

Antenna Test Report

Report No.: TEOT2509000990E4

**Applicant Name: FOXCONN INTERCONNECT TECHNOLOGY
LIMITED**

**Manufacturer Name: FOXCONN INTERCONNECT TECHNOLOGY
LIMITED**

Product Name: UBA(內建 UWB 天線)

Model Number: UBA(內建 UWB 天線)

**Measurements performed at
SGS Taiwan Ltd.
Hwaya District, Taiwan**

Issued Date : October 28, 2025

	Name	Date & Signature	Distribution
Prepared by:	Nandi Chen Sr. Engineer	<i>Nandi Chen</i> October 28, 2025	
Approved by:	Shawn Yen Supervisor	<i>Shawn Yen</i> October 28, 2025	

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Revision Version

Report Number	Revision	Date	Memo
TEOT2509000990E4	00	2025/10/28	Initial creation of test report.

This test report contains a reference to the previous version test report that it replaces.

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Measurement System Information

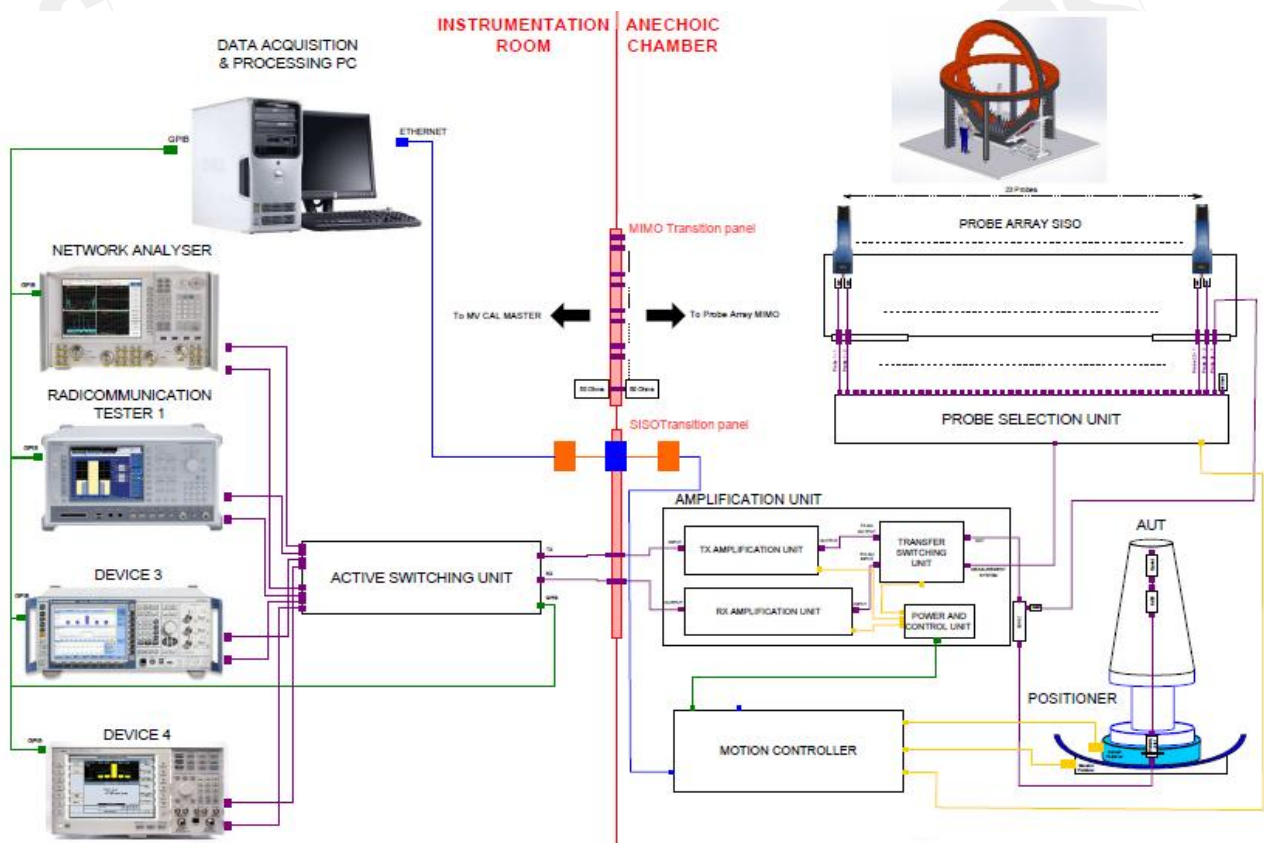
General Information

Testing Condition:

- Temperature: $22 \pm 3^\circ\text{C}$
- Humidity: $< 80\%$

Measurement Facility:

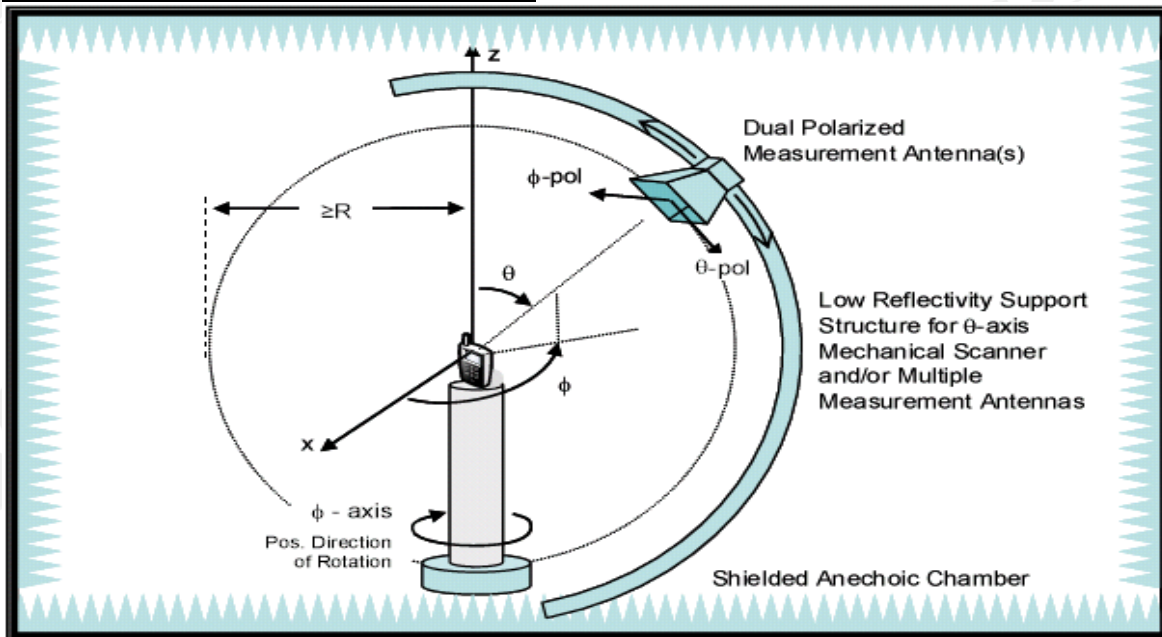
- Measurement Chamber: MVG 3D fully anechoic chamber and its measuring system (Stargate-24-L)
- Network Analyzer: Agilent E5071C



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Measurements are performed in a MVG **Stargate-24-L** with the StarAct interface for a base station simulator. The **Stargate-24-L** has 23 probe antennas mounted with equal spacing on a circular arch. Electronic switching of the probe antennas provides outstanding measurement speed. The geometry of the setup, with only a Styrofoam column within 1.6 meters of the EUT, ensures minimum interference and low ripple on the measured radiation patterns. The DUT is placed on top of the pedestal, in the center of the system.

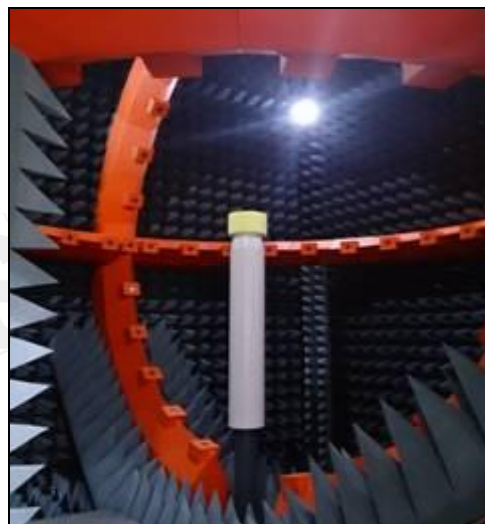
Typical Setup for MVG Stargate-24-L:



Instruments View



Inside View



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Testing Laboratory: Identification of the Responsible Test Laboratory.● **OTA Laboratory:****SGS Taiwan Ltd. Wireless Laboratory**

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Telephone: +886 2 2299 3279

Fax: +886 2 2298 0488

Internet: <http://www.tw.sgs.com>

● **Testing Location:**

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Details of Applicant:

Applicant's name:	FOXCONN INTERCONNECT TECHNOLOGY LIMITED
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Details of EUT:

Device Description:	UBA(內建 UWB 天線)
Device Manufacturer:	FOXCONN INTERCONNECT TECHNOLOGY LIMITED
Device Model:	UBA(內建 UWB 天線)
Hardware Version:	N/A
Software Version:	N/A
Frequency Range:	7650, 7740, 7920, 7990, 8000, 8240MHz
Antenna Type:	PCB Antenna

Duration of Tests:

Sample Receive Date:	2025-09-30
Test Starting Date:	2025-10-03
Test Ending Date:	2025-10-03
Report Issued Date:	2025-10-28

Photographs of EUT:**Top View****Bottom View**

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List of Equipment

Equipment Summary Sheet

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Network Analyzer	Agilent	E5071C	2025/07/11	2026/07/10
Stargate-24-L probe array	MVG	Stargate-24-L	2025/08/12	2026/08/11
Measurement software	MVG	Wave Studio v23.3.2	N/A	N/A

Reference Measurement Procedure

The reference measurement procedure is described in SGS Working Instruction WI-TESP-EO-002 for OTA service, and MVG Support Document “SG24 active measurements user manual”. Measurements are made by placing the probe in contact with the sample and measuring the admittance or reflection coefficient with respect to the open-circuit end, using a network analyzer or equivalent instrumentation.

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Antenna Gain and Efficiency

UBA Internal UWB Antenna				
Frequency (MHz)	Efficiency (%)	Average Gain (dBi)	Peak Gain (dBi)	Directivity (dBi)
7650	66.22%	-1.79	4.59	6.38
7740	68.71%	-1.63	4.81	6.44
7920	69.18%	-1.60	4.91	6.51
7990	69.98%	-1.55	4.77	6.33
8000	70.47%	-1.52	4.81	6.33
8240	69.82%	-1.56	4.57	6.13

Test Setup

Front View



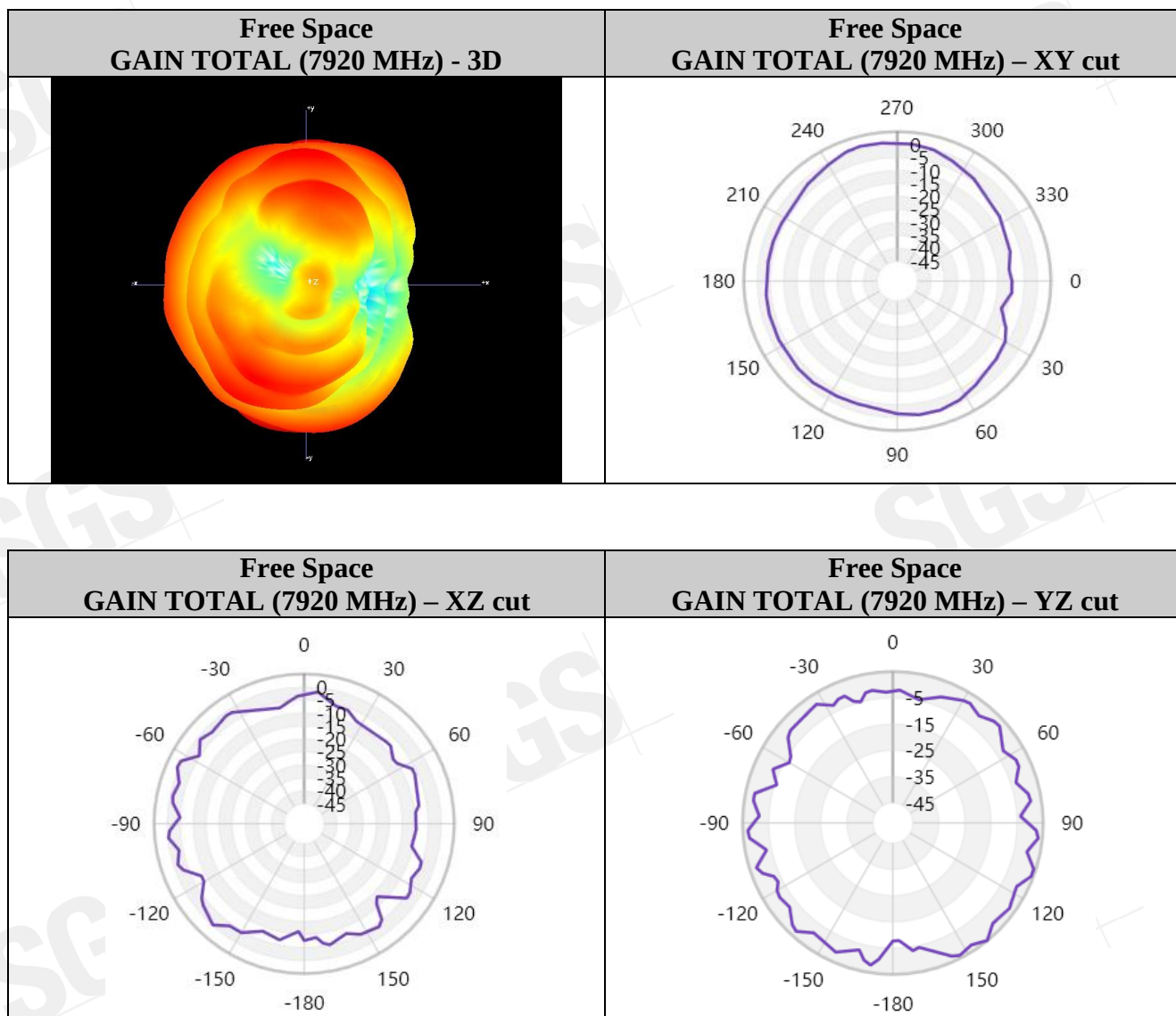
Side View



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Antenna 3D Plot Matrix

All plots in this section show the total GAIN TOTAL (GAIN TOTAL θ + GAIN TOTAL ϕ) with the +x-axis pointing right, +y-axis pointing up, and +z-axis pointing out of the page.



End of Report

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