

Antenna Test Report

Report No.: TEOT2403000349E4

Applicant Name: Sony Corporation
Manufacturer Name: Sony Corporation

**Product Name: GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII
a/b/g/n/ac/ax, GPS, WPT and NFC
FCC ID: PY7-13187R**

Measurements performed at
SGS Taiwan Ltd.
Hwaya District, Taiwan

Issued Date: March 22, 2024

	Name	Date & Signature	Distribution
Prepared by:	Nandi Chen Sr. Engineer	<i>Nandi Chen</i> March 22, 2024	
Approved by:	Shawn Yen Supervisor	<i>Shawn Yen</i> March 22, 2024	

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Revision Version

Report Number	Revision	Date	Memo
TEOT2311000764E4	00	2024/02/08	Initial creation of test report.
TEOT2403000349E4	01	2024/03/22	Update test result. The original test report TEOT2311000764E4 will be withdrawn with this test report TEOT2403000349E4 and is no longer valid when the withdrawal occurred.

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

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Measurement System Information

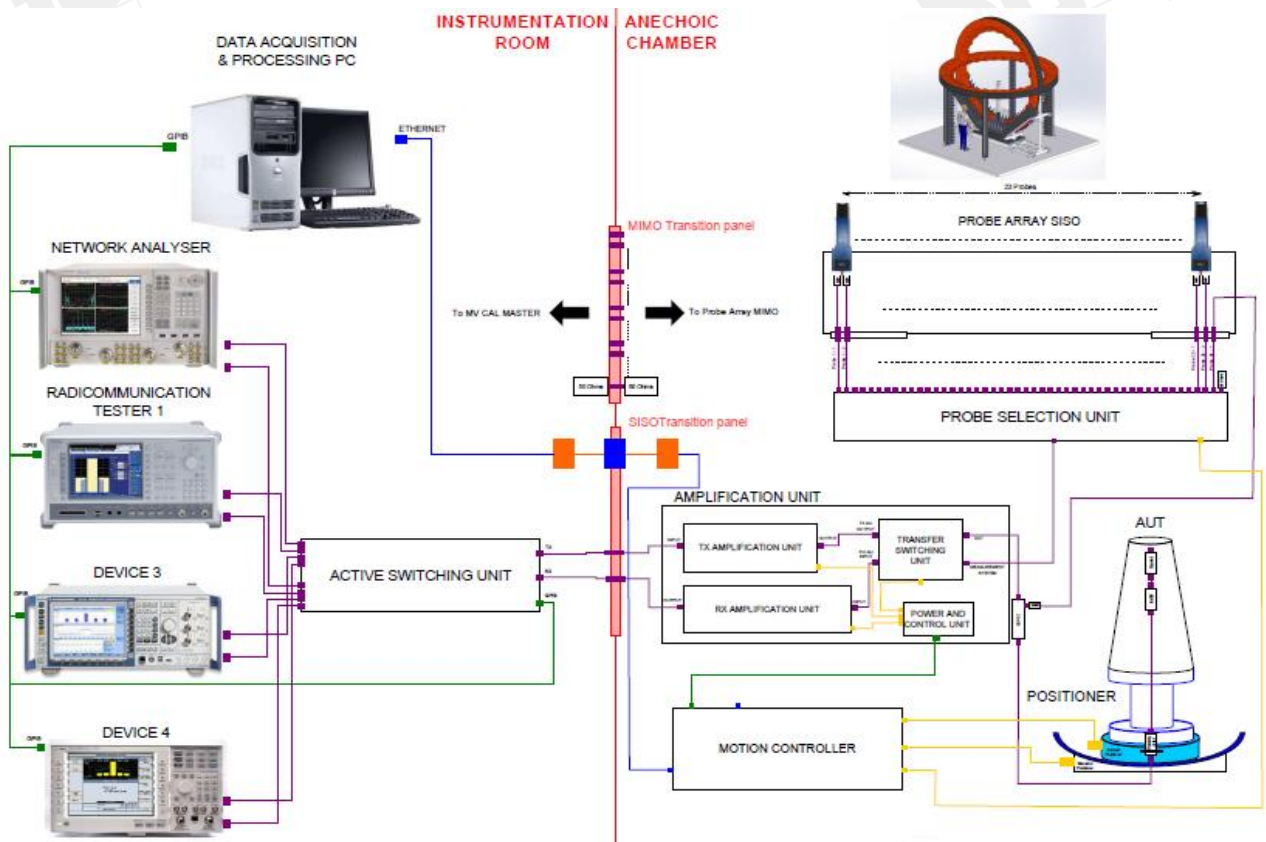
General Information

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



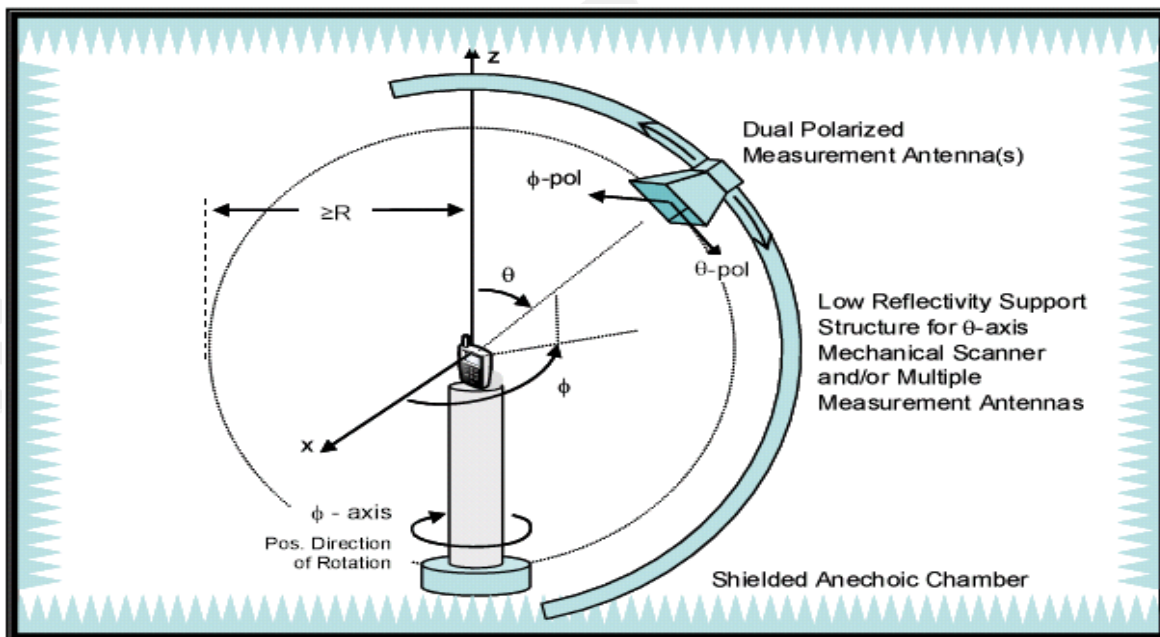
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Measurements are performed in a MVG **Stargate-24-L** with the StarAct interface for a base station simulator. The **Stargate-24-L** has 23 probe antennas mounted with equal spacing on a circular arch. Electronic switching of the probe antennas provides 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 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 across 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:

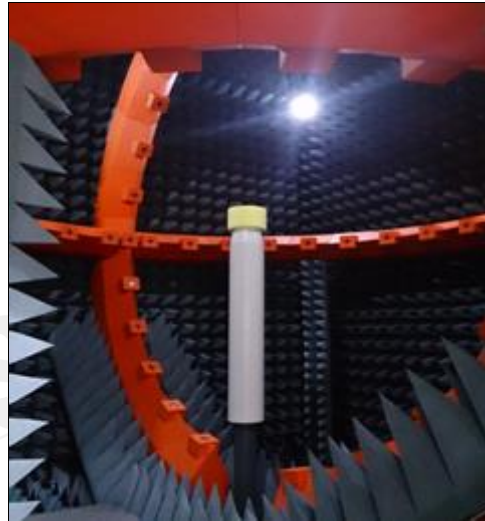


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Instruments View



Inside View



Testing Laboratory: Identification of the Responsible Test Laboratory.

- OTA Laboratory:**
SGS Taiwan Ltd. Wireless Laboratory
 No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803.
 Telephone: +886 2 2299 3279
 Fax: +886 2 2298 0488
 Internet: <http://www.tw.sgs.com>
- Testing Location:**
 No. 2, Keji 1st 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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Details of EUT:

Device Description:	GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT and NFC
Device Manufacturer:	Sony Corporation
Device Model:	PY7-13187R
Frequency Range:	2402MHz ~ 5850MHz
Antenna Type:	Internal
Antenna Size:	WiFi Chain0: 27.0 (L) x 6.1 (W) x 8.3 (H) mm WiFi Chain1: 5.8 (L) x 26.9 (W) x 1.9 (H) mm

Duration of Tests:

Sample Receive Date:	2023-11-28
Test Starting Date:	2023-11-29
Test Ending Date:	2023-11-29
Report Issued Date:	2024-03-22

List of Equipment

Equipment Summary Sheet

Equipment Description	Manufacturer	Identification no.	S/N	Current calibration date	Next calibration date
Network Analyzer	Agilent	E5071C	MY46100433	2023/01/16	2024/01/15
Sleeve Dipole	MVG	SD740	SD740-07	2022/01/07	2025/01/06
Dual Ridge Horn	MVG	SH800	S0051	2023/11/24	2024/11/23
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

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 Chain0
Antenna Gain and Efficiency

Freq(MHz)	Peak Gain (dBi)	Efficiency
2402	-1.73	28.01%
2441	-1.02	29.86%
2480	-1.50	27.37%
5180	-2.90	16.26%
5240	-2.39	17.92%
5260	-1.43	20.36%
5320	-1.11	21.44%
5500	-1.86	23.33%
5540	-2.01	22.84%
5600	-1.68	24.08%
5660	-1.10	27.72%
5700	-0.63	31.69%
5720	-1.05	29.97%
5725	-1.09	29.83%
5745	-0.84	33.23%
5800	-1.35	33.37%
5825	-1.87	32.29%
5850	-1.83	33.70%

Maximum Gain

- 2402 MHz – 2480 MHz: -1.02 dBi
- 5180 MHz – 5320 MHz: -1.11 dBi
- 5500 MHz – 5720 MHz: -0.63 dBi
- 5725 MHz – 5850 MHz: -0.84 dBi

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WiFi Chain1 Gain and Efficiency

Freq(MHz)	Peak Gain (dBi)	Efficiency
2402	-2.69	14.40%
2441	-3.53	10.51%
2480	-5.43	7.55%
5180	-3.49	12.11%
5240	-2.97	12.53%
5260	-2.66	12.78%
5320	-2.21	12.94%
5500	-3.25	12.91%
5540	-3.25	13.33%
5600	-2.88	14.39%
5660	-1.77	17.11%
5700	-0.97	20.18%
5720	-1.05	20.62%
5725	-1.10	20.40%
5745	-0.73	22.45%
5800	-1.46	24.36%
5825	-1.12	26.16%
5850	-0.92	28.21%

Maximum Gain

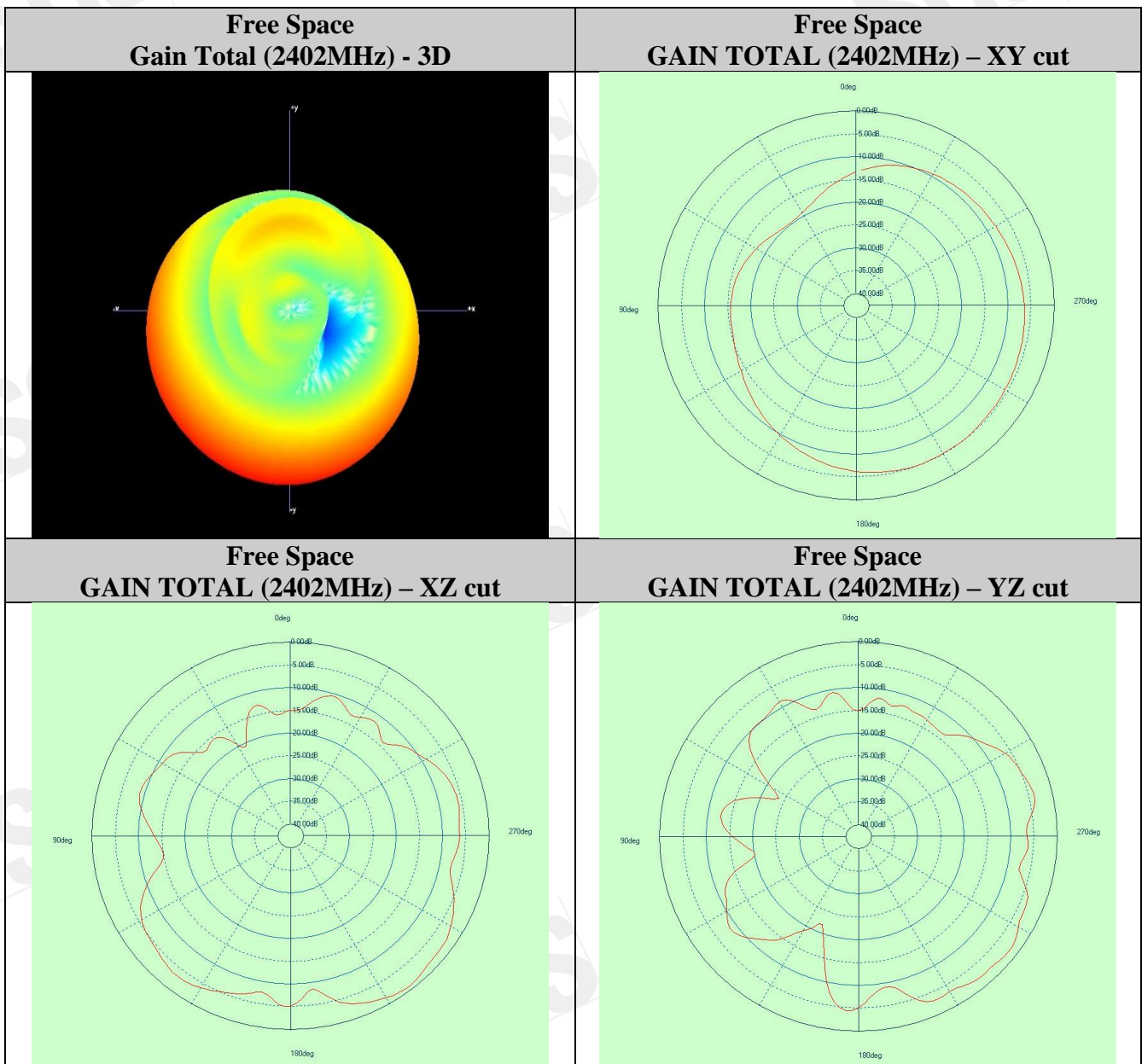
- 2402 MHz – 2480 MHz: -2.69 dBi
- 5180 MHz – 5320 MHz: -2.21 dBi
- 5500 MHz – 5720 MHz: -0.97 dBi
- 5725 MHz – 5850 MHz: -0.73 dBi

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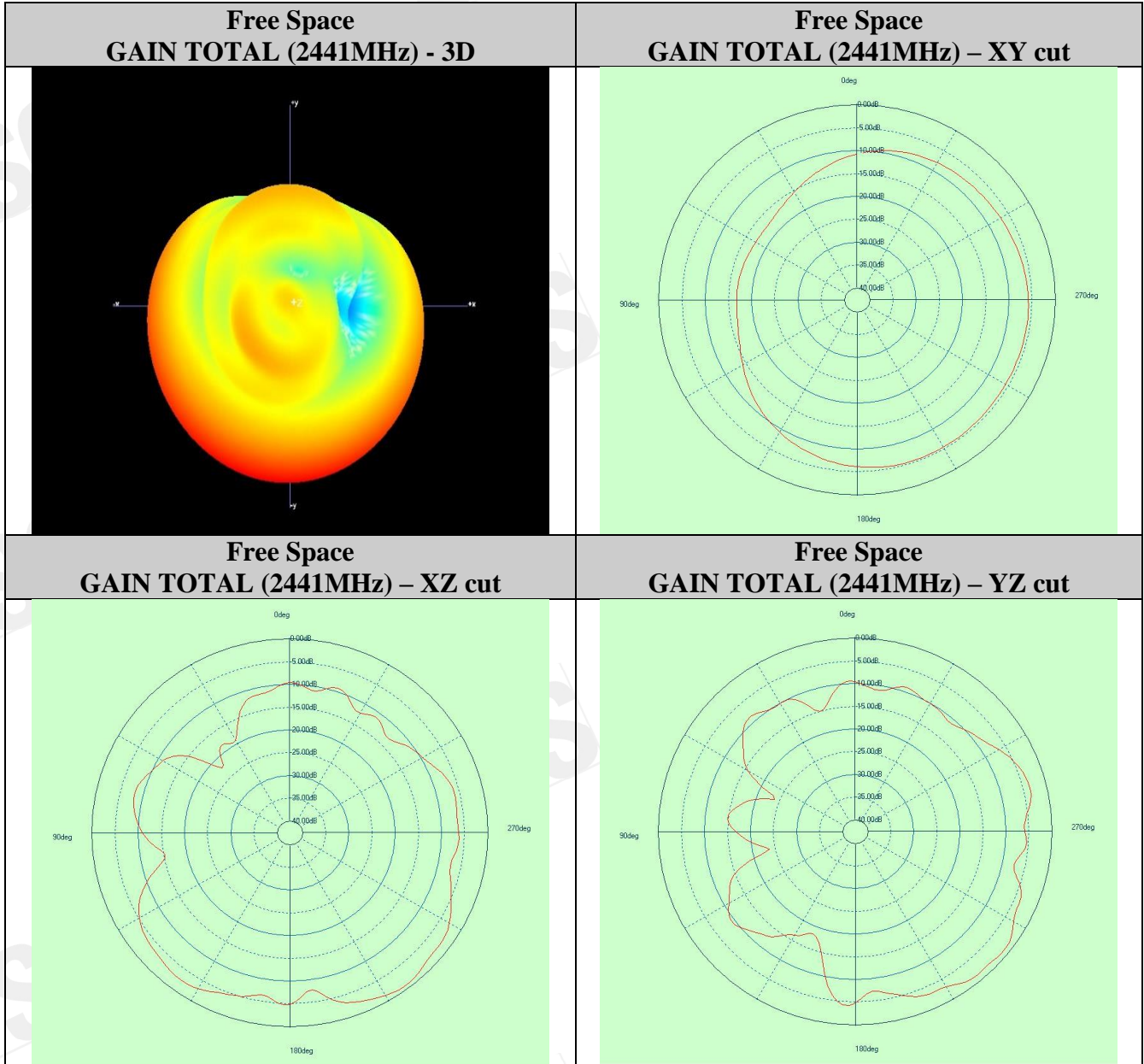
Antenna 3D Plot Matrix

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

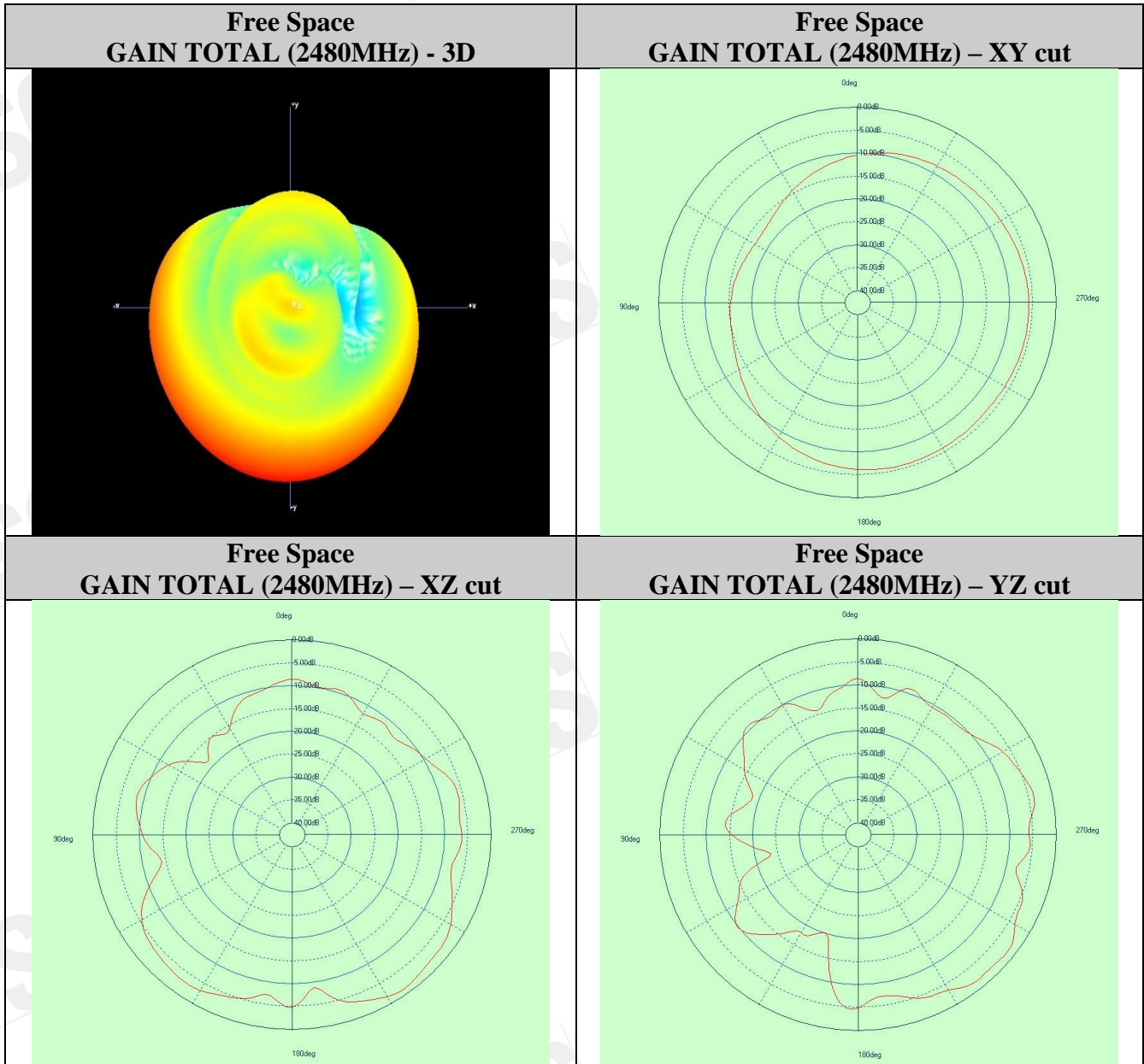
WiFi Chain0



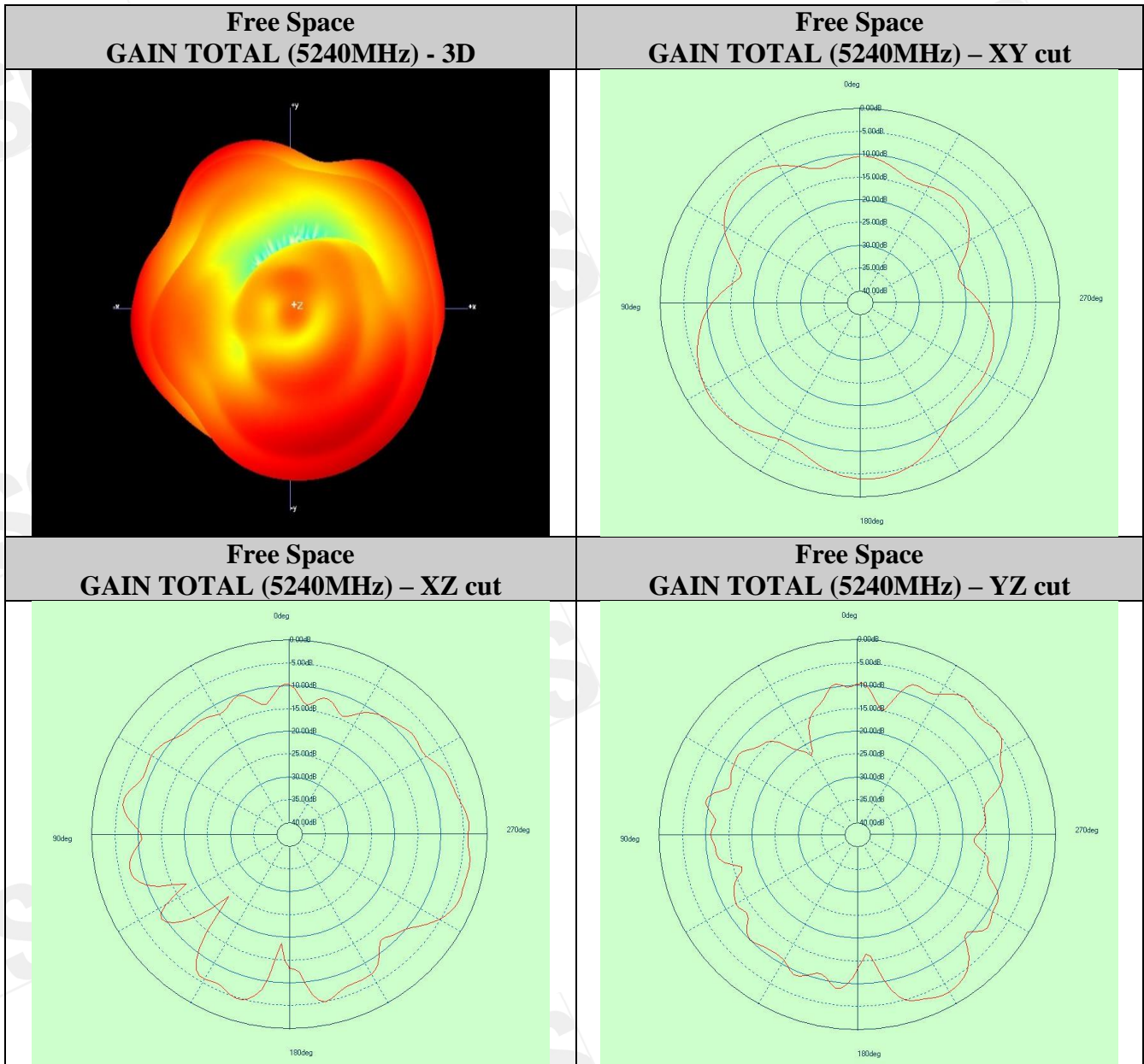
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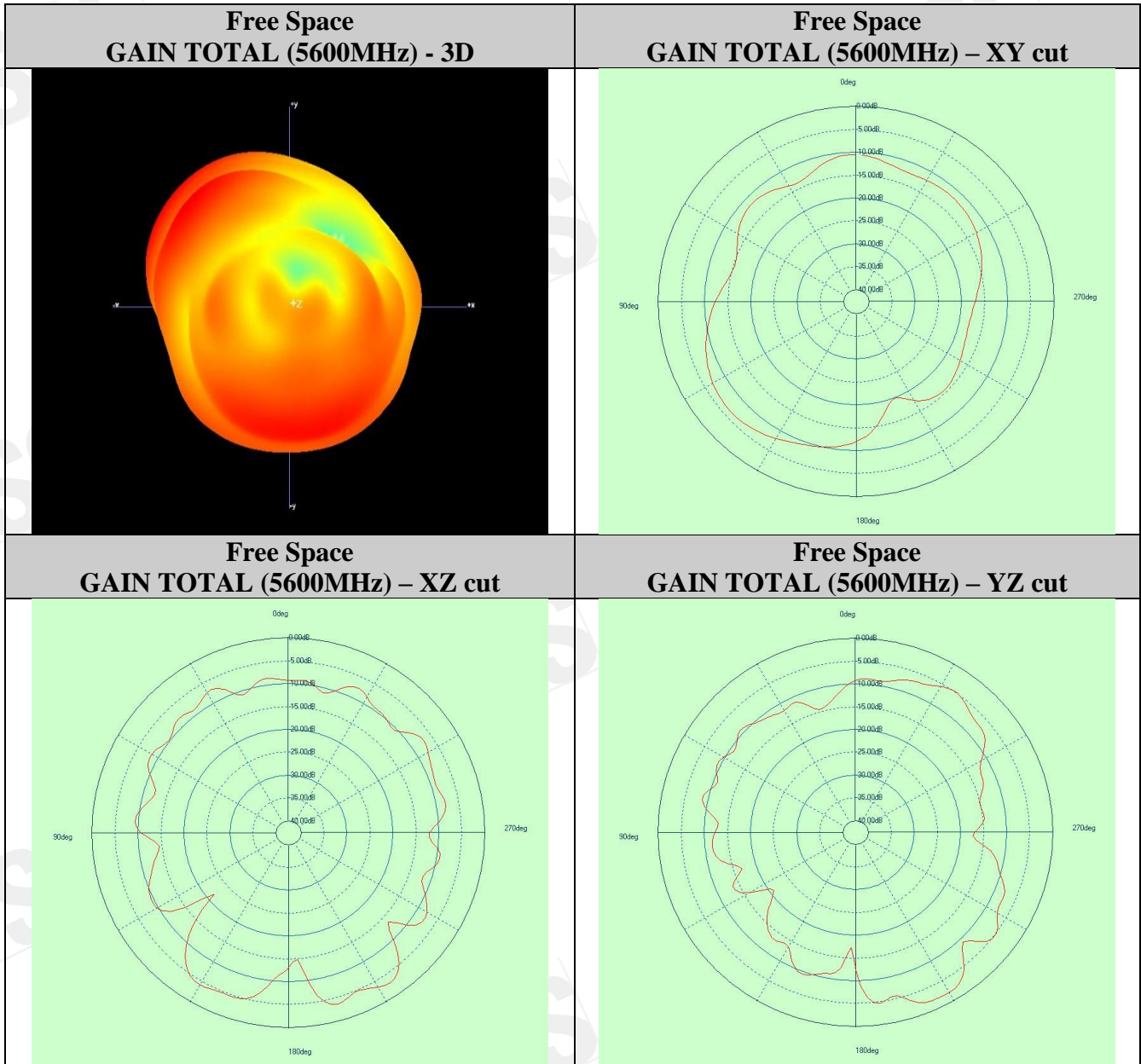
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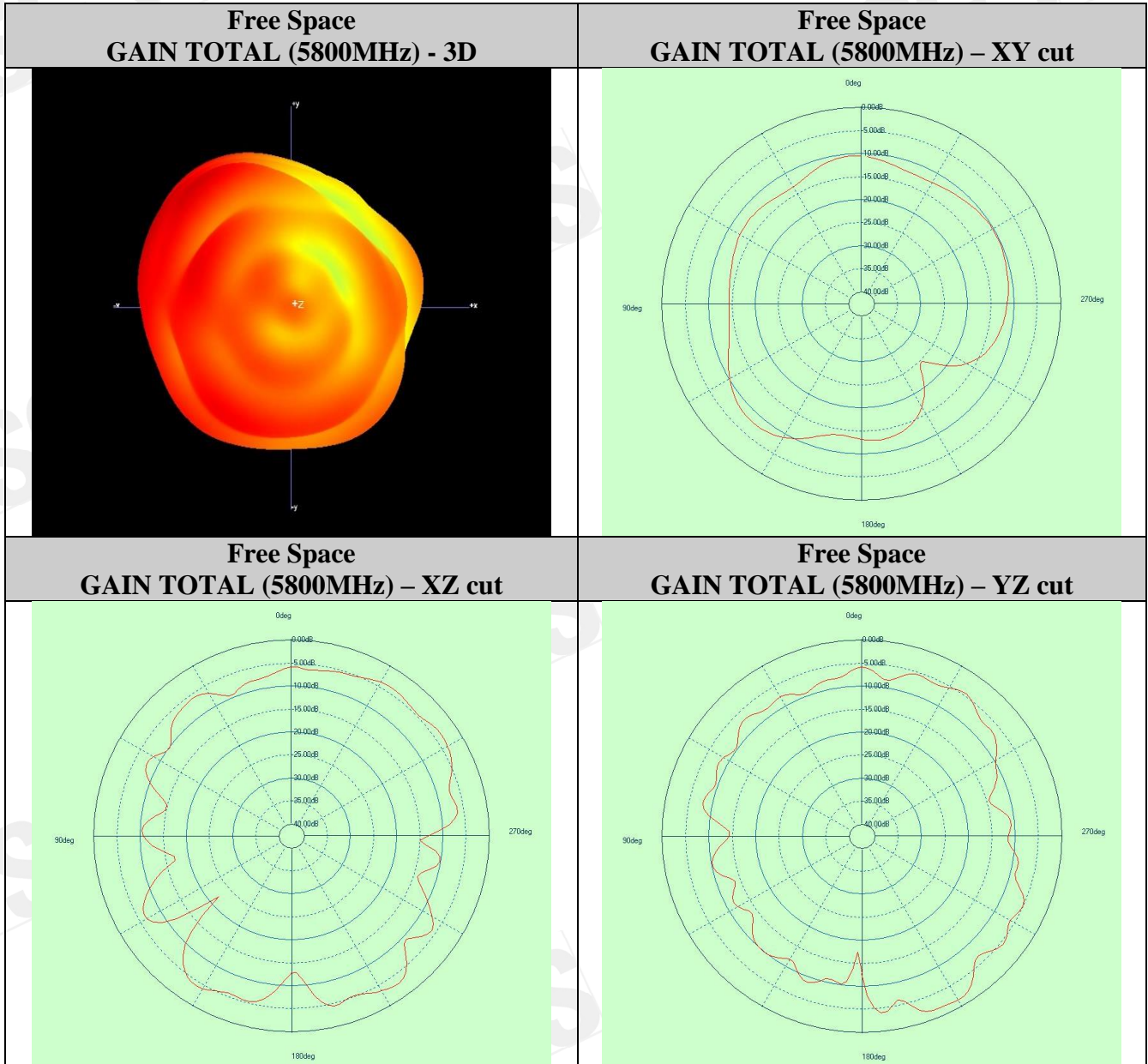
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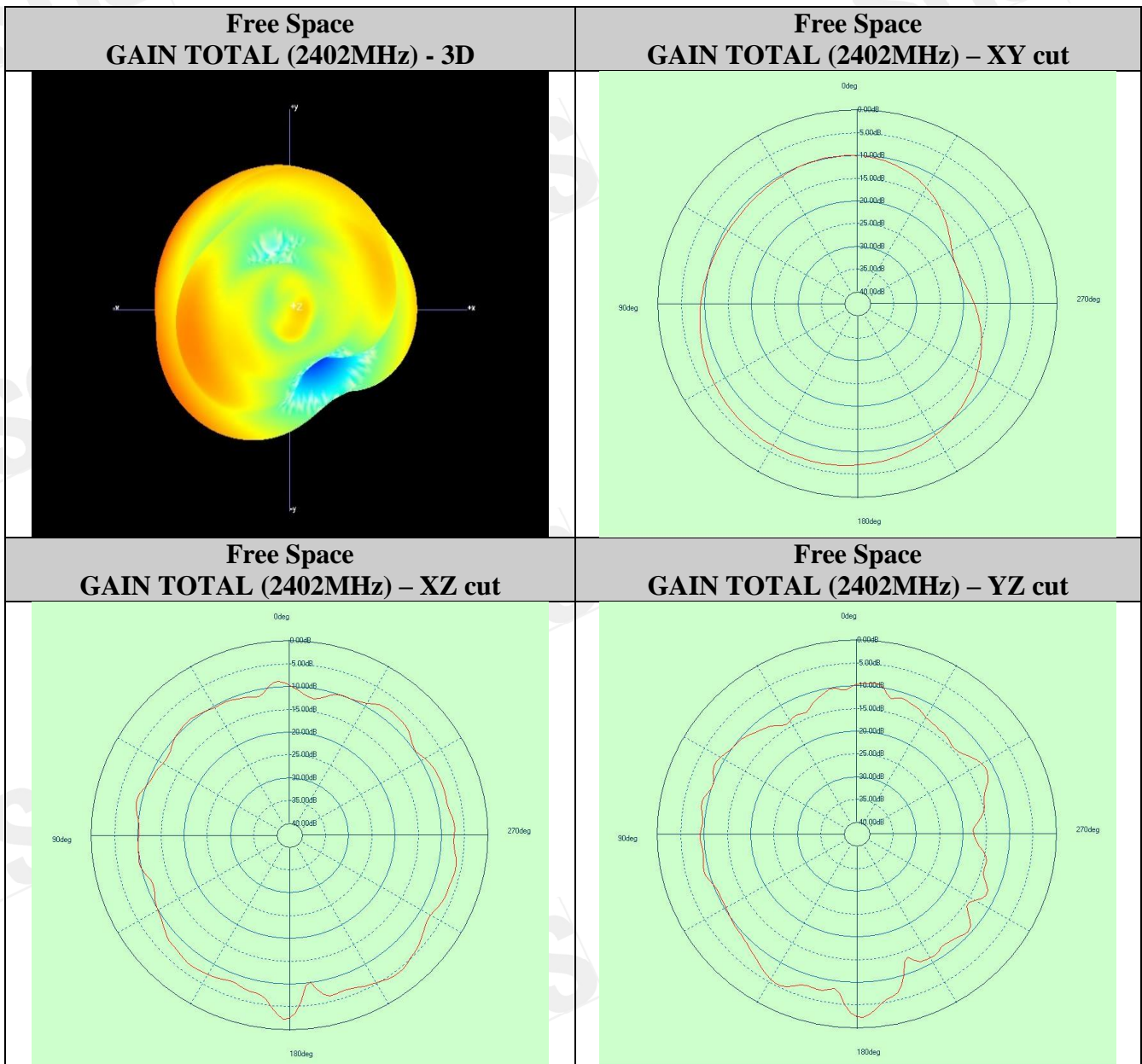


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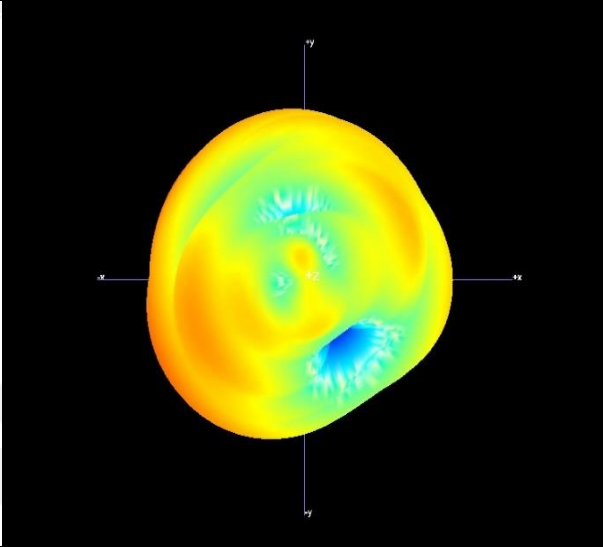
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WiFi Chain1

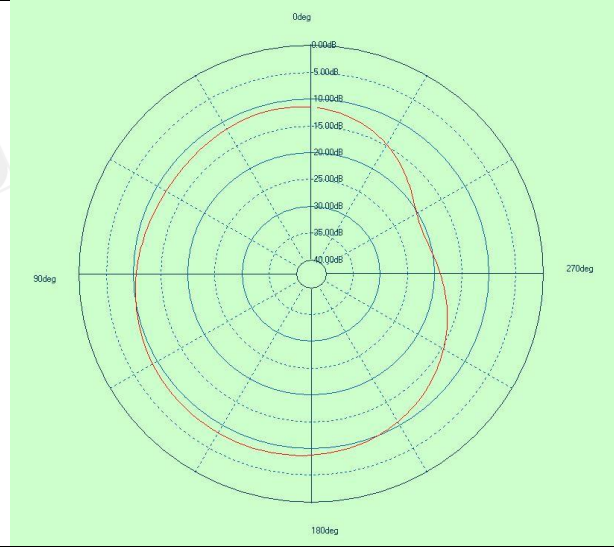


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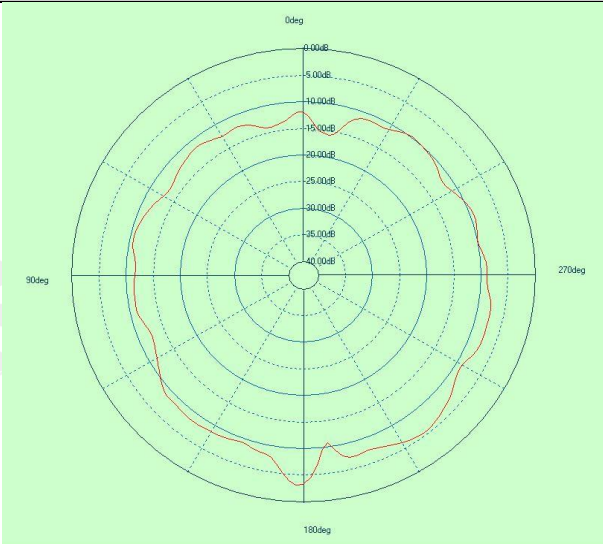
**Free Space
GAIN TOTAL (2441MHz) - 3D**



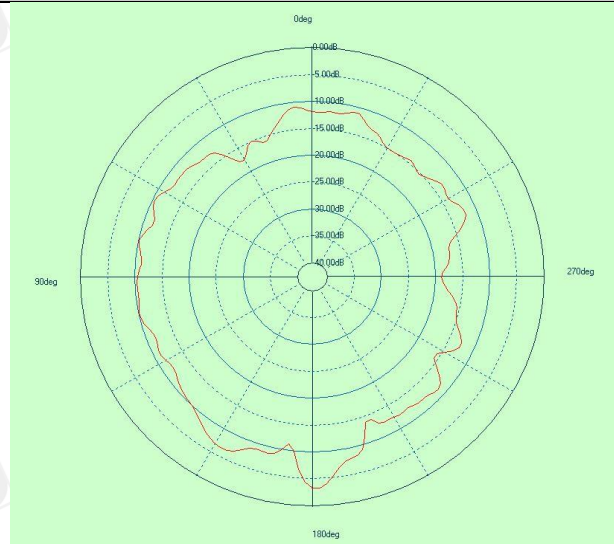
**Free Space
GAIN TOTAL (2441MHz) - XY cut**



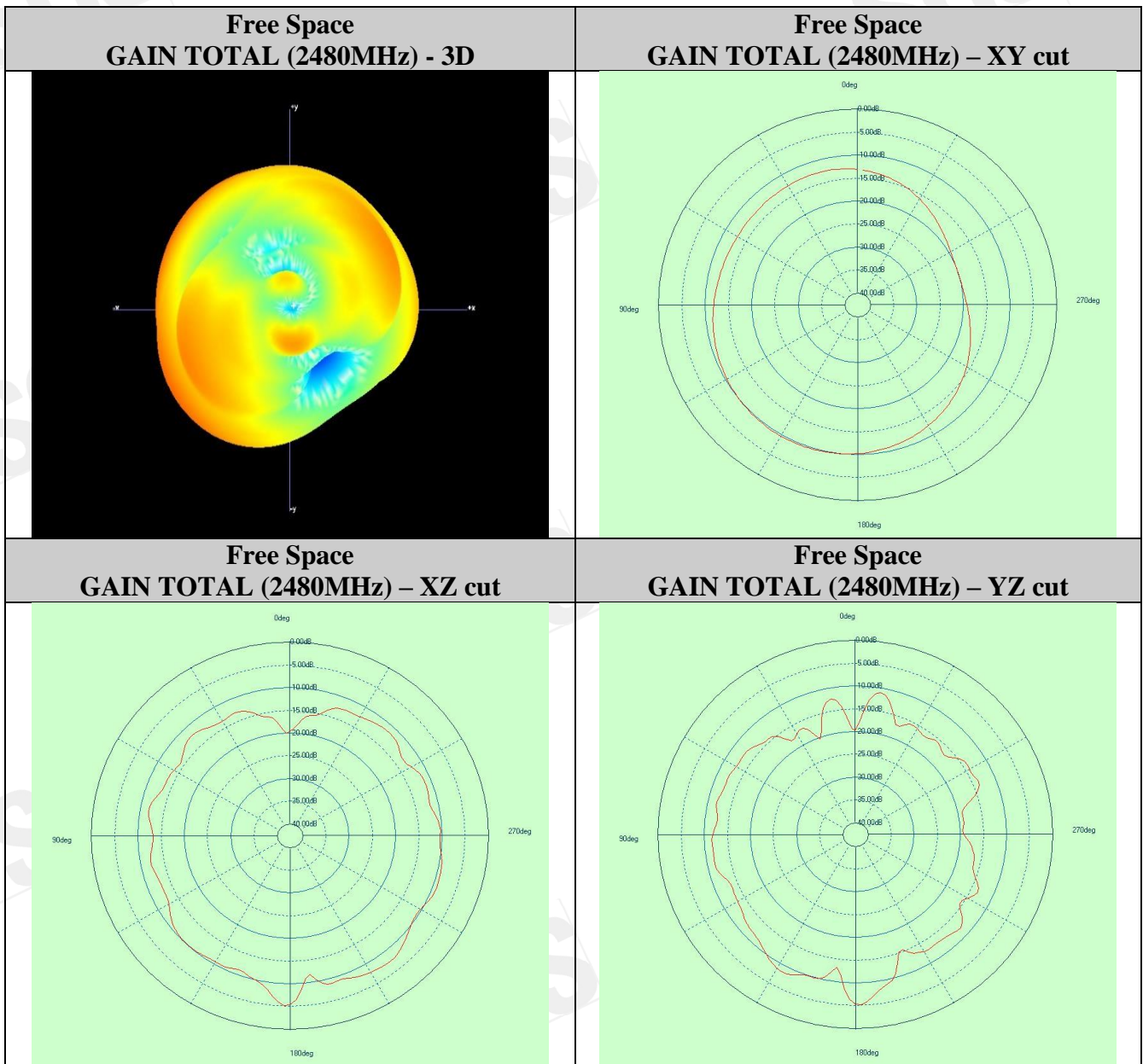
**Free Space
GAIN TOTAL (2441MHz) - XZ cut**



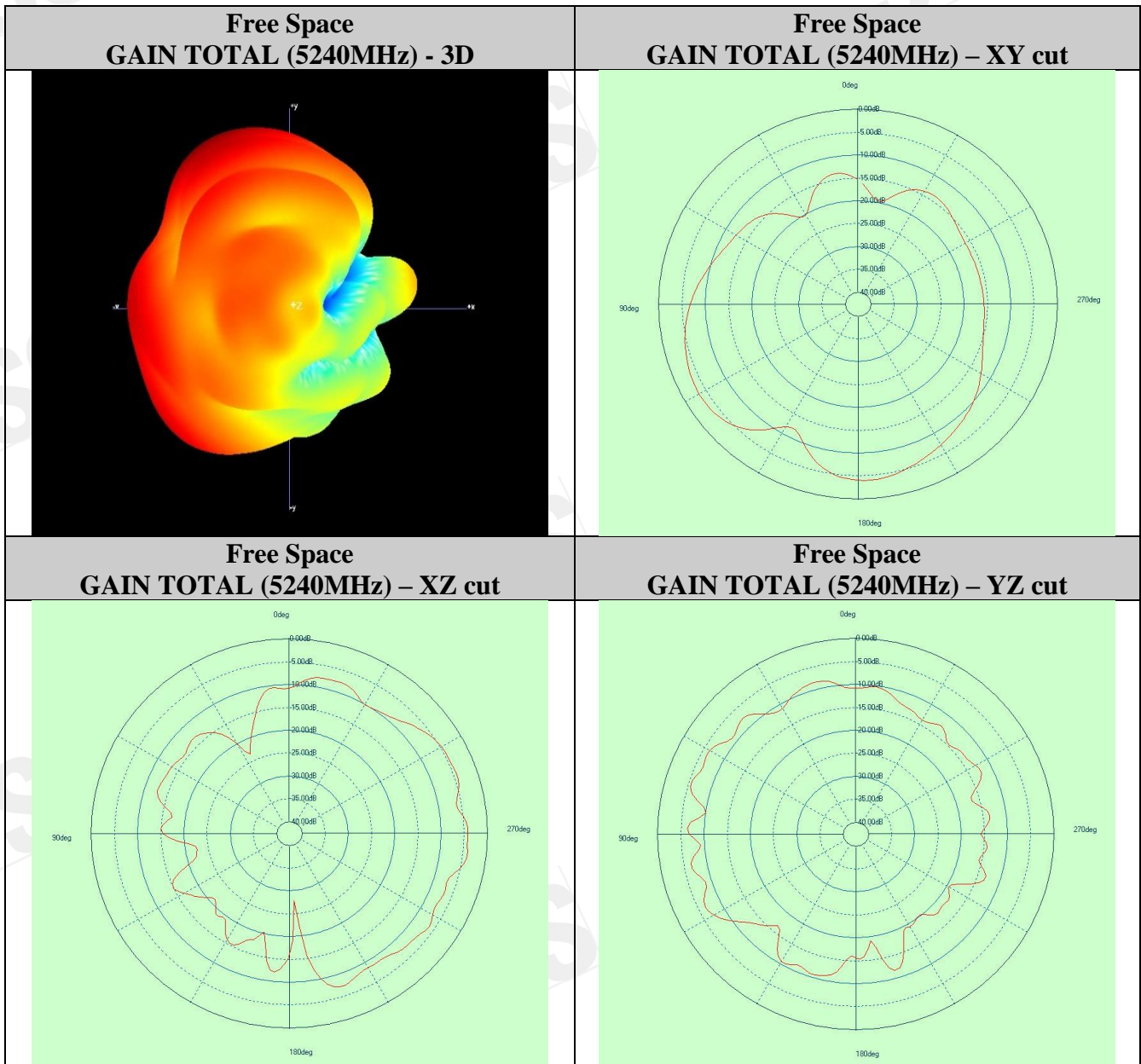
**Free Space
GAIN TOTAL (2441MHz) - YZ cut**



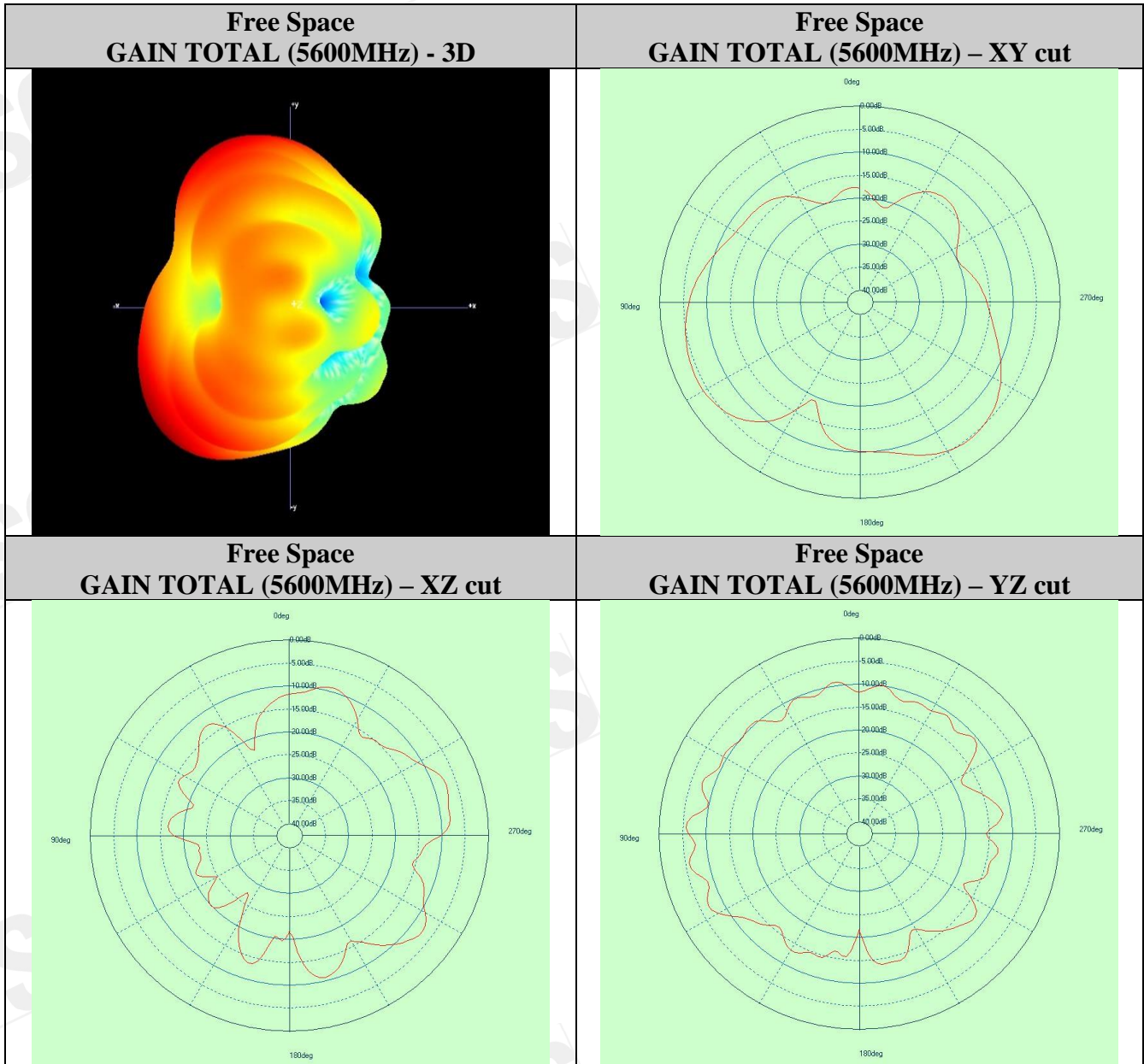
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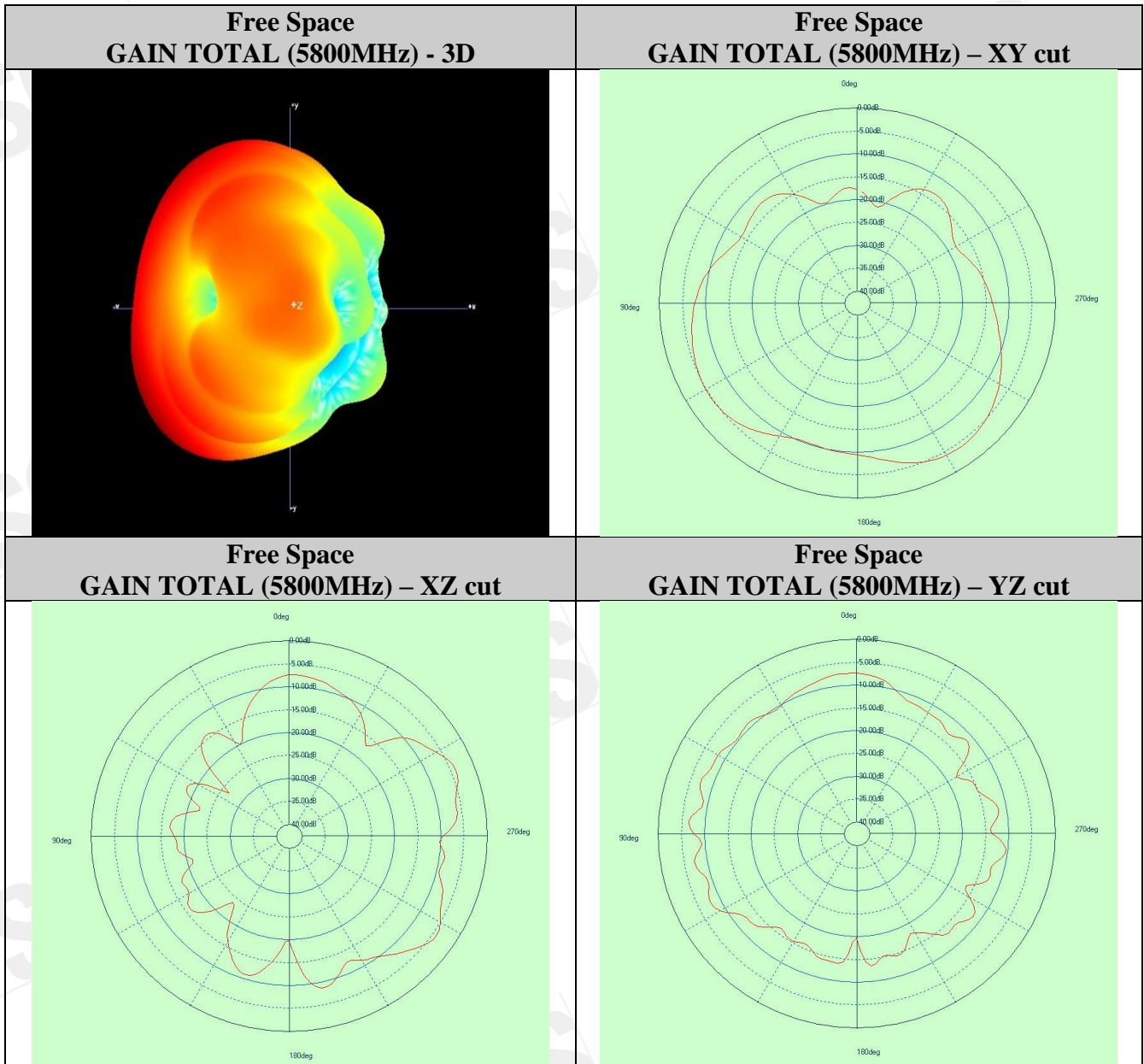
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End of Report

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