

ART SIGNAL

ANTENNA TOTAL SOLUTION



| 2.4G Antenna Test Data

| **Samjin**Built in module 2.4G Antenna Test Data

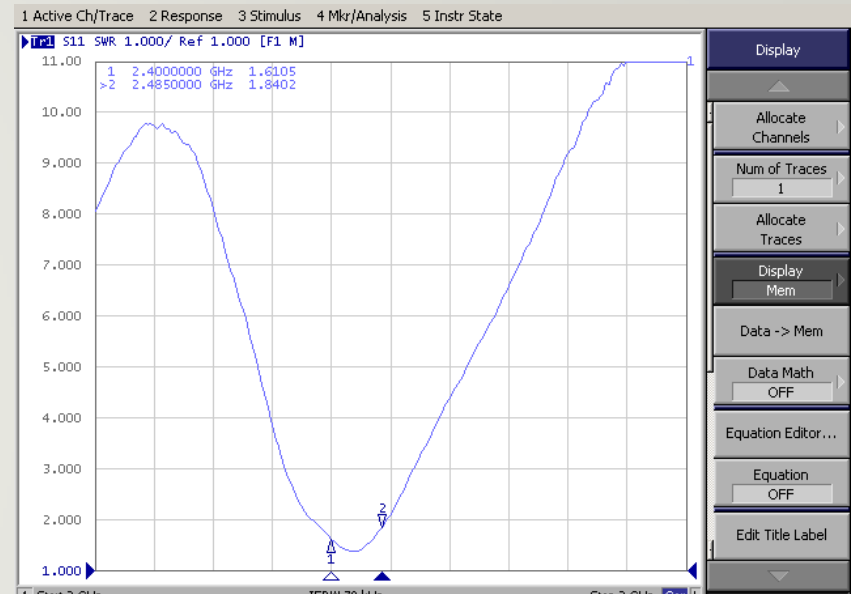
- Antenna Type : PIFA (Planer Inverted-F Antenna) Type Press Antenna
- SMT SET **쉽드킨** 1mm **이동** Network & 3D gain
- Antenna Type : PIFA Antenna

Test by : Martin Jung

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Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea.

SMT SET **쉽드킨** 1mm 이동 - Network & 3D gain

VSWR

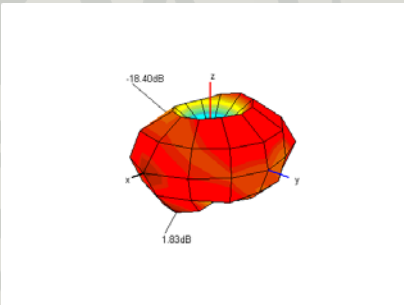
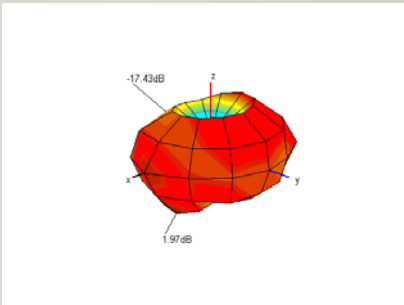
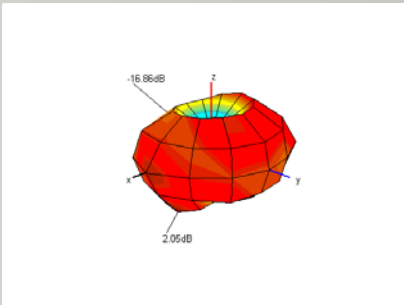
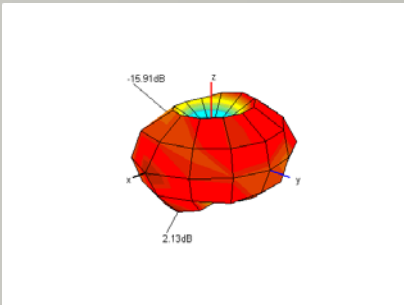
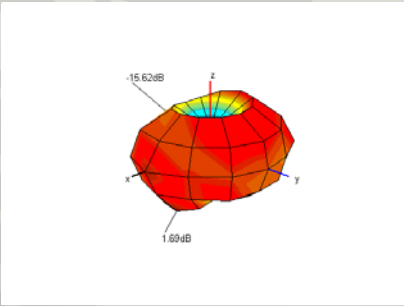


3D gain

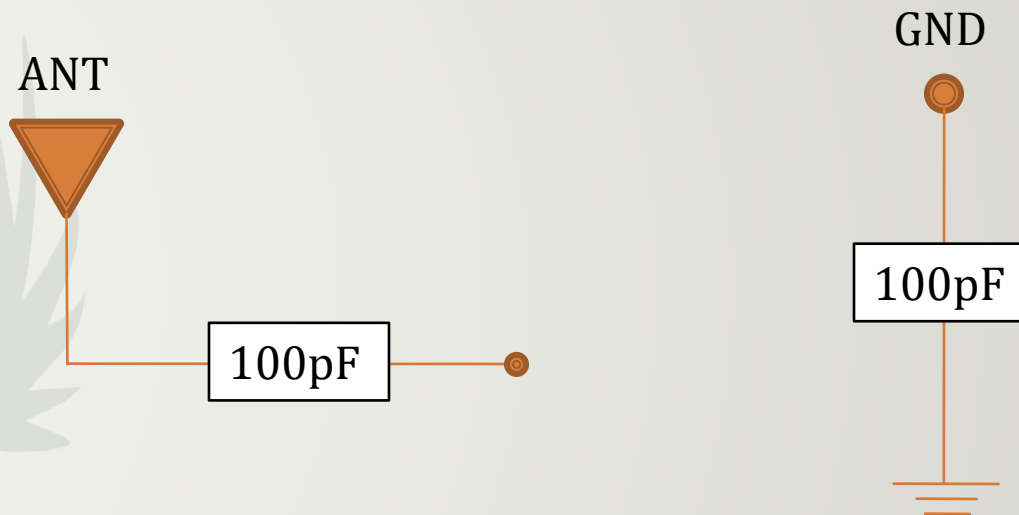
	1	2	3	4	5
Frequency [MHz]	2400	2420	2440	2460	2485
Efficiency [dB]	-2.35	-2.28	-2.22	-1.98	-2.20
Efficiency [%]	58.2	59.2	60.0	63.4	60.3
Peak Gain [dB]	1.53	1.57	1.45	1.53	1.49
Directivity [dB]	3.87	3.85	3.67	3.51	3.68
Minimum Gain [dB]	-18.70	-17.83	-17.46	-16.51	-15.82

SMT SET **쉽드킨** 1mm 이동- 3D Radiation Pattern

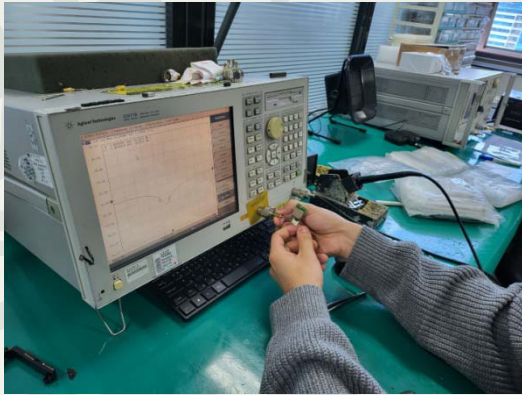
3D Radiation Pattern

2400	2420	2440	2460
 <p>3D Radiation Pattern for 2400 MHz. The plot shows a main lobe with a peak gain of 18.40 dB and a side lobe level of 1.83 dB. The radiation is omnidirectional in the horizontal plane.</p>	 <p>3D Radiation Pattern for 2420 MHz. The plot shows a main lobe with a peak gain of 17.43 dB and a side lobe level of 1.97 dB. The radiation is omnidirectional in the horizontal plane.</p>	 <p>3D Radiation Pattern for 2440 MHz. The plot shows a main lobe with a peak gain of 16.86 dB and a side lobe level of 2.05 dB. The radiation is omnidirectional in the horizontal plane.</p>	 <p>3D Radiation Pattern for 2460 MHz. The plot shows a main lobe with a peak gain of 15.91 dB and a side lobe level of 2.13 dB. The radiation is omnidirectional in the horizontal plane.</p>
2485			
 <p>3D Radiation Pattern for 2485 MHz. The plot shows a main lobe with a peak gain of 15.62 dB and a side lobe level of 1.69 dB. The radiation is omnidirectional in the horizontal plane.</p>			

SMT SET **쉽드킨** 1mm 이동 - matching value



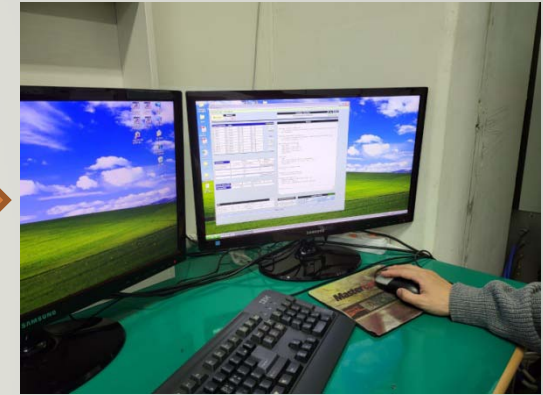
Measurement Procedure



VSWR measurement using Network Analyzer



Product Setup in 3D Chamber



Gain measurement using a program

Measurement Equipment

Network Analyzer



E5071B (Agilent)



8753ES (Agilent)



CTIA 3D OTA Chamber(A+Tech)

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A leader in ANTENNA.

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