | 2.50 | 2.03 | 2.27 | 0.39 | 1.28 | 1.93 | 2.24 | 1.93 | 0.95 |
| Efficie（%） | 54.1 | 50.6 | 58.2 | 57.3 | 52.7 | 49.10 | 53.80 | 51.60 | 52.60 | 53.40 | 50.00 |
| Fq （MHz） | 5700 | 5750 | 5800 | 5850 | | | | | | | |
| Gain（dBi） | 1.07 | 1.87 | 1.28 | 2.11 | | | | | | | |
| Efficie（%） | 50.2 | 51.5 | 50.8 | 51.4 | | | | | | | |

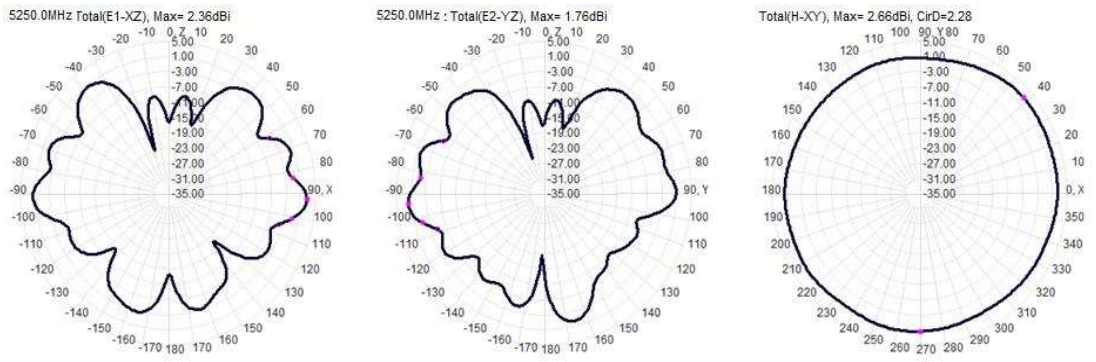
2450MHz



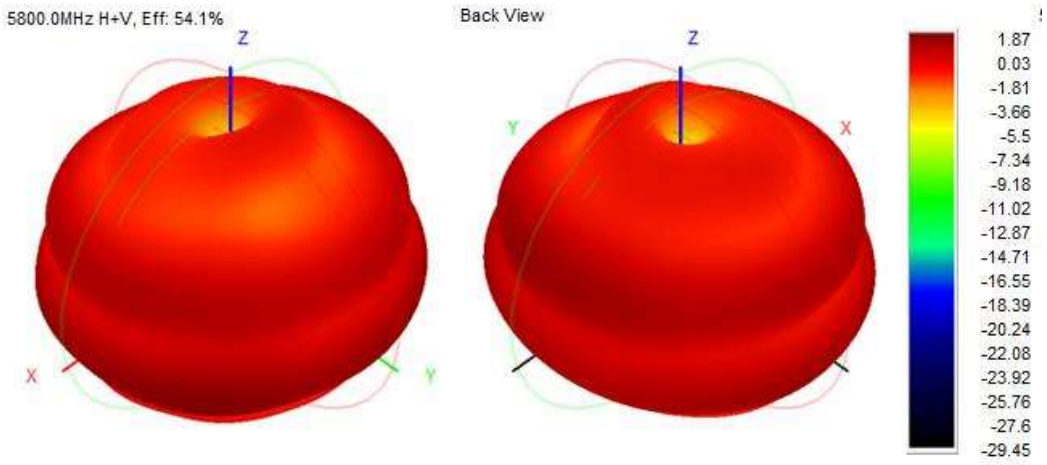



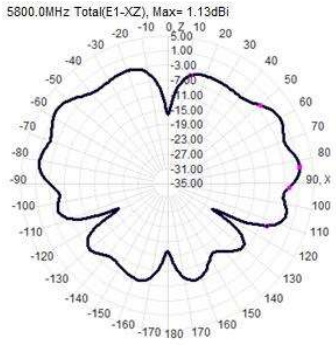

5250MHz

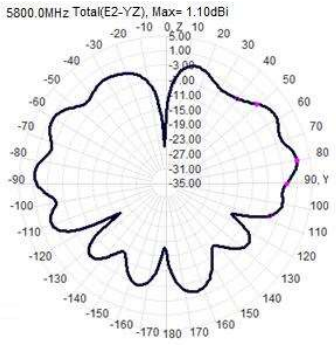


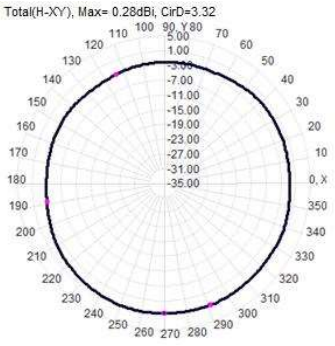



58000MHz


5800.0MHz H+V, Eff: 54.1%
Back View
Z
X
Y
1.87
0.03
-1.81
-3.66
-5.5
-7.34
-9.18
-11.02
-12.87
-14.71
-16.55
-18.39
-20.24
-22.08
-23.92
-25.76
-27.6
-29.45


5800.0MHz Total(E1-XZ), Max= 1.13dBi


5800.0MHz Total(E2-YZ), Max= 1.10dBi


Total(H-XY), Max= 0.28dBi, CirD=3.32