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# ANTENNA PASSIVE TEST REPORT

Application No. SUOA2411000076AT **Applicant** HCS (Suzhou) Limited Manufacturer HCS (Suzhou) Limited

**Type Name** Remote MIC Model No. RM0101/01BR

**Standards** ANSI/IEEE Std 149-2021

Date Initial Sample(s) Received 2024-11-01 2024-11-01 **Testing Start Date Testing Finish Date** 2024-11-01 **Report Issue Date** 2024-12-06

\*In the configuration tested, the EUT complied with the standards specified above.

Leno shi

Prepared by: Leno Shi/ Project

Manager

Caleb. Gao

Approved by: Caleb Gao/ **Technical Manager (Title)** 

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## **Revision History**

Revision Issue Date		Description	
01	2024-12-06	The Final Version of Report	

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### 1 General Information

### 1.1 Testing Laboratory

Identification of the Responsible Test Laboratory

-		
Test Lab	SGS-CSTC Standards Technical Service (Suzhou) Co., Ltd.	
Address	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone	
Contact	Caleb Gao	
Tel.	+86 13621559335	
Fax	N/A	
E-mail	Caleb.Gao@sgs.com	

### 1.2 Details of Applicant

Applicant's Name	HCS (Suzhou) Limited
Applicant's Address	19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou, P.R.China
Contact	Viky
Tel.	0512-68786049
Fax	N/A
E-mail	Viky.zhuo@omniremotes.com

#### 1.3 Details of Manufacturer

Manufacturer's Name	HCS (Suzhou) Limited		
Manufacturer's Address	19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou, P.R.China		
Contact	Viky		
Tel.	0512-68786049		
Fax	N/A		
E-mail	Viky.zhuo@omniremotes.com		

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### 1.4 Description of EUT(s)

Device Description:	ETC Antenna
Device type:	ETC Antenna
Device Manufacturer:	HCS (Suzhou) Limited
Device Model:	RM0101/01BR
Hardware Version:	V0.5
Software Version:	N/A
IMEI:	N/A
Air Interface Supported	N/A
Air Interface Tested Device Power Class:	N/A
Dimension:	N/A
Antenna type:	Multilayer ceramic Antenna
Configuration of Primary Mechanical Mode:	N/A

### 1.5 Test Procedure

Testing is performed according to ANSI/IEEE Std 149-2021.

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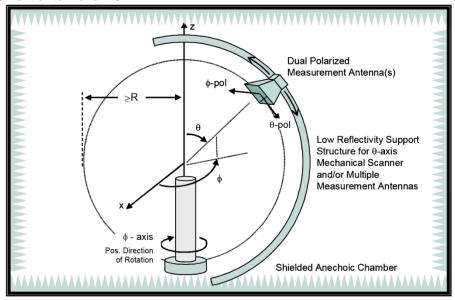
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### **Measurement System Information**

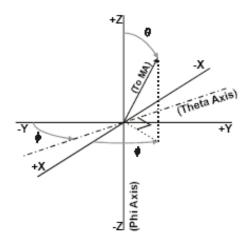
#### 2.1 **Test Configuration**

Conical-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1.5m



#### 2.2 Test Measurement

Spherical coordinate system



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## **Equipment List**

Inventory No.	Equipment	Manufacturer	Model No.	Calibration Date	Calibration  Due Date
SUWI-01-06-01	Network Analyzer	R&S	ZNB8 S/N 103535	2024-02-04	2025-02-03
SUWI-02-06-01	Switch Control System	R&S	OSP 130 S/N 100358	N/A	N/A
SUWI-02-07-01	Test Software	ETS-Lindgren L.P	EMQuest™ REV 1.14 Build 31654	N/A	N/A
SUWI-04-04-01	Full Anechoic Wireless Test chamber	ETS-Lindgren L.P	ETS-Lindgren AMS- 8923 CT000596-1149	2024-05-08	2027-05-07

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## 4 Measurement Uncertainty

Item	617- 698MHz (dB)	699- 798MHz (dB)	814- 894MHz (dB)	1695- 1780MHz (dB)	1850- 2020MHz (dB)	2300- 2800MHz (dB)	3300- 3800MHz (dB)	5150- 5925MHz (dB)
Gain	0.75	0.9	0.74	0.84	0.83	0.9	0.84	0.86
Efficiency	0.75	0.9	0.74	0.84	0.83	0.9	0.84	0.86

Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2

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## 5 Test Result(s)

Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2300	-1.78	-8.98	12.65
2310	-1.53	-8.95	12.72
2320	-0.20	-7.32	18.52
2330	-0.08	-6.95	20.20
2340	-1.29	-8.08	15.57
2350	-0.96	-7.36	18.38
2360	0.39	-5.66	27.16
2370	-0.35	-6.43	22.77
2380	0.19	-6.11	24.48
2390	1.21	-5.31	29.47
2400	0.75	-5.57	27.76
2410	0.60	-5.66	27.15
2420	1.07	-5.07	31.15
2430	0.67	-5.59	27.63
2440	0.69	-5.65	27.22
2450	0.66	-5.47	28.35
2460	-0.07	-6.15	24.24
2470	-0.44	-6.46	22.58
2480	0.27	-5.74	26.70
2490	-0.42	-6.52	22.30
2500	-1.37	-7.53	17.66

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Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2510	-0.70	-6.79	20.94
2520	-1.56	-7.81	16.56
2530	-2.87	-9.44	11.38
2540	-2.54	-9.12	12.25
2550	-2.12	-8.27	14.90
2560	-3.25	-9.21	12.01
2570	-4.41	-10.37	9.17
2580	-3.54	-9.39	11.52
2590	-4.77	-10.45	9.02
2600	-6.01	-11.66	6.83

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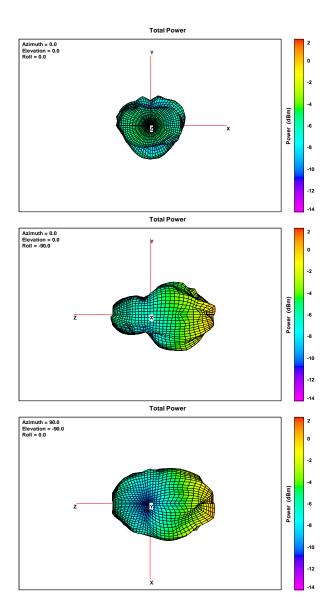
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### 3-D Antenna Pattern

#### 2400MHz



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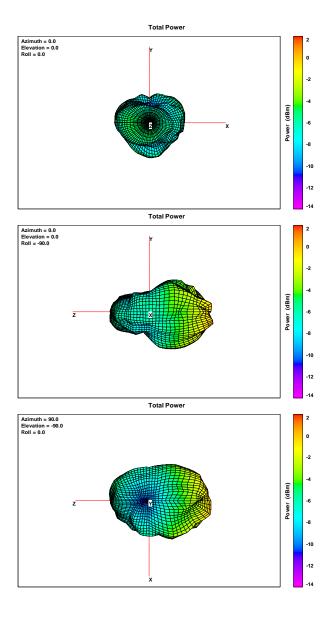


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#### 2450MHz



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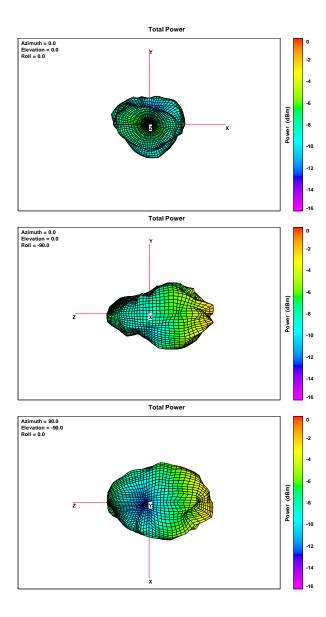


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#### 2500MHz



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# **EUT and Test Configuration**





#### **EUT**

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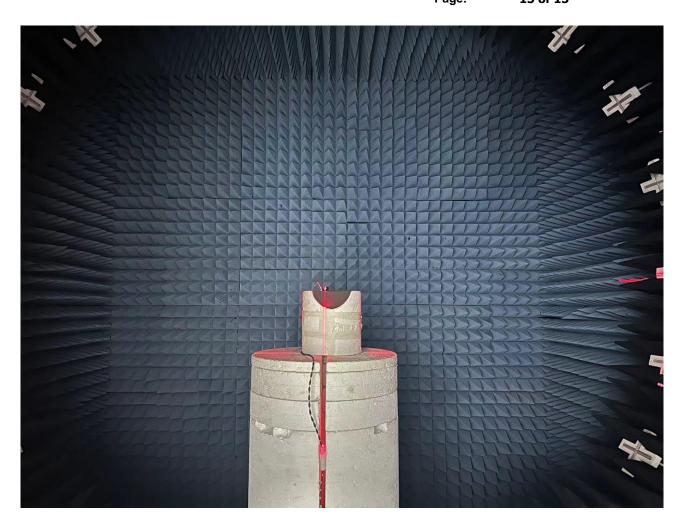
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View of Free Space Configuration

---End of Report---

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