

1.Electrical specification requirements for antennas

Test project	testing environment	Tianma 1.77 specification				
		Min	Typ	Max	Units	Notes
chip type	—	—	—	—	—	捷联 6567P
Antenna frequency	—	13.41	13.56	13.71	MHz	+/-150k
Antenna inductance (single antenna)	1 MHz	1.21	1.24	1.27	μH	+/-3%
antenna impedance	1 MHz	0.62	0.82	1.02	Ω	+/-0.2 Ω
Ferrite permeability u '	13.56 MHz	135	150	165		+/-10%
Ferrite magnetic loss μ "	13.56 MHz	—	—	5	—	<5

LCR control

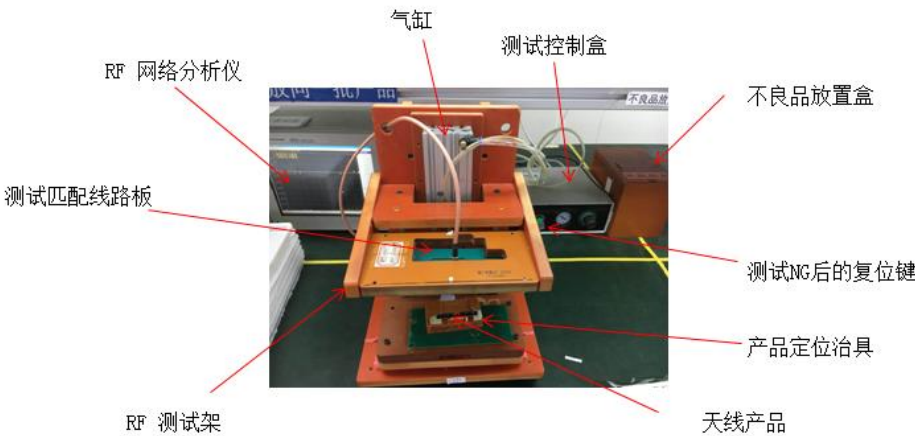
Control range: Inductance at 1MHz: $\pm 3\% \mu H$

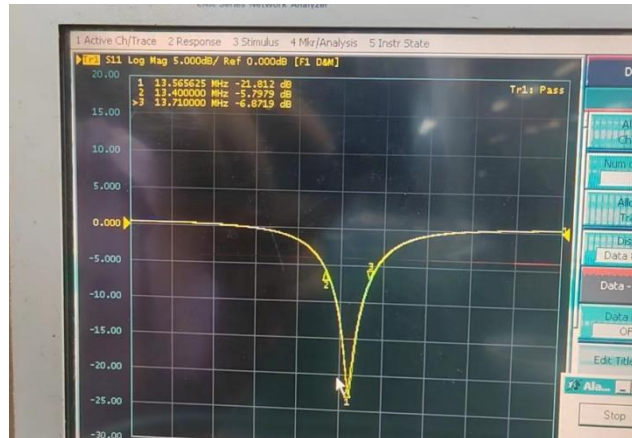
Resistance at 1MHz: $\pm 0.3 \Omega$

S11 Control

Control range: $13.56 \pm 0.15\text{MHz}$

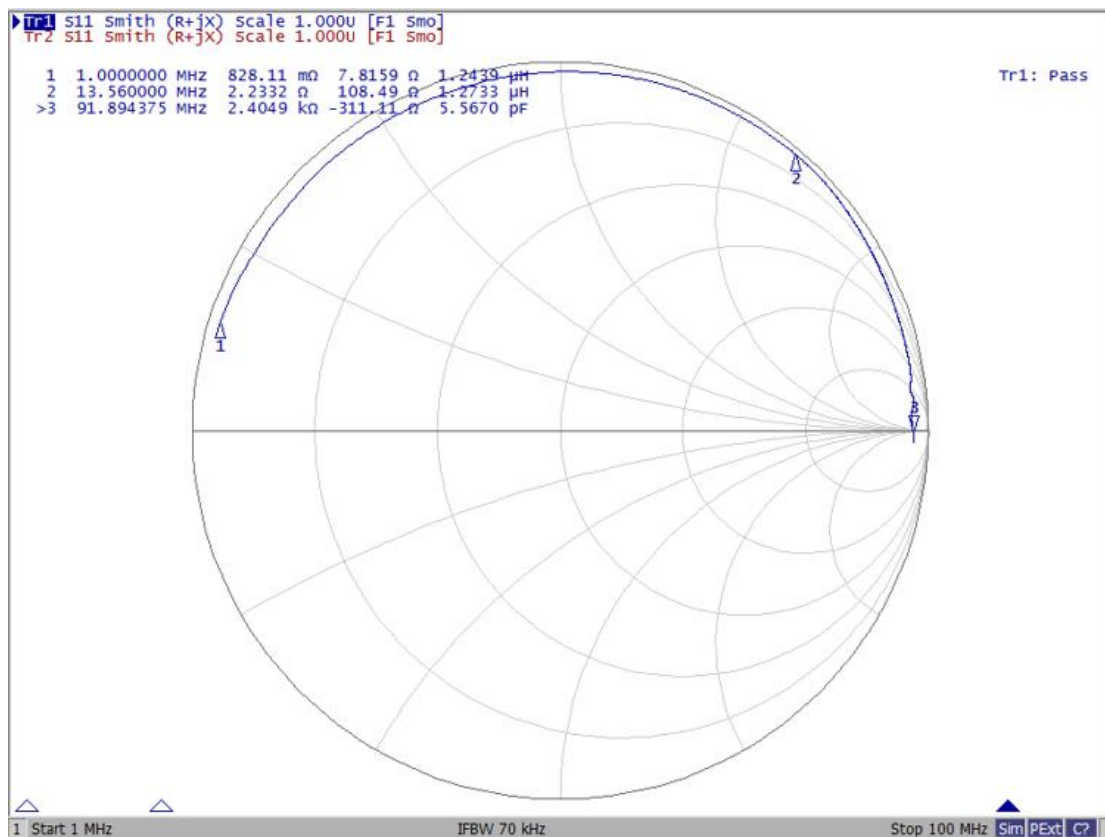
S11 管控方式





Control range: Minimum frequency point $\pm 0.15\text{MHz}$

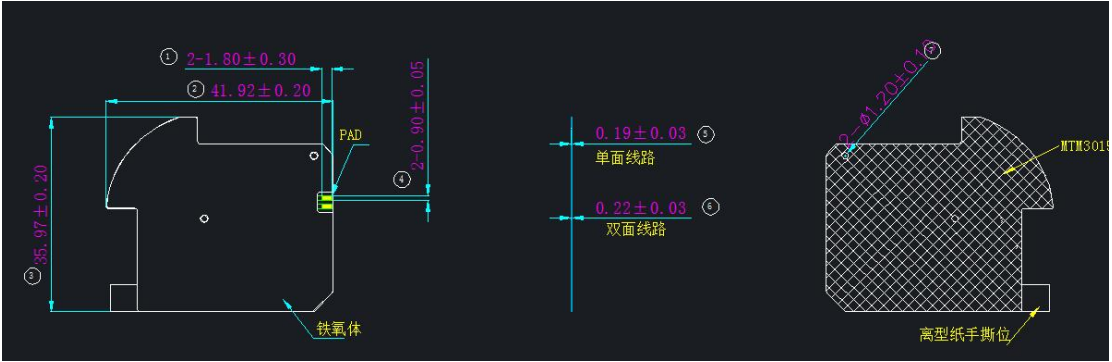
2. Single antenna parameter Smith chart



3.NFCActive performance

读卡类型： 手机终端	iPhone 14 Pro	17mm
	Xiaomi 12S pro	25mm
卡模拟	30mm	

Size



Model: F2001

Manufacturer: Dongguan Demen Electronics Co., Ltd.