

Testing Report

Customer Name: Moment, Inc.

Product Name: Bluetooth Remote

Sample Model: 200-003

Reference Standard: *GB/T 9410-2008; ANSI/IEEE Std 149-1979*

Issue Date: 2025.12.25

Engineer: Zkmis	Date: 2025.12.25
Auditor: Eason	Date: 2025.12.25
Approver: Amona	Date: 2025.12.25

A circular blue seal with a serrated edge. The outer ring contains the text "Shenzhen RFI-LAB Communication Technology Co., Ltd." in white. The center of the seal features the text "RFI-LAB" in white.

Version

Version No.	Date	Description	Formulate	Approval
A0	2025.12.25	For the first time, formulate	Zkris	Eason

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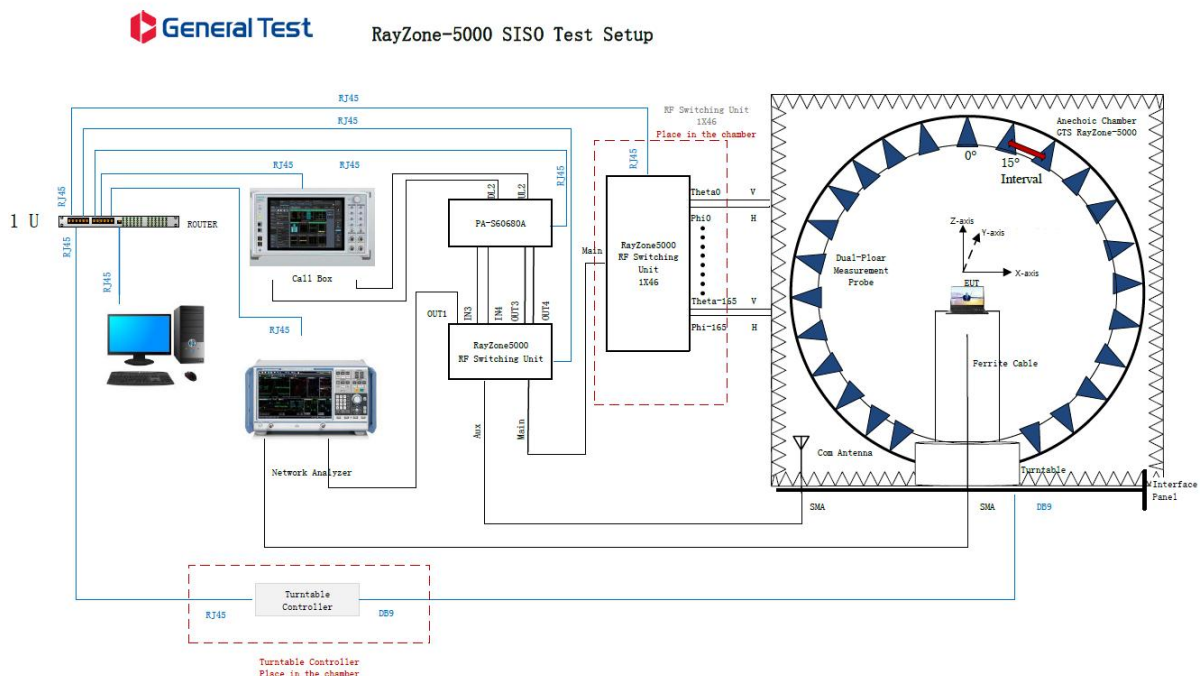
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1.General Information

1.1 General information of testing institutions

Name	Shenzhen RFI-LAB Communication Technology Co., Ltd.
Address	103 Building 1 Tingwei Industrial Park,No.6, Liufang Road, Zone 67Xingdong,Xin'an Subdistrict,Bao'an District, Shenzhen, Guangdong, China
Tel	13682621346
E-mail	rfi-lab_cs@tech-now.com
Equipment	All the equipment used in the report is fixed in 103 Building 1 Tingwei Industrial Park,No.6, Liufang Road, Zone 67Xingdong,Xin'an Subdistrict,Bao'an District, Shenzhen, Guangdong, China

1.2 Testing principle



1.3 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
OTA Test System	RayZone-5000	RFI-LAB-RF-D00	GTS	2023.3.14	2026.3.13
Network Analyzer	E5071C	RFI-LAB-RF-D01	KEYSIGHT	2025.5.26	2026.5.25
Network Analyzer	E5071C	RFI-LAB-RF-C02	KEYSIGHT	2025.5.26	2026.5.25

1.4 Test environment

Temperature	23.7°C
Humidity	58%RH
Pressure	100.13kPa

1.5 Statement

- (1) The test results in the report are only applicable to the tested samples and the tested samples work under the environment described in the report.
- (2) Only Shenzhen RFI-LAB Communication Technology Co., Ltd. have the right to modify the report, and the modification information shall be annotated in the revision form.
- (3) Any objection to this report shall be raised within 30 days after formal confirmation of the report.
- (4) This report is invalid if there is any evidence that the sample information provided is falsified.
- (5) The report is invalid without the signature of the auditor and approver.

2.Sample Information

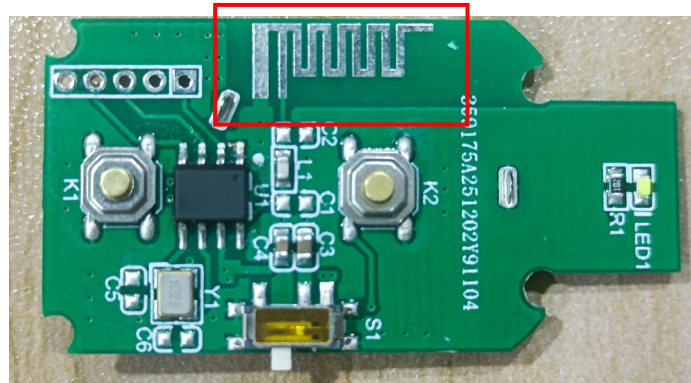
2.1 Client information

Name	Moment, Inc.
Address	3851 1st ave s, seattle Wa 98134, USA
Contacts	Rita Xiao
Tel	13538218145
E-mail	m13538218145@163.com
Manufacturer	Deka Mould Industrial Co., Limited
Address	Buxingji Industrial Zone FENGGUAN TOWN DONGGUAN CITY CHINA

2.2 Description of EUT(S)

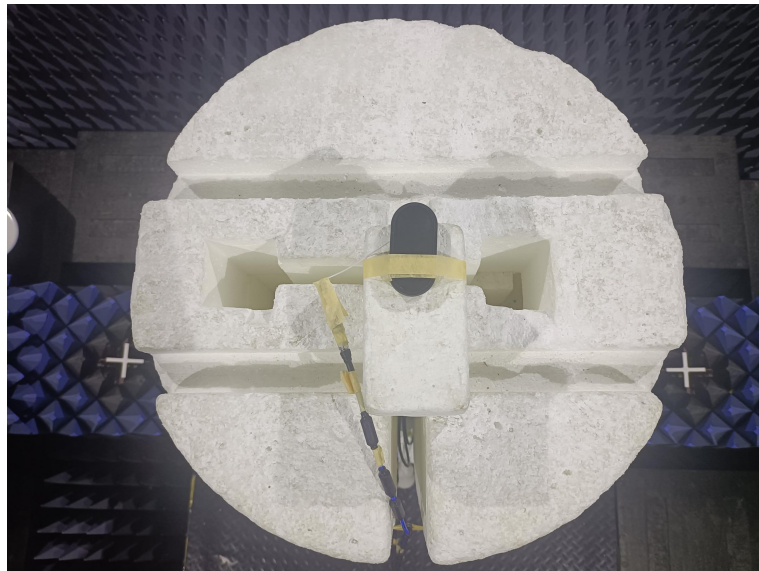
Product Name	Bluetooth Remote
Sample Model	200-003
Serial No.	/
Antenna Type	PCB Antenna
Test Item	VSWR;Antenna gain; Efficiency; Radiation pattern
Frequency Range	2400~2500MHz
Received Date	2025.12.25
Test Date	2025.12.25
Remark	/

2.3 EUT appearance

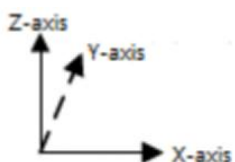
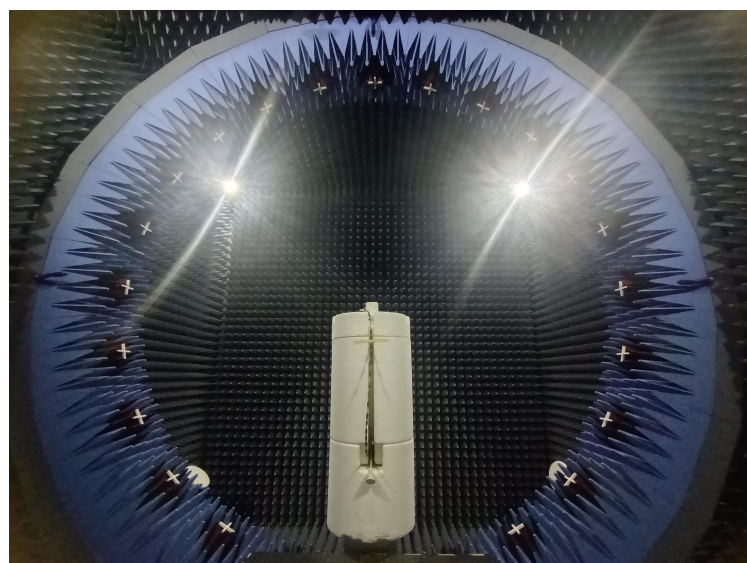


2.4 EUT setup photo of free space OTA testing

Planform



Front view



3. Test Results

3.1 Test standard

Name	Parameter	Method	Standard no.
Mobile communication antenna	Antenna gain	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Radiation pattern		
	VSWR		
Antenna	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979
	Gain and directivity		

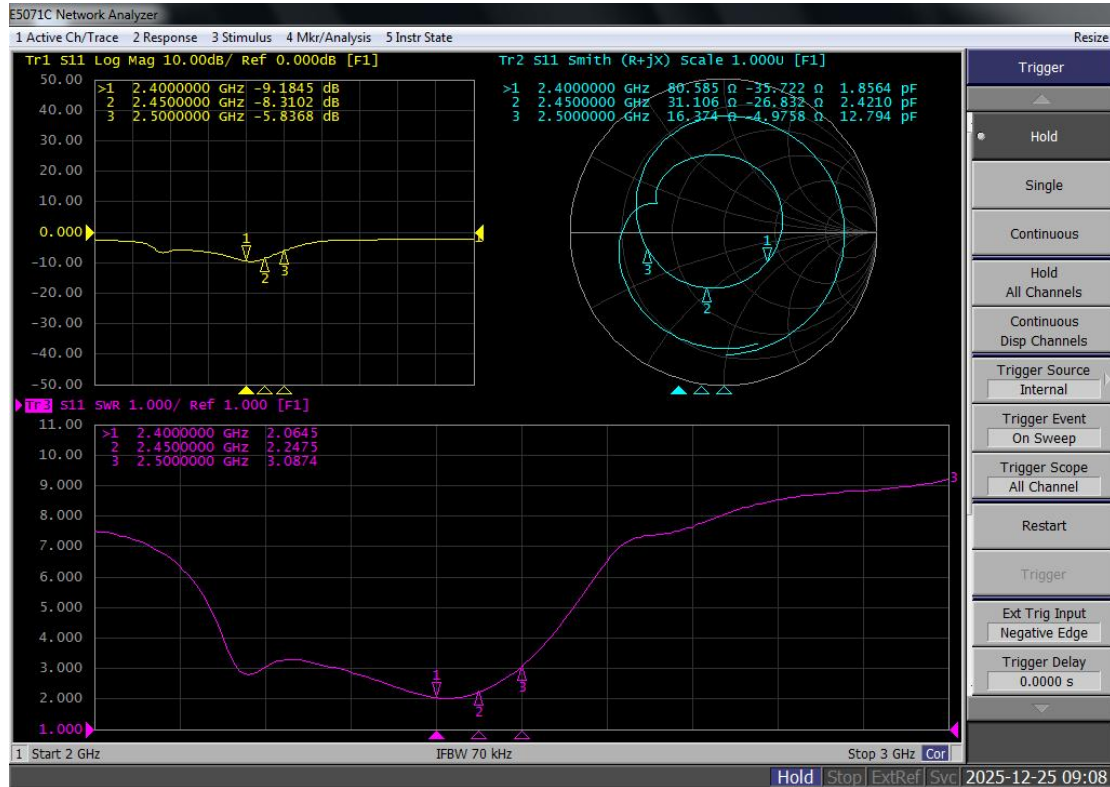
3.2 Test uncertainty

The uncertainty was calculated on the basis of the GUM published by ISO, using the inclusion factor of $K=2$ and the 95% confidence level to express the extended uncertainty.

Item	Uncertainty
VSWR	± 0.3
Antenna gain	$\pm 0.72\text{dB}$
Radiation efficiency	$\pm 0.72\text{dB}$

3.3 Test data

3.3.1 S11 parameters



3.3.2 S11 data

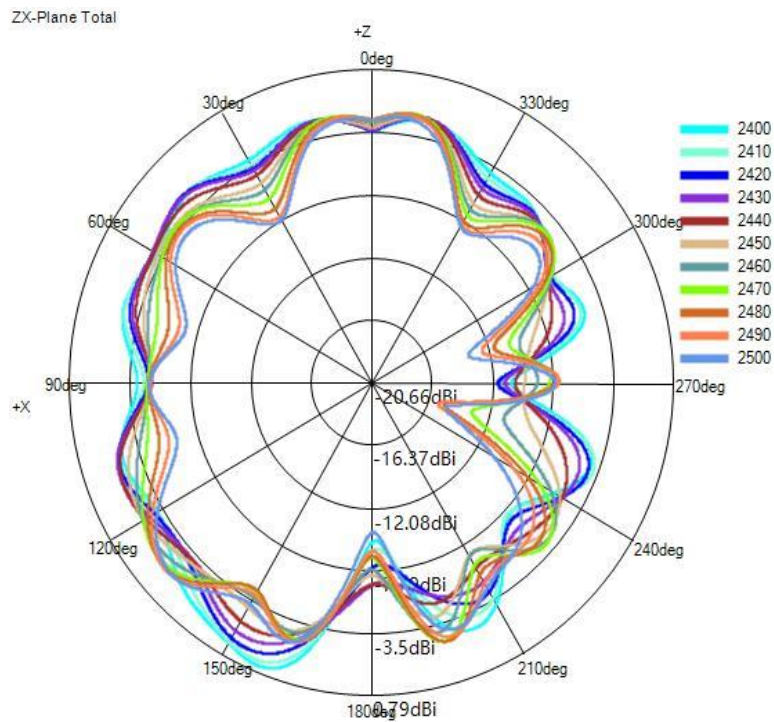
Frequency/MHz	2400	2450	2500
VSWR	2.0645	2.2475	3.0874

3.3.3 Typical free space efficiency and gain

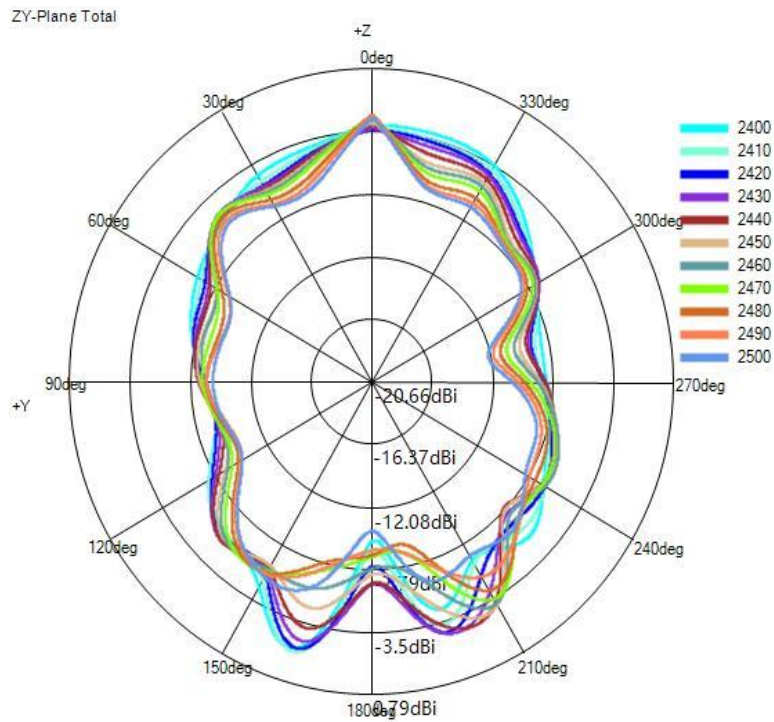
Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain/dBi	0.49	0.43	0.18	-0.20	-0.31	-0.34	-0.13	-0.11	-0.32	-0.87	-1.26
Efficiency/%	33.41	32.74	32.08	31.87	31.10	29.49	29.09	28.31	26.31	24.68	23.32

3.3.4 Typical free space radiation pattern

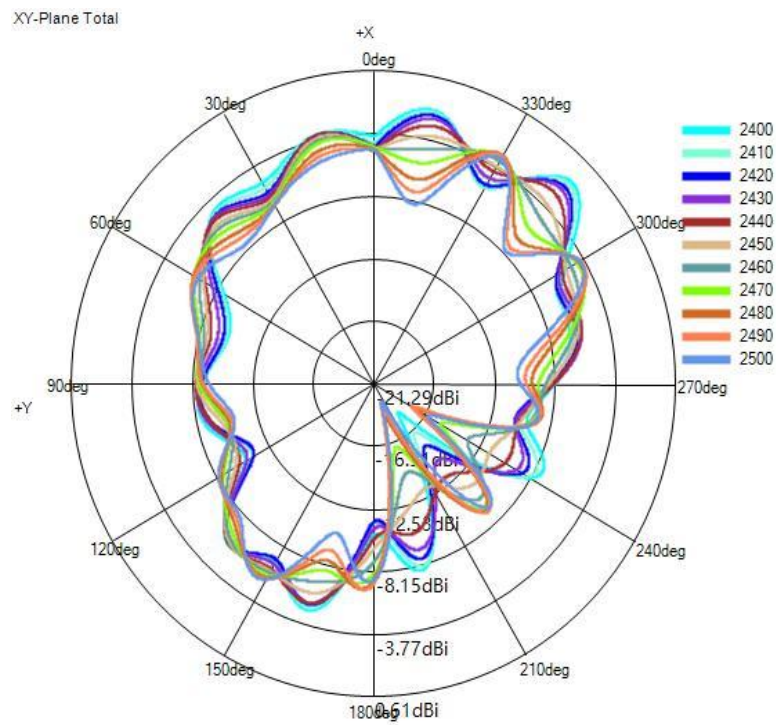
(1) X-Z Plane(unit:dBi):



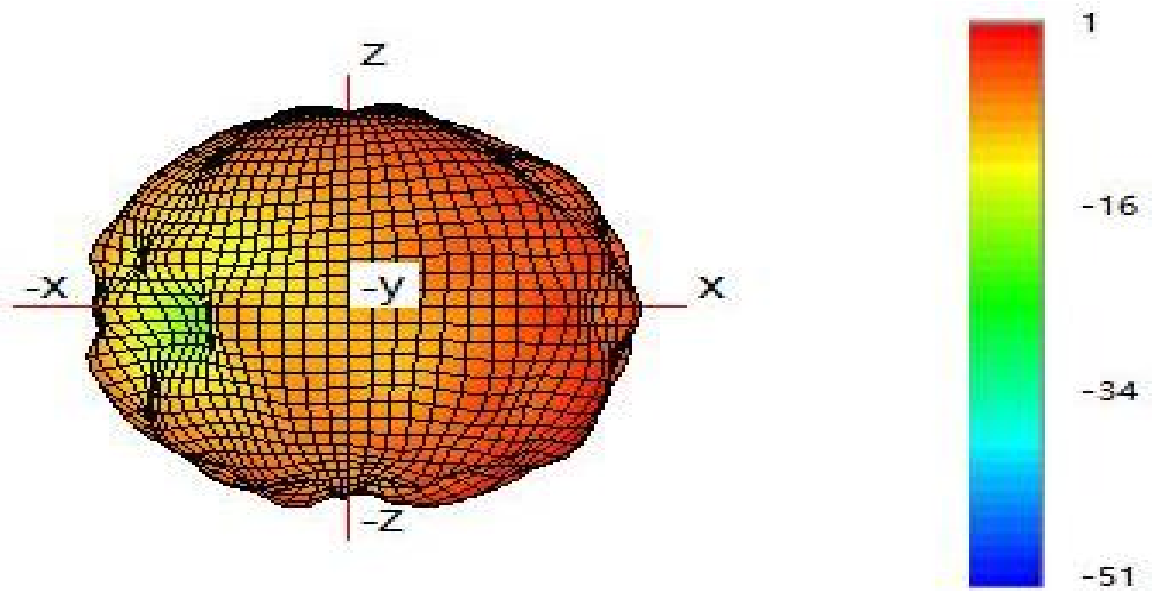
(2) Y-Z Plane(unit:dBi):



(3) X-Y Plane(unit:dBi):



(4) Typical Free Space 3D Radiation Pattern at 2.4GHz(unit:dBi):



End

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