



Shenzhen xingtong wireless technology co.,
Telephone: +86-755-27850514 Fax: +86-0755-27850514
Address: 3/F, Building A1, Qiangrongdong Industrial Zone,
Jiuwei, Xixiang, Baoan District, Shenzhen

Product specification

Product number: S880

Product name: 2.4GHZ/BT-ANT

Product item number:

Producer	Audit	Date
Huangjiajun	Wu Yanlong	2023-12-05

Customer confirmation:

Customer name:
Approval :
Date :
Notes :

Please accept your signature and seal and return one copy to our company for filing. Thank you for your cooperation!



Shenzhen Xingtong Wieress Technology Co., Ltd

Date

2023-12-05

Version

A0

File number

XT-YF-004

Product model

S880-BT-ANT

Product number

S880-BT-2.4GHZ

1.Product Constrution

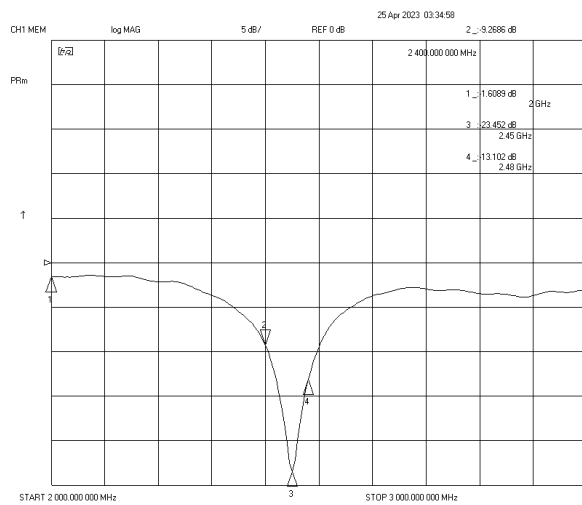
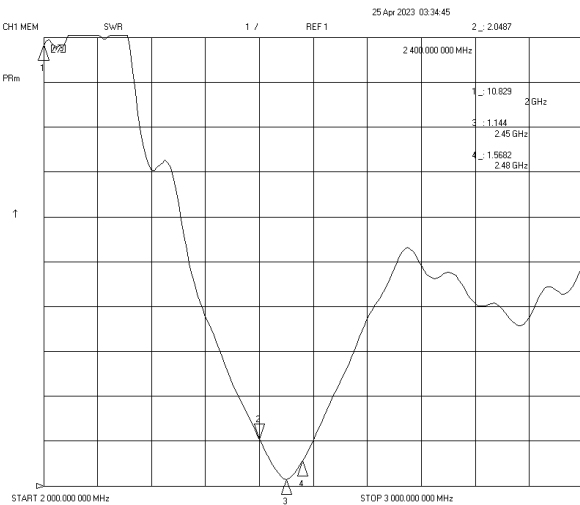
- 1. Antenna material: Phosphorus bronze+gold-plated
- 2. Adhesive type: 3M-9471
- 3. Antenna size: 13.37 * 10.69 * 0.1mm (tolerance ± 0.05)
- 4. Appearance treatment: surface oxidation resistance treatment

2.parameters

- Scope of use: customer-supplied machines
- Antenna frequency: 2.4-2.48Ghz
- Antenna free space gain: 2.4≥0.4dbi
- Installation mode: Top pin connected to antenna
- Packing method: use PE bag+packing box

3.S11 value of antenna

- 3.1: Antenna standing wave ratio/Antenna return loss value



- 3.2: Antenna parameters

Frequency point	2400mhz	2450mhz	2480mhz
SWR(dbm)	2.0	1.1	1.5
LOG (dbm)	-9.26	-23.4	-13.1



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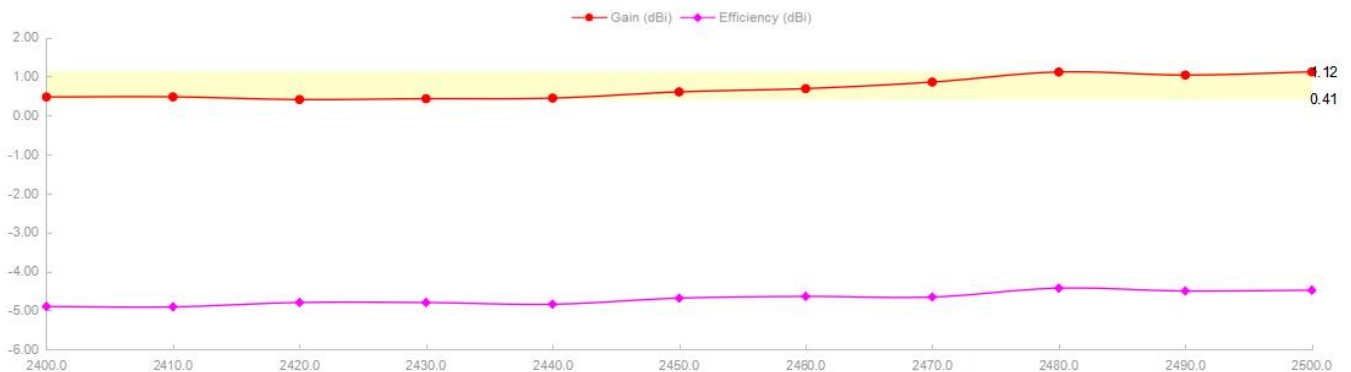
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4. Antenna performance (OTA)

- 4.1: Antenna matching recommendations
Vector impedance modulation can be performed.
- 4.2: Antenna OTA/ efficiency/gain (test instruments: network analyzer, oscilloscope, customer engineering prototype, various standard cards, etc.)

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-4.90	-4.91	-4.80	-4.80	-4.84	-4.69	-4.64	-4.66	-4.43	-4.50	-4.48
Gain (dBi)	0.47	0.48	0.41	0.43	0.45	0.60	0.69	0.86	1.11	1.04	1.12
Efficiency (%)	32.35	32.29	33.13	33.12	32.80	33.99	34.34	34.23	36.06	35.46	35.62
Directivity (dB)	4.43	4.73	5.01	5.13	5.29	5.29	5.33	5.51	5.55	5.54	5.60
Peak Gain Position (Theta)	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00
Peak Gain Position (Phi)	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00
Efficiency ThetaPol (%)	14.50	14.50	15.15	15.37	15.42	15.94	16.20	16.50	17.37	17.18	17.36
Efficiency PhiPol (%)	17.86	17.79	17.98	17.75	17.38	18.05	18.14	17.73	18.68	18.28	18.26
Upper Hem. Efficiency (%)	17.51	17.43	17.83	17.77	17.52	18.05	18.25	18.25	19.35	19.14	19.30
Lower Hem. Efficiency (%)	14.84	14.86	15.30	15.35	15.28	15.94	16.09	15.97	16.71	16.32	16.33





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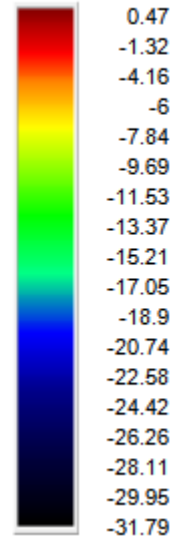
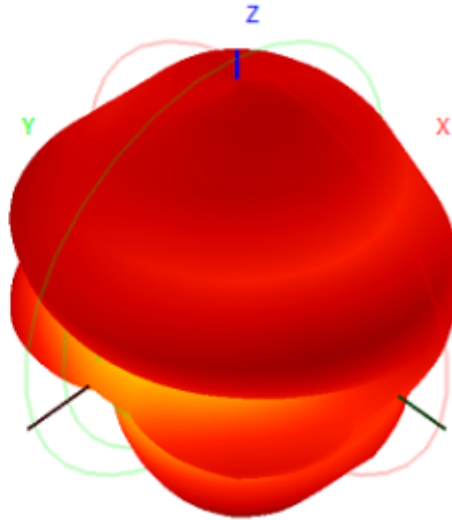
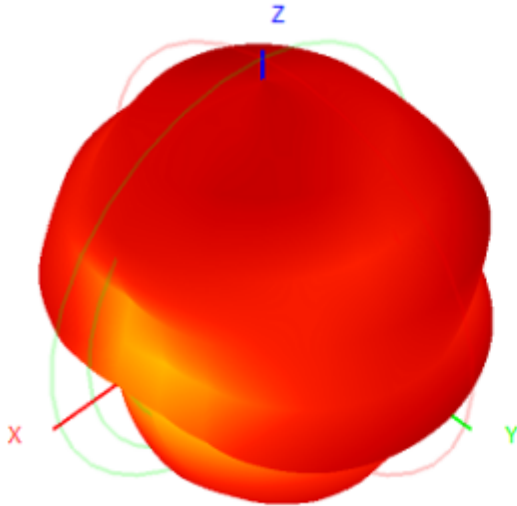
S880-BT-2.4GHZ

4.3: Antenna OTA-2.4G-3D

2.4GHz: Maximum gain 0.47dBi

2400.0MHz H+V, Eff: 32.4%

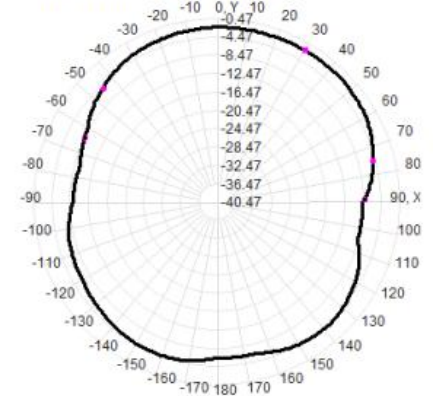
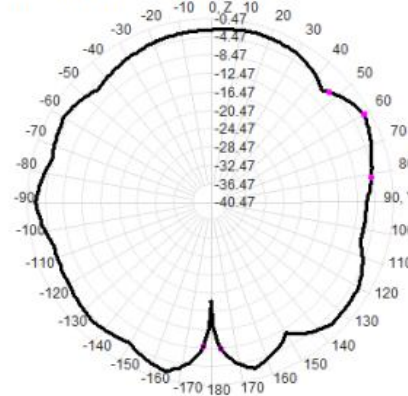
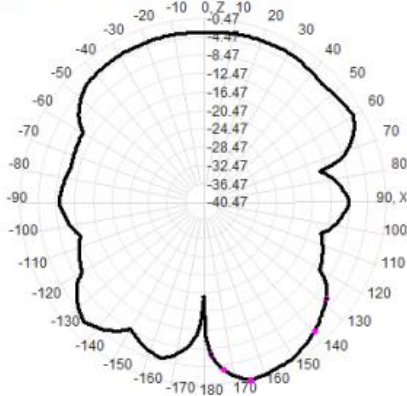
Back View



2400.0MHz Total(E1-XZ), Max= 0.47dBi

2400.0MHz Total(E2-YZ), Max=-2.02dBi

Total(H-XY), Max=-2.30dBi, CirD=7.30





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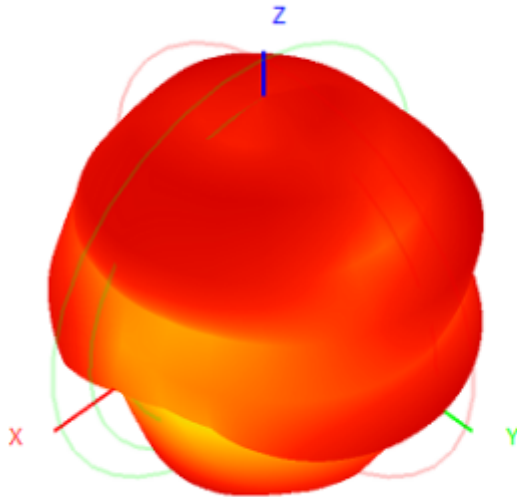
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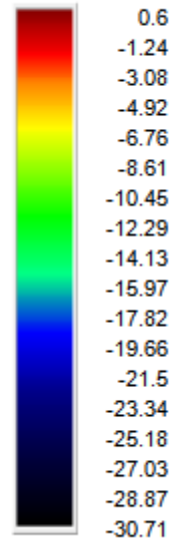
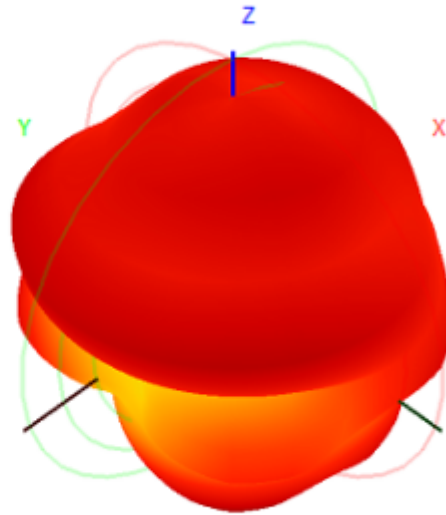
S880-BT-2.4GHZ

2.45GHz: Maximum gain 0.6dBi

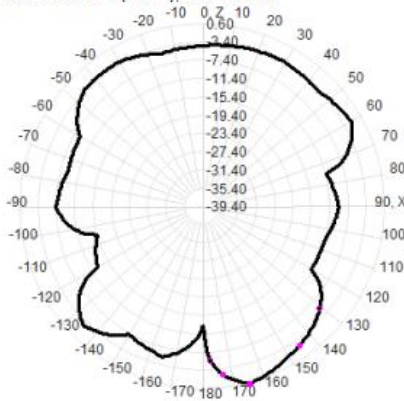
2450.0MHz H+V, Eff: 34.0%



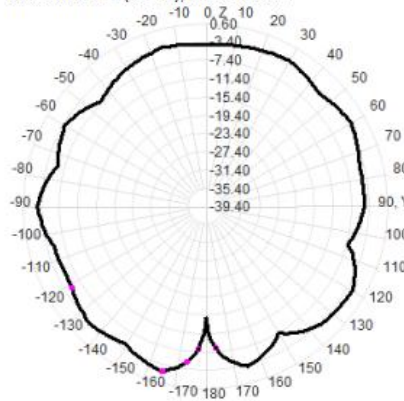
Back View



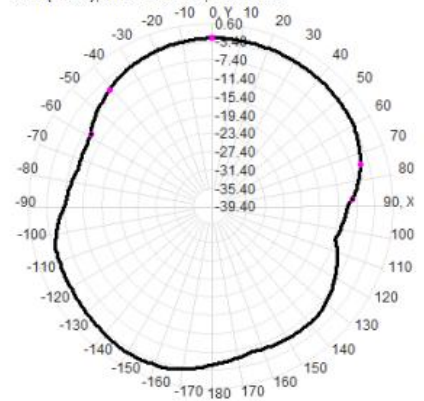
2450.0MHz Total(E1-XZ), Max= 0.60dBi



2450.0MHz Total(E2-YZ), Max= -2.19dBi



Total(H-XY), Max= -2.55dBi, CirD=8.86





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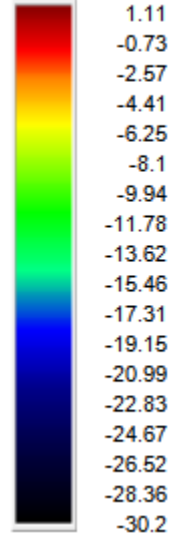
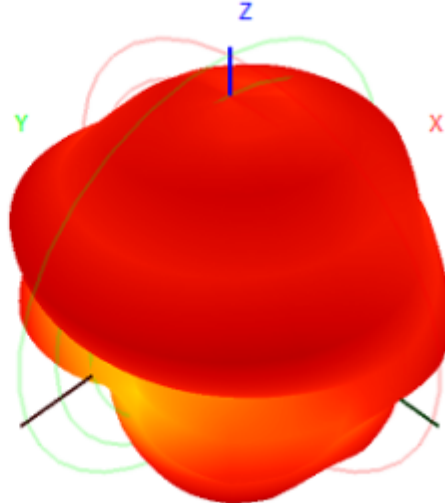
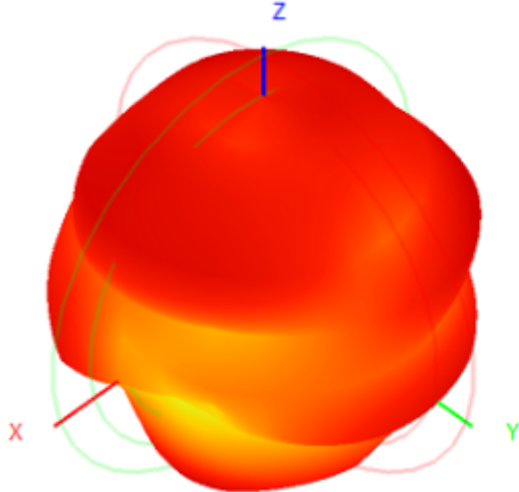
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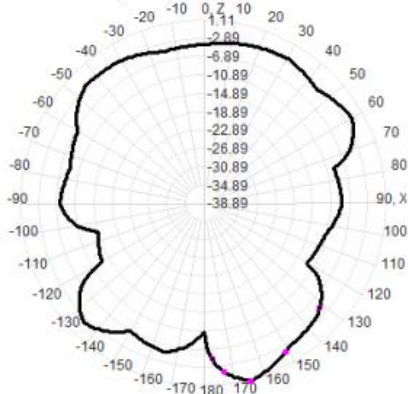
2.48GHz: Maximum gain 1.11dBi

2480.0MHz H+V, Eff: 36.1%

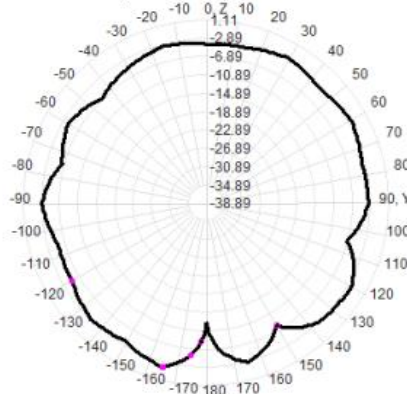
Back View



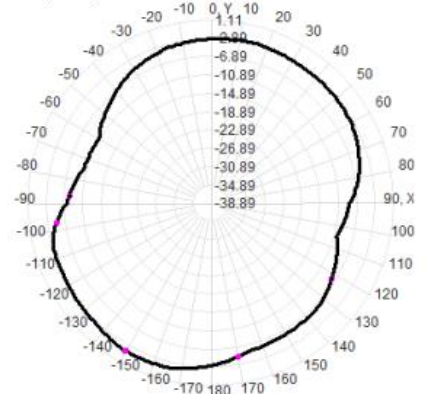
2480.0MHz Total(E1-XZ), Max= 1.11dBi



2480.0MHz Total(E2-YZ), Max= -2.06dBi

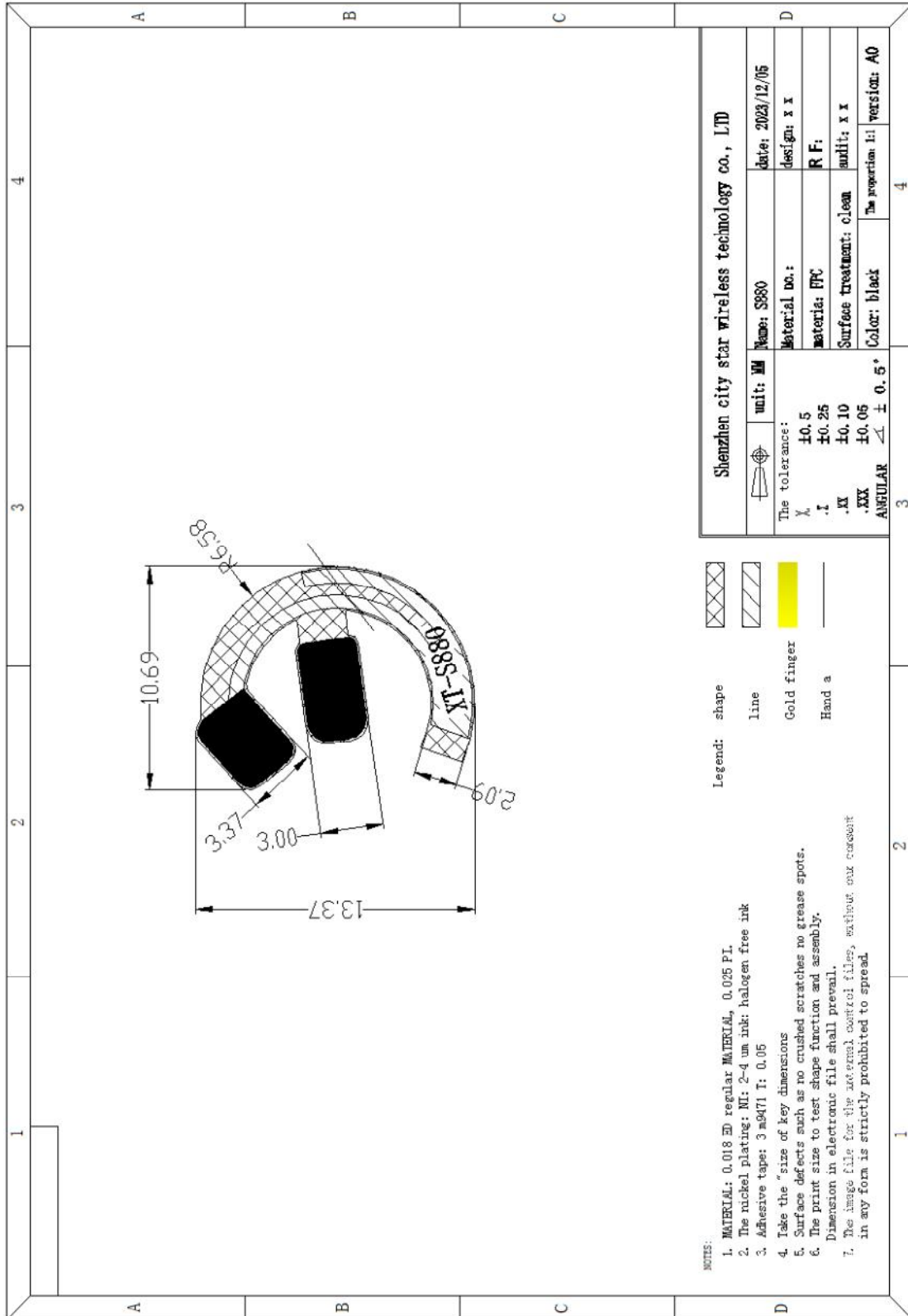



Total(H-XY), Max= -1.80dBi, CirD=8.95



5. Figure:

■ 5.1: Finished antenna drawing



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6 Matters needing attention



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