



深圳市赛维通讯科技有限公司

Shenzhen Sunwin Telecommunication Technology Co., LTD.

Antenna Specifications

承 认 书

CUSTOMER 客户		吉录	
CS P/N 项目名		R16	
P/N 编号		VTL100-R16-F	
Checked by(RF)	Checkedby(QA)	Approval led by	Date
Customer Approval 客户确认			

Add: Room 401, West Tower, Building No.211, Tairan Industry & Trade Park, Chegongmiao, Futian District, Shenzhen City, Guangdong Province, P.R. China

Tel: 0755-66630456

Fax: 0755-66630458

Email: sunwin_vip@163.com



深圳市赛维通讯科技有限公司

Shenzhen Sunwin Telecommunication Technology Co., LTD.

Index

1	Specifications.....	3
2	Impadance.....	4
3	Active Measurements.....	6
4	Mechanical Properties.....	7
5.	Environmental Characteristic.....	8

Add: Room 401, West Tower, Building No.211, Tairan Industry & Trade Park, Chegongmiao, Futian District, Shenzhen
City, Guangdong Province, P.R. China

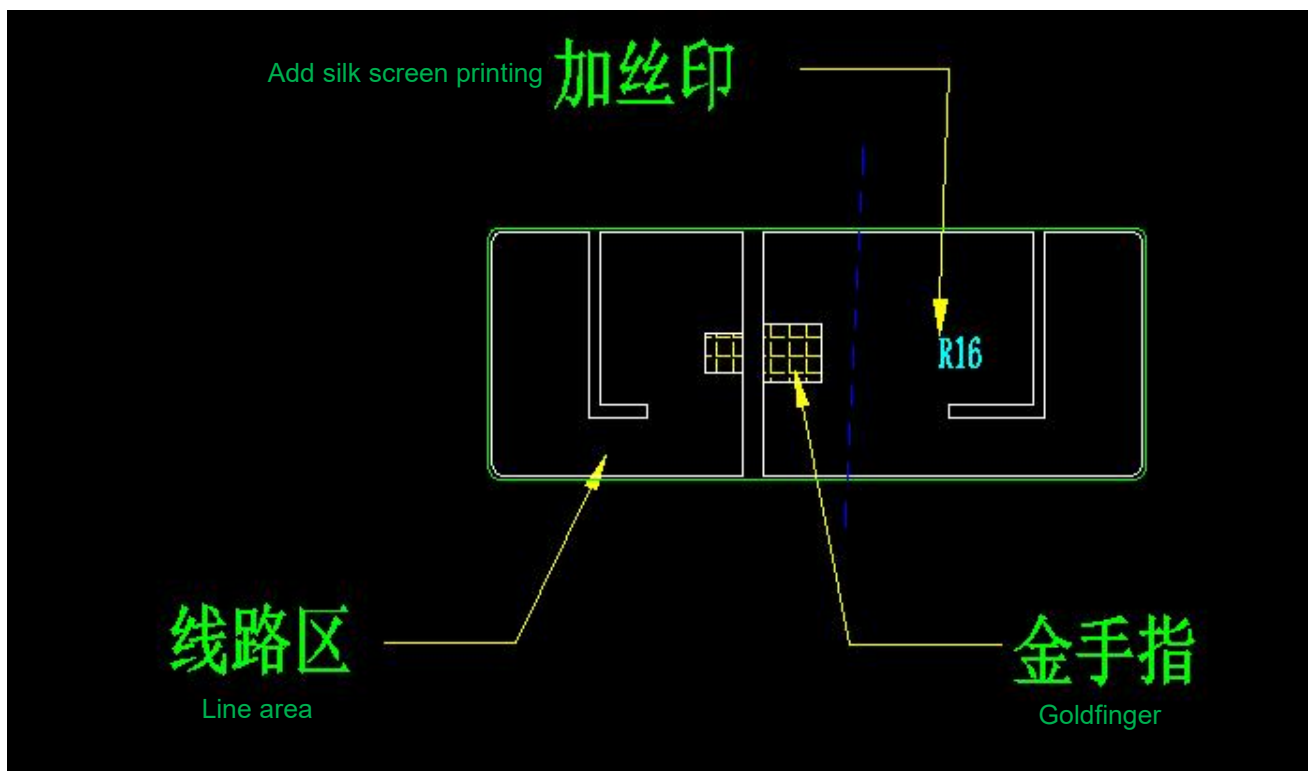
Tel: 0755-66630456

Fax: 0755-66630458

Email: sunwin_vip@163.com

1.Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna - R16 Figure 2-1 shows the antenna designed by SW & The fixturing of R16



2.Impedance

2.1Nominal

Nominal Impedance(including matching circuit) : 50 ohms

2.2Matching Circuit

The matching circuit is as Figure 2-2.

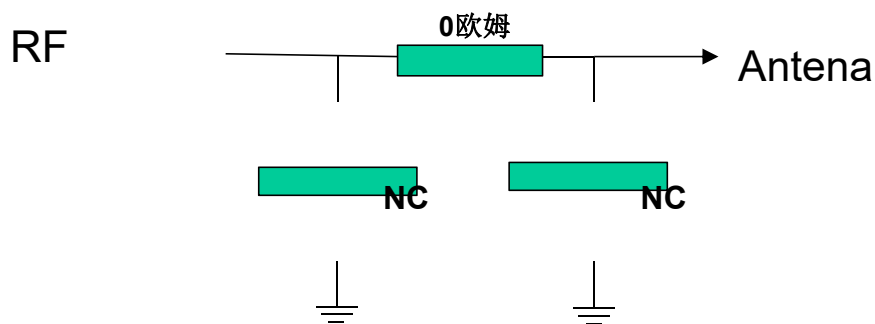


Figure 2-2: Matching circuit

3. Active Measurements

Active Measurements Data

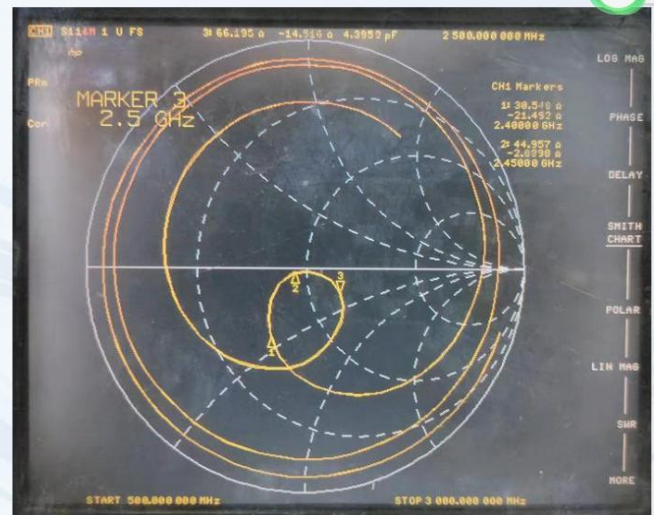
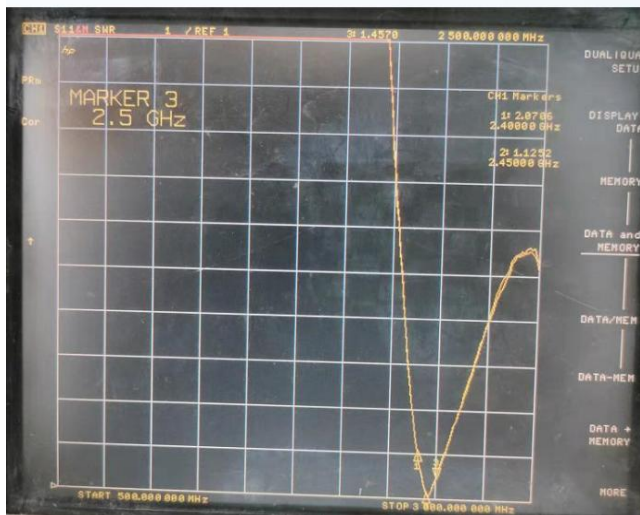
Total Radiated Power (TRP) and Total Isotropic Sensitivity (TIS) of the handsets with antenna are tested in the antenna chambers .

hamber Test Data

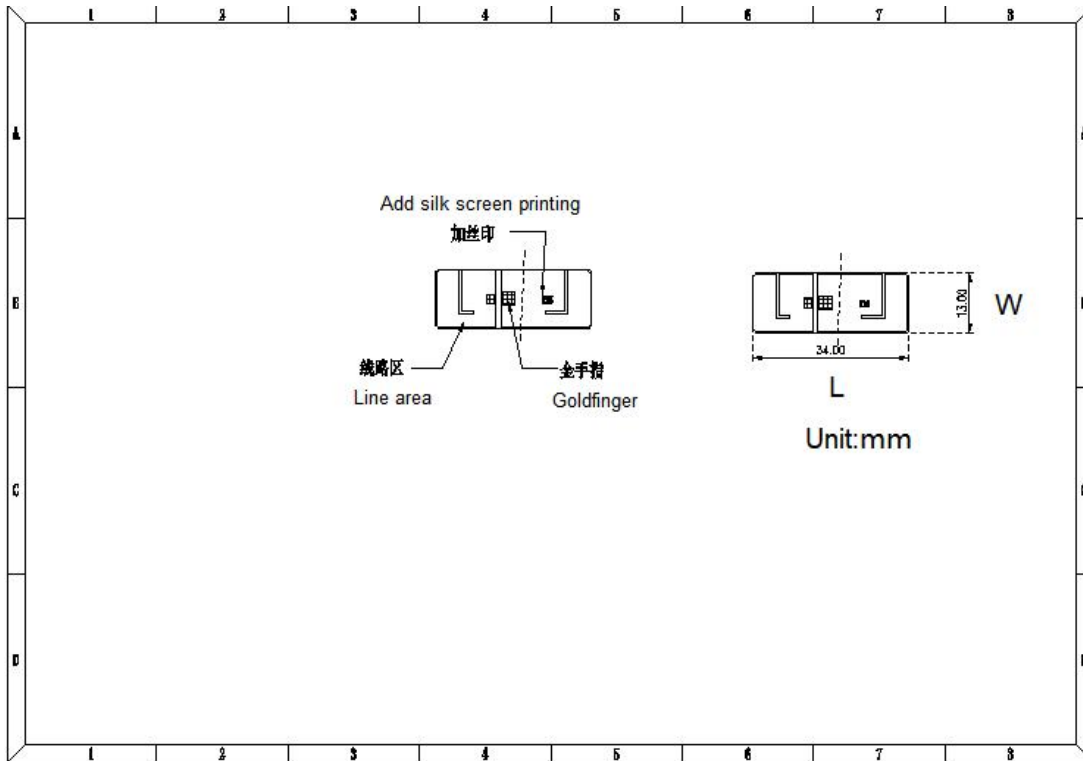
FEITUKE II											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-2.72	-2.70	-2.75	-2.88	-3.05	-3.12	-3.21	-3.30	-3.36	-3.32	-3.34
Peak EIRP (dBm)	2.27	2.48	2.61	2.58	2.38	2.23	2.20	2.15	2.41	2.32	2.20
Directivity (dBi)	4.99	5.18	5.36	5.46	5.43	5.35	5.41	5.46	5.77	5.64	5.54
Efficiency (dB)	-2.72	-2.70	-2.75	-2.88	-3.05	-3.12	-3.21	-3.30	-3.36	-3.32	-3.34
Efficiency (%)	53.50	53.70	53.10	51.50	49.50	48.80	47.80	46.70	46.10	46.60	46.30
Gain (dBi)	2.27	2.48	2.61	2.58	2.38	2.23	2.20	2.15	2.41	2.32	2.20
NHPRP $\pm$ Pi/4 (dBm)	-5.12	-5.09	-5.16	-5.27	-5.46	-5.54	-5.64	-5.79	-5.90	-5.91	-5.96
NHPRP $\pm$ Pi/6 (dBm)	-7.01	-6.98	-7.04	-7.15	-7.35	-7.45	-7.57	-7.74	-7.86	-7.84	-7.88
NHPRP $\pm$ Pi/8 (dBm)	-10.41	-10.38	-10.43	-10.51	-10.79	-10.95	-11.16	-11.38	-11.49	-11.42	-11.39
Upper Hem. PRP (dBm)	-6.37	-6.33	-6.40	-6.58	-6.84	-6.94	-7.02	-7.11	-7.19	-7.14	-7.20
Lower Hem. PRP (dBm)	-5.17	-5.16	-5.20	-5.29	-5.40	-5.45	-5.54	-5.64	-5.68	-5.65	-5.64
Upper Hem. PRP (%)	23.08	23.28	22.93	21.97	20.72	20.23	19.88	19.45	19.08	19.34	19.06
Lower Hem. PRP (%)	30.38	30.45	30.20	29.58	28.81	28.53	27.92	27.28	27.04	27.25	27.29

SWR

SMITH



4 Mechanical Properties



Cable: L:57mm±0.5mm, Diameter:0.8±0.1mm

Add: Room 401, West Tower, Building No.211, Tairan Industry & Trade Park, Chegongmiao, Futian District, Shenzhen City, Guangdong Province, P.R. China

Tel: 0755-66630456

Fax: 0755-66630458

Email: sunwin_vip@163.com



深圳市赛维通讯科技有限公司

Shenzhen Sunwin Telecommunication Technology Co., LTD.

5. Environmental Characteristic

Test Item	Test description
1. Low Temperature	Temp.: -20 °C Time: 24 hours
2. High Temperature	Temp.: 80°C Time: 24 hours
3. Salt Fog	5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1°C Time:24 hours

Add: Room 401, West Tower, Building No.211, Tairan Industry & Trade Park, Chegongmiao, Futian District, Shenzhen City, Guangdong Province, P.R. China

Tel: 0755-66630456

Fax: 0755-66630458

Email: sunwin_vip@163.com