

Report No.: TEOT2402000243E4 Page No.: 1 of 28

Antenna Test Report
Report No.: TEOT2402000243E4
Applicant Name: Sony Corporation
Manufacturer Name: Sony Corporation
Product Name: Portable Data Transmitter
FCC ID: PY7-46195Y Measurements performed at
SGS Taiwan Ltd. Hwaya District, Taiwan
Issued Date: February 27, 2024

	Name	Date & Signature	Distribution
Prepared by:	Nandi Chen Sr. Engineer	Nandi Chen February 27, 2024	
Approved by:	Shawn Yen Supervisor	Shawn Yen February 27, 2024	SGS



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### **Revision Version**

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Report Number	Revision	Date	Memo
TEOT2310000636E4	00	2023/11/20	Initial creation of test report.
TEOT2401000084E4	01	2024/02/21	Update test result.
			The original test report TEOT2310000636E4 will be
			withdrawn with this test report TEOT2401000084E4
			and is no longer valid when the withdrawal occurred.
TEOT2402000243E4	02	2024/02/27	Update test result.
			The original test report TEOT2401000084E4 will be
			withdrawn with this test report TEOT2402000243E4
			and is no longer valid when the withdrawal occurred.
	1		

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

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# **Measurement System Information**

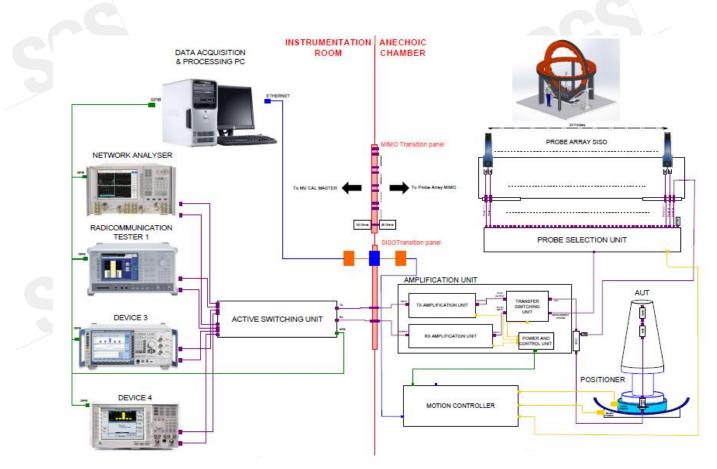
## **General Information**

## **Testing Condition:**

- Temperature: 22±3°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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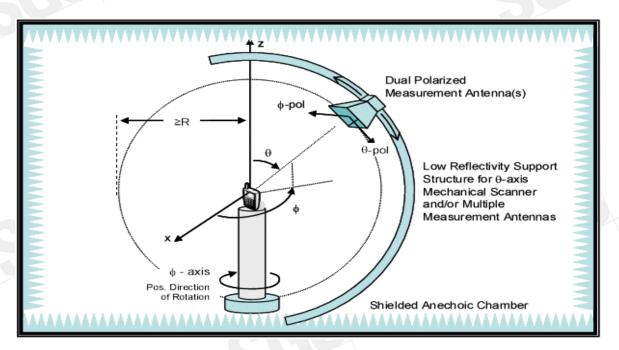
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Measurements are performed in a MVG Stargate-24-L with the StarAct interface for a base station simulator. The Stargate-24-L has 23 probe antennas mounted with equal spacing on a circular arch. Electronic switching of the probe antennas provides outstanding 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 EUT is placed on top of the pedestal, in the center of the system.

MVG Stargate-24-L uses analog RF signal generators to emit EM waves from the probe array to the EUT. It uses the NPAC as an RF receiver for antenna measurements.

We test gain by illuminating the EUT with a frequency swept RF signal from anechoic chamber "source antennas". Then measure the EUT's gain (dBi) via the substitution method. The substitution method involves setting up the calibrated standard antenna over a radiated path accross the chamber, then normalizing (or "zeroing") that path loss to 0 dB. Then substitute EUT in place of standard antenna, and re-measure the change in path loss. By simply adding standard antenna's calibrated gain (dBi) to the change in path loss, it can determine EUT gain in dBi. In other words, the EUT's gain is measured relative to the standard antenna.



### **Typical Setup for MVG Stargate-24-L:**

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### **Instruments View**



### **Inside View**



### **Testing Laboratory: Identification of the Responsible Test Laboratory.**

### **OTA Laboratory:**

### SGS Taiwan Ltd. Wireless Laboratory

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+886 2 2298 0488 Fax: Internet: http://www.tw.sgs.com

#### **Testing Location:**

No. 2, Keji 1<sup>st</sup> Rd., Hwaya Technology Park, Guishan District, Taoyuan City, Taiwan 33383.

#### **Details of Applicant:**

Applicant's name:	Sony Corporation			
Applicant's address:	1-7-1 Konan Minato-ku, Tokyo, 108-0075, Japan			

#### **Details of Manufacturer:**

Applicant's name:	Sony Corporation			
Applicant's address:	1-7-1 Konan Minato-ku, Tokyo, 108-0075, Japan			

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<b>Details of EUT:</b>	
Device Description:	Portable Data Transmitter
<b>Device Manufacturer:</b>	Sony Corporation
Device Model:	PY7-46195Y
Frequency Range:	2402MHz ~ 7115MHz
Antenna Type:	Internal
Antenna Size:	WiFi Main: 29.6 (L) x 17.5 (W) x 14.3 (H) mm
	WiFi Sub: 7.2 (L) x 22.0 (W) x 1.1 (H) mm

<b>Duration of Tests:</b>		
Sample Receive Date:	2023-10-13	
Test Starting Date:	2023-11-06	
Test Ending Date:	2024-02-26	
Report Issued Date:	2024-02-27	

## List of Equipment

654					
Equipment Description	Manufacturer	Identification no.	S/N	Current calibration date	Next calibration date
Notwork Analyzar	Agilopt	FE0710	MV46100422	2023/01/16	2024/01/15
Network Analyzer	Agilent	E5071C	MY46100433	2024/01/16	2025/01/15
Sleeve Dipole	MVG	SD740	SD740-07	2022/01/07	2025/01/06
Dual Ridge Horn	MVG	SH800	S0051	2022/11/25	2023/11/24
Stargate-24-L probe array	MVG	Stargate-24-L	MVG	2023/08/16	2024/08/15
Measurement software	MVG	SPM V1.9	N/A	N/A	N/A

Equipment Summary Sheet

## **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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## **Test Results** WiFi Main Antenna **Antenna Gain and Efficiency**

Freq(MHz)	Peak Gain (dBi)	Efficiency
2402	-1.63	28.29%
2441	-1.58	28.38%
2480	-1.85	30.56%
5180	-1.25	22.75%
5240	-1.87	26.63%
5260	-1.64	29.19%
5320	-1.05	32.34%
5500	-1.45	38.20%
5540	-1.53	37.63%
5600	-1.05	34.17%
5660	-1.05	32.63%
5700	-1.05	32.68%
5720	-0.98	31.49%
5725	-0.75	31.07%
5745	-0.95	34.22%
5800	-0.65	32.52%
5825	-0.53	31.93%
5850	-0.85	33.50%

Freq(MHz)	Peak Gain (dBi)	Efficiency
5955	-2.32	29.35%
6050	-1.86	24.48%
6175	-1.72	18.22%
6300	-1.89	22.66%
6415	-2.00	26.07%
6425	-1.43	25.53%
6435	-1.56	24.45%
6475	-1.53	25.84%
6515	-1.76	24.33%
6525	-1.85	25.80%
6535	-1.74	23.83%
6640	-1.80	22.66%
6760	-1.63	20.47%
6875	-1.72	19.51%
6895	-2.23	19.34%
7000	-2.24	20.01%
7115	-2.54	23.16%

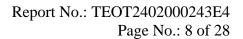
### **Maximum Gain**

- 2402 MHz 2480 MHz: -1.58 dBi
- 5180 MHz 5320 MHz: -1.05 dBi
- 5500 MHz 5720 MHz: -0.98 dBi
- 5725 MHz 5850 MHz: -0.53 dBi
- 5955 MHz 6415 MHz: -1.72 dBi
- 6435 MHz 6515 MHz: -1.53 dBi
- 6535 MHz 6875 MHz: -1.63 dBi
- 6895 MHz 7115 MHz: -2.23 dBi

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## WiFi Sub Antenna **Gain and Efficiency**

Freq(MHz)	Peak Gain (dBi)	Efficiency
2402	-3.60	23.21%
2441	-3.81	24.11%
2480	-3.32	26.01%
5180	-1.85	19.93%
5240	-3.42	17.93%
5260	-2.79	16.80%
5320	-2.02	16.27%
5500	-2.01	16.76%
5540	-1.61	17.77%
5600	-1.28	18.67%
5660	-0.96	20.24%
5700	-0.59	20.32%
5720	-0.79	20.16%
5725	-0.92	19.11%
5745	-0.92	21.15%
5800	-1.24	21.10%
5825	-1.60	19.10%
5850	-1.34	21.08%

Freq(MHz)	Peak Gain (dBi)	Efficiency
5955	-3.28	17.12%
6050	-3.02	16.31%
6175	-2.92	16.46%
6300	-2.34	20.58%
6415	-2.78	21.64%
6425	-2.11	23.84%
6435	-2.03	22.03%
6475	-1.99	22.54%
6515	-1.78	22.06%
6525	-1.93	23.34%
6535	-1.84	21.75%
6640	-2.10	19.53%
6760	-2.02	18.97%
6875	-2.45	18.42%
6895	-2.89	16.81%
7000	-3.89	15.42%
7115	-3.98	12.04%

**Maximum Gain** 

- 2402 MHz 2480 MHz: -3.32 dBi
- 5180 MHz 5320 MHz: -1.85 dBi
- 5500 MHz 5720 MHz: -0.59 dBi
- 5725 MHz 5850 MHz: -0.92 dBi
- 5955 MHz 6415 MHz: -2.34 dBi
- 6435 MHz 6515 MHz: -1.78 dBi
- 6535 MHz 6875 MHz: -1.84 dBi
- 6895 MHz 7115 MHz: -2.89 dBi

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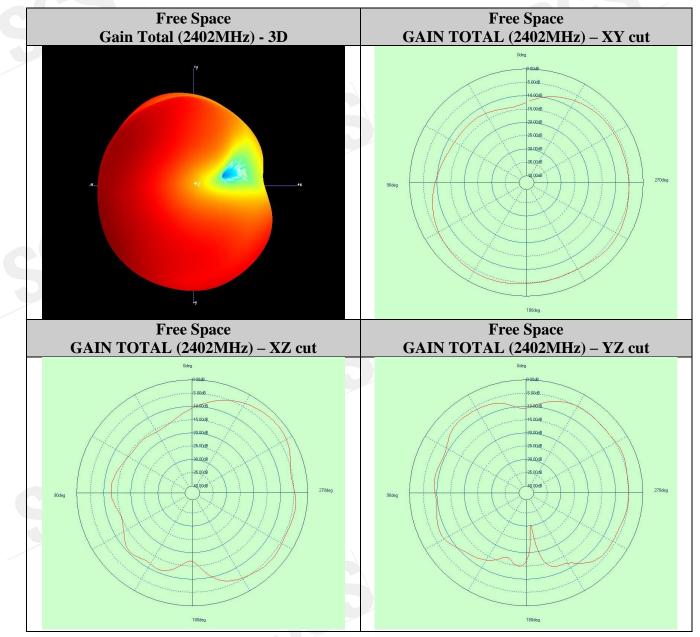
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## Antenna 3D Plot Matrix

All plots in this section show the Gain Total ( $Gain\theta + Gain\phi$ ) with the +x-axis pointing right, +yaxis pointing up, and +z-axis pointing out of the page.

## WiFi Main Antenna



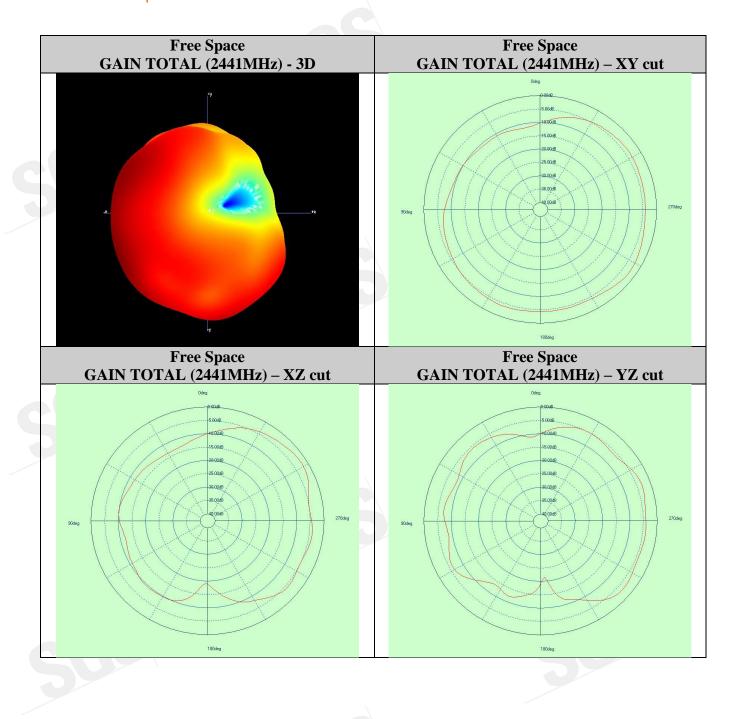
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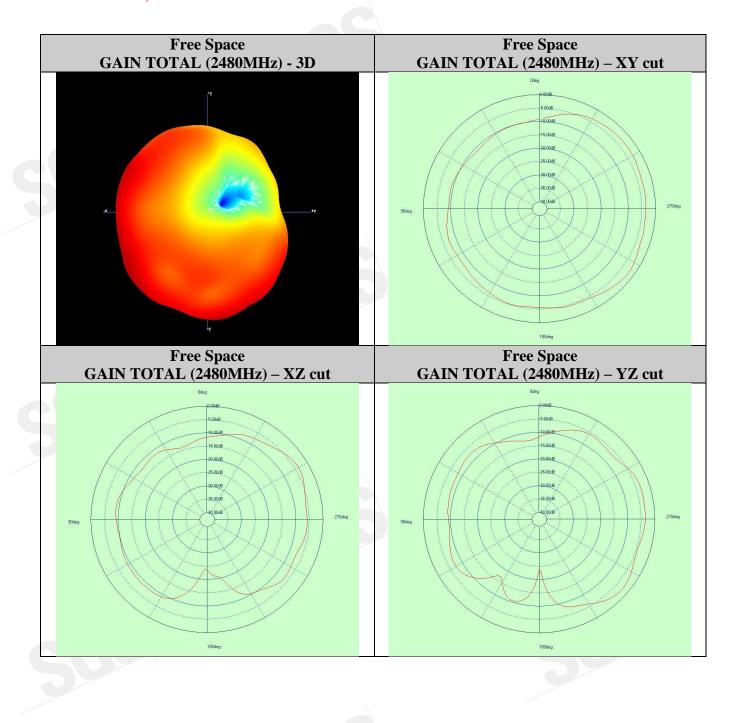
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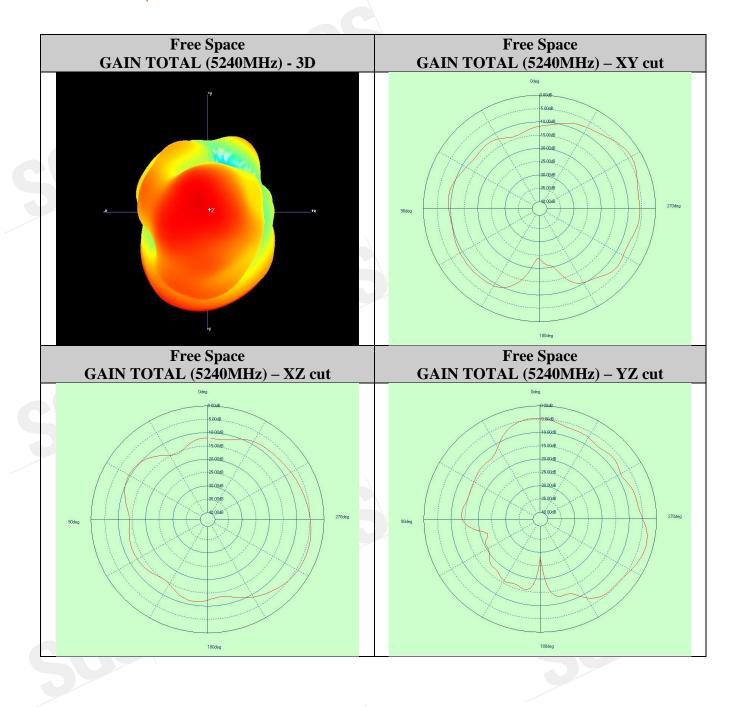
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Report No.: TEOT2402000243E4 Page No.: 12 of 28



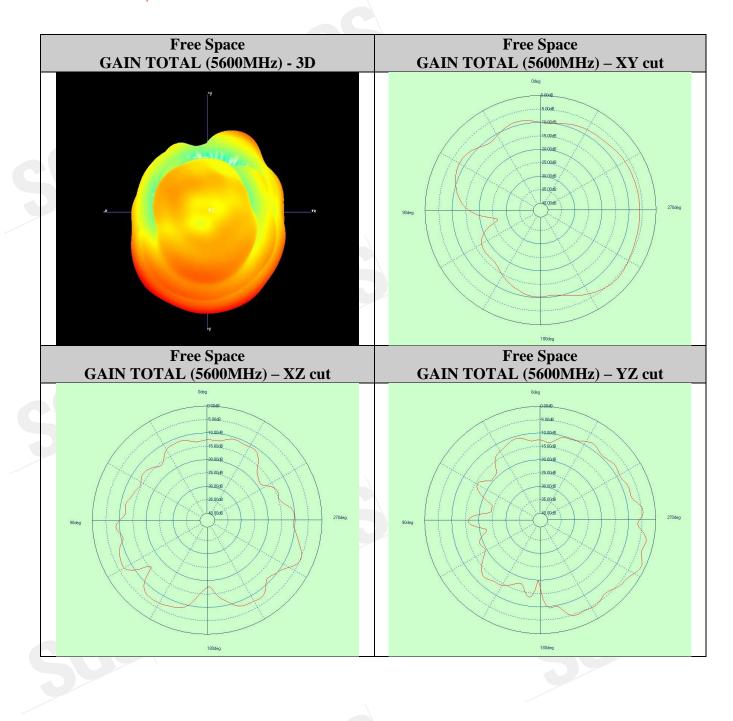
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Report No.: TEOT2402000243E4 Page No.: 13 of 28



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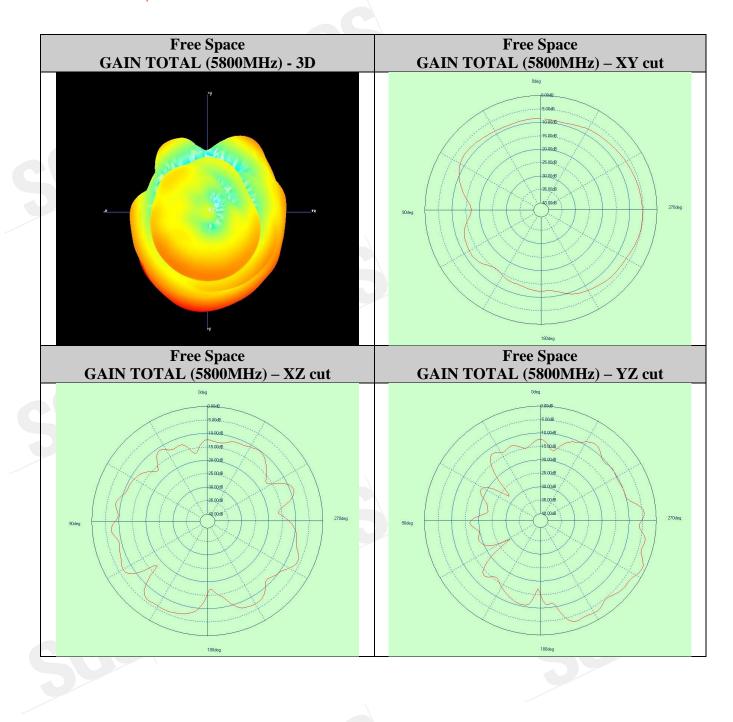
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Report No.: TEOT2402000243E4 Page No.: 14 of 28



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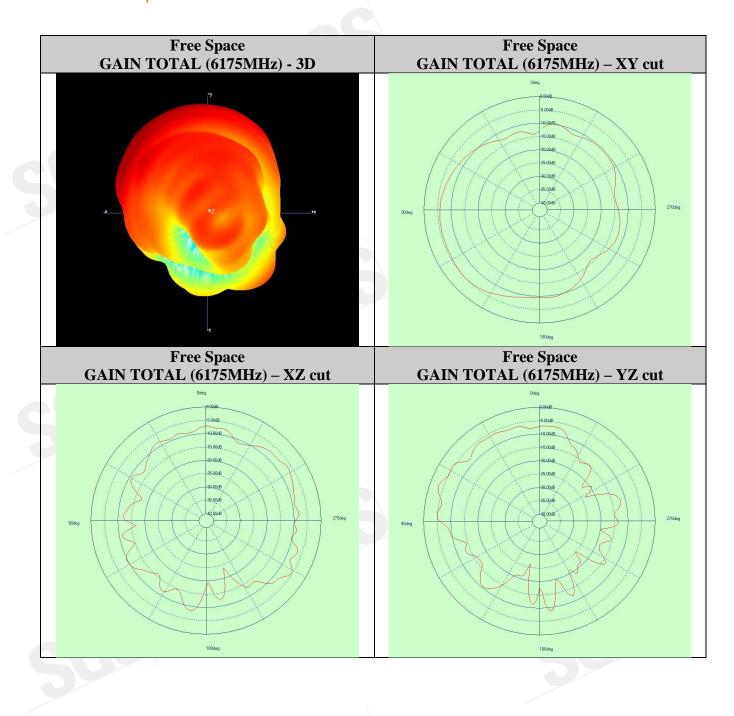
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Report No.: TEOT2402000243E4 Page No.: 15 of 28



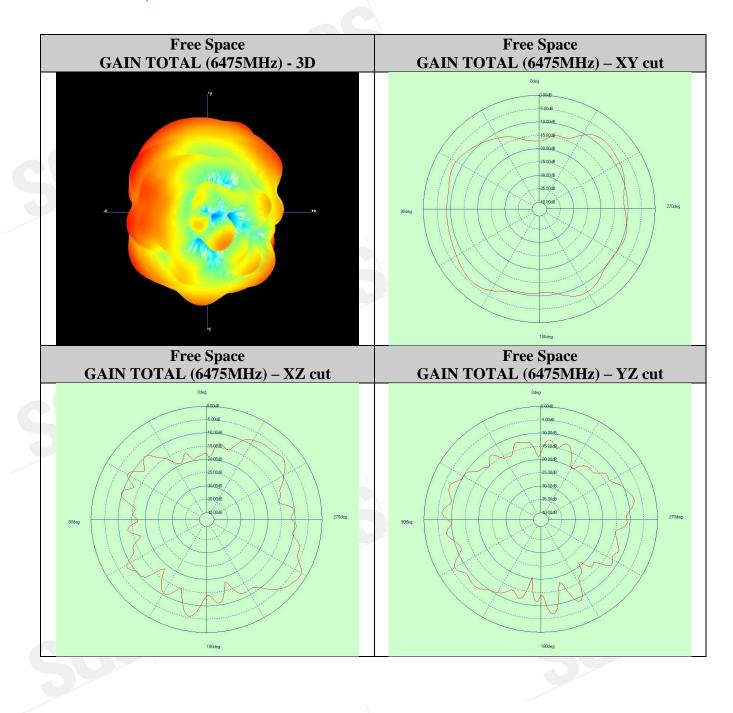
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Report No.: TEOT2402000243E4 Page No.: 16 of 28



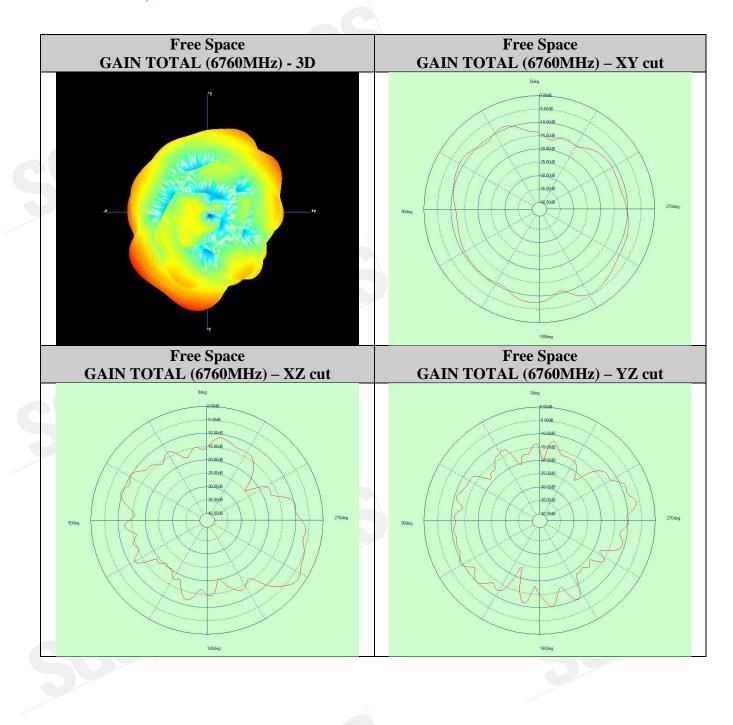
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Report No.: TEOT2402000243E4 Page No.: 17 of 28

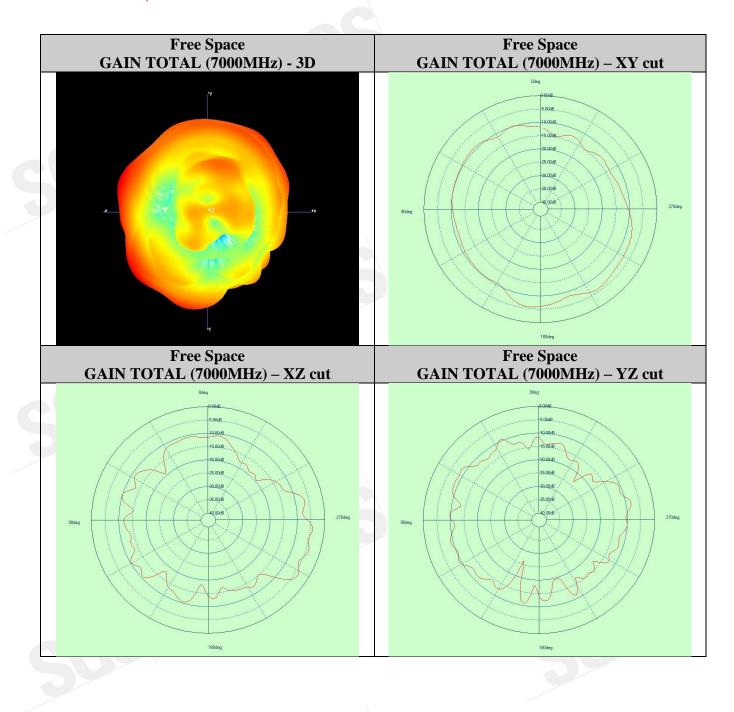


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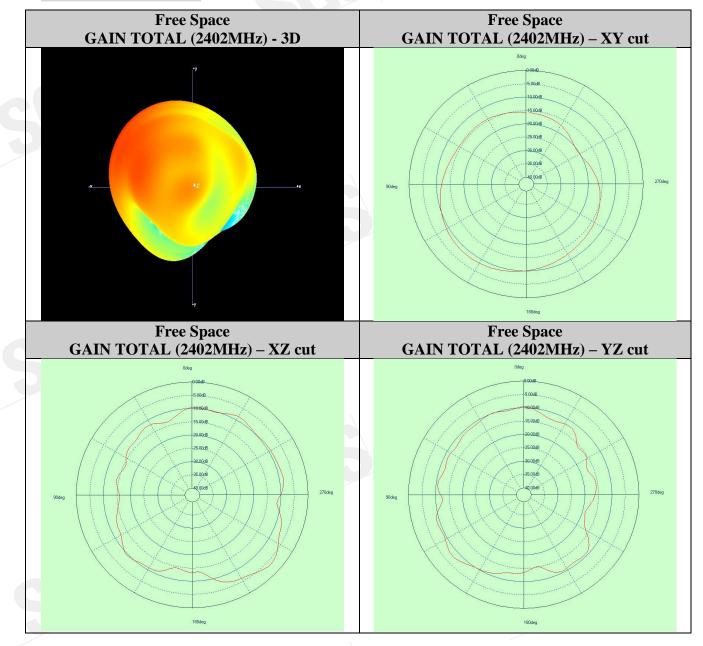
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## WiFi Sub Antenna

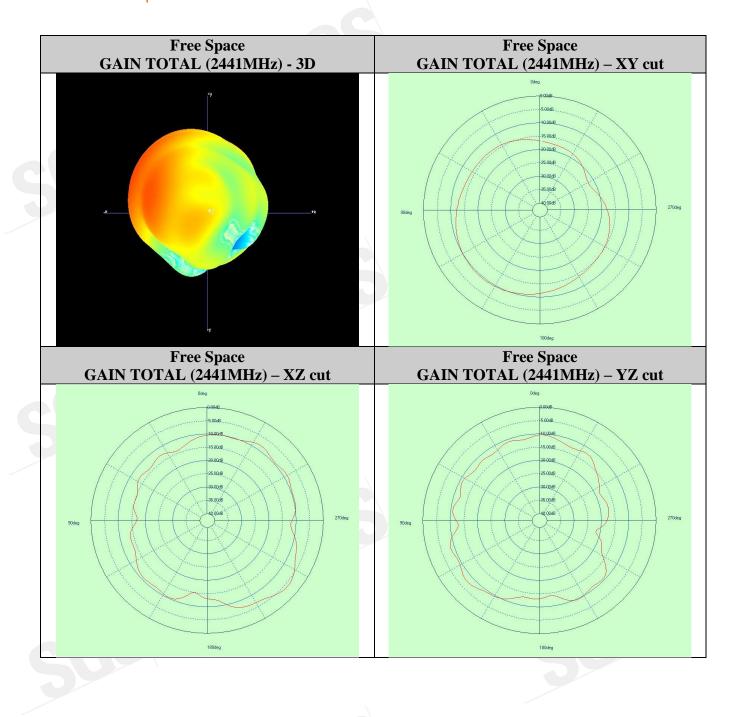


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Report No.: TEOT2402000243E4 Page No.: 20 of 28



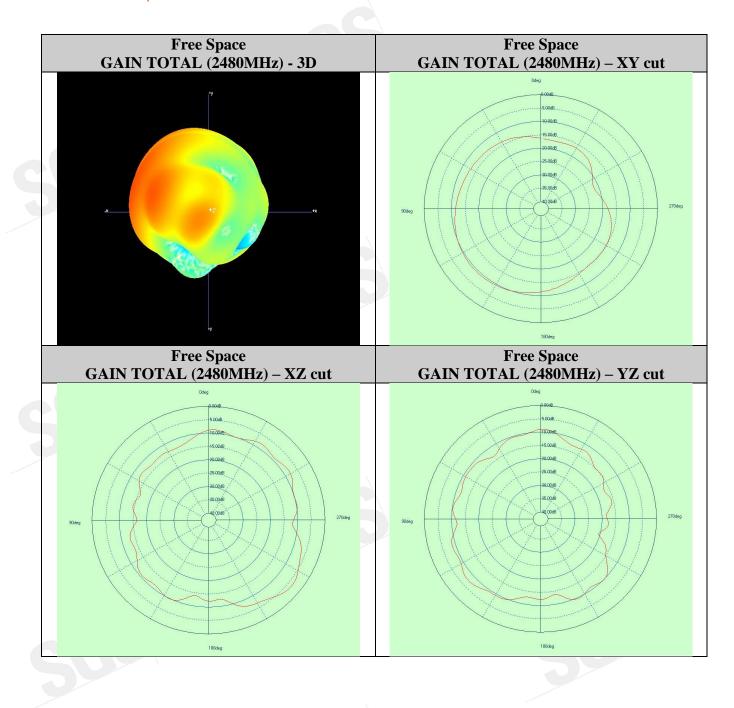
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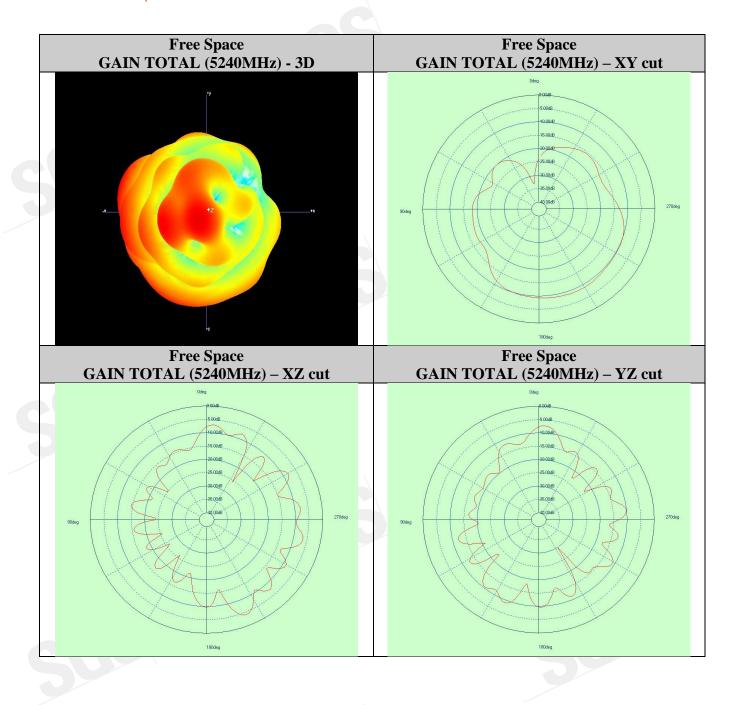
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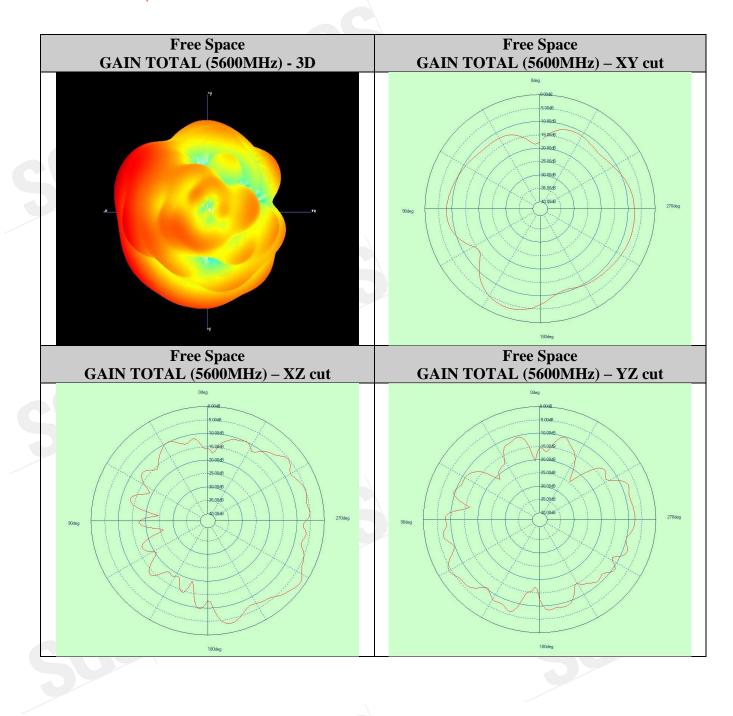
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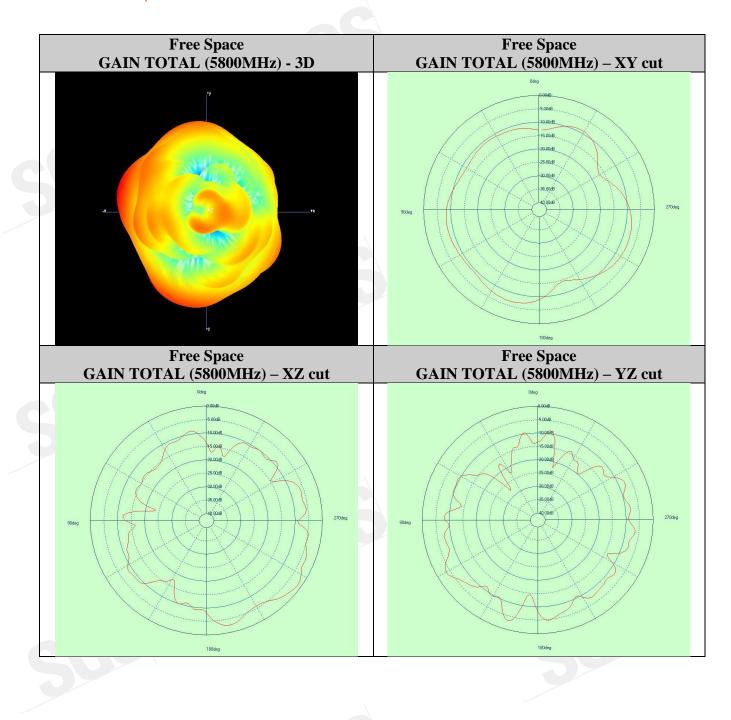
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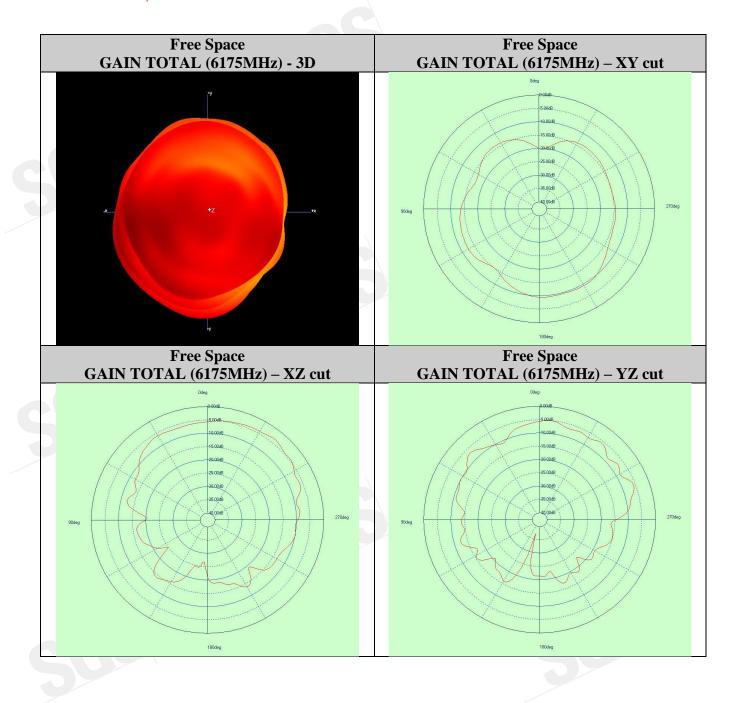
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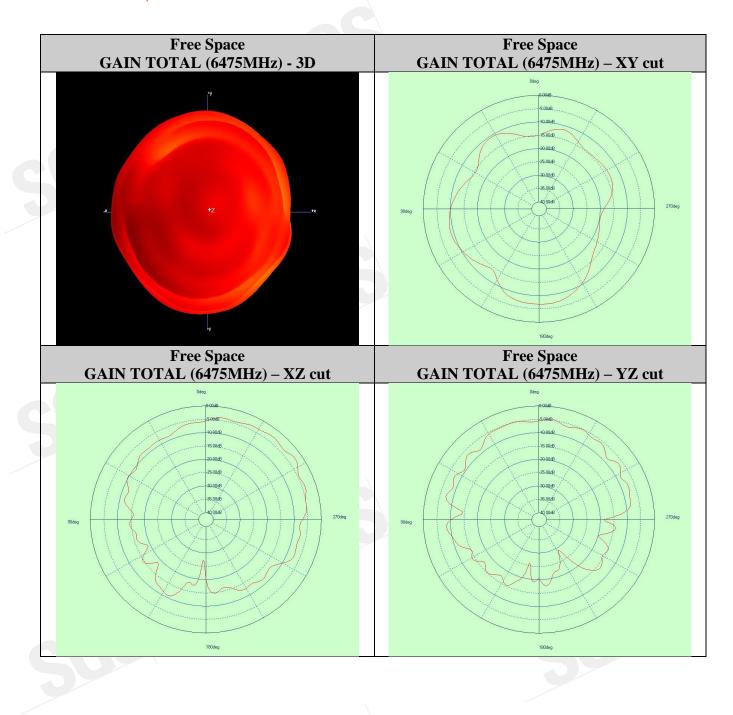
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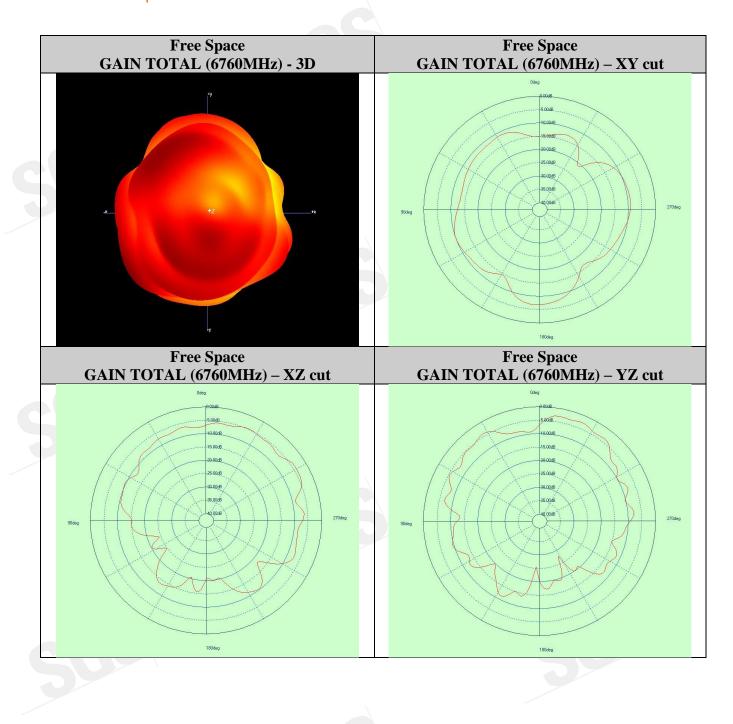
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Report No.: TEOT2402000243E4 Page No.: 27 of 28



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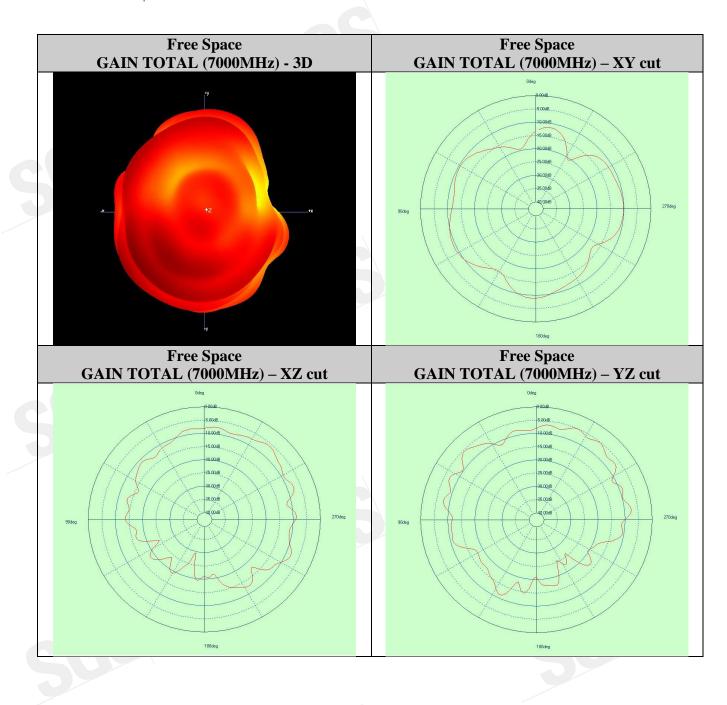
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Report No.: TEOT2402000243E4 Page No.: 28 of 28



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