

INTRODUCTION

1. GENERAL DESCRIPTION

AIR WAVE P/N
EA-336M

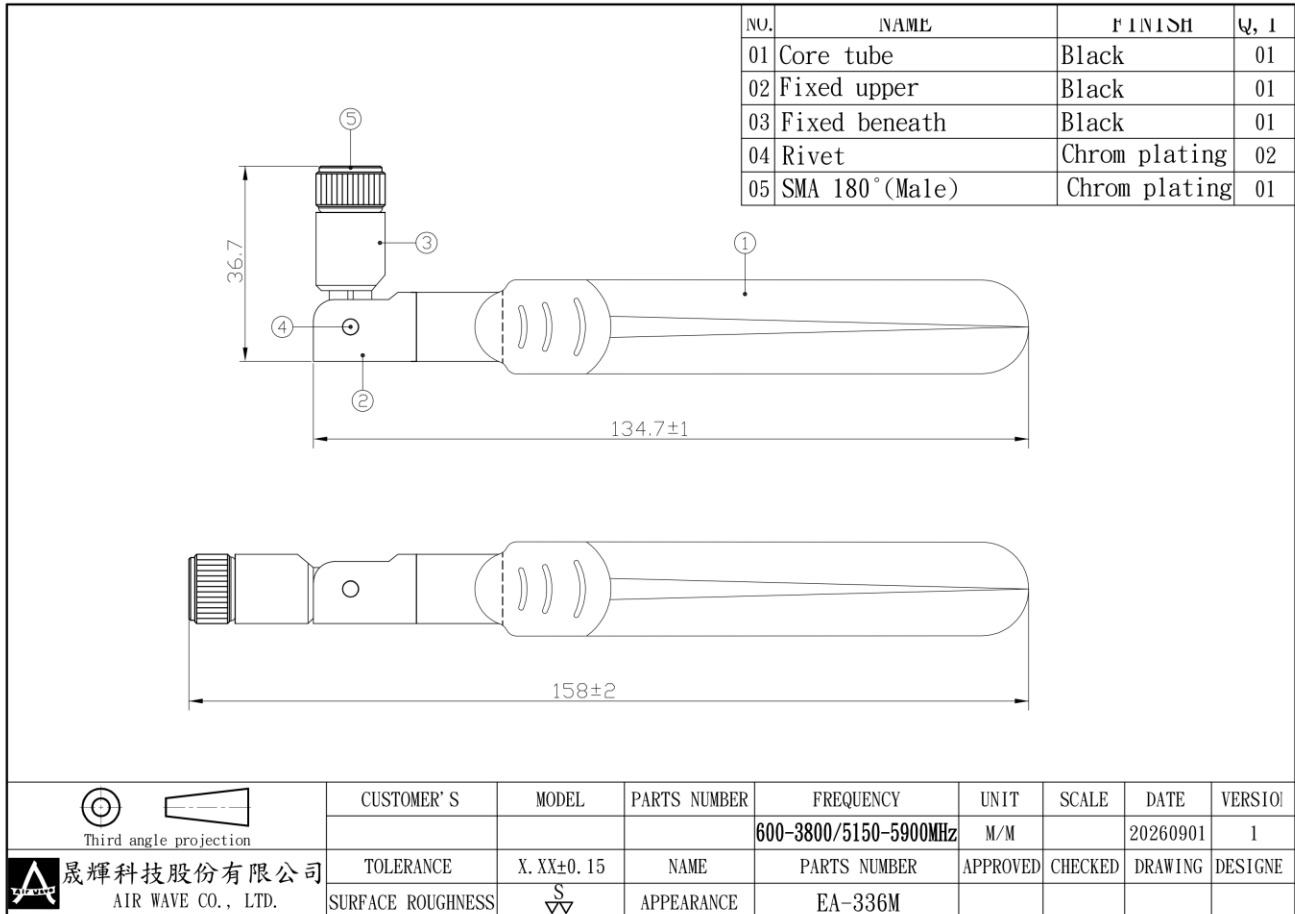
1.1 Electrical Properties

Parameter	Description
Frequency Band	600-3800/5150-5900MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	7.5 : 1

1.2 Mechanical Properties

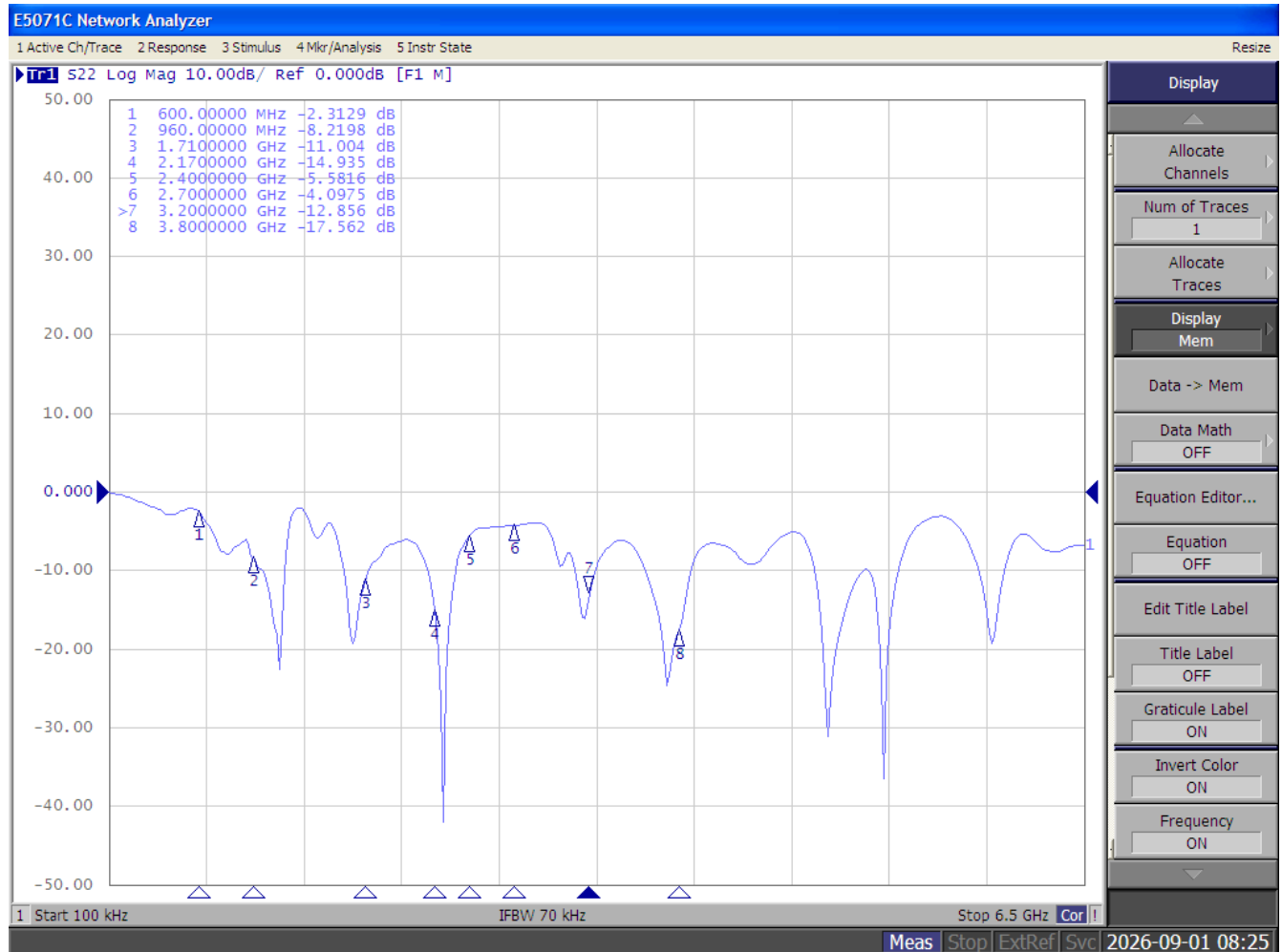
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA 180°(Male)
Antenna Dimensions	158mm±2
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C
Storage Temperature Range	-30°C~+70°C

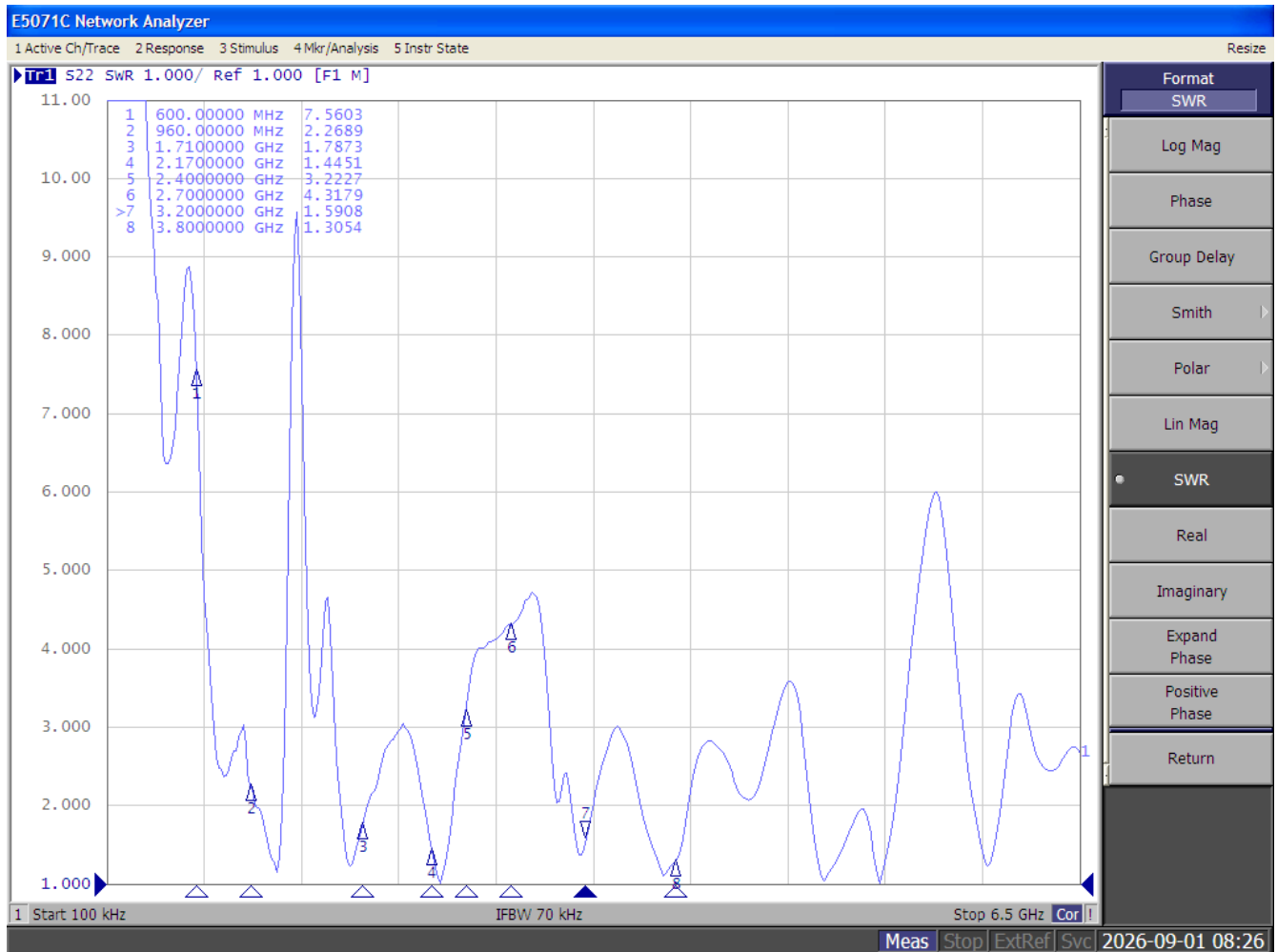
2. APPEARANCE:

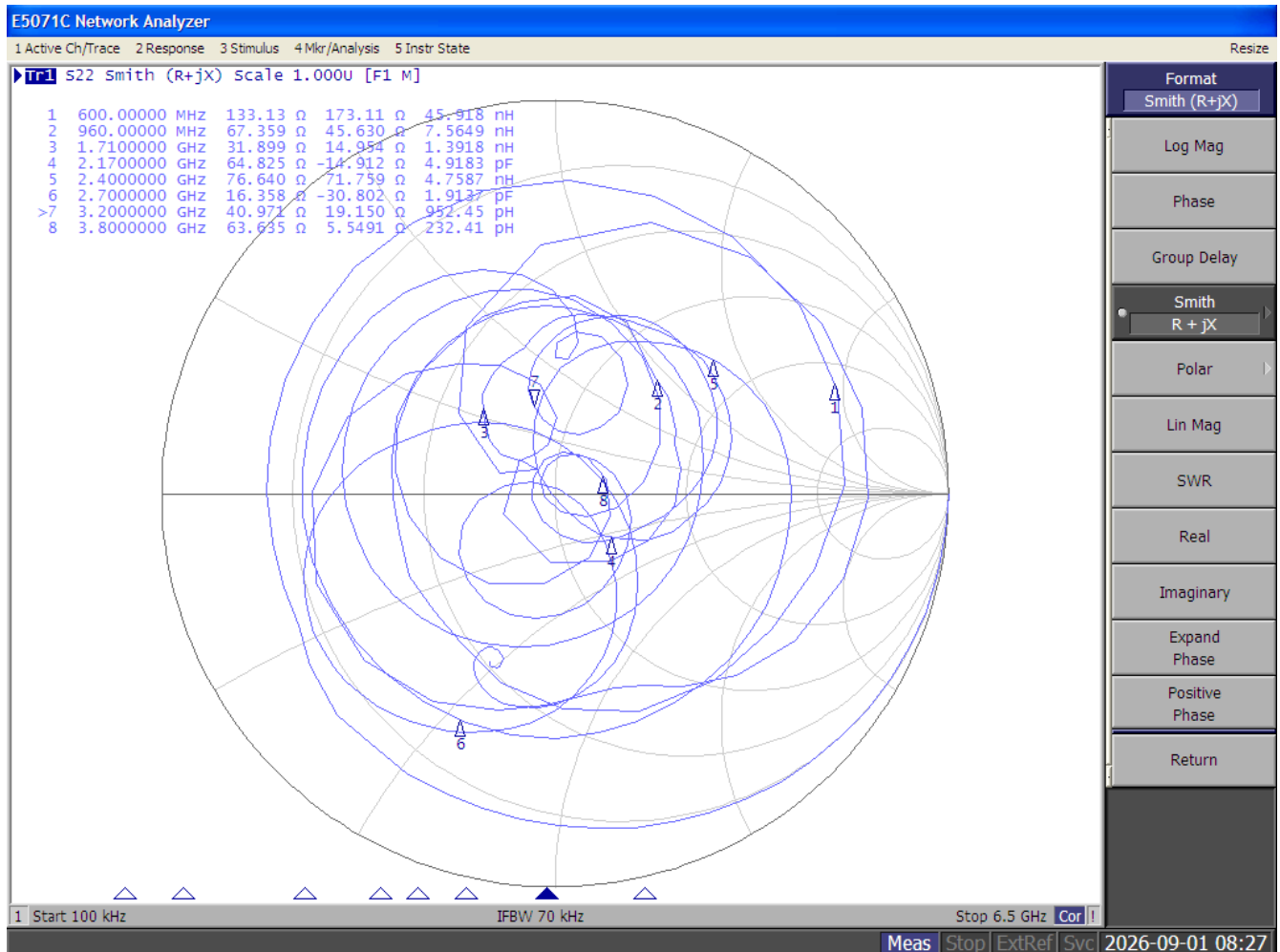


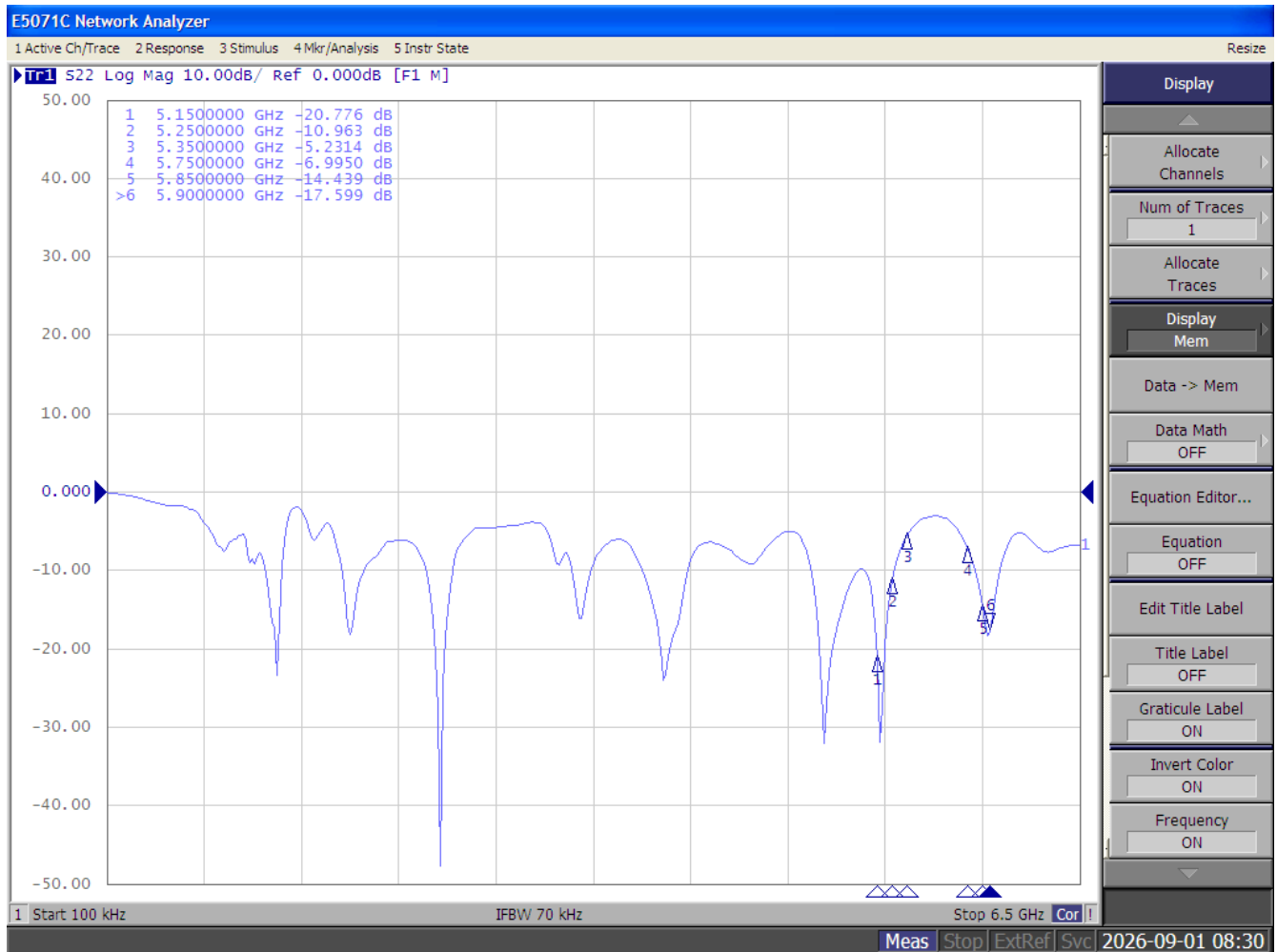


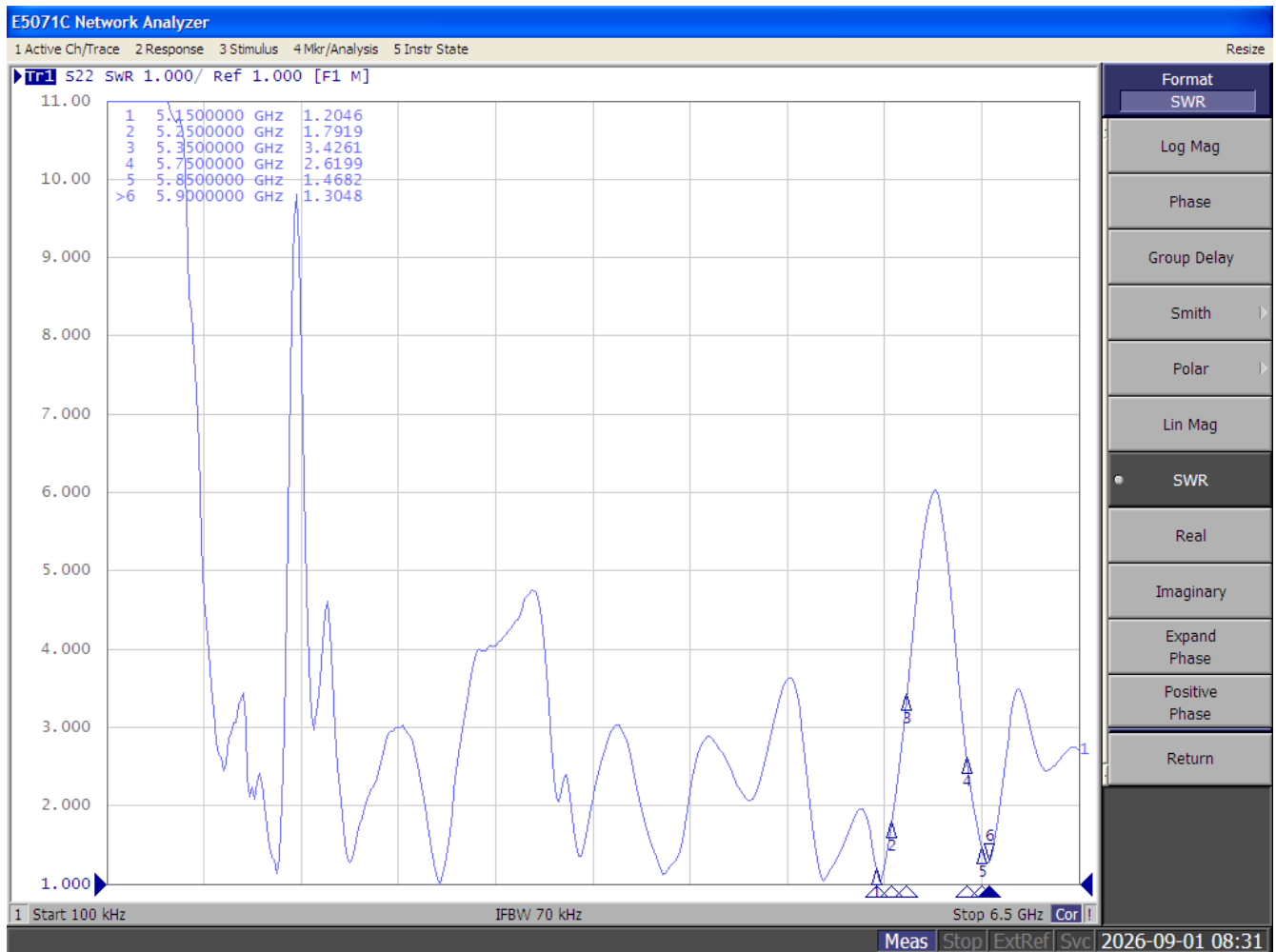
3. Return Loss, V.S.W.R. and Smith Chart

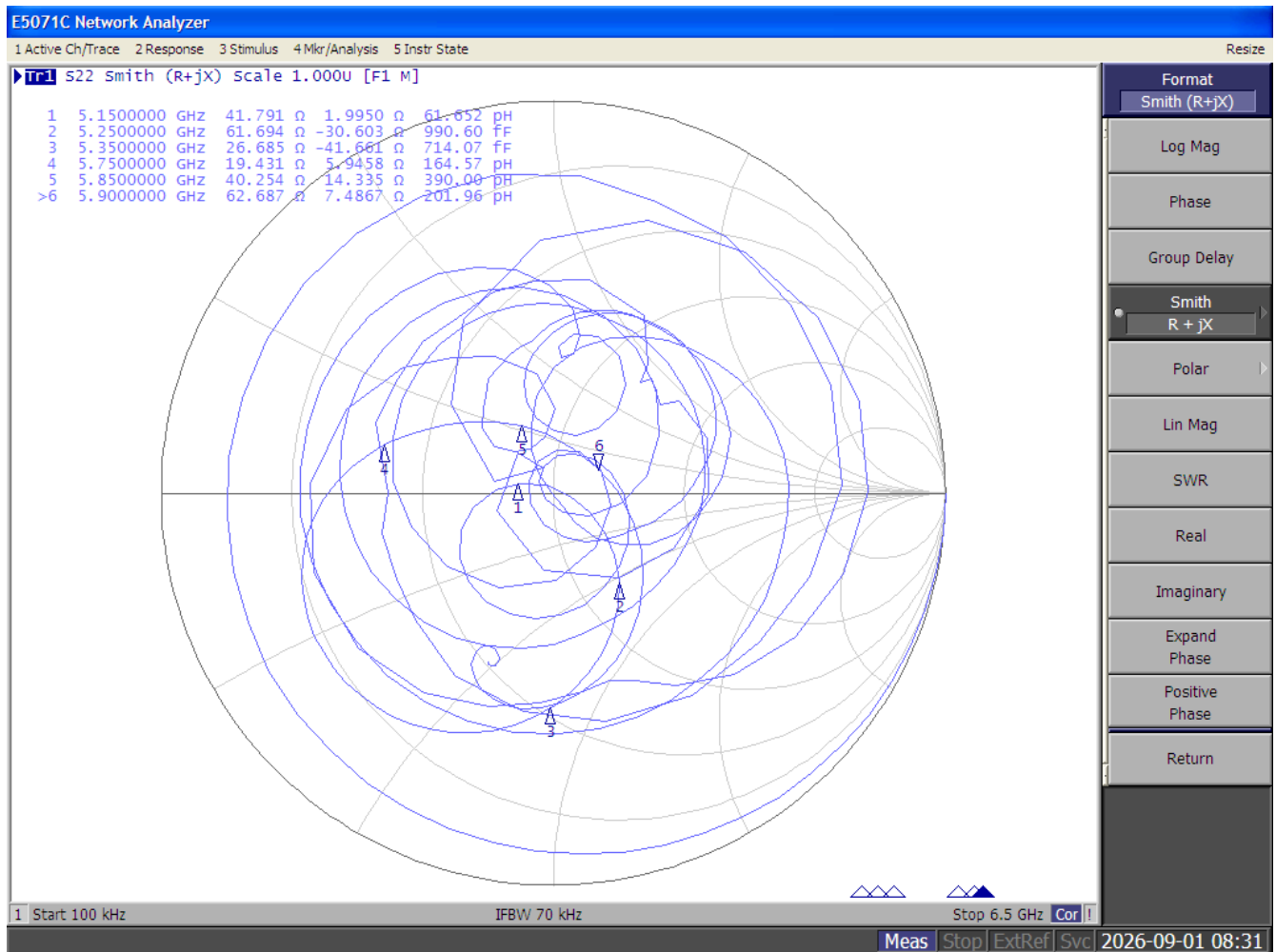




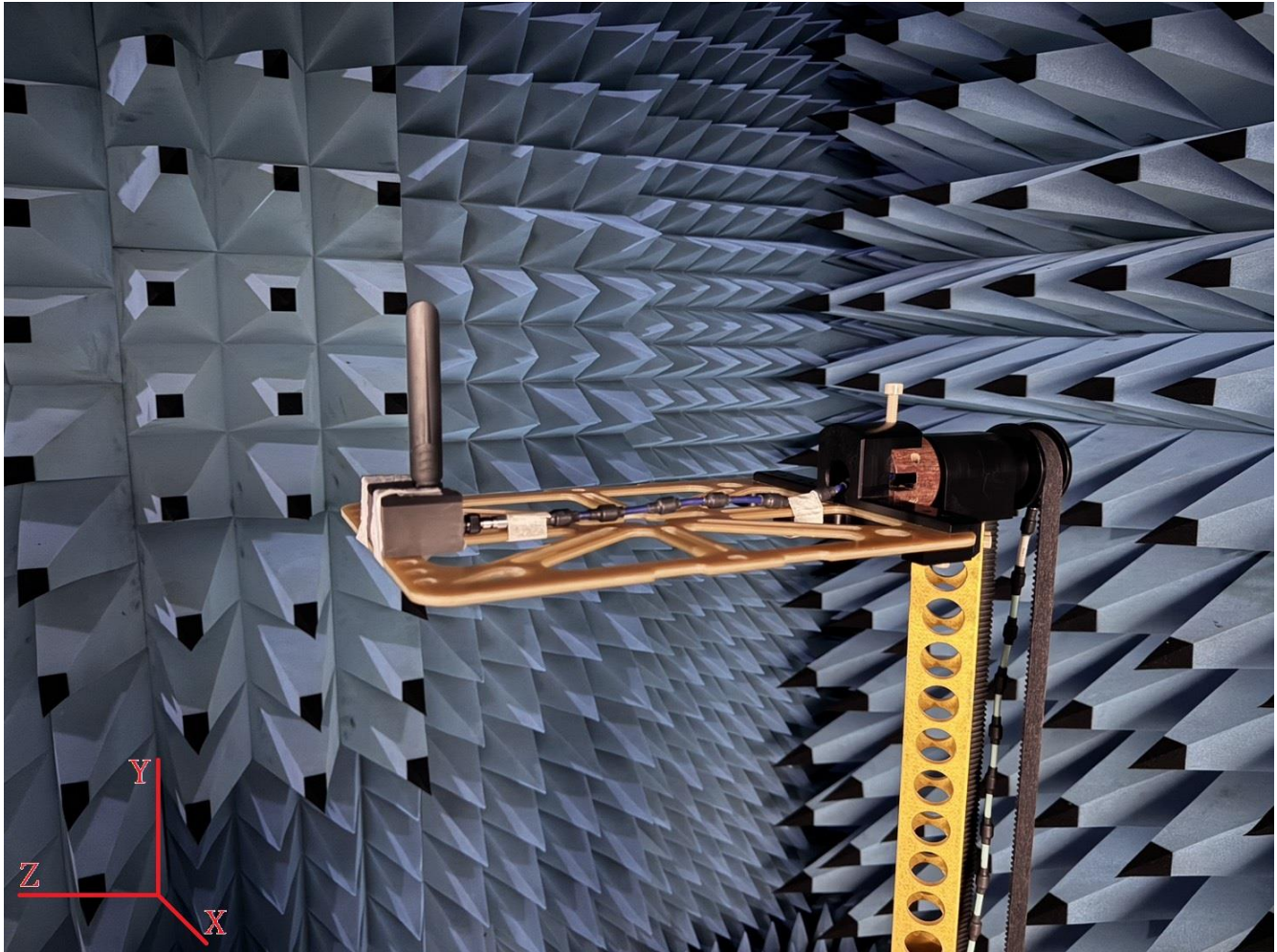








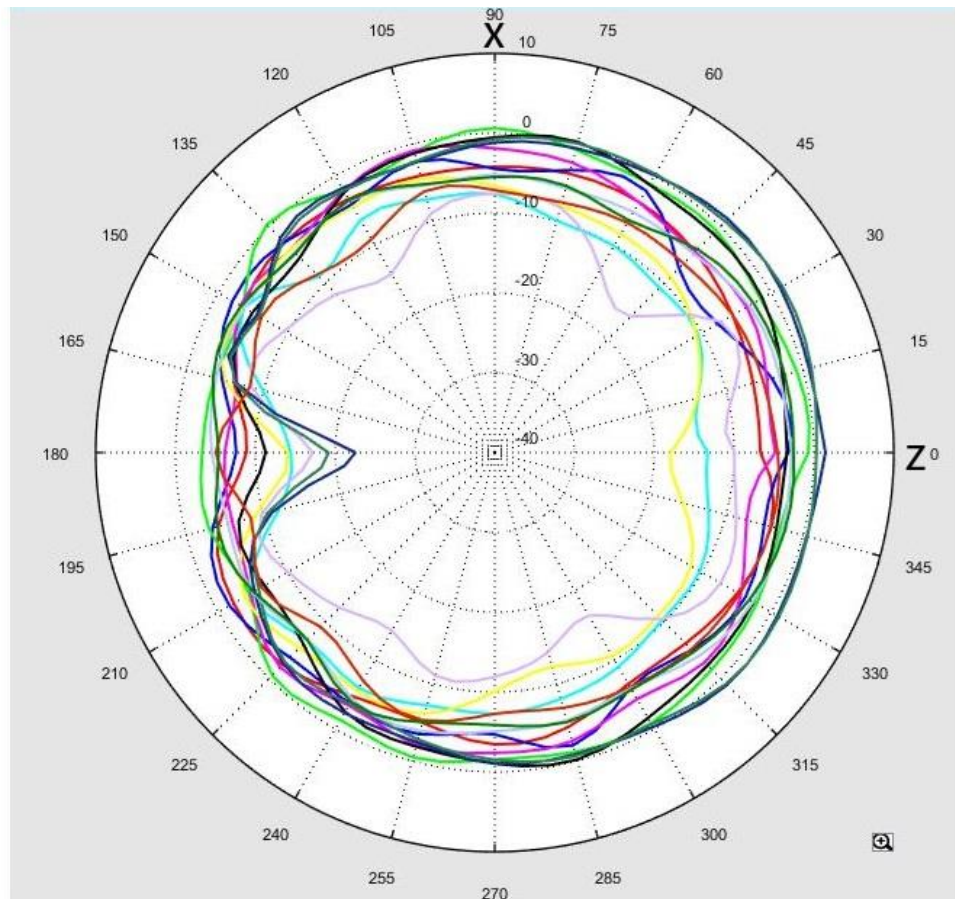
3. Test Environment





4.Radiation Pattern:

Freq. / Chan.	Color
600MHz	Red
960MHz	Blue
1.71GHz	Green
2.17GHz	Magenta
2.5GHz	Cyan
2.7GHz	Yellow
3.2GHz	Black
3.8GHz	Purple
5.15GHz	Dark Blue
5.25GHz	Dark Green
5.75GHz	Dark Red
5.85GHz	Light Blue
5.9GHz	Dark Green

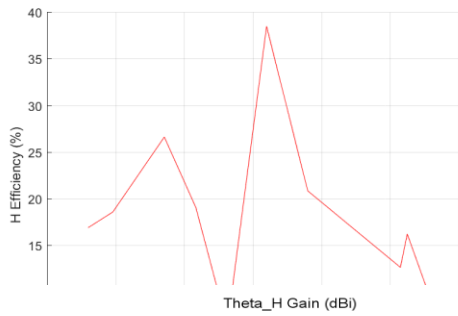


**5. Receiver Performance Test Data:**

頻率 (Frequency)	總效率 Total Eff. (%)	總增益 Total Gain (dBi)	水平效率 H Eff. (%)	水平增益 H Gain (dBi)	垂直效率 V Eff. (%)	垂直增益 V Gain (dBi)
600MHz	28.91	-1.99	16.90	-3.12	12.02	-4.05
960MHz	32.28	-1.56	18.58	-3.23	13.74	-2.21
1.71GHz	60.95	1.65	26.61	1.40	34.28	-0.67
2.17GHz	43.15	1.20	19.05	0.25	24.04	-0.88
2.5GHz	28.12	-0.04	9.89	-1.27	18.24	-1.03
2.7GHz	20.61	-0.92	10.33	-1.33	10.26	-4.26
3.2GHz	59.43	4.27	38.46	4.11	20.94	0.56
3.8GHz	42.66	2.01	20.84	1.65	21.83	0.51
5.15GHz	32.36	2.01	12.65	1.85	19.72	1.54
5.25GHz	34.91	2.45	16.22	1.31	18.71	1.57
5.75GHz	20.23	-1.34	5.96	-4.22	14.26	-1.85
5.85GHz	23.60	0.62	7.10	-3.44	16.52	0.21
5.9GHz	20.61	0.06	7.28	-3.31	13.34	-0.07



Theta_H Efficiency (%)



Phi_V Efficiency (%)

