



FCC Part 15 Antenna Gain Test Report

FCC ID:

AK8YY2984

Type of Equipment:

Radio Equipment

Model No.:

YY2984

Similar Model(s)

N/A

to be covered by this report:

Test Facility:

Sony Global Manufacturing & Operations Corporation
EMC/RF Test Laboratory, Main Lab.
8-4 Shiomi Kisarazu-shi Chiba-ken, 292-0834, Japan

Date of Testing:

November 6, 2024

Date of Issue:

November 25, 2024

Reported by:

Ken Sakamoto(Technical Engineer)

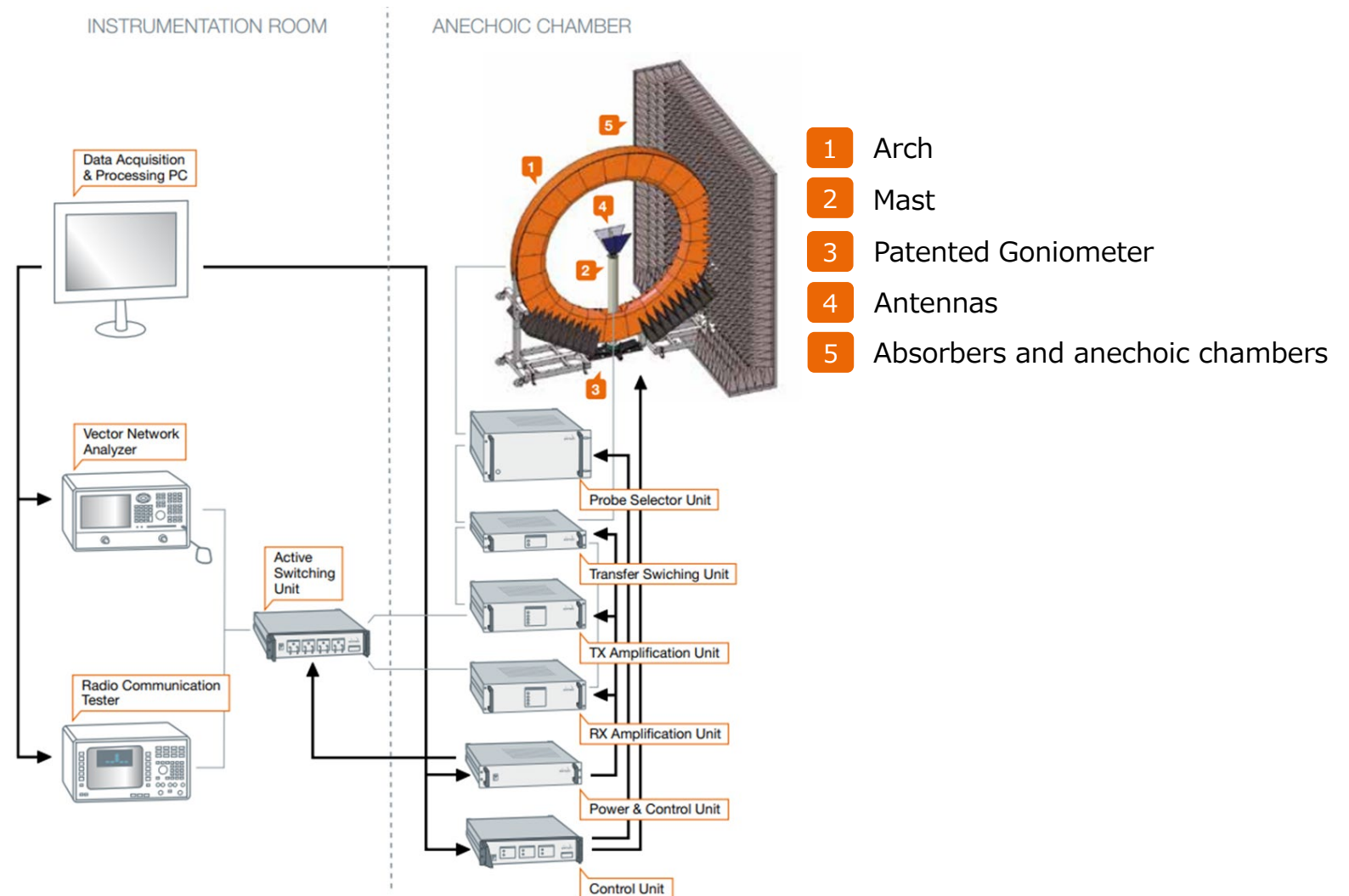
Approved Signatory:

Minato Harada(Technical Manager)

1. Measurement Procedure

- The antenna gain is measured with StarMIMO multi-probe measurement system.

System Overview



(References: MVG, StarMIMO multi-probe measurement system datasheet, 2014)

2. Test Equipment and Measurement Software

Test Equipment

Used	Control No.	Equipment Description	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.	Remark
Y	-	Multi-Probe Measurement System	StarMIMO	1101232-1346	MVG	12 months	2024.08.30	
Y	M1062	ENA Network Analyzer	E5071C	MY46101377	Keysight Technologies	12 months	2024.08.01	
Y	A5062	Dual-Ridge Horn Antenna (0.4-6.0 GHz)	SH400-198	33104416	MVG	12 months	2024.05.10	Reference Antenna
• The calibration is valid until the end of the expiration month.								

Measurement Software

Used	Control No.	Software Description	Model No.	Version	Manufacturer	Remark
Y	-	Automated Antenna and OTA Measurement Software Suite	MVG WaveStudio	22.1.7	MVG	
Y	-	Near-Field to Far-Field Transformation Software	MV-Sphere	2.3.27	MVG	

3. Antenna Under Test

Antenna 1

Antenna Model Name:	ANTENNA L
Antenna Type:	Inverted-F Antenna
Manufacturer:	AT&S/COMPEQ
Input Impedance:	50 ohm

4. Antenna Gains

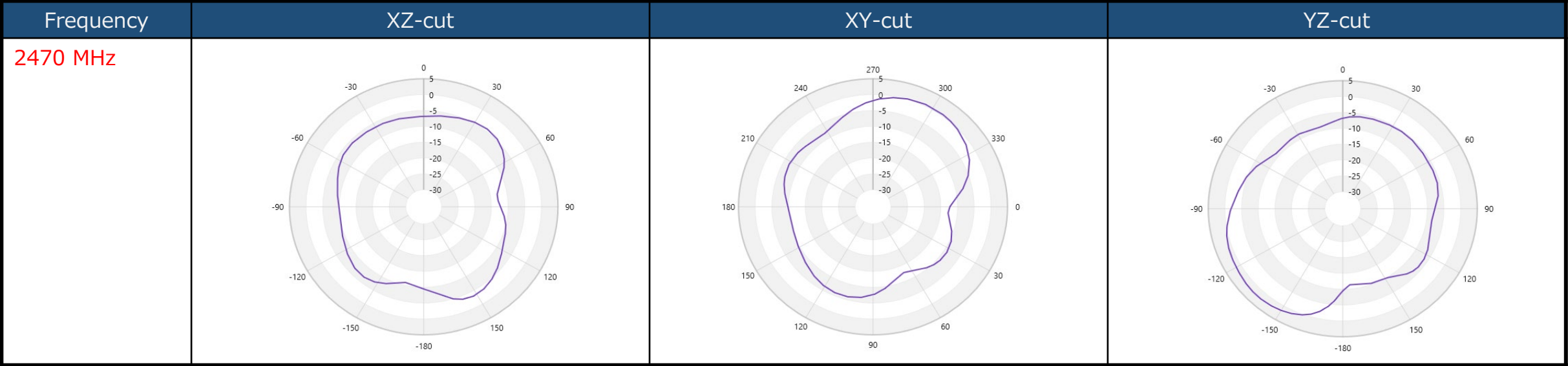
Antenna 1

Date of Testing: November 6, 2024
Tested Personnel: Ken Sakamoto
Temperature: 20.4 deg.C
Relative Humidity: 60.4 %

Antenna	Frequency (MHz)	Peak Gain (dBi)	Remark
Antenna 1	2470	2.91	* 2.4 GHz peak

5. Antenna Directivity Plots

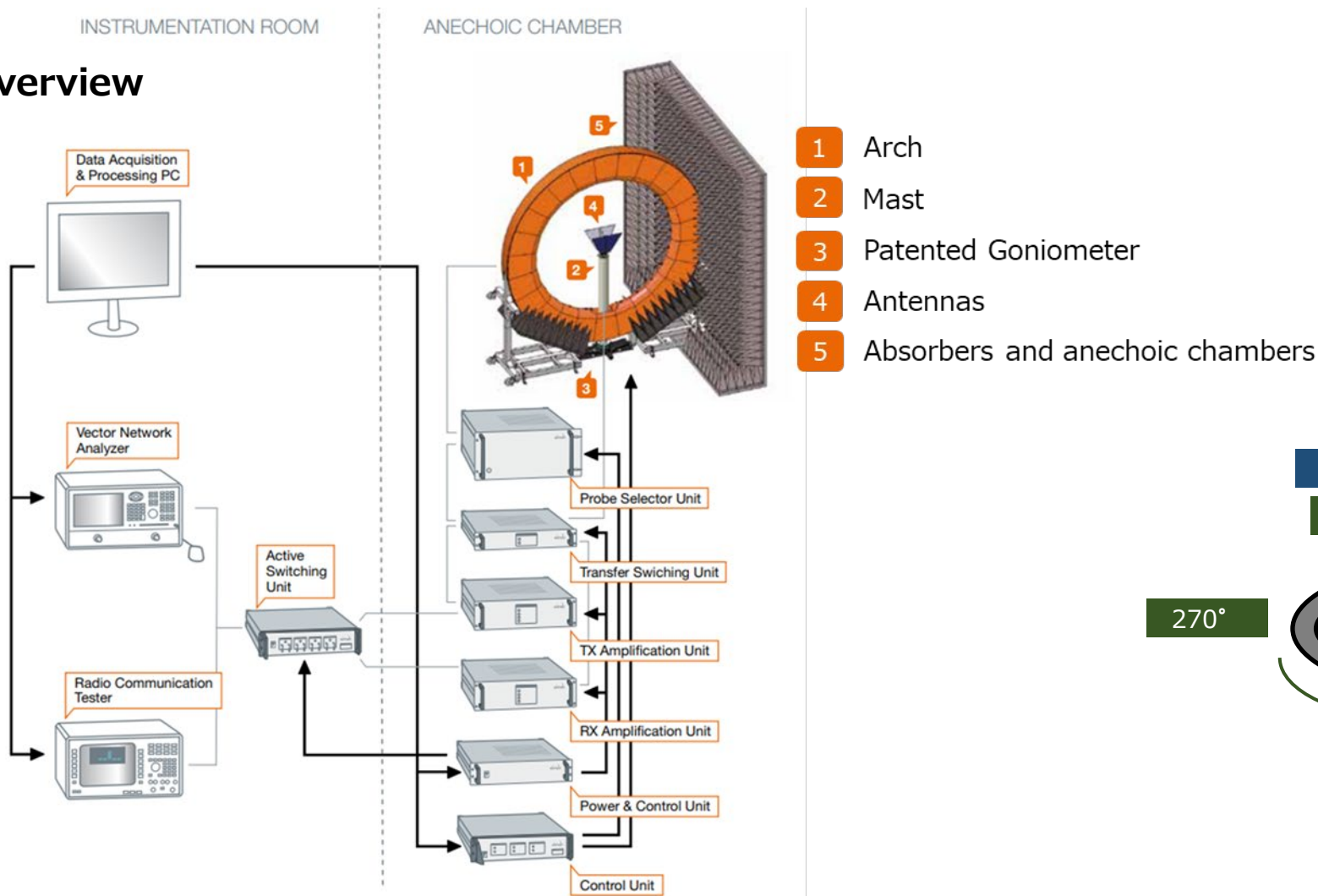
Antenna 1



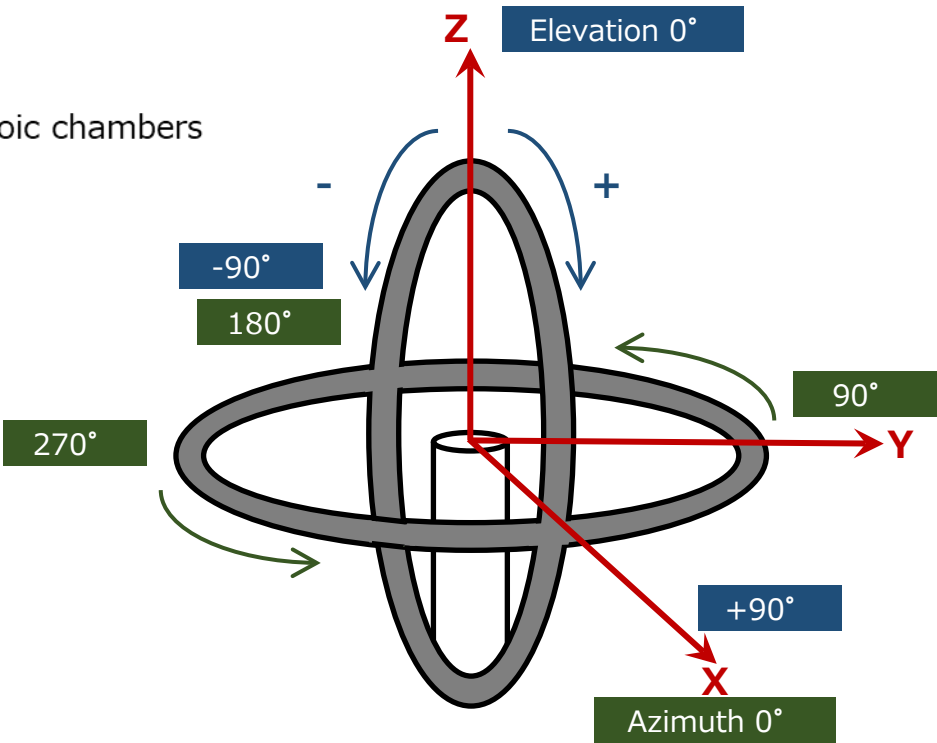
Appendix. 1. Measurement Procedure

The antenna gain is measured with StarMIMO multi-probe measurement system.

System Overview



Measurement Axis



(References: MVG, StarMIMO multi-probe measurement system datasheet, 2014)