

ART SIGNAL

ANTENNA TOTAL SOLUTION



| 2.4G Antenna Test Data

Solu-M Newton-Pro 4.5”R24-01 #1 TEST DATA - Network & 3D gain & 3D Radiation Pattern

Test by : Dong-Kyu Hwang

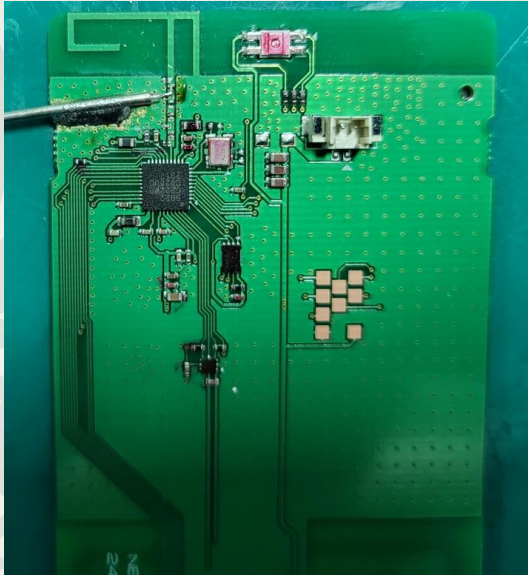
ART SIGNAL CO., LTD.

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

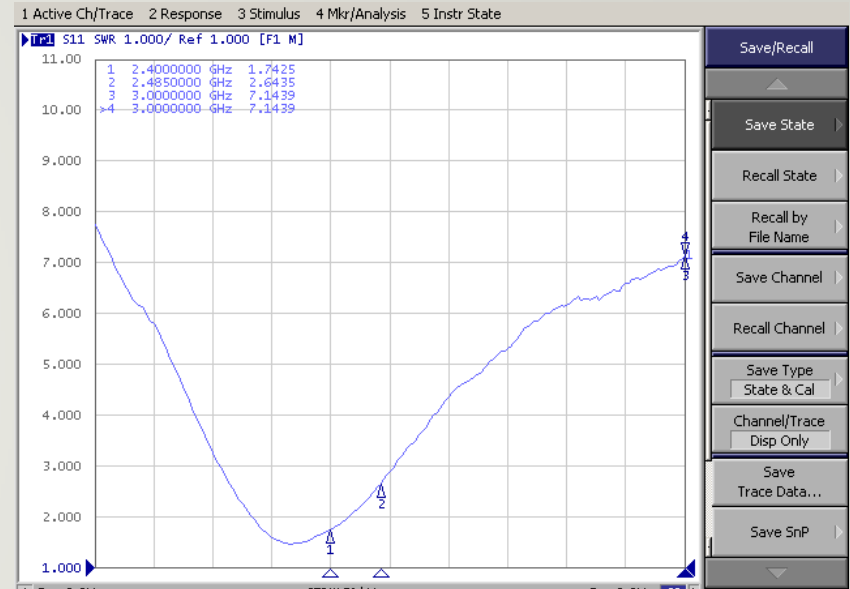
A N T E N N A T O T A L S O L U T I O N

Solu-M Newton-Pro 4.5"R24-01 #1 TEST DATA

Picture



VSWR

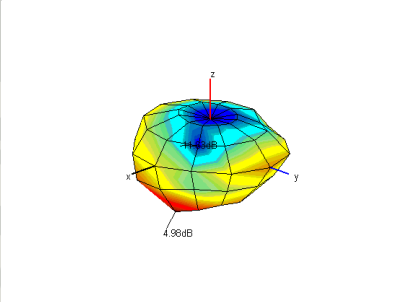
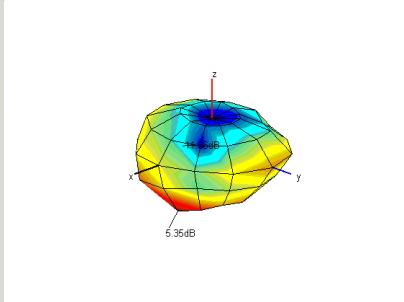
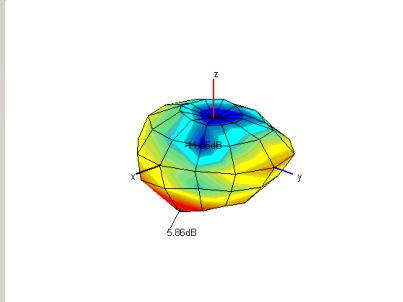
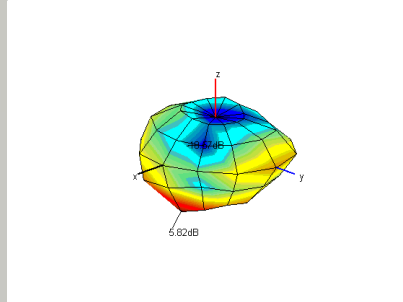
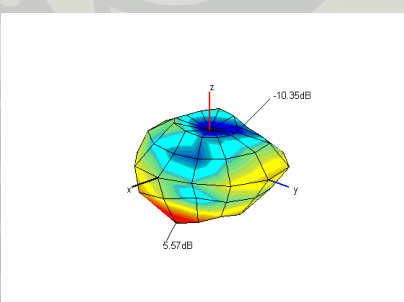


3D gain

	1	2	3	4	5
Frequency [MHz]	2400	2420	2440	2460	2485
Efficiency [dB]	-2.11	-1.89	-1.52	-1.69	-2.16
Efficiency [%]	61.5	64.7	70.4	67.8	60.8
Peak Gain [dB]	4.98	5.35	5.86	5.82	5.57
Directivity [dB]	7.09	7.24	7.38	7.51	7.73
Minimum Gain [dB]	-11.63	-11.56	-11.05	-10.57	-10.35

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 main lobe centered at the top (z-axis) with a peak gain of 10.18 dB. The side lobes are labeled with a gain of 4.98 dB. The x, y, and z axes are shown.</p>	 <p>3D radiation pattern for 2420 MHz. The plot shows a main lobe centered at the top (z-axis) with a peak gain of 10.18 dB. The side lobes are labeled with a gain of 5.35 dB. The x, y, and z axes are shown.</p>	 <p>3D radiation pattern for 2440 MHz. The plot shows a main lobe centered at the top (z-axis) with a peak gain of 10.18 dB. The side lobes are labeled with a gain of 5.88 dB. The x, y, and z axes are shown.</p>	 <p>3D radiation pattern for 2460 MHz. The plot shows a main lobe centered at the top (z-axis) with a peak gain of 10.18 dB. The side lobes are labeled with a gain of 5.82 dB. The x, y, and z axes are shown.</p>
2485			
 <p>3D radiation pattern for 2485 MHz. The plot shows a main lobe centered at the top (z-axis) with a peak gain of 10.35 dB. The side lobes are labeled with a gain of 5.57 dB. The x, y, and z axes are shown.</p>			

Measurement Equipment

Network Analyzer



E5071B (Agilent)



8753ES (Agilent)



CTIA 3D OTA Chamber(A+Tech)