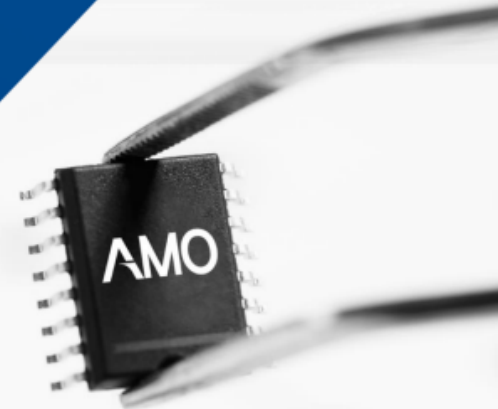


Antenna Measurement Report

Customer	Amosense
Model	OMEGA / IOTA
Application	Bluetooth

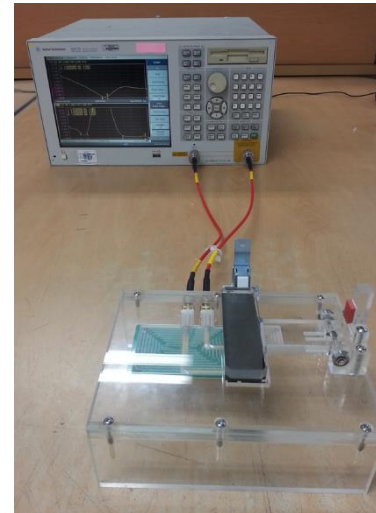
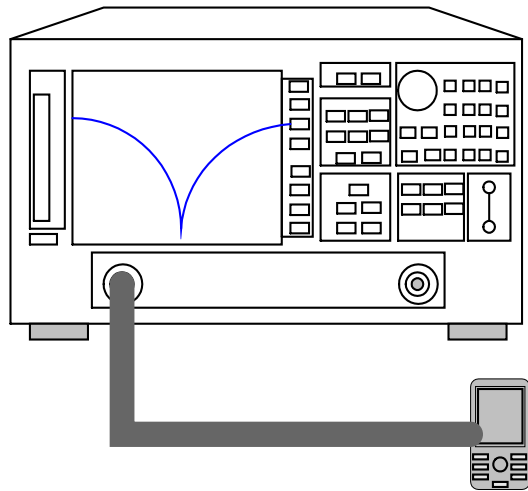
2022 .07 .01

AMO
A M O T E C H



Measuring Method

1. VSWR



Connect (soldering) 50Ω semi-rigid coaxial cable to the 50Ω spot in handset.
 To minimize the loss of transmission, semi-rigid coaxial cable is used.
 After connecting the DUT to the network, select the frequency to be measured and measure the VSWR.

3. Location

AMOTECH CO.,LTD
 171, Majung-ro, Seo-gu, Incheon, Republic of Korea



4. Antenna lab

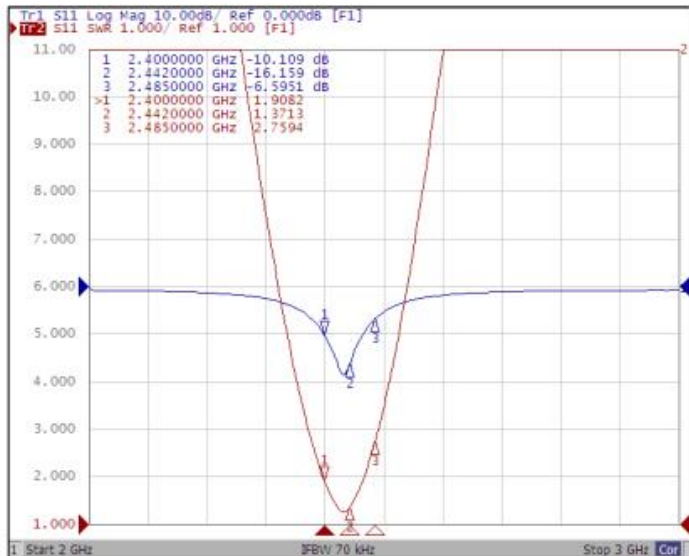
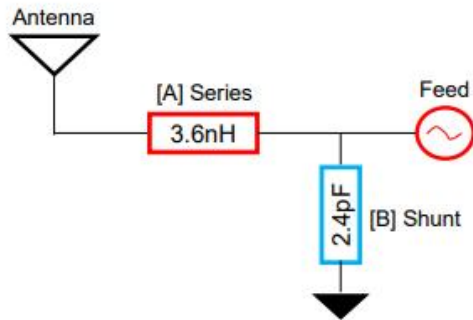


5. Equipment List & Calibration Status

Manufacturer	Name	Standard	Purpose	Calibration date
MTG	Anechoic chamber	3x3x6 [m]	Antenna radiation measurement	Everyday
Agilent Technologies	E5071B	300kHz ~ 8.5GHz	Antenna radiation measurement	Sep 15,2021
Agilent Technologies	E5071B	300kHz ~ 8.5GHz	Antenna S-parameter	Sep 15,2021

1. Measurement Result_OMEGA

1-1) Antenna Matching Value 및 S-Parameter

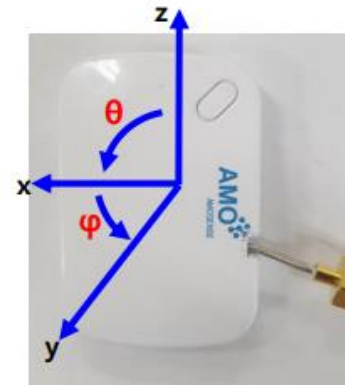


Return Loss & VSWR

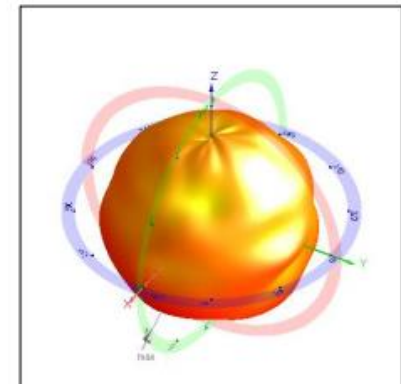
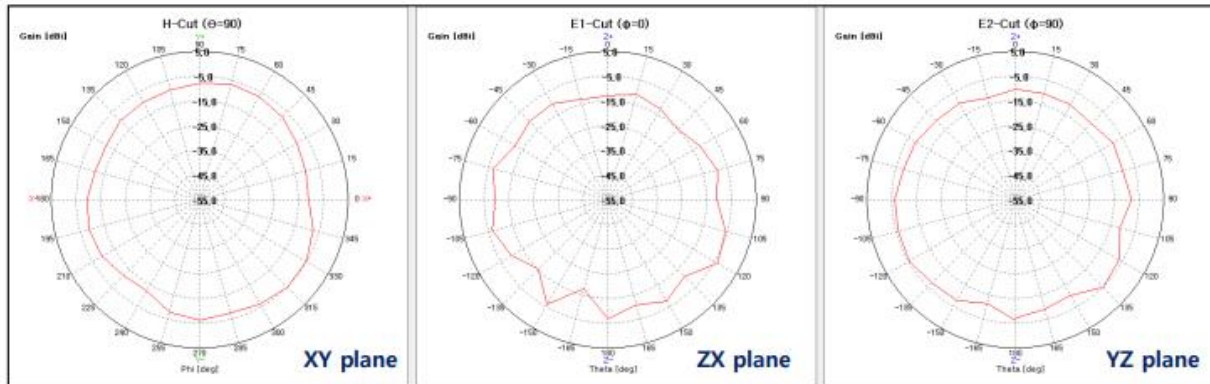
1. Measurement Result_OMEGA

1-2) Passive Antenna Gain

Frequency [MHz]	Efficiency [%]	Average gain [dBi]	Peak gain [dBi]
2400	11.90	-9.25	-4.86
2442	13.87	-8.58	-3.98
2485	14.12	-8.50	-3.87



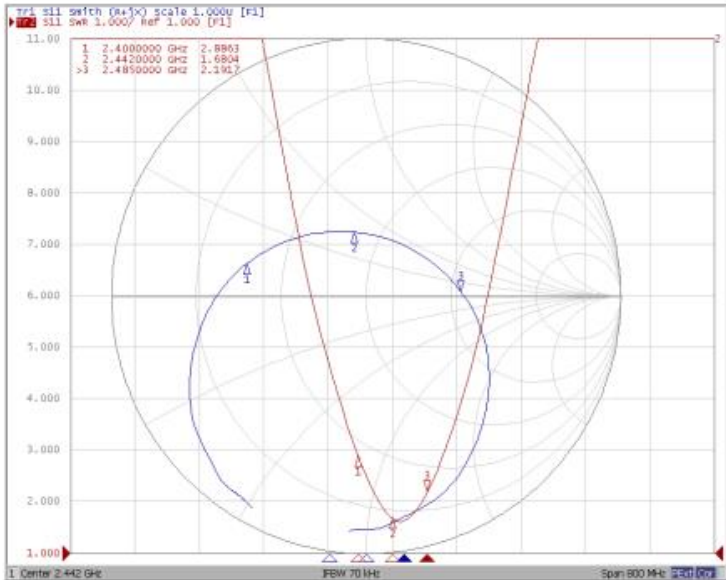
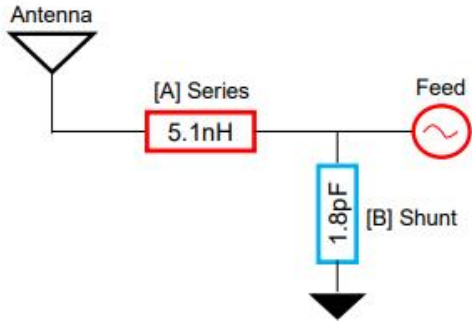
1-3) Passive Radiation Pattern



2D / 3D radiation pattern @2442MHz

2. Measurement Result_IOTA

2-1) Antenna Matching Value 및 S-Parameter



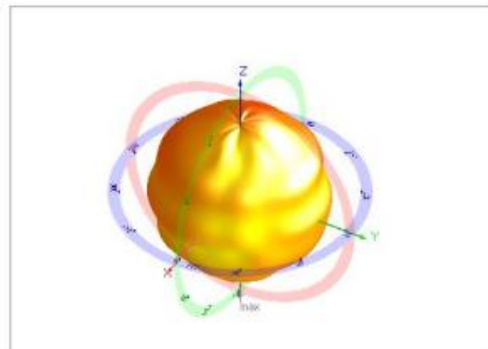
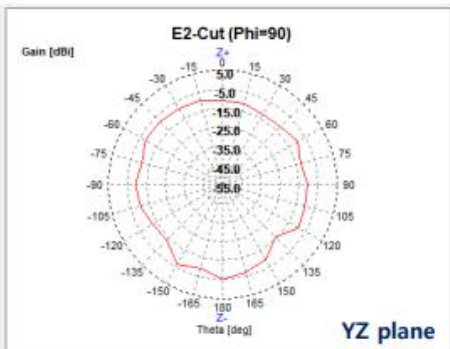
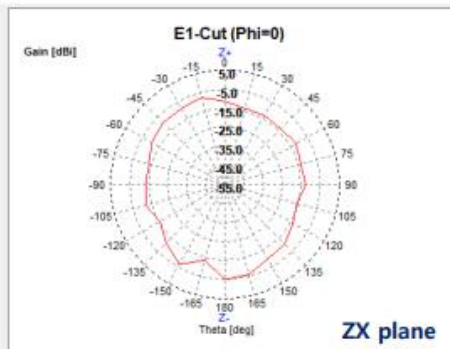
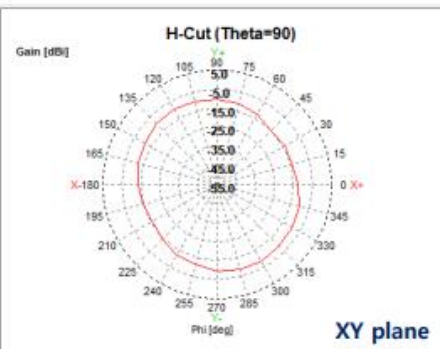
Return Loss & VSWR

2. Measurement Result_IOTA

2-2) Passive Antenna Gain

Frequency [MHz]	Efficiency [%]	Average gain [dBi]	Peak gain [dBi]
2400	5.10	-12.92	-6.73
2442	8.28	-10.98	-5.11
2485	9.61	-10.17	-4.54

2-3) Passive Radiation Pattern



2D / 3D radiation pattern @2442MHz