

ANTENNA SPECIFICATION

Applicant: Shenzhen HENGXINDA COMMUNICATION Tech
Co., Ltd
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Wave Street, LongHua District, Shenzhen,
Guangdong, China
Model Name: 2.4G ANT

Brand Name: N/A
Test Standard: ANSI/IEEE Std 149-1979
Test Date: 12. 09, 2022

ISSUED BY:

Shenzhen HENGXINDA COMMUNICATION Tech Co., Ltd.

Tested by:



Checked by:



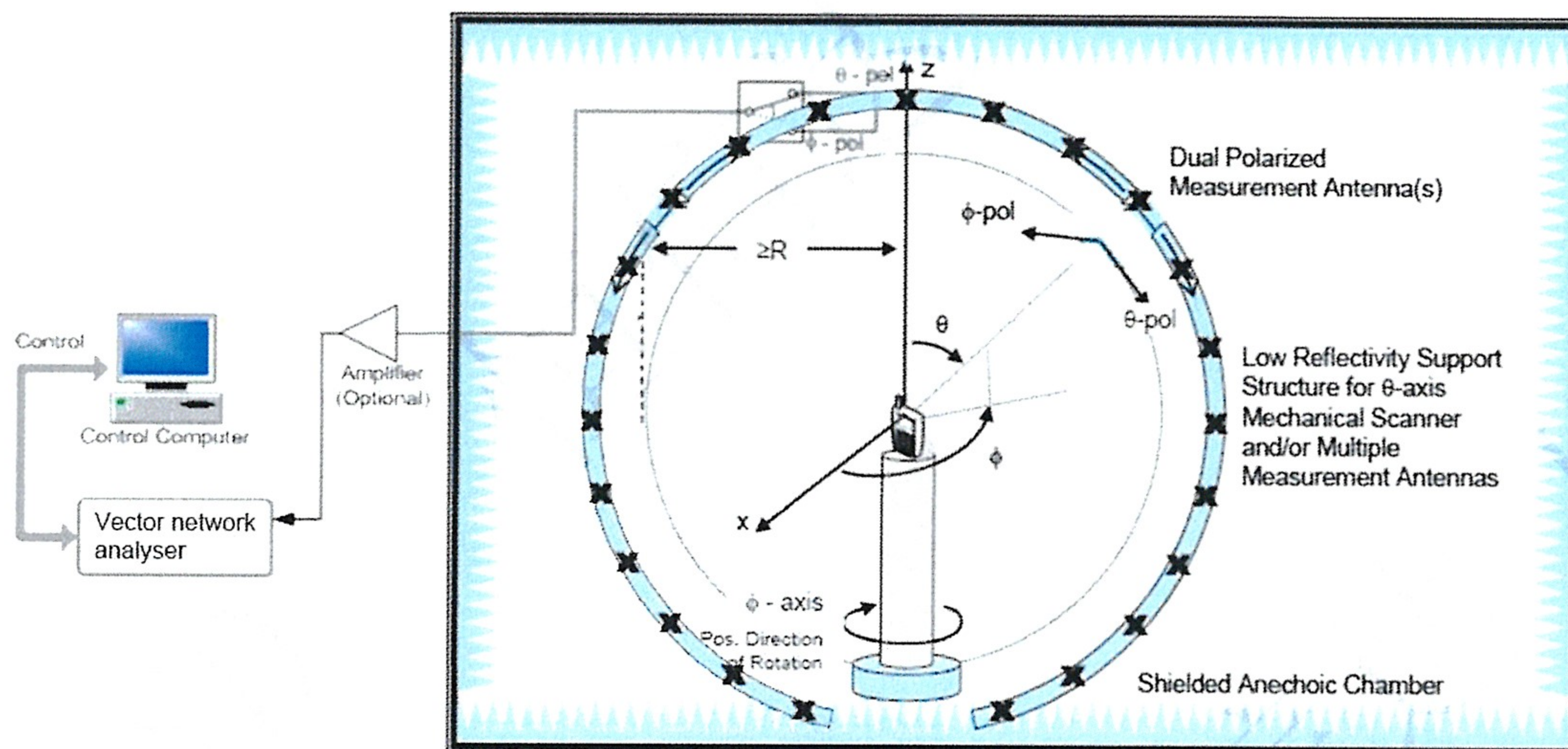
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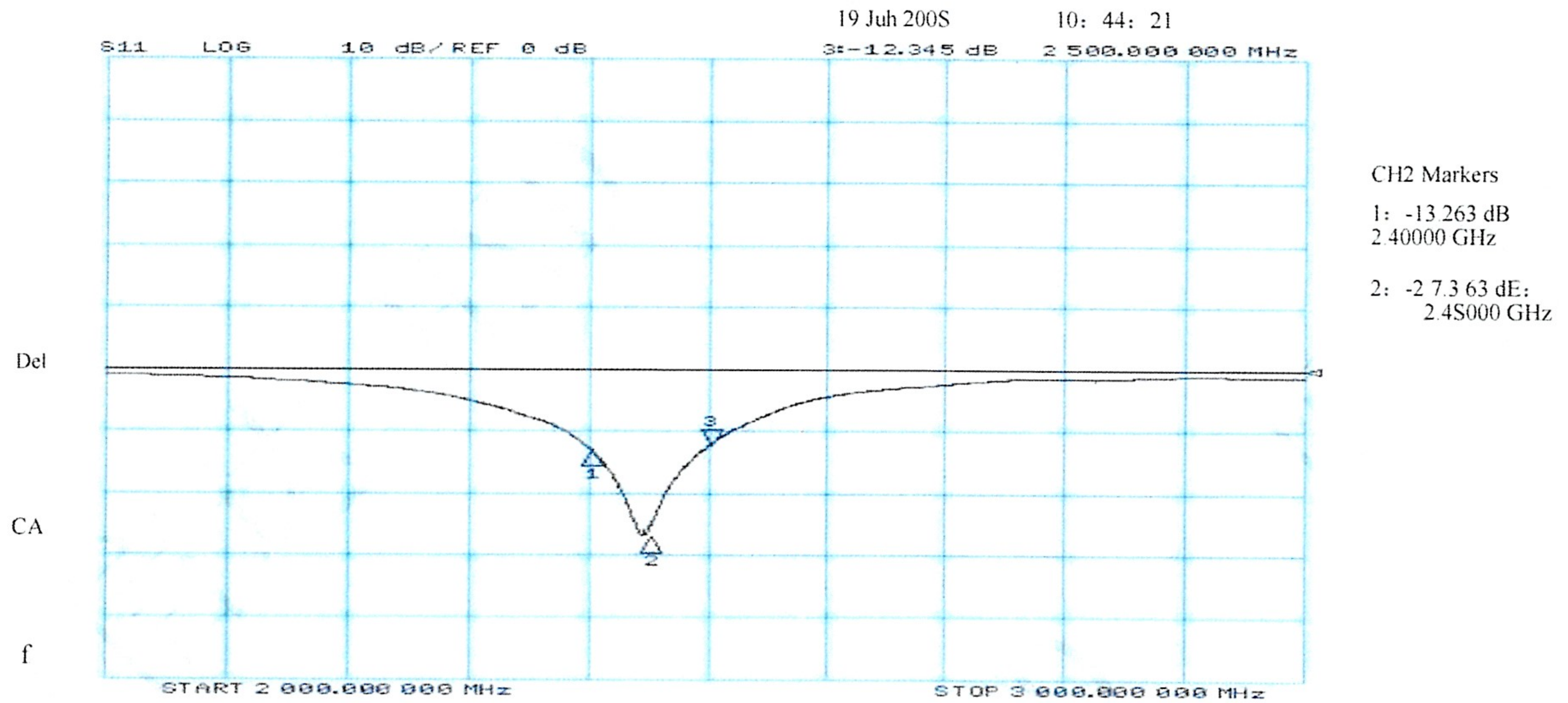
Test Equipment List

Antenna gain, efficiency and radiation pattern test setup

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
SG24 Multi-probe Antenna Measurement System	SATIMO	SG24-L	1101855-0001	2021.11.12	2024.11.11
Vector Network Analyzer	Agilent	E5071B	MY42404001	2022.04.02	2023.04.01
Description	Manufacturer	Name		Version	
Test Software	MVG	SPM		V 1.8	



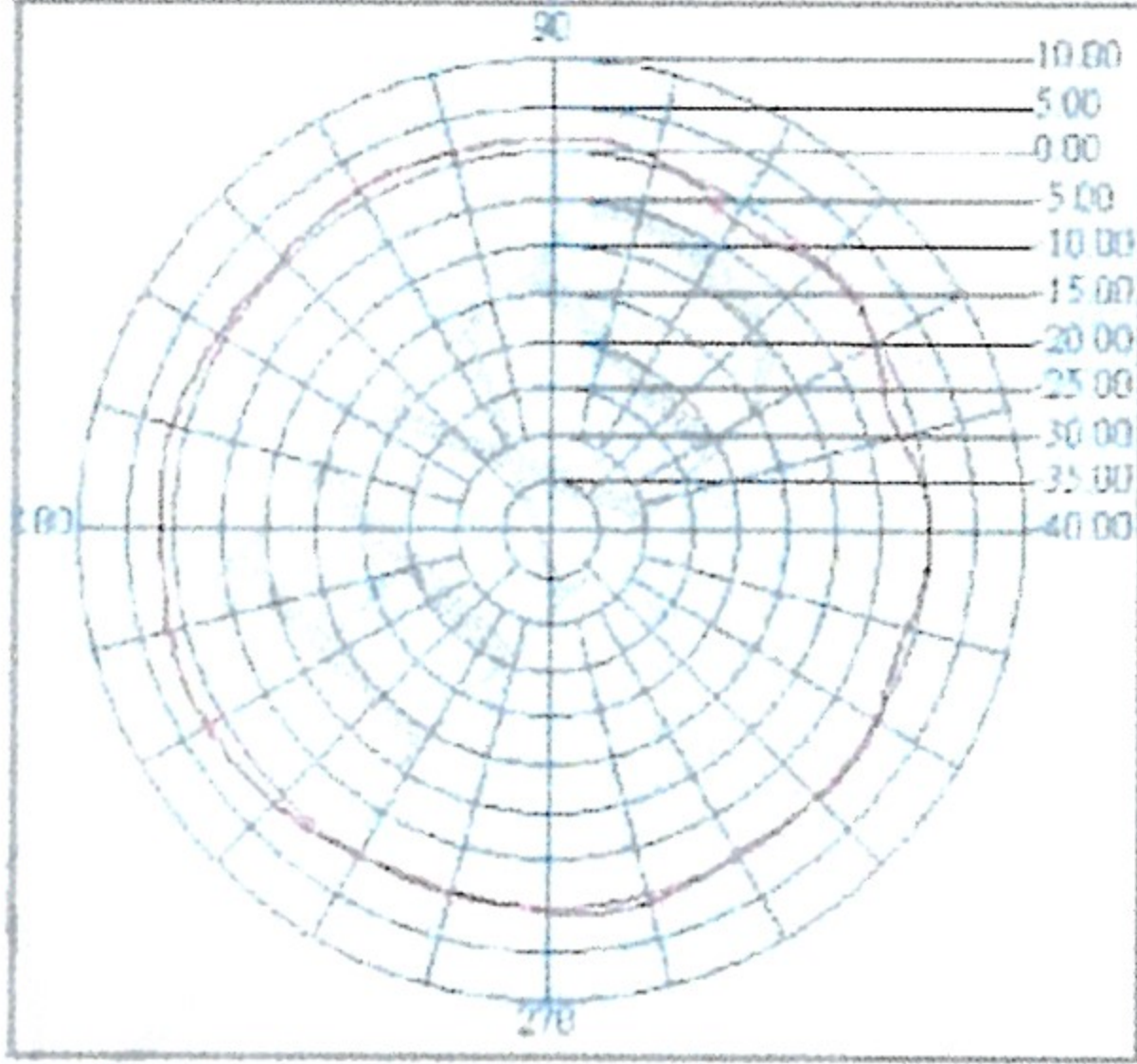
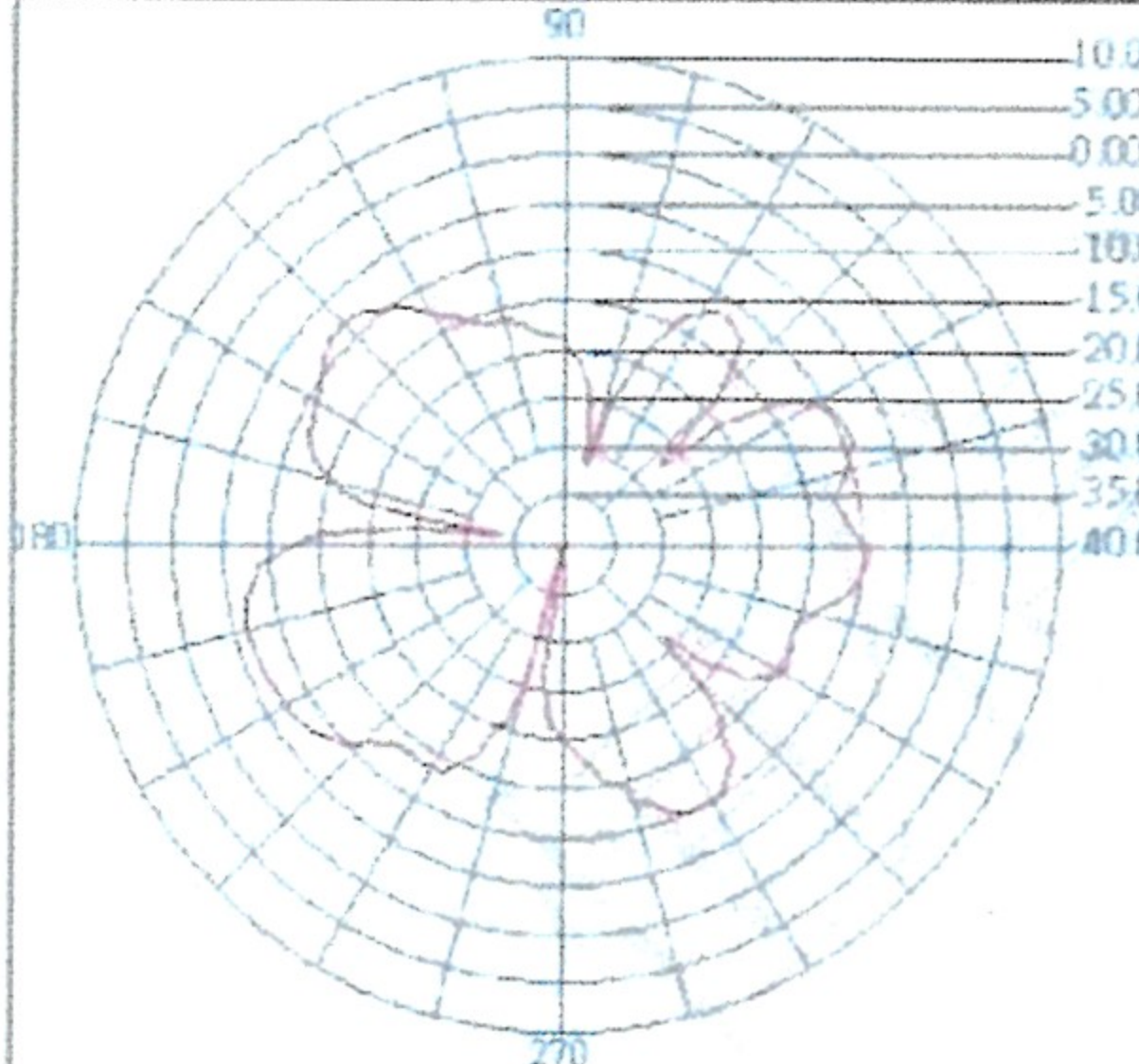
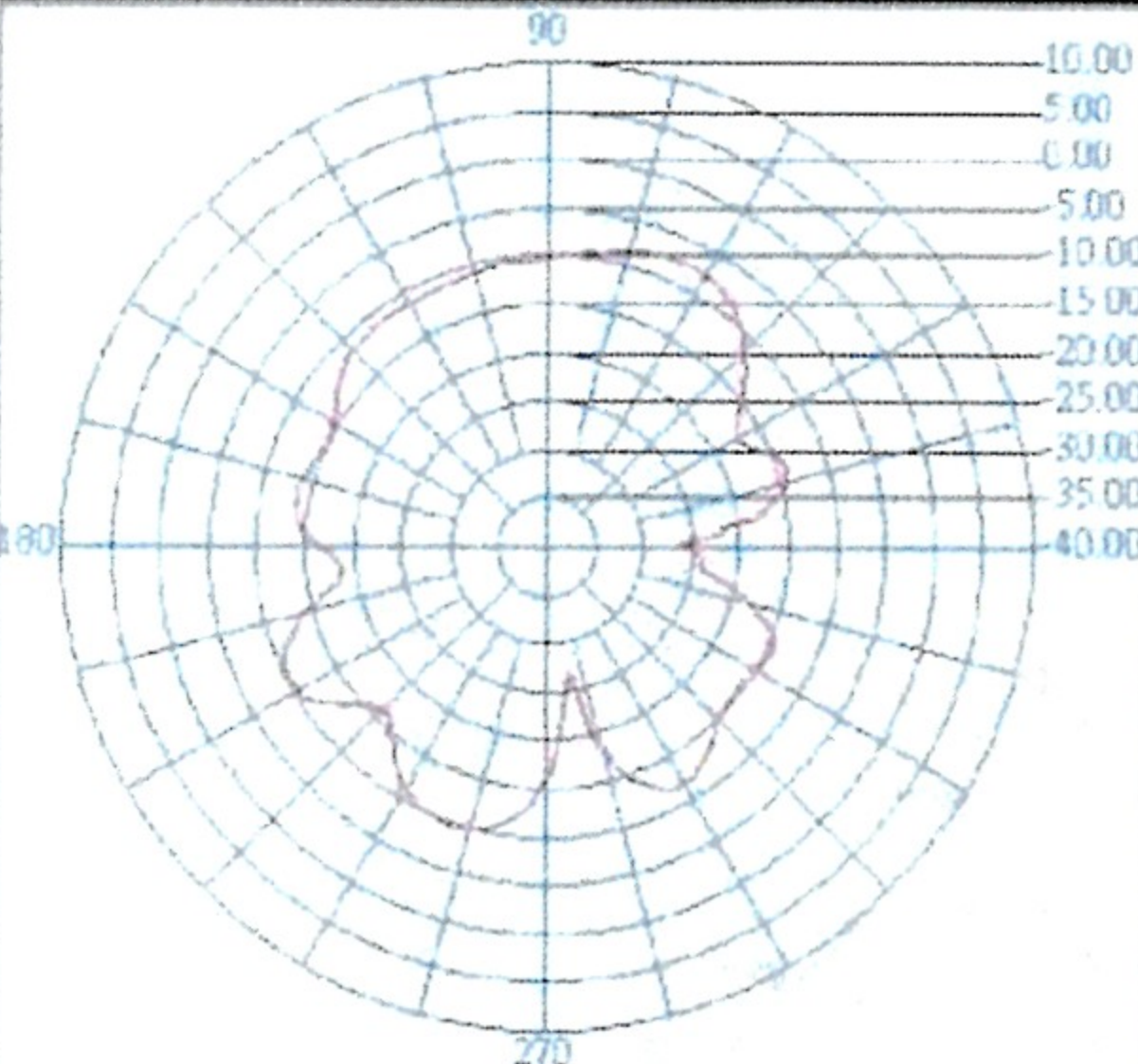
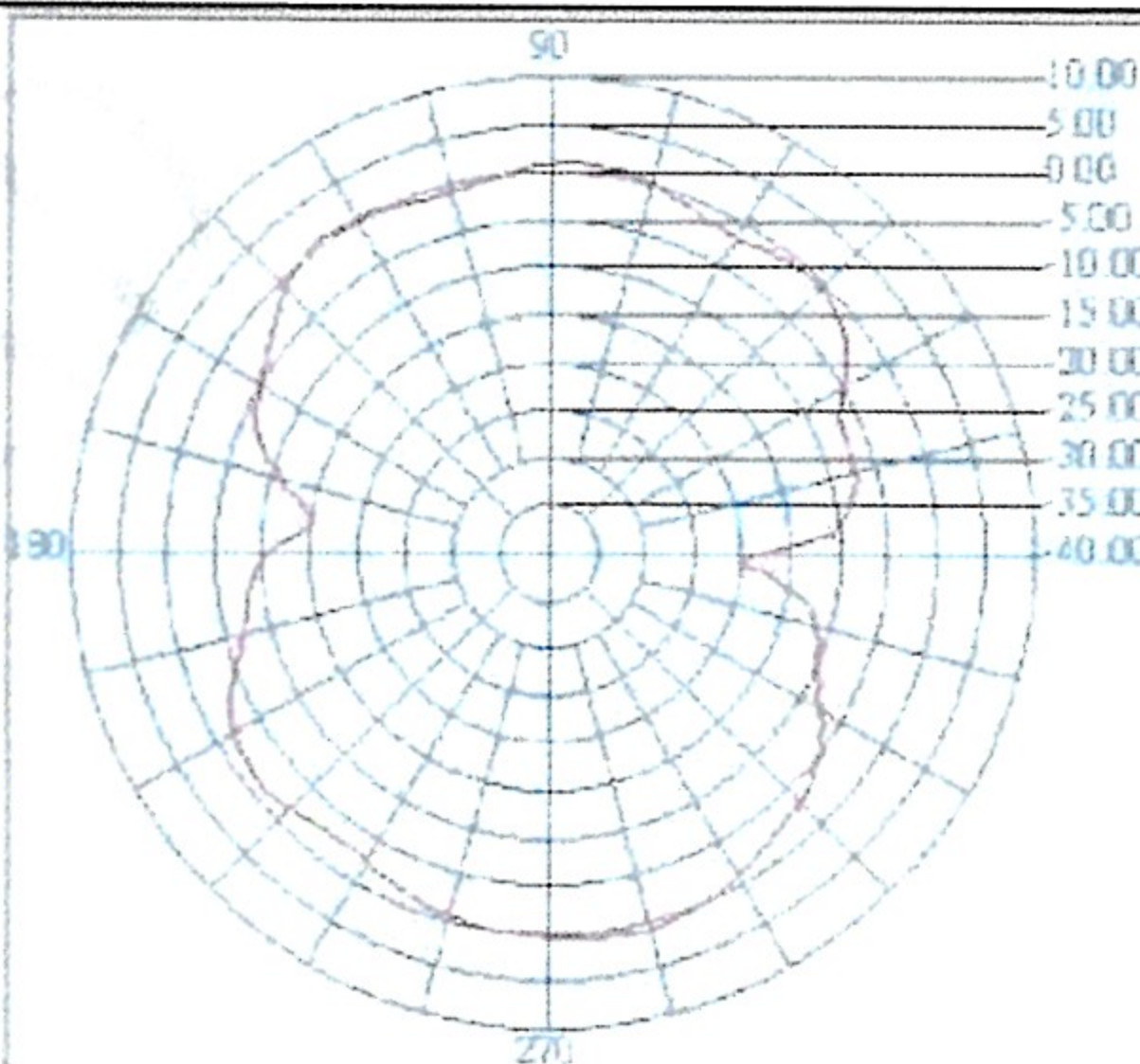
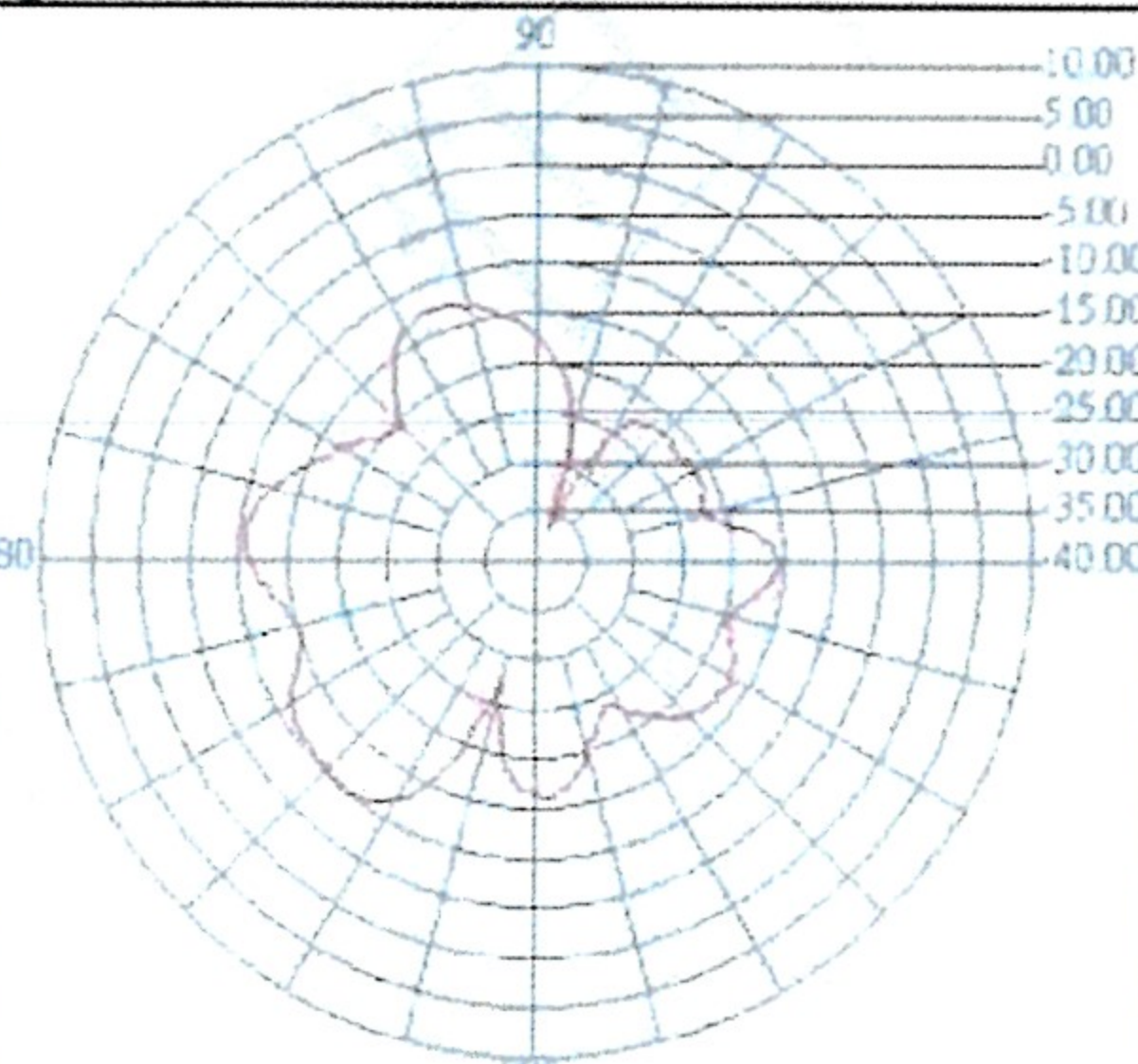
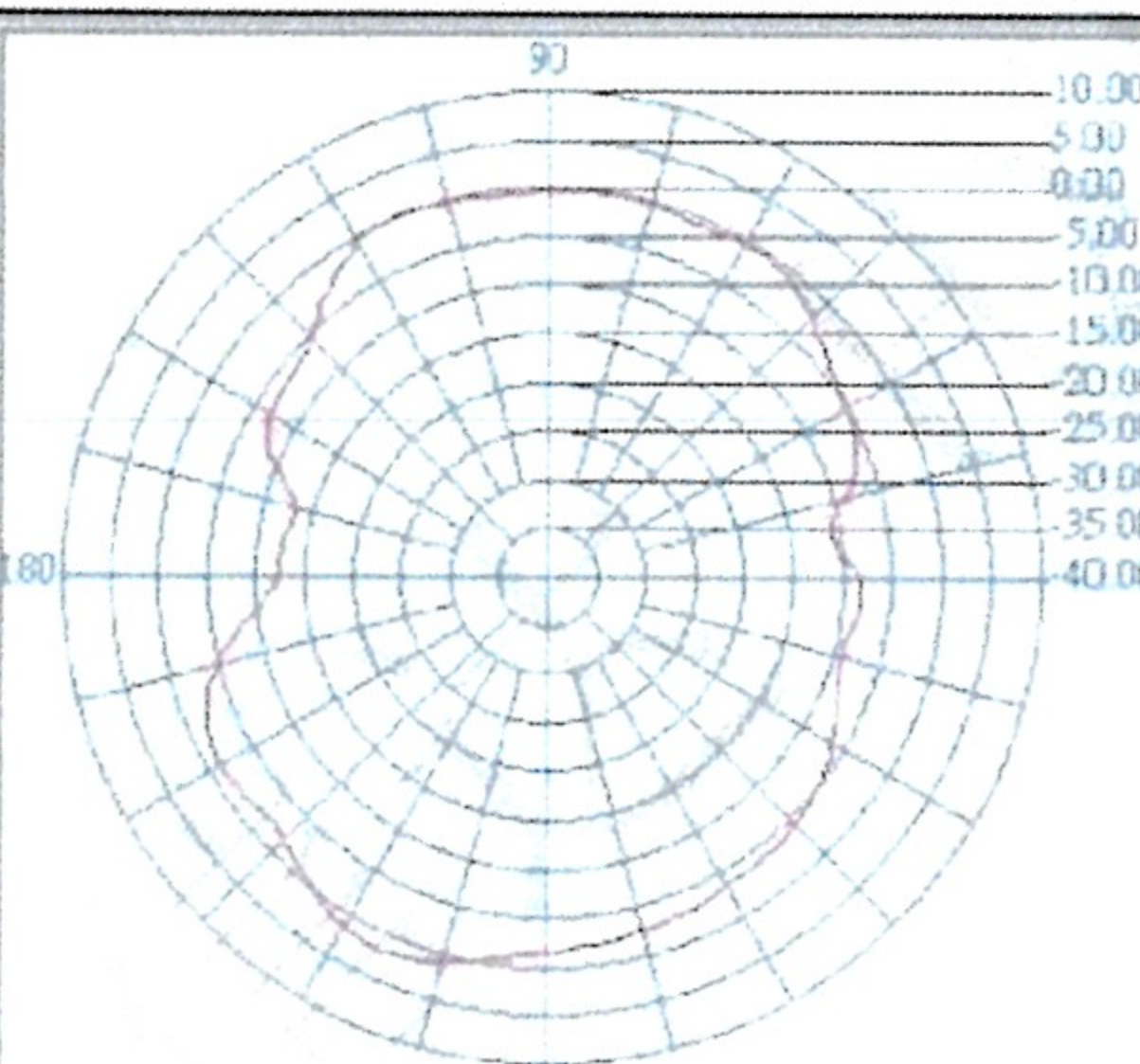
Antenna S11 on Test Board And Gain and Efficiency



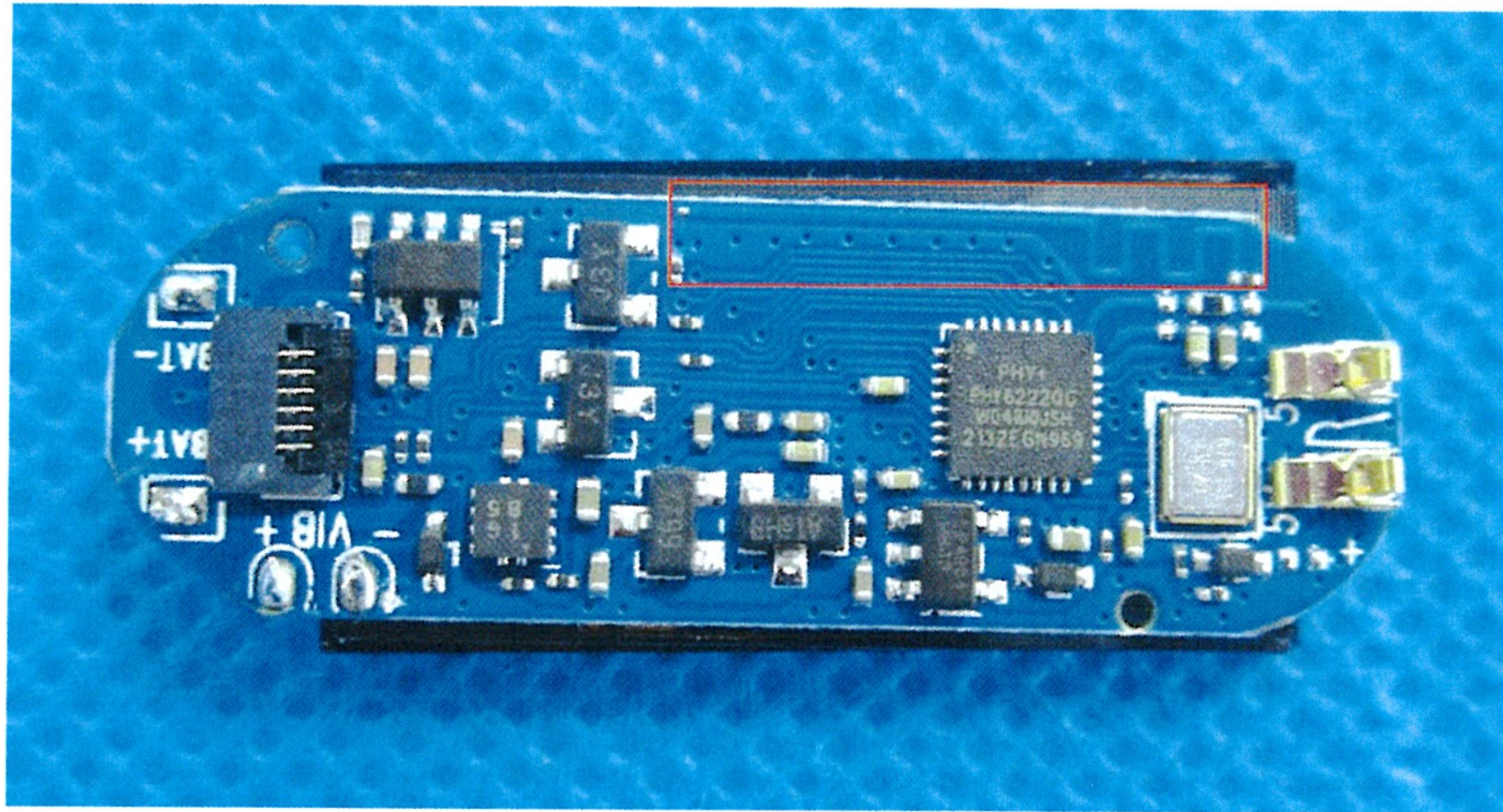
Frequency	Gain (dBi)	Efficiency (%)
2400MHz	0.93	46
2410MHz	1.03	48
2420MHz	1.23	49
2430MHz	1.27	50
2440MHz	0.99	49
2450MHz	1.02	51
2460MHz	1.27	51
2470MHz	1.41	52
2480MHz	1.42	52
2490MHz	1.42	52
2500MHz	1.24	52

RADIATION PATTERN

Radiation Pattern and Gain were dependent on measurement board design. The specification of subject antenna was measured based on the PCB size and installation position as shown in the below figure Test Board

	Vertical	Horizontal
Y - Z Plane Average Gain= 0.859 dBi	 <p>Peak Gain = 2.13dBi Average Gain = 0.62 dBi</p>	 <p>Peak Gain= -6.47dBi Average Gain=-11.86dBi</p>
X - Z Plane Average Gain= -1.804 dBi	 <p>Peak Gain= -7.43 dBi Average Gain= -12.30dBi</p>	 <p>Peak Gain= 1.07 dBi Average Gain= -2.21 dBi</p>
X - Y Plane Average Gain= -2.365 dBi	 <p>Peak Gain= -9.98 dBi Average Gain= -15.53dBi</p>	 <p>Peak Gain= 1.84 dBi Average Gain= -2.57 dBi</p>

EUT PHOTO:



APPLICATIONS

1. 2.4GHz ISM band RF applications
2. Bluetooth, Wireless, HomeRF

Model Name	2.4G ANT
Polarization	Horizontal and Vertical
Azimuth Beam Patten	Omni-directional
Impedance	50 Ohm
Antenna Lenght	32mm

Technical Information

Test Frequencies	2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz
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3D Pattern

