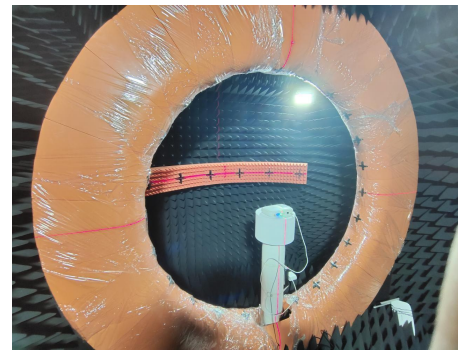


## InB-FB58-150-FME 4G Full-band Antenna

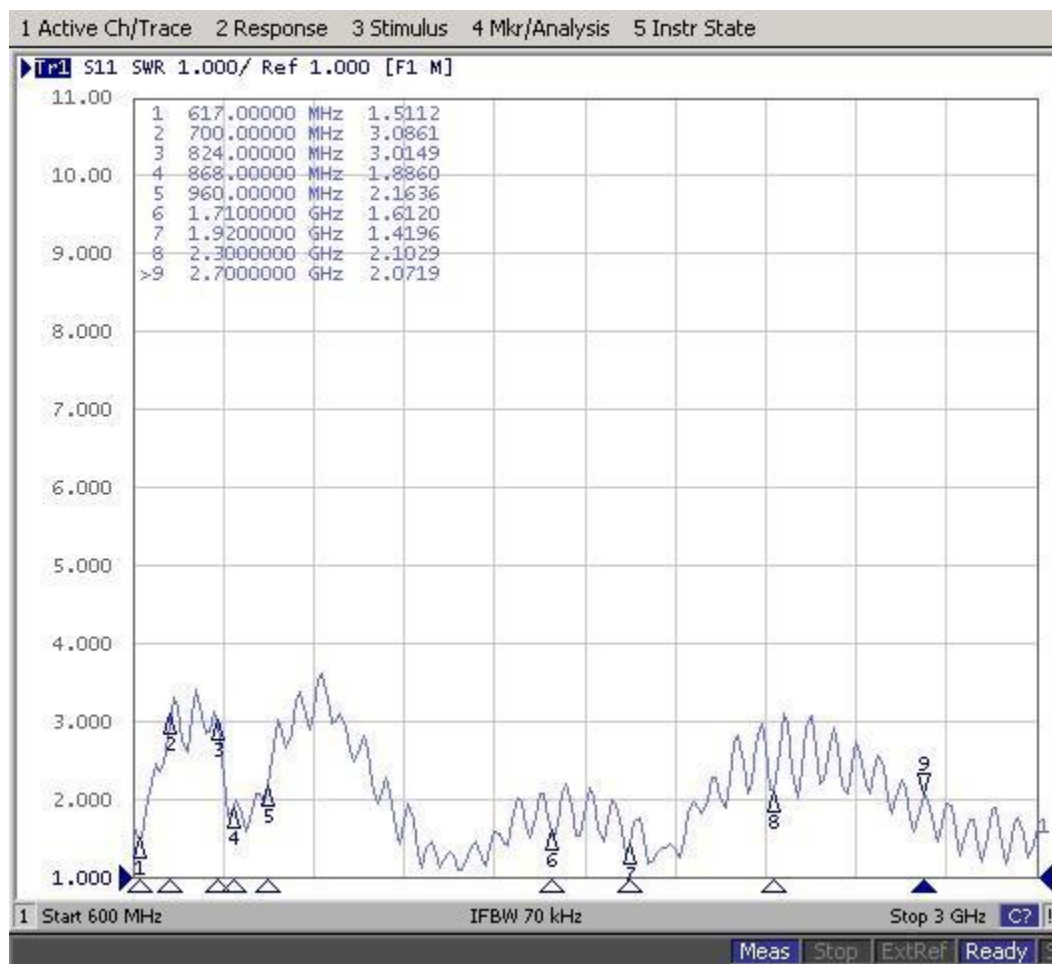


### I. Test Items and Equipment

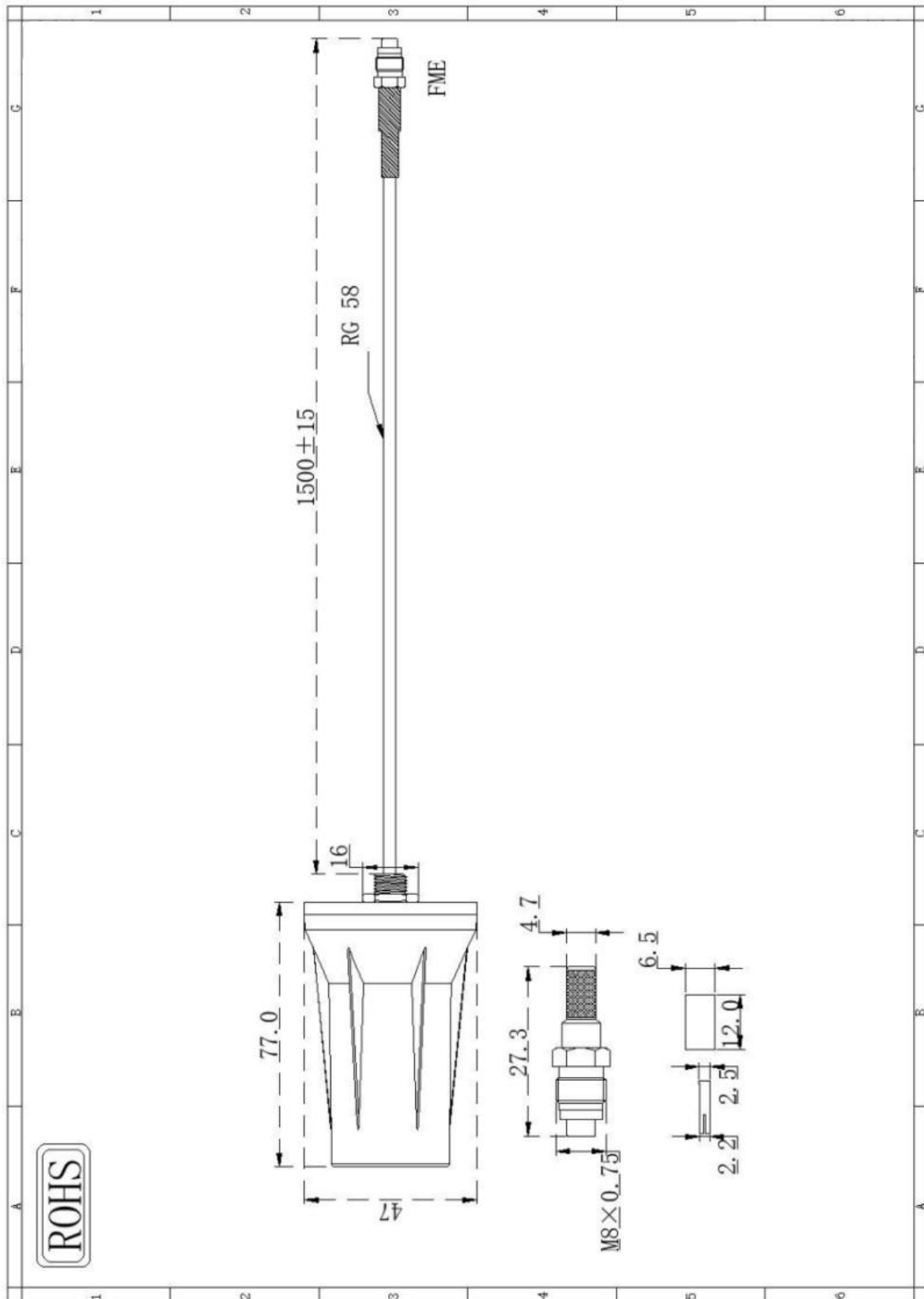
	Test Items	Equipment
1. S11 Parameters	1. Return Loss 2. VSWR	1. Network Analyzer: Agilent E5071B HP 8753D
2. Active Test	1. Transmitting Power (TRP) 2. Receiving Sensitivity (TIS)	1. Dark Room: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Comprehensive Test Instrument: Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3. Passive Test	1. Gain 2. Antenna Efficiency	1. Dark Room: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Network Analyzer: Agilent E5071B HP 8753D



## II. Antenna Performance SWR



## III. Antenna Structure Diagram



## IV. Antenna Specs

Electrical Specifications	
Frequency Range	698~960/1710~2690MHz
VSWR	≤3.0
Input Impedance	50 Ω
Gain	6dBi
Mechanical Specifications	
Wire color	Black
Input connector	FME female connector
Cable	RG58
Cable length	1.5m
Working Temperature	-40°C~+85°C
Working Humidity	20~80%

## V. Environment Performance Test

Items	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as followings: 1. Temperature: -30°C~+80°C 2. Relative humidity: 45%-85% 3. Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40°C to 70°C, then in common condition 1~2 hours and test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity:95±3%, Test temperature: 40°C, lasts for 2 hours, then take it out and test the electrical function within 5mins. Test products during common condition 1~2 hours , then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency: 10-55Hz, Distance: 0.35mm, Acceleration: 50.0m/s, Sweep frequency cycle: 30 times	Electrical and mechanical performance normal
Fall test	From 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal