

• FCC Part 15 Antenna Gain Test Report

FCC ID: AK8QM-PR1

Type of Equipment: Radio Equipment

Model No.: QM-PR1

Similar Model(s) N/A

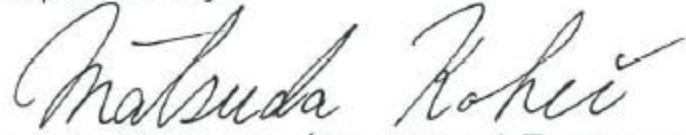
to be covered by this report:

Test Facility: Sony Corporation
EMC/RF Test Laboratory
5-1-1 Minatomirai Nisiku Yokohana City Kanagawa-ken, Japan

Date of Testing: October 4, 2024

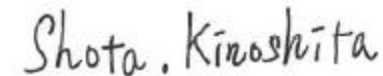
Date of Issue: Novenber 11, 2024

Reported by:



Kohei Matsuda (Technical Engineer)

Approved Signatory:

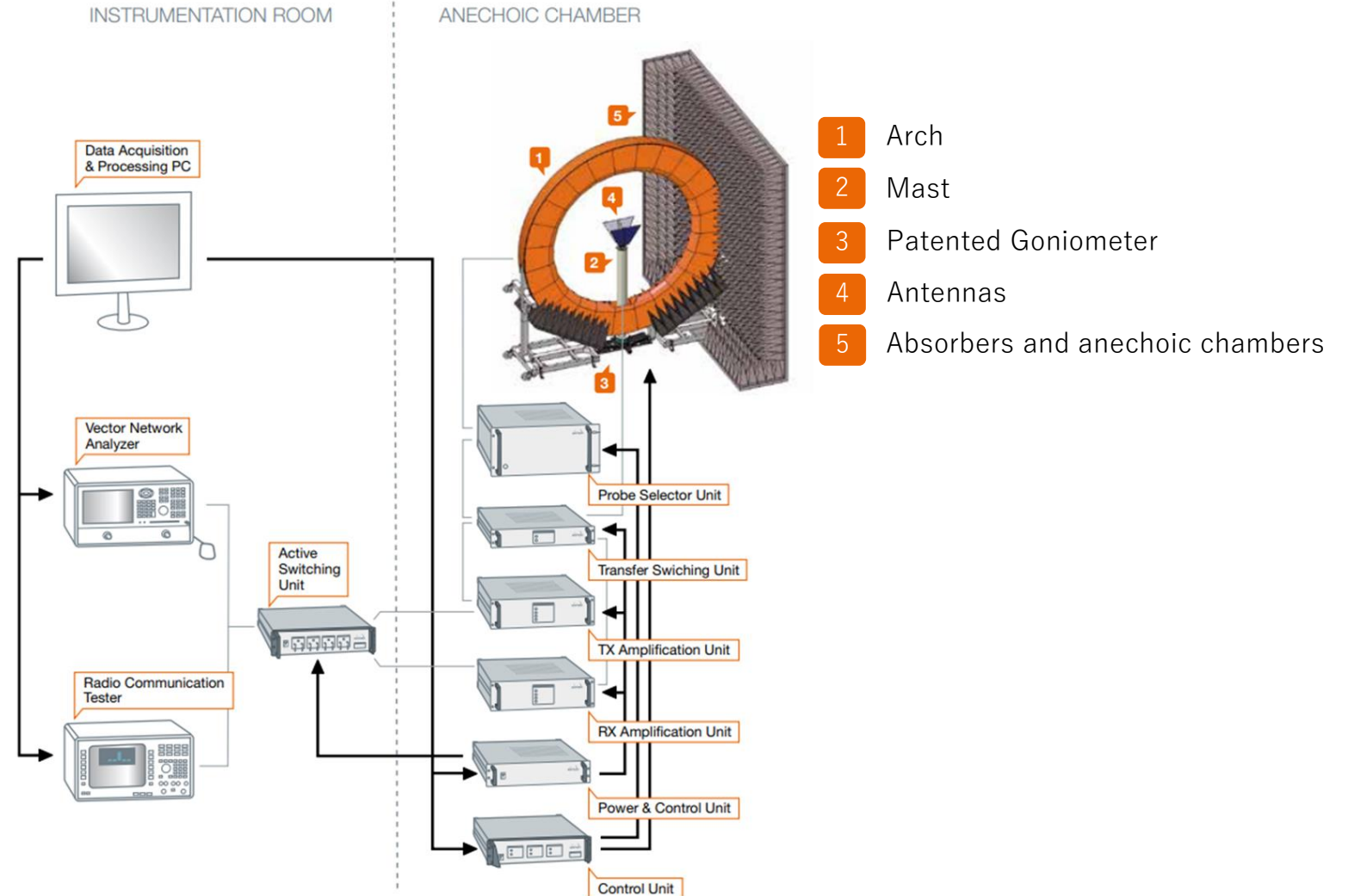


Shota Kinoshita (Technical Manager)

1. Measurement Procedure

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

System Overview



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	StarLab	1103042-0001	MVG	12 months	2023/12/21	
Y	M1062	ENA Network Analyzer	E5071C	MY46108074	Keysight Technologies	12 months	2024/3/13	
• The calibration is valid until the end of the expiration month.								

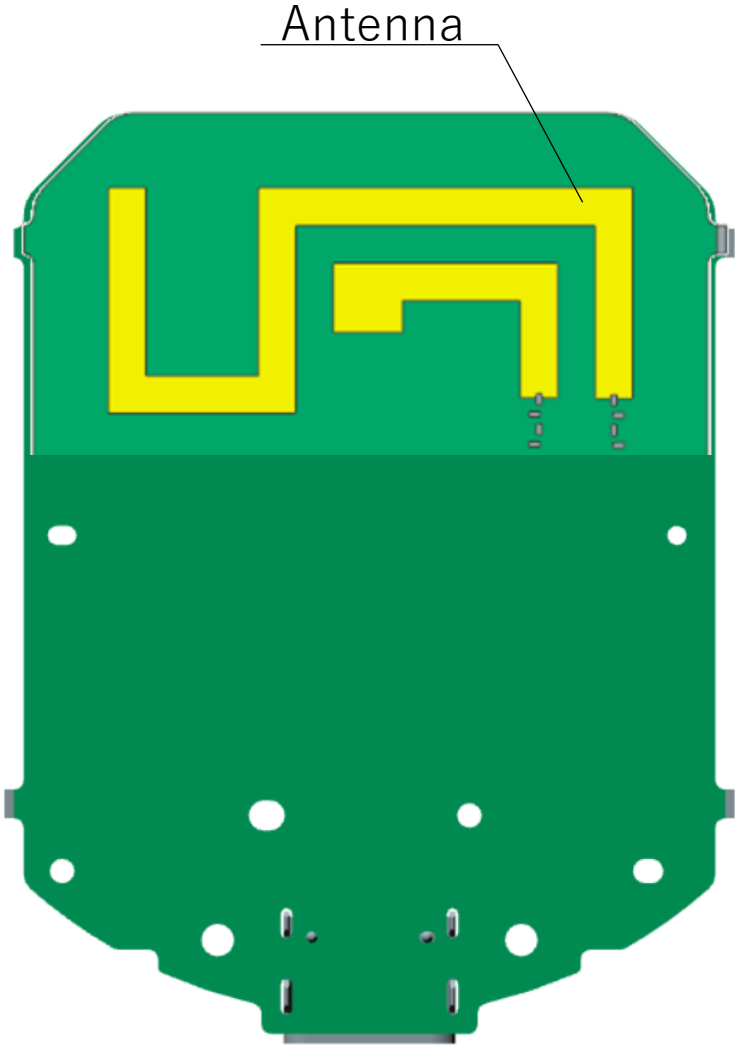
Measurement Software

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	

QM-PR1 Antenna Specification

Antenna type	Inverted-L
Peak Gain	+1.1 dBi
Frequency	2402 MHz -2480 MHz

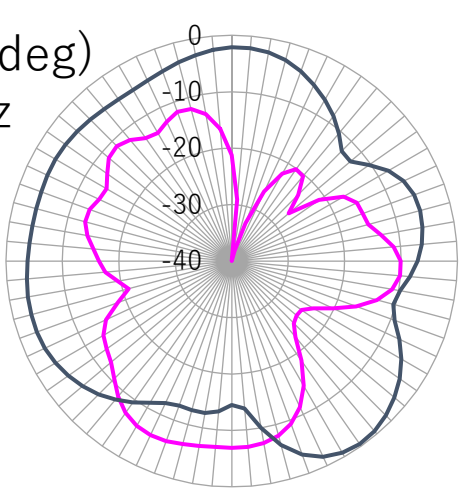
This antenna is on the circuit board.



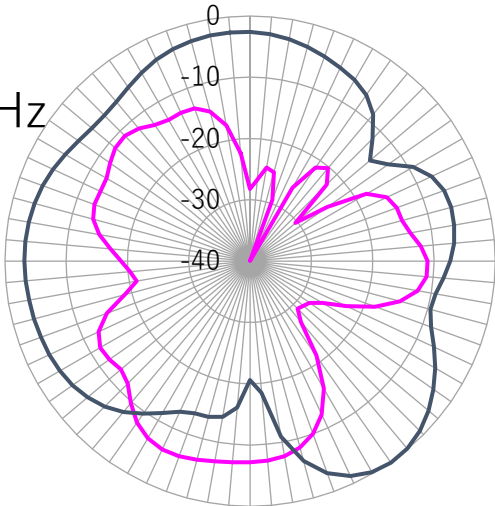
Peak Gain +1.1 dBi

	2402MHz		2408MHz		2414MHz		2420MHz		2426MHz		2432MHz		2438MHz		2442MHz		2448MHz		2454MHz		2460MHz		2466MHz		2472MHz	
Phi0	-5.97	-0.46	-6.07	-0.40	-6.01	-0.30	-6.12	-0.33	-6.01	-0.17	-6.03	-0.10	-6.21	-0.01	-6.09	0.14	-6.22	0.10	-6.17	0.18	-6.20	0.24	-6.20	0.38	-6.23	0.39
Phi90	0.56	-1.56	0.49	-1.60	0.53	-1.56	0.43	-1.68	0.61	-1.51	0.65	-1.48	0.68	-1.50	0.85	-1.40	0.76	-1.53	1.00	-1.46	0.97	-1.48	1.04	-1.46	1.06	-1.48
MAX	0.56		0.49		0.53		0.43		0.61		0.65		0.68		0.85		0.76		1.00		0.97		1.04		1.06	

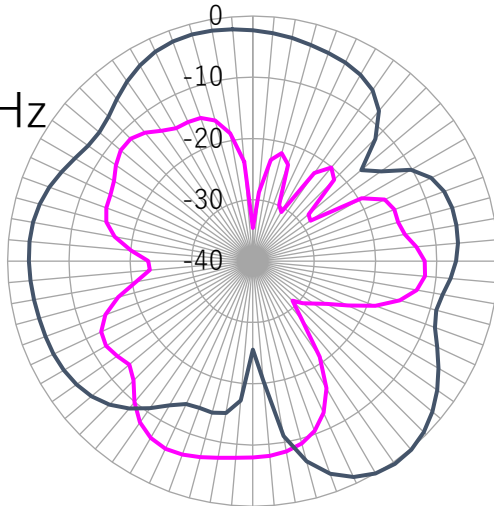
ZX(Phi 0deg)
2402MHz



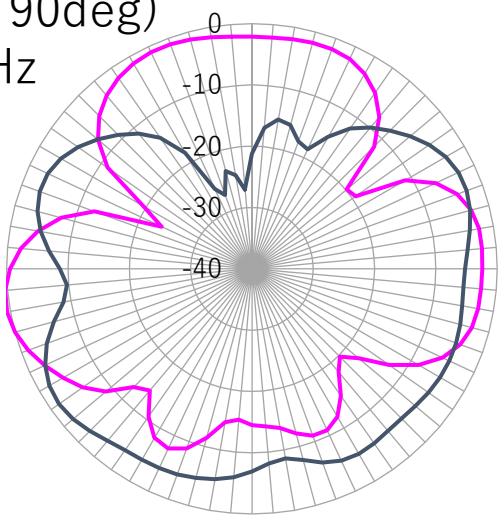
2442MHz



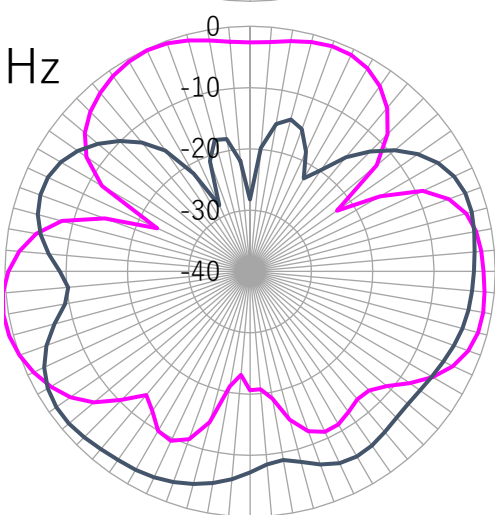
2472 MHz



YZ (Phi 90deg)
2402MHz



2442MHz



2472 MHz

