

ART SIGNAL

ANTENNA TOTAL SOLUTION



| **2.4G Antenna Test Data**

Solu-M 9.7inch tag ant #1 2.4G Antenna Test Data **- Network & 3D gain & 3D Radiation Pattern**

2023-09-12

Test by : Dong-Kyu Hwang

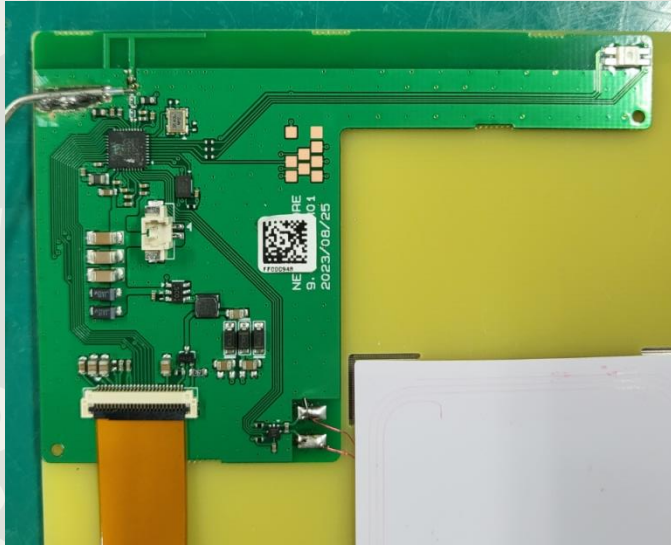
ART SIGNAL CO., LTD.

A-1008, Woolim Lion's Vally 2nd, 14, Sagimakgol-ro 45beon-gil,
Jungwon-gu, Seongnam-si, Gyeonggi-do, KOREA

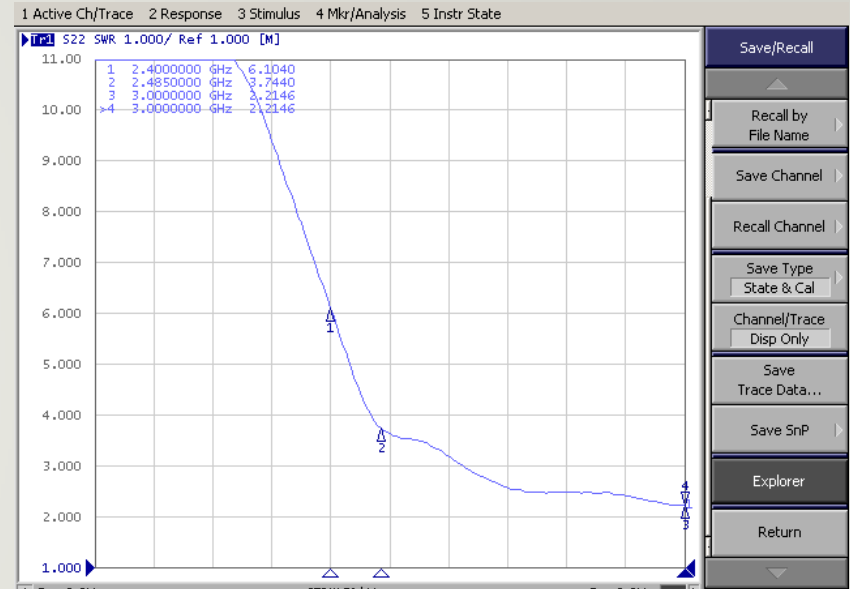
A N T E N N A T O T A L S O L U T I O N

Solu-M 9.7inch tag ant #1 TEST DATA

Picture



VSWR

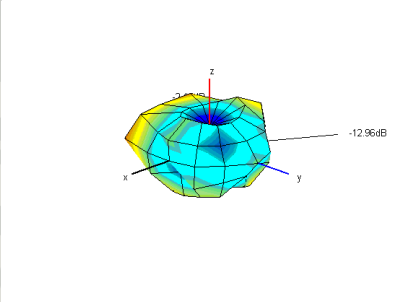
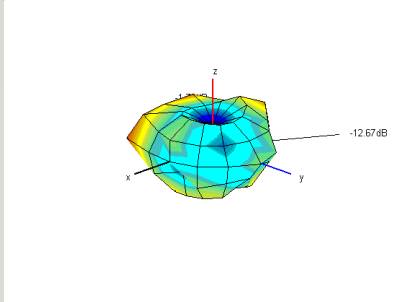
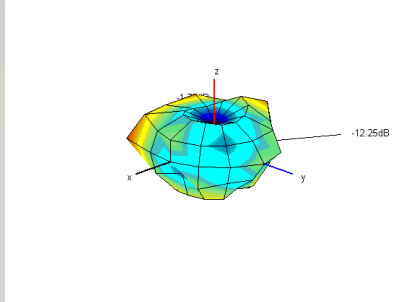
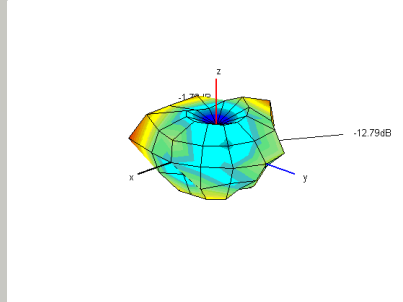
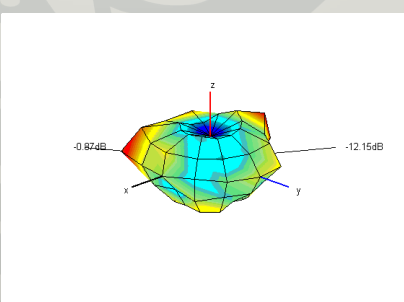


3D gain

	1	2	3	4	5
Frequency [MHz]	2400	2420	2440	2460	2485
Efficiency [dB]	-7.13	-6.79	-6.68	-6.67	-6.26
Efficiency [%]	19.4	20.9	21.5	21.5	23.6
Peak Gain [dB]	-2.15	-1.73	-1.72	-1.78	-0.87
Directivity [dB]	4.97	5.06	4.96	4.89	5.40
Minimum Gain [dB]	-12.96	-12.67	-12.25	-12.79	-12.15

2.4G ANT DATA - 3D Radiation Pattern

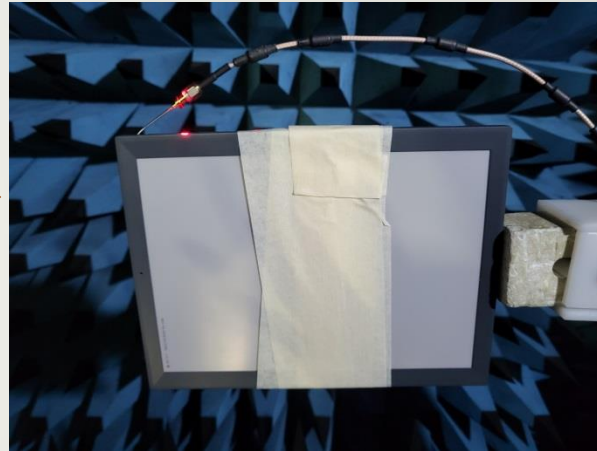
3D Radiation Pattern

2400	2420	2440	2460
 <p>3D radiation pattern for 2400 MHz. The plot shows a central peak with a value of -12.96dB. The x, y, and z axes are labeled.</p>	 <p>3D radiation pattern for 2420 MHz. The plot shows a central peak with a value of -12.67dB. The x, y, and z axes are labeled.</p>	 <p>3D radiation pattern for 2440 MHz. The plot shows a central peak with a value of -12.25dB. The x, y, and z axes are labeled.</p>	 <p>3D radiation pattern for 2460 MHz. The plot shows a central peak with a value of -12.79dB. The x, y, and z axes are labeled.</p>
2485			
 <p>3D radiation pattern for 2485 MHz. The plot shows a central peak with a value of -12.15dB and a side lobe with a value of -0.824dB. The x, y, and z axes are labeled.</p>			

Measurement Procedure



Network Analyzer을
이용하여 VSWR 측정



3D Chamber에 Set 거치



Program을 이용하여
Gain 측정

Measurement Equipment

Network Analyzer



E5071B (Agilent)



8753ES (Agilent)



CTIA 3D OTA Chamber(A+Tech)