



**Authorized
Test Lab**
Lab Code: **20020328- 00**



Antenna Gain Spherical Pattern Measurement.

RIVIAN RFM (WIFI ANTENNA 1 / 2) Antenna REPORT

Date of Report: 2025-12-16
Date of issue: 2025-12-16
Report Copy No.: 1.0

The test results of this test report relate exclusively to the test item specified in Identification of the Equipment under Investigation.
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Manufacturer	Rivian
Model	RFM (WiFi antennas 1 and 2)
CTIA Request #	N/A
Wi-Fi Alliance CID #	N/A
EUT ID / SN / IMEI	TBD
FCC ID Number	2AW3A-MRW962B
Hardware Version	Rev C
Software Version	N/A
Configuration of Primary Mechanical Mode	N/A
Test Plan Revision	N/A
Test date	8/20/2025
Temperature / Humidity	72.7°F / 47.1%

Applicant's Name:	Rivian
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EUTs used for each test

EUT #	EUT	CATL/CHAMBER USED	Radio Modes	Band(s)	Test Types(s)	Test Conditions
1	RFM (WiFi Ant #1) RFM (WiFi Ant #2)	CETECOM/OTA5	Passive antenna	2400 MHz 2410 MHz 2420 MHz 2430 MHz 2440 MHz 2450 MHz 2460 MHz 2470 MHz 2480 MHz 2490 MHz 2500 MHz 5180 Mhz 5190 Mhz 5200 Mhz 5210 Mhz 5220 Mhz 5230 Mhz 5240 Mhz 5260 Mhz 5270 Mhz 5280 Mhz 5290 Mhz 5300 Mhz 5320 Mhz 5500 Mhz 5510 Mhz 5520 Mhz 5530 Mhz 5540 Mhz	Gain	FS

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				5550 Mhz		
				5560 Mhz		
				5580 Mhz		
				5590 Mhz		
				5600 Mhz		
				5610 Mhz		
				5620 Mhz		
				5640 Mhz		
				5660 Mhz		
				5670 Mhz		
				5680 Mhz		
				5690 Mhz		
				5700 Mhz		
				5710 Mhz		
				5720 Mhz		
				5745 Mhz		
				5755 Mhz		
				5765 Mhz		
				5775 Mhz		
				5785 Mhz		
				5805 Mhz		
				5825 Mhz		

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1 SUMMATION TEST REPORT – Gain measurements

WiFi Antenna #1

Frequency (MHz):	2400	2410	2420	2430	2440	2450
Gain (dBi):	4.59	4.31	4.17	4.10	3.99	4.00

Frequency (MHz):	2460	2470	2480	2490	2500
Gain (dBi):	4.03	4.09	4.20	4.61	4.87

Frequency (MHz):	5180	5190	5200	5210	5220	5230
Gain (dBi):	6.99	6.96	7.25	7.07	7.21	7.17

Frequency (MHz):	5240	5260	5270	5280	5290	5300
Gain (dBi):	7.27	6.87	6.90	7.07	7.09	7.29

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Frequency (MHz):	5320	5500	5510	5520	5530	5540
Gain (dBi):	6.90	7.26	7.50	7.38	7.85	7.37

WiFi Antenna #1

Frequency (MHz):	5550	5560	5580	5590	5600	5610
Gain (dBi):	7.53	7.22	7.78	7.46	6.78	7.12

Frequency (MHz):	5620	5640	5660	5670	5680
Gain (dBi):	7.03	7.27	6.96	6.84	6.62

Frequency (MHz):	5690	5700	5710	5720	5745	5755
Gain (dBi):	6.90	6.64	6.46	6.77	6.44	6.56

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Frequency (MHz):	5765	5775	5785	5805	5825
Gain (dBi):	6.42	6.65	6.42	7.55	7.43

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WiFi Antenna #2

Frequency (MHz):	2400	2410	2420	2430	2440	2450
Gain (dBi):	4.16	4.00	3.92	4.00	3.86	3.85

Frequency (MHz):	2460	2470	2480	2490	2500
Gain (dBi):	3.87	3.87	3.78	3.91	3.89

Frequency (MHz):	5180	5190	5200	5210	5220	5230
Gain (dBi):	6.06	5.90	5.77	5.67	5.58	5.87

Frequency (MHz):	5240	5260	5270	5280	5290	5300
Gain (dBi):	6.10	5.93	6.16	5.99	6.12	7.11

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Frequency (MHz):	5320	5500	5510	5520	5530	5540
Gain (dBi):	5.84	6.12	6.26	6.04	6.72	6.30

WiFi Antenna #2

Frequency (MHz):	5550	5560	5580	5590	5600	5610
Gain (dBi):	6.53	6.28	6.60	6.46	6.04	6.08

Frequency (MHz):	5620	5640	5660	5670	5680
Gain (dBi):	6.40	6.59	6.51	6.46	6.18

Frequency (MHz):	5690	5700	5710	5720	5745	5755
Gain (dBi):	6.50	6.33	5.99	6.44	6.59	6.82

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Frequency (MHz):	5765	5775	5785	5805	5825
Gain (dBi):	6.31	6.59	6.73	6.24	6.91

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FS = Free Space
BHHL = Beside Head and Hand Left Side (Head & Hand Phantom)
BHHR = Beside Head and Hand Right Side (Head & Hand Phantom)
HL = Hand Left (Hand Phantom Only)
HR = Hand Right (Hand Phantom Only)
* Mark values exceeding pass/fail limits in **RED**.

Milpitas 2025-12-16

Technical responsibility for area of testing:

12/16/2025	OTA	Nicolas Stamber (Director of OTA)	Nicolas Stamber Digitally signed by: Nicolas Stamber DN: CN = Nicolas Stamber email = Nicolas.Stamber@cetecom.com C = AD O = CETECOM Inc. OU = OTA Date: 2025.12.16 12:54:36 -08'00'
Date	Section	Name	Signature

This report is reviewed by:

12/16/2025	OTA	Kevin Asuncion (OTA Lab Manager)	Kevin Asuncion Digitally signed by: Kevin Asuncion DN: CN = Kevin Asuncion email = kevin.asuncion@cetecom.com C = US O = Cetecom Inc OU = OTA Date: 2025.12.16 13:05:49 -08'00'
Date	Section	Name	Signature

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2 Physical Layout and Site Description

2.1 Wireless Test Facility

All tests were performed in CETECOM's state-of-the-art Wireless Test Facility consisting of a fully anechoic rectangular chamber equipped with a Phi Axis Positioner (Pedestal) & two Theta Axis positioners, SAM head phantom, dual polarized quad-ridge wave guide horn, and a circularly polarized communication antenna.

A base station simulator (Rohde & Schwarz CMU200 or CMW500) is used to establish communication with the EUT and place it in the proper mode.

A power meter with 2 separate power sensors and a RF switch is used for measuring the uplink signal from the EUT at each position simultaneously on both polarizations. Rohde & Schwarz's proprietary AMS32 Pattern Measurement Software is used for data acquisition, post-processing and generation of the required output.

2.2 Anechoic Rectangular Chamber

The rectangular model 3500 chamber from The Howland Company consists of an enclosure constructed of shielded modular panel sections that are assembled with screws. The chamber is all over equipped with RF absorbers. Lighting in the chamber consists of eight fiber optic lights mounted in the chamber ceiling. The chamber is forced air ventilated to maintain it at the same ambient as the surrounding facility. A single leaf pneumatic swing type shielded door is provided for equipment and personal access into the chamber. The Anechoic Rectangular Chamber is capable of meeting RF attenuation level of over 100dB throughout the frequency range of 600 MHz to 6 GHz, so that testing performed within the chamber does not interfere with other testing activities at the facility and vice versa. Power is supplied on separate circuits to the chamber and control area. All power filters provide a minimum of 100dB attenuation over a frequency range of 14 kHz to 18 GHz when tested per Mil Std 220A.

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2.3 Phi Axis & Theta Axis Positioner

The Phi Axis Positioner (Pedestal) is capable of rotating the Equipment Under Test (EUT) in the Phi axes with full 360 degrees angular range. The Theta Axis Positioner - together with a measurement antenna - revolves around the EUT in the Theta axes from 0 degrees (top of the chamber) to 165 degrees. Under normal conditions it provides 0.1 degree positioning accuracy. In conjunction with the AMS32 Software, it can perform positioning for data acquisition in both continuous and stepped movement modes.

A DUT and a SAM head (eventually together with hand phantoms) can be placed on the pedestal to minimize the effect of the support on the measurement. The electrically driven Phi Axis Positioner does not introduce conducted or radiated electrical noise above the ambient levels existing within the chamber.

2.4 SAM Head Phantom / Hand Phantoms

A SAM head phantom meeting the requirement for CTIA Certification Program Test Plan is used for the phantom head testing. Additionally, four different types of hand phantoms are available to simulate the effect of a human hand on the EUT's RF performance. The proper hand is selected depending on the physical design and dimensions of the EUT.

2.5 Quiet Zone

A 50 cm diameter by 40 cm tall cylindrical quiet zone volume was qualified for each axis (Theta/Phi) of the positioning system during the Ripple Test. This test is done on both polarizations using reference dipole and magnetic loop antennas. The measurement was performed after completion of the chamber construction by The Howland Company to ensure compliance of the test chamber with the requirements of the CTIA test plan for Wireless Device Over the Air Performance, December 2023, Revision 6.0.0. It will be repeated on an annual cycle to ensure consistent chamber performance. The associated effects are included in the measurement uncertainty reported.

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2.6 Howland Company Model QR-1 Quad Ridge Horn Antenna

The Model QR-1 is a broad bandwidth, dual polarized horn antenna designed for wireless device measurements. It can be used as the measurement antenna in all Howland Wireless Test Labs. The QR-1 is designed with a minimum overall length in order to maximize the range length in the wireless test lab. The horn antenna serves as measurement antenna during TRP measurements and provides the downlink during TIS measurements.

2.7 Circularly Polarized Communication Antenna

The top of the Phi Axis Positioner - below the foam spacer holding the EUT - is fitted with a broadband circularly polarized communication antenna (Model FPA3-0.8-6.0R/1329) to provide a low loss link to the base station simulator in any position. This antenna is used as communication antenna during TRP measurements, handling both uplink and downlink with the base station emulator. During sensitivity measurements (TIS), the antenna is used to provide the uplink from the EUT to the base station.

2.8 Test Equipment

The test was performed using the following additional test equipment

Rohde & Schwarz CMU200 Base Station Simulator or
Rohde & Schwarz CMW500 Base Station Simulator or
Rohde & Schwarz ZNB8 VNA
Rohde & Schwarz OSP 130 RF Switch
Rohde & Schwarz NRP2 Power Meter
The Howland Company Motion Control Unit

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2.9 AMS32 Software

Rohde & Schwarz's AMS32 proprietary pattern measurement software is used to automate the data acquisition process and provides all post-processing calculations and data output required by the CTIA. Its parameterized test configuration system and conscientiously validated design helps to insure repeatable and correct results. Safeguards prevent data tampering and ensure that the original raw measured data is always available for review.

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3 Test Method

3.1 Total Radiated Power

The Total Radiated Power (TRP) test is performed according to the CTIA Test Plan for Wireless Device Over the Air Performance, December 2023, Revision 6.0.0, using the conical cut data acquisition order.

The call is established using the communication antenna and the EUT is positioned in the center of the quiet zone, either on the pedestal mount (FS), phantom head with hand (BHHR/BHHL), or hand only position (HR/HL). The call parameters are adjusted on the base station simulator to bring the EUT to the required traffic channel and output power level. The EUT is then stepped between 0 and 165 degrees along the theta axis in 15-degree increments. At each theta position, the phi axis is stepped from 0-345 degrees or from 345-0 degrees, alternating to minimize test time in 15-degree increments. Data is recorded using the power meter with two independent power sensors to measure both theta and phi polarization at each position simultaneously. Upon completion of the test, the net power (Angular dependent EIRP) is calculated at each measurement point and the required values of TRP and Near Horizon Partial Radiated Power (NHPRP) are automatically calculated. This test procedure is repeated for each channel, band, and configuration as required. GPRS and EGPRS, respectively 1xRTT and 1xEV-DO are calculated through CTIA's single point offset test.

3.2 Total Isotropic Sensitivity

The Total Isotropic Sensitivity (TIS) test is performed according to the CTIA Test Plan for Wireless Device Over the Air Performance December 2023, Revision 6.0.0, using the conical cut data acquisition order. The call is established using the horn antenna for the downlink and the communication antenna for the uplink. The EUT is positioned in the center of the quiet zone, either on the pedestal mount (FS), phantom head with hand (BHHR/BHHL), or hand only position (HR/HL). The call parameters are adjusted on the base station simulator to bring the EUT to the required traffic channel and ensuring the receive signal at the position of the EUT is high enough to provide a stable connection. The EUT is then stepped between 0 and 150 degrees along the theta axis in 30-degree increments. At each theta position, the phi axis is stepped from 0-330 degrees or from 330-0 degrees, alternating to minimize the test time in 30-degree increments. At each spherical point and on each polarization the base station emulator lowers the downlink power until a certain BER/BLER limit is exceeded. The chamber path loss will then be subtracted from the base station output power to calculate the receive signal strength at the position of the EUT. These values are recorded by the AMS32 software and later used to calculate the TIS and NHPIS according to the formula specified in

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Appendix E of the CTIA Test Plan. This test procedure is repeated for each channel, band and configuration as required. GPRS and EGPRS respectively 1xRTT and 1xEV-DO are calculated through CTIA's single point offset test.

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4. Measurement Uncertainty OTA5 Chamber

4.1. TRP uncertainty

Free Space	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.13	0.91	0.81	0.80	0.90	0.91	1.75	0.74
Expanded Uncertainty, U, with 95% Confidence Interval	2.26	1.83	1.63	1.59	1.80	1.83	1.50	1.47

Phantom Head and Hand	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.27	1.09	1.00	0.99	1.08	1.09	0.95	0.94
Expanded Uncertainty, U, with 95% Confidence Interval	2.55	2.17	2.01	1.98	2.15	2.17	1.91	1.89

Phantom Hand Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.17	0.96	0.87	0.85	0.95	0.96	0.81	0.80
Expanded Uncertainty, U, with 95% Confidence Interval	2.34	1.93	1.74	1.71	1.90	1.93	1.63	1.60

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Forearm Hand Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.19	0.98	0.89	0.87	0.97	0.98	0.83	0.82
Expanded Uncertainty, U, with 95% Confidence Interval	2.37	1.96	1.78	1.75	1.94	1.96	1.67	1.64

Laptops over 30 cm	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.16	0.95	0.86	0.82	0.93	0.92	0.83	0.82
Expanded Uncertainty, U, with 95% Confidence Interval	2.32	1.90	1.71	1.65	1.85	1.84	1.66	1.64

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4.2. TRP uncertainty alternate methods (worst case)

Free Space	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.66	0.95	0.86	0.84	0.94	0.95	0.80	0.79
Expanded Uncertainty, U, with 95% Confidence Interval	2.33	1.91	1.72	1.68	1.88	1.91	1.60	1.57

Phantom Head and Hand	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.30	1.12	1.04	1.03	1.11	1.12	0.99	0.98
Expanded Uncertainty, U, with 95% Confidence Interval	2.61	2.24	2.08	2.06	2.22	2.24	1.99	1.96

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Phantom Hand Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.20	1.00	0.91	0.90	0.99	1.00	0.86	0.85
Expanded Uncertainty, U, with 95% Confidence Interval	2.41	2.01	1.83	1.80	1.98	2.01	1.72	1.69

Forearm Hand Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.22	1.02	0.94	0.92	1.01	1.02	0.88	0.87
Expanded Uncertainty, U, with 95% Confidence Interval	2.44	2.05	1.87	1.84	2.02	2.05	1.77	1.74

Laptops over 30 cm	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	LTE/AWS-1 Tx 1695-1780 MHz	PCS/LTE 1850-2020 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.19	0.99	0.90	0.87	0.97	0.96	0.88	0.86
Expanded Uncertainty, U, with 95% Confidence Interval	2.39	1.98	1.80	1.74	1.93	1.92	2.75	1.73

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4.3. TIS uncertainty

Free Space	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.02	0.78	0.66	0.63	0.76	0.78	0.58	0.56
Expanded Uncertainty, U, with 95% Confidence Interval	2.04	1.55	1.31	1.27	1.52	1.55	1.15	1.11

Phantom Head and Hand	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.18	0.98	0.88	0.87	0.96	0.98	0.83	0.82
Expanded Uncertainty, U, with 95% Confidence Interval	2.36	1.95	1.77	1.73	1.93	1.96	1.66	1.64

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Phantom Hand Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.07	0.84	0.73	0.71	0.82	0.84	0.65	0.64
Expanded Uncertainty, U, with 95% Confidence Interval	2.14	1.67	1.45	1.41	1.64	1.67	1.31	1.28

Phantom Forearm Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.09	0.86	0.75	0.73	0.84	0.86	0.68	0.67
Expanded Uncertainty, U, with 95% Confidence Interval	2.17	1.72	1.51	1.47	1.69	1.72	1.37	1.34

Laptops over 30 cm	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.06	0.82	0.71	0.67	0.79	0.78	1.68	0.66
Expanded Uncertainty, U, with 95% Confidence Interval	2.11	1.64	1.42	1.34	1.58	1.57	1.36	1.33

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4.4. TIS uncertainty RSS based

Free Space	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.09	0.87	0.76	0.74	0.85	0.87	0.69	0.68
Expanded Uncertainty, U, with 95% Confidence Interval	2.19	1.73	1.52	1.48	1.70	1.73	1.39	1.35

Phantom Head and Hand	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.24	1.05	0.96	0.95	1.04	1.05	0.92	0.90
Expanded Uncertainty, U, with 95% Confidence Interval	2.27	2.10	1.93	1.90	2.07	2.11	1.83	1.81

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Phantom Hand Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.14	0.92	0.82	0.80	0.91	0.92	1.76	0.75
Expanded Uncertainty, U, with 95% Confidence Interval	2.27	1.84	1.64	1.61	1.81	1.84	1.52	1.49

Phantom Forearm Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.15	0.94	0.85	0.83	0.93	0.94	0.79	0.77
Expanded Uncertainty, U, with 95% Confidence Interval	2.31	1.89	1.70	1.66	1.86	1.89	1.58	1.55

Laptops over 30 cm	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.13	0.91	0.81	0.77	0.88	0.87	0.78	0.77
Expanded Uncertainty, U, with 95% Confidence Interval	2.25	1.82	1.62	1.55	1.76	1.75	1.56	1.54

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4.5. TIS uncertainty alternate methods (worst case)

Free Space	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.07	0.84	0.73	0.71	0.82	0.84	0.66	0.64
Expanded Uncertainty, U, with 95% Confidence Interval	2.14	1.68	1.46	1.41	1.65	1.68	1.31	1.28

Phantom Head and Hand	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.22	1.03	0.94	0.92	1.01	1.03	0.89	0.88
Expanded Uncertainty, U, with 95% Confidence Interval	2.44	2.05	1.88	1.84	2.03	2.06	1.78	1.75

Phantom Hand Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.11	0.89	0.79	0.77	0.88	0.89	0.73	0.71
Expanded Uncertainty, U, with 95% Confidence Interval	2.23	1.79	1.58	1.55	1.76	1.79	1.45	1.42

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Phantom Hand Only	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.13	0.92	0.82	0.80	0.90	0.92	0.76	0.74
Expanded Uncertainty, U, with 95% Confidence Interval	2.27	1.83	1.64	1.60	1.81	1.83	1.51	1.48

Phantom Head and Hand	LTE600 617-698MHz	LTE700 699-798 MHz	Cellular 824-894 MHz	PCS/LTE 1850-2020 MHz	AWS-1 Rx/LTE 2110-2180 MHz	LTE/WLAN 2300-2800 MHz	LTE 3300- 3800MHz	WLAN 5150-5925 MHz
Standard Uncertainty, u	1.10	0.88	0.78	0.74	0.85	0.84	0.75	0.73
Expanded Uncertainty, U, with 95% Confidence Interval	2.21	1.76	1.55	1.48	1.71	1.69	1.50	1.47

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5. Test Equipment List

5.1. Table 1. Test equipment used for measuring Total Radiated Power and Total Isotropic Sensitivity

TYPE OF EQUIPMENT	MODEL NUMBER	MANUFACTURER	SN	CALIBRATION DUE DATE
Rectangular Anechoic Chamber	3500	Howland Company	N/A	October 2026
Quad-Ridge Horn Antenna 400MHz-6GHz	QR-4	Howland Company	1010	N/R
Circularly Polarized Communication Antenna	3102	Rhode & Schwarz	408211-0001	N/A
Antenna Position Controller	Motion Control Unit	Howland Company	143	N/A
Dual Axis Positioner	None	Howland Company	Az 1019 E1	N/A
Low loss RF Cables	UFA210B	Microcoax	N/A	N/R
Desktop Computer	Workstation	Dell Computer	N/A	N/A
Pattern Measurement Software	AMS32	Rhode & Schwarz	101161	N/A
Base Station Emulator	CMW500	Rhode & Schwarz	125754	October 2026
Base Station Emulator	CMW500	Rhode & Schwarz	163639	October 2026
RF Switch	OSP 130	Rhode & Schwarz	100328	N/R
Power Meter	NRP 2	Rhode & Schwarz	102324	N/A
Power Sensors	NRP Z-11 (H)	Rhode & Schwarz	110121	September 2025
Power Sensors	NRP Z-11 (V)	Rhode & Schwarz	110122	September 2025

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Note: **N/A** = Equipment does not need to be calibrated.

N/R = Equipment is not required to be calibrated, due to the fact that it is included in the chamber calibration.

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6. SETUP PICTURES

6.1. TEST CHAMBER



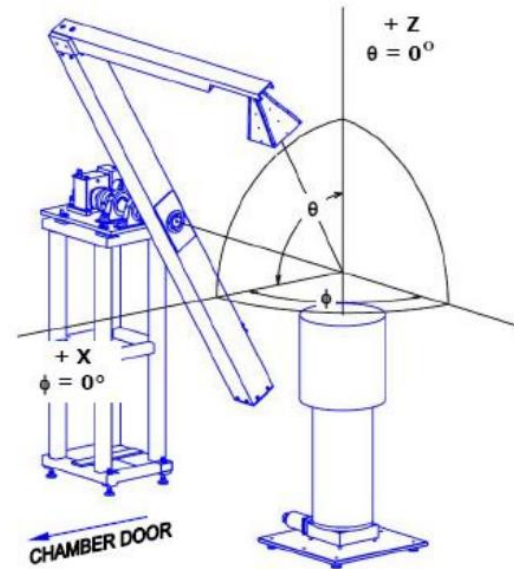
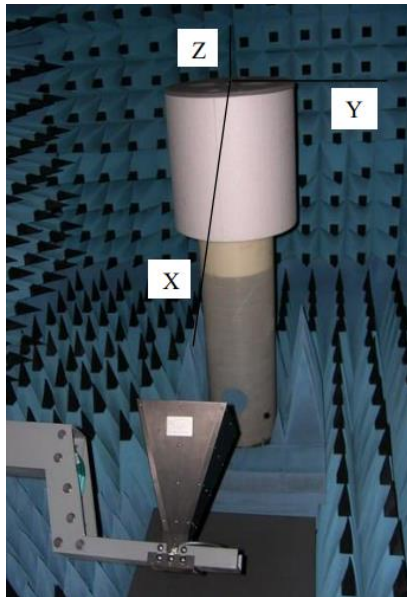
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6.2. EUT Reference Setup



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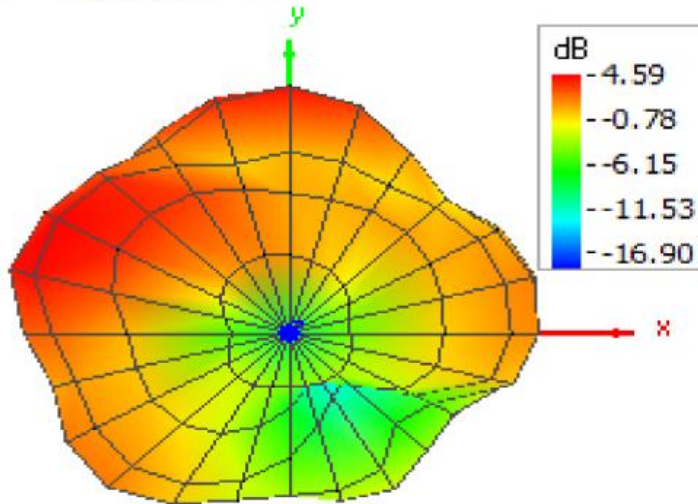
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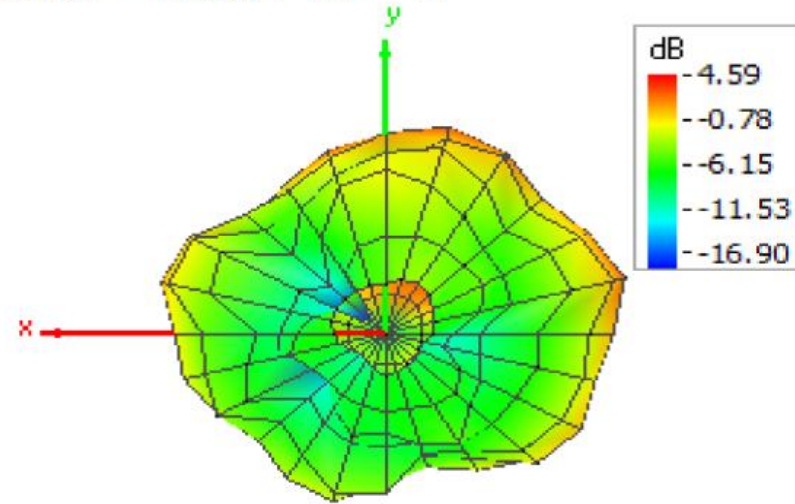
7. Antenna pattern

Wifi Antenna 1 , 2400 MHz

Theta = 0, Phi = 0



Theta = 180, Phi = 0



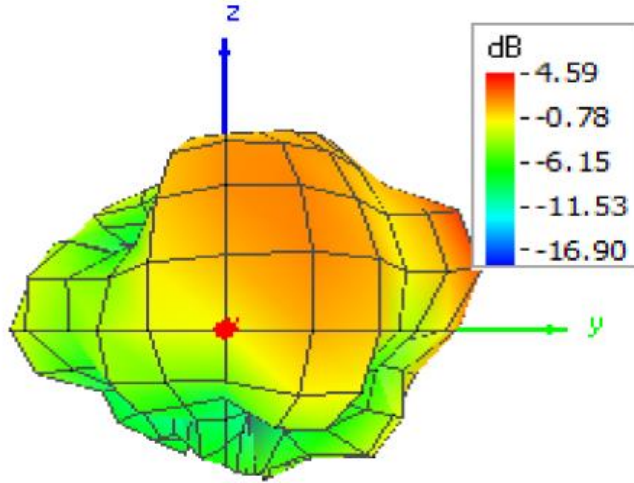
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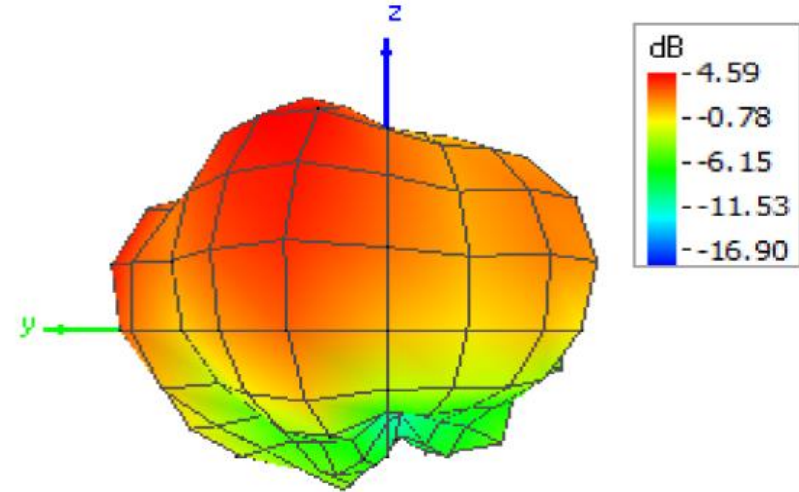
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Theta = 90, Phi = 0



Theta = 90, Phi = 180



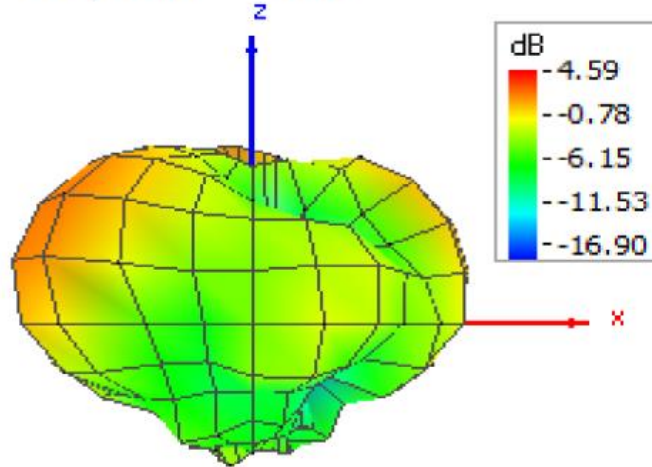
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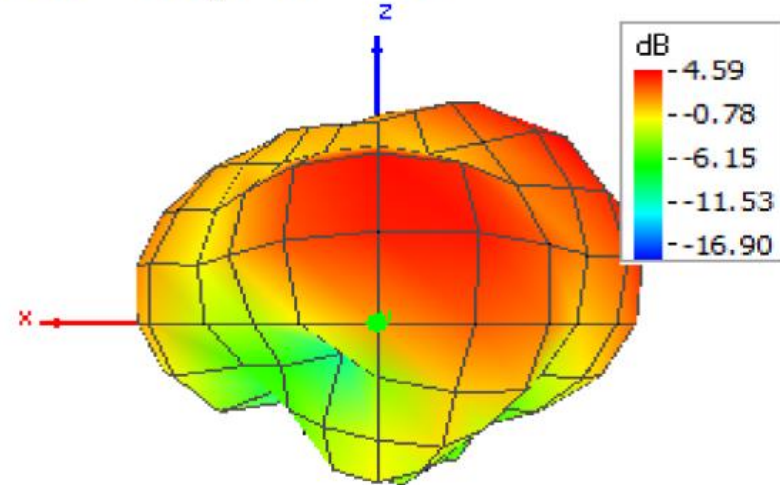
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Theta = 90, Phi = 270



Theta = 90, Phi = 90



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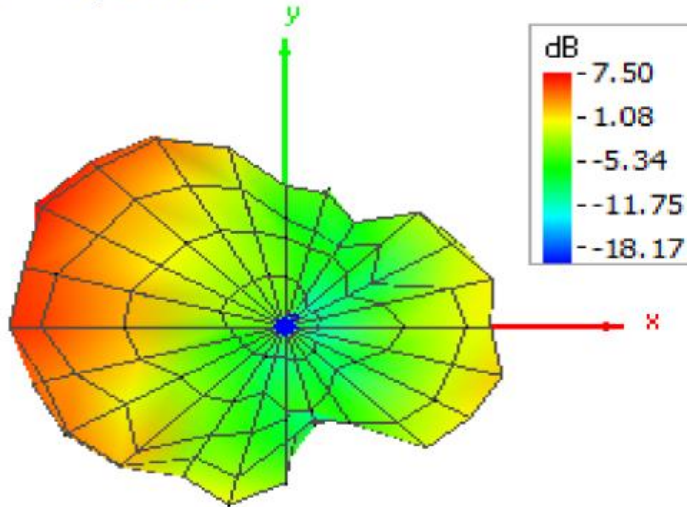
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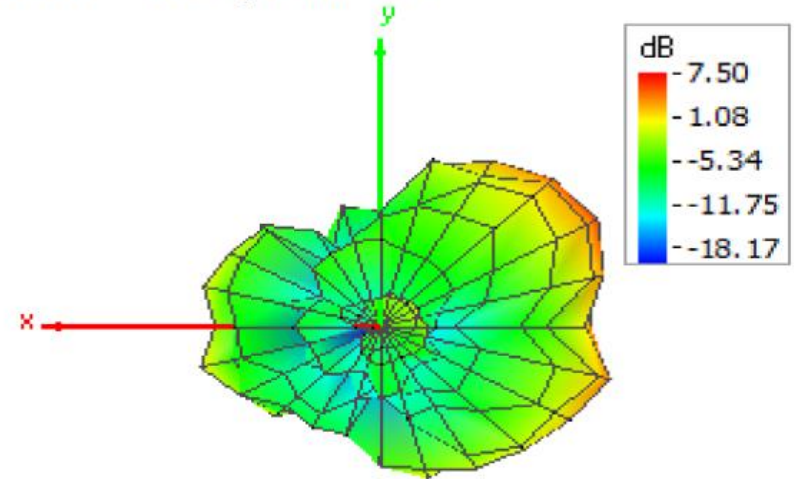
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Wifi Antenna 1, 5510 MHz

Theta = 0, Phi = 0



Theta = 180, Phi = 0



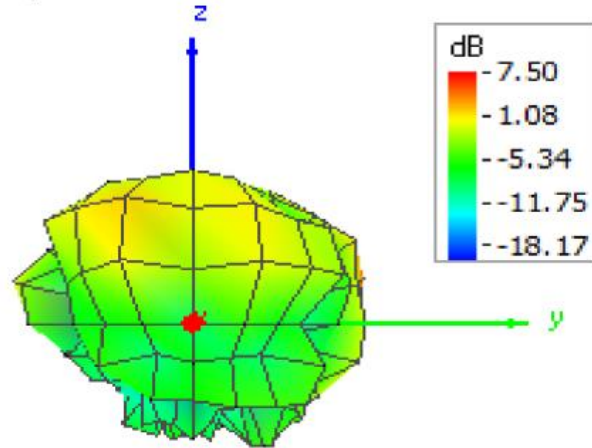
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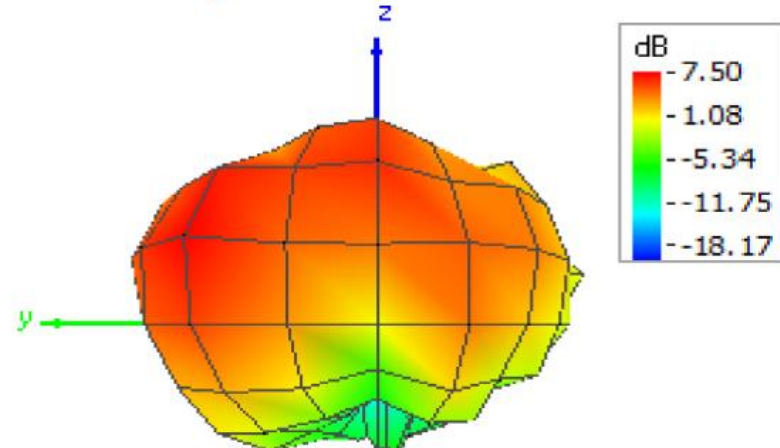
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Theta = 90, Phi = 0



Theta = 90, Phi = 180



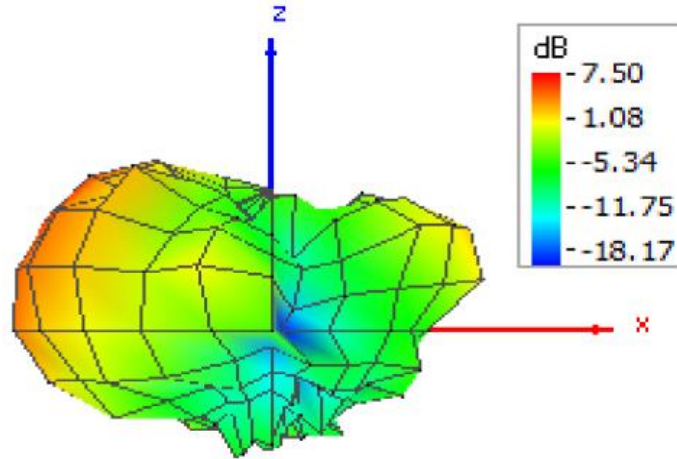
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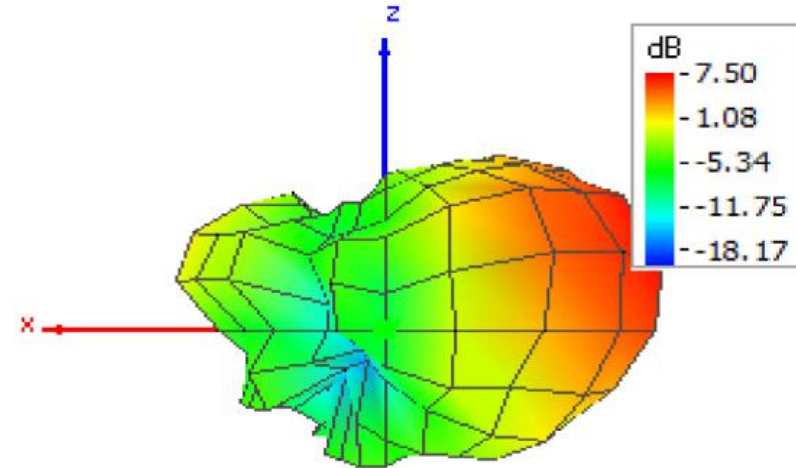
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Theta = 90, Phi = 270



Theta = 90, Phi = 90



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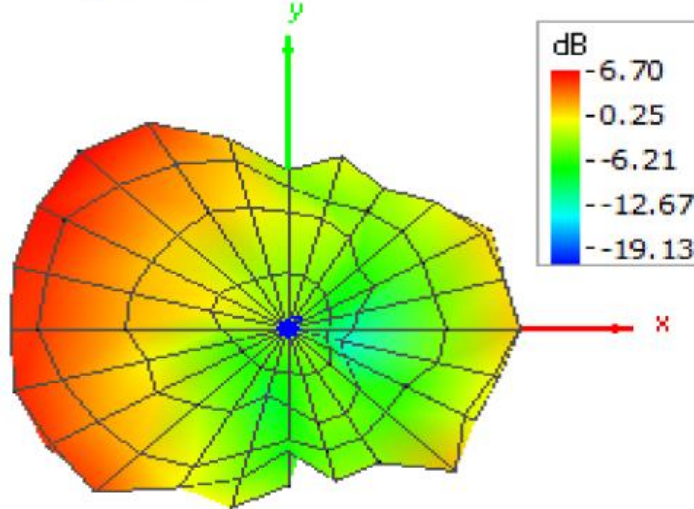
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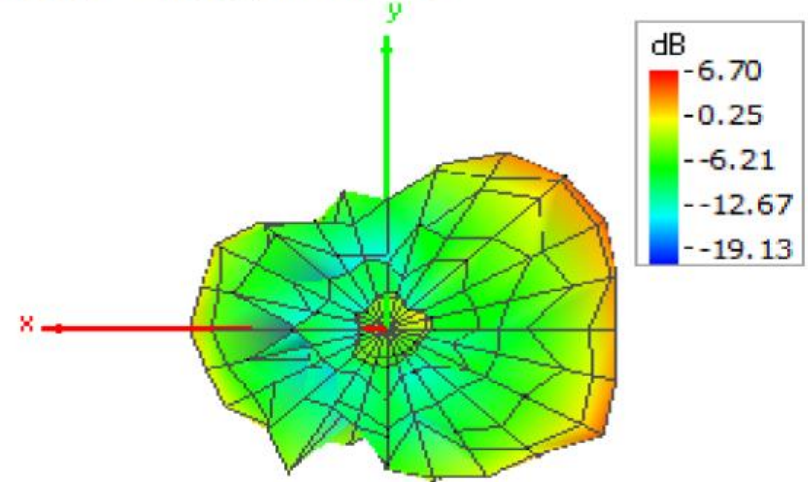
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Wifi Antenna 1, 5825 MHz

Theta = 0, Phi = 0



Theta = 180, Phi = 0



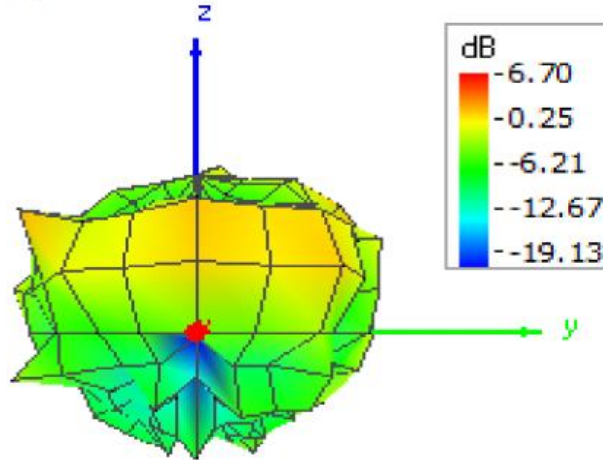
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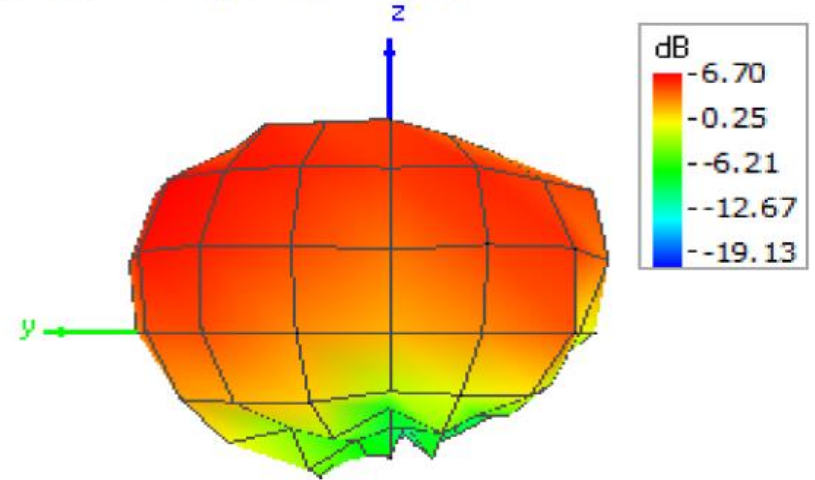
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Theta = 90, Phi = 0



Theta = 90, Phi = 180



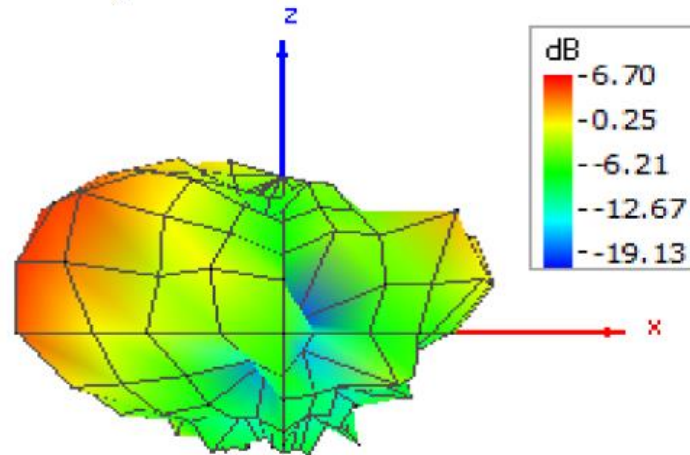
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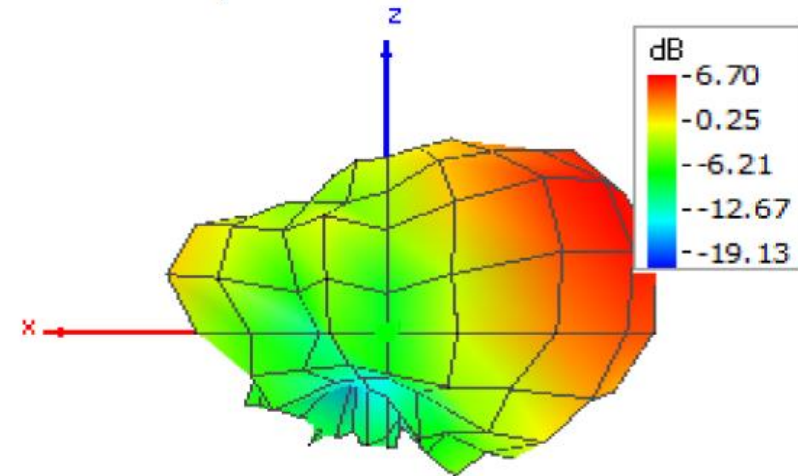
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Theta = 90, Phi = 270



Theta = 90, Phi = 90



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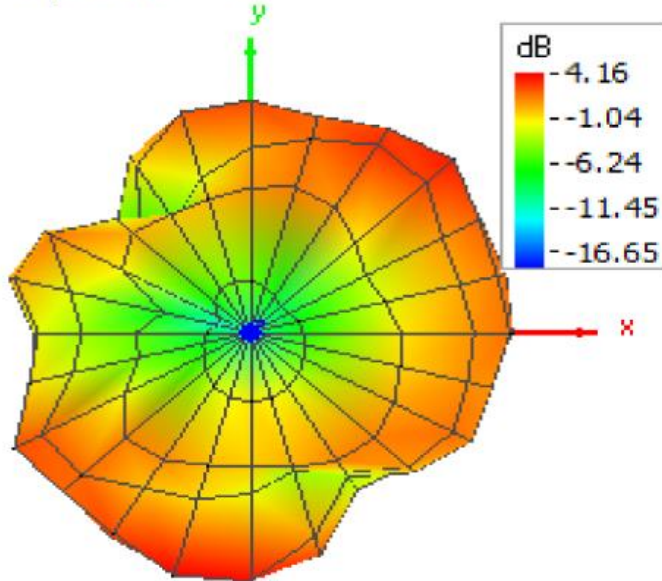
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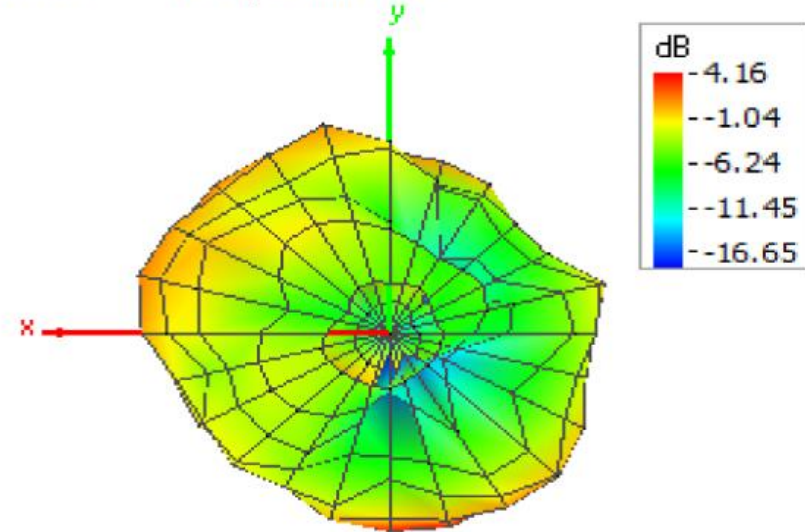
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Wifi Antenna 2 , 2400 MHz

Theta = 0, Phi = 0



Theta = 180, Phi = 0



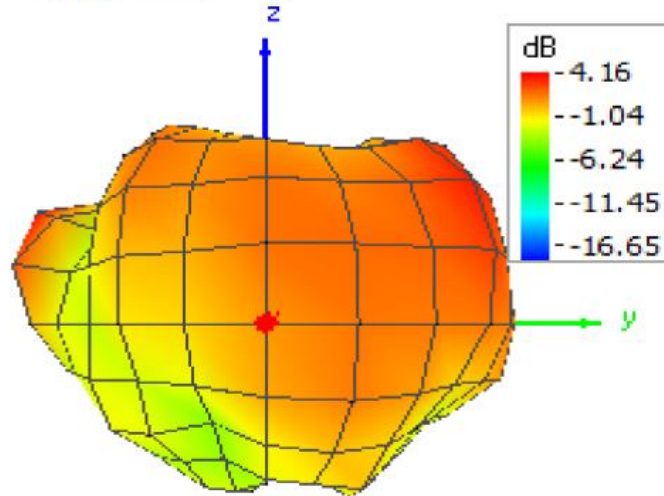
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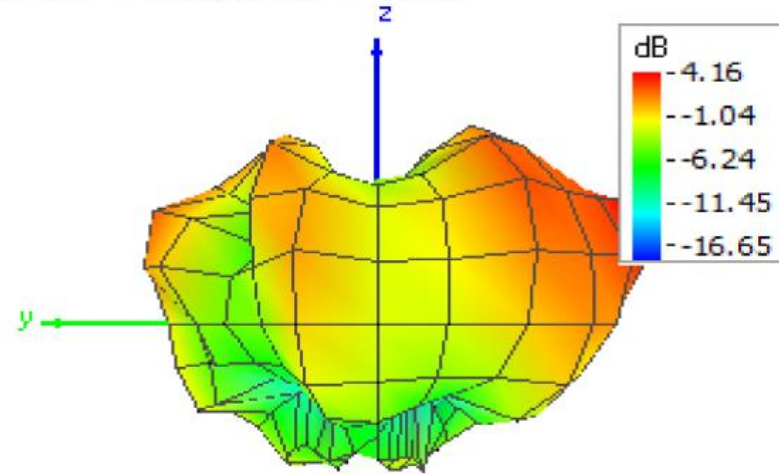
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Theta = 90, Phi = 0



Theta = 90, Phi = 180



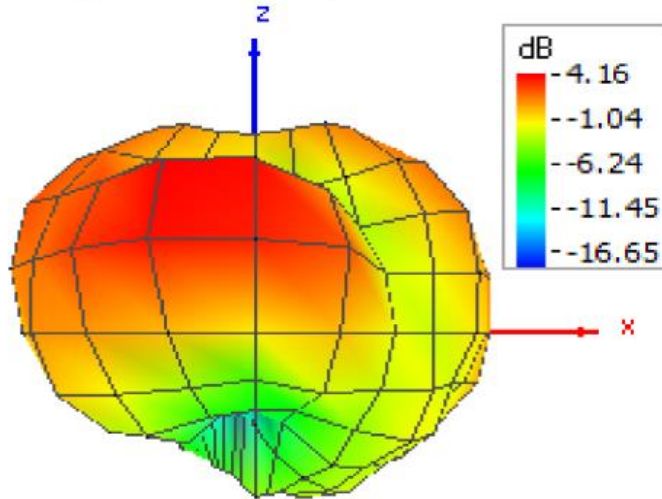
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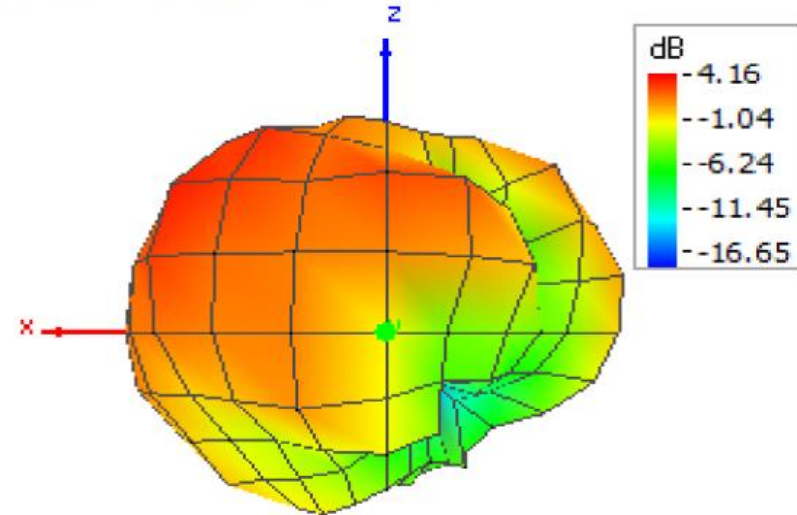
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Theta = 90, Phi = 270



Theta = 90, Phi = 90



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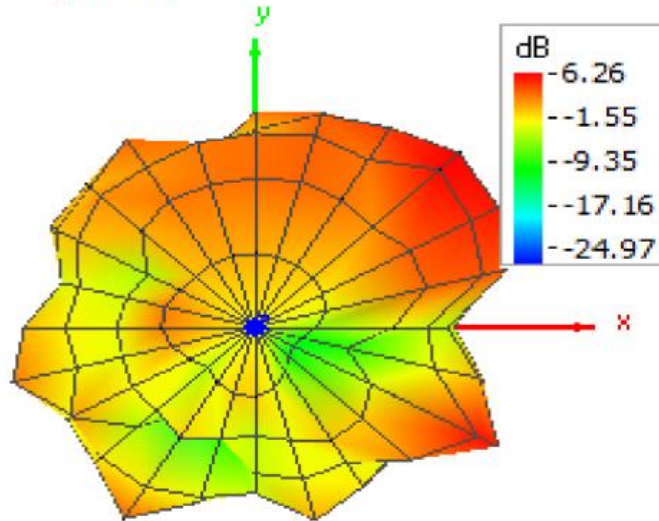
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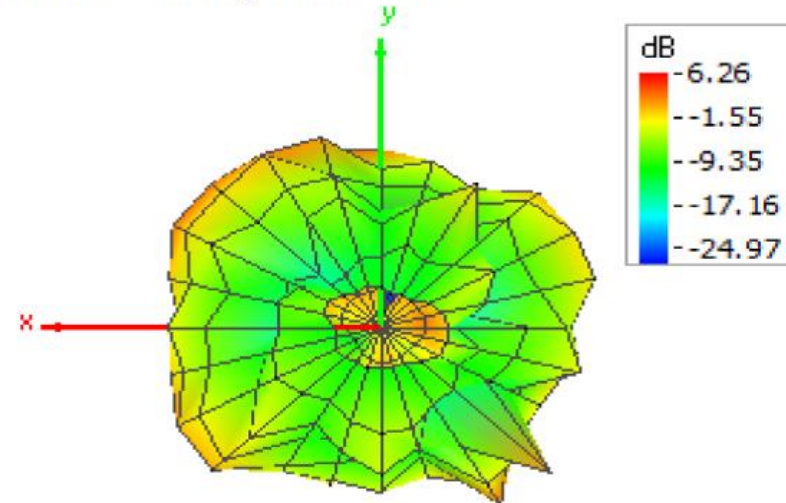
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Wifi Antenna 2 , 5110 MHz

Theta = 0, Phi = 0



Theta = 180, Phi = 0



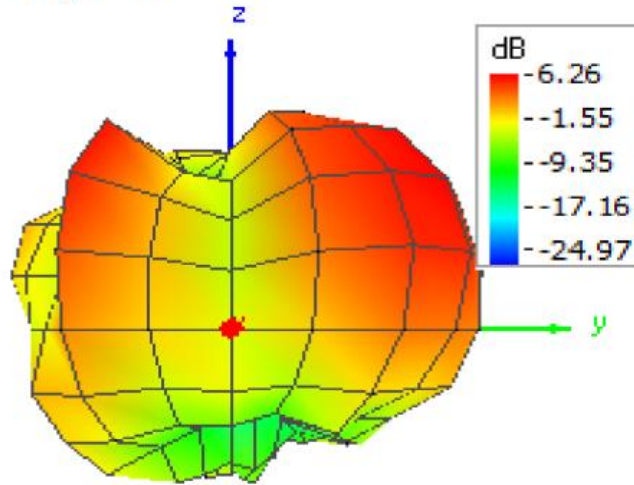
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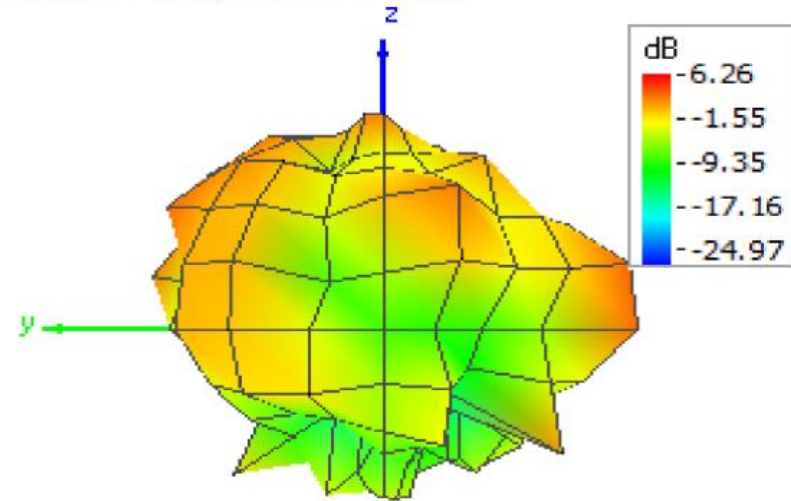
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Theta = 90, Phi = 0



Theta = 90, Phi = 180



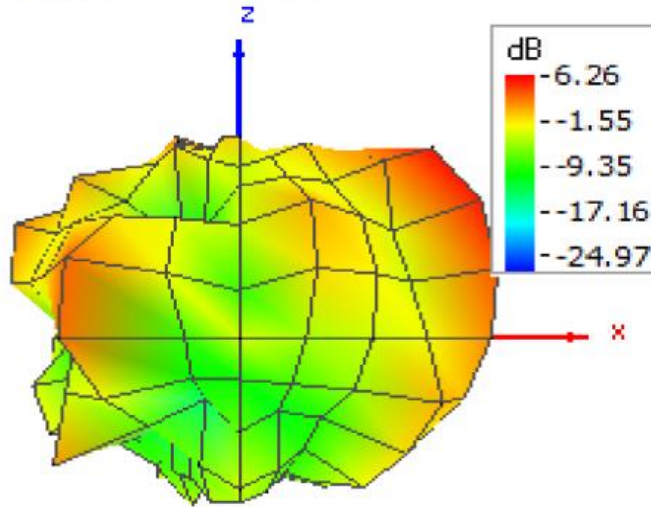
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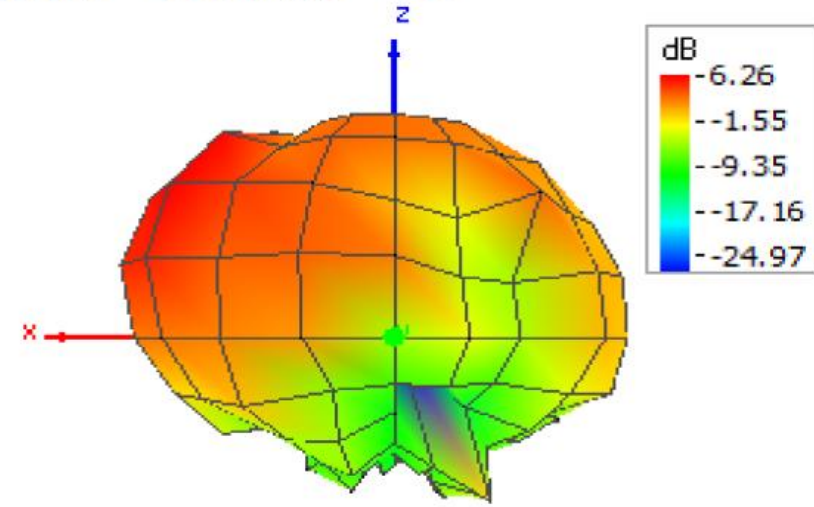
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Theta = 90, Phi = 270



Theta = 90, Phi = 90



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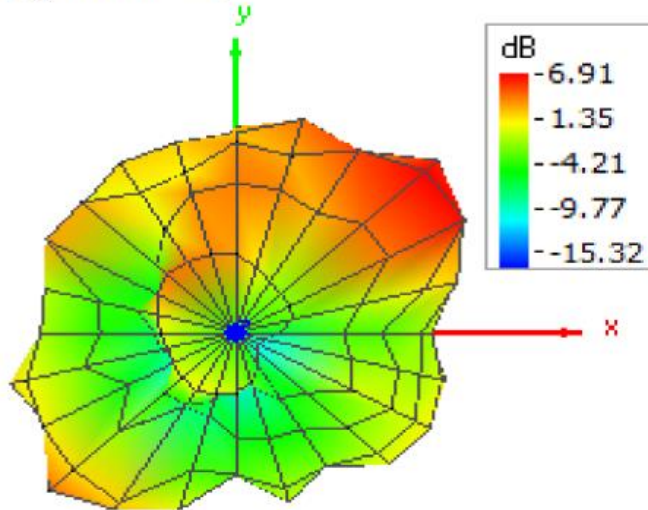
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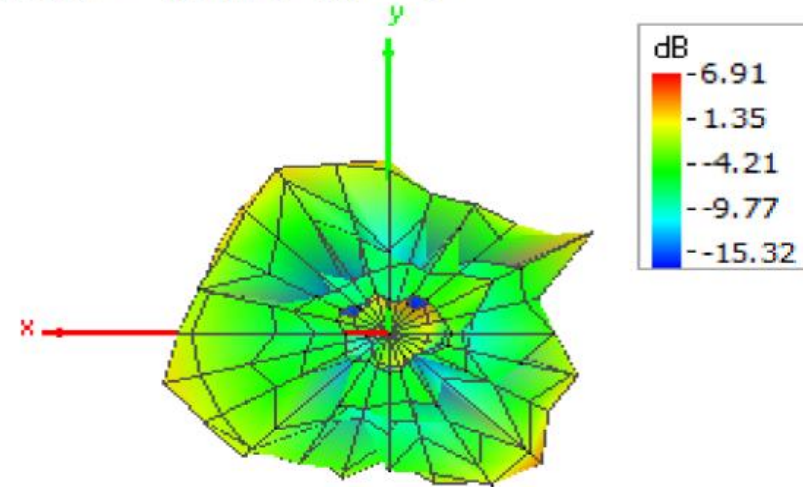
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Wifi Antenna 2 , 5825 MHz

Theta = 0, Phi = 0



Theta = 180, Phi = 0



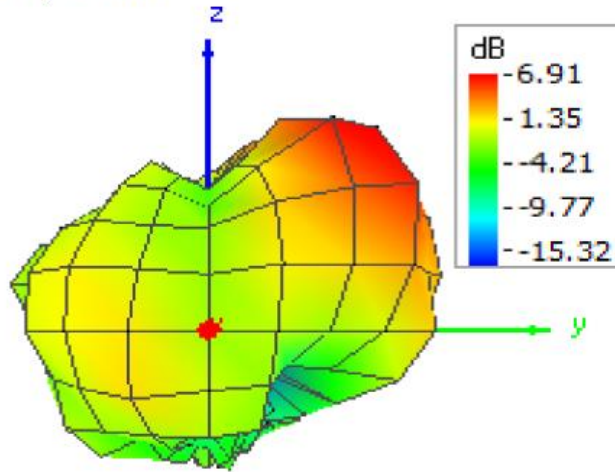
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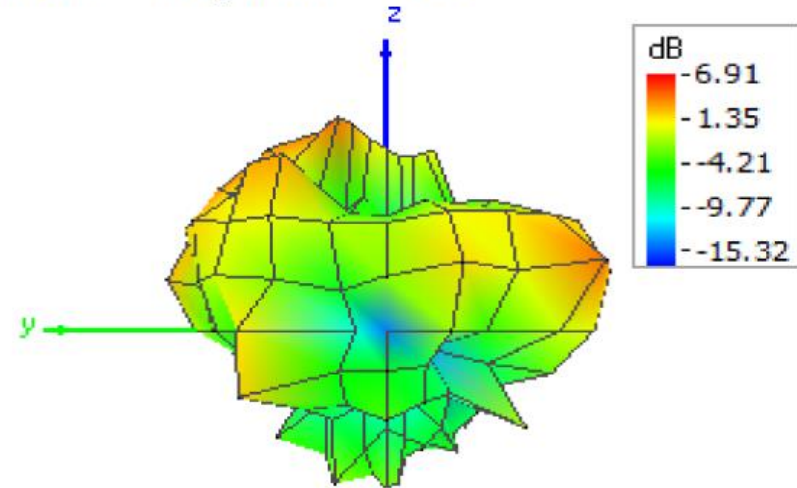
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Theta = 90, Phi = 0



Theta = 90, Phi = 180



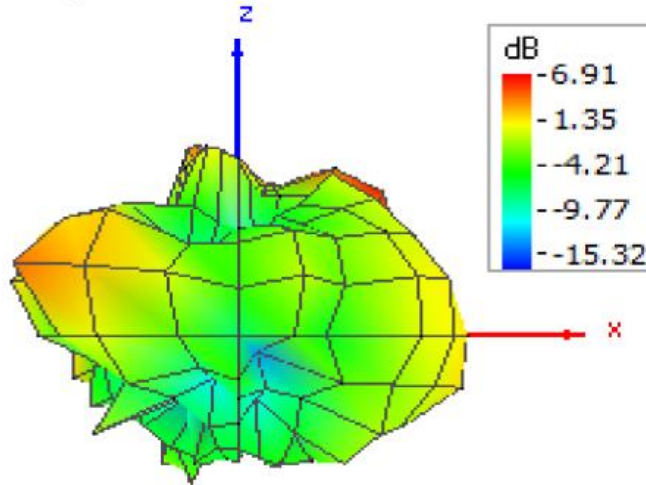
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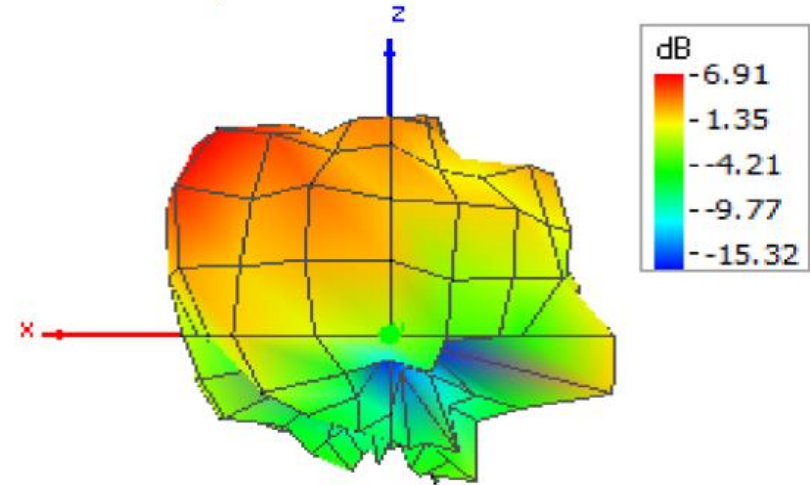
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Theta = 90, Phi = 270



Theta = 90, Phi = 90



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Authorized
Test Lab
Lab Code: 20020328- 00



8 Revision History

Version	Date	By	Status / changes
1.0	2025-12-16	NS	Official report

End of Test Report!

CETECOM Inc.

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