

3D Antenna Measurement Summary Report

REPORT NO.: ORBDKX-WTW-P25080237

MODEL NAME: MS726p-ANT

TESTED DATE: 2025.8.26

ISSUED DATE: 2025.9.9

APPLICANT : PRIMAX ELECTRONICS LTD.

ADDRESS : No. 669, Ruey Kuang Road, Neihu, Taipei, Taiwan, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services (Hong Kong) Limited, Taoyuan Branch Mobile Communications Laboratory

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RELEASE CONTROL RECORD

REPORT NO.	REASON FOR CHANGE	DATE ISSUED
ORBDKX-WTW-P25080237	Original release	2025.9.9

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GENERAL INFORMATION

APPLICANT:	PRIMAX ELECTRONICS LTD.
MANUFACTURER:	PRIMAX ELECTRONICS LTD.
MODEL NAME:	MS726p-ANT
ANTENNA TYPE:	PIFA Antenna
MEASUREMENT STATNDARD	ANSI/IEEE Std 149 2021

TESTED BY : Leo Chen , **DATE :** 2025.9.9
 Leo Chen / Engineer

PREPARED BY : Johnny Liu , **DATE :** 2025.9.9
 Johnny Liu / Supervisor

APPROVED BY : Ken Chan , **DATE :** 2025.9.9
 Ken Chan / Manager

1. Test Methods

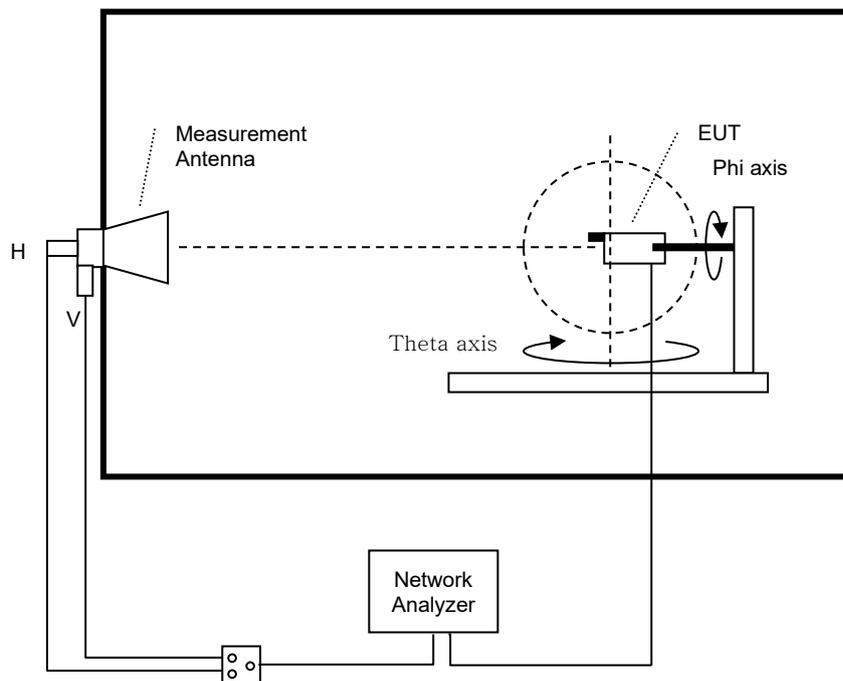
The Antenna Gain Test is performed according to The ANSI/IEEE Std 149 12.3.1 Antenna Gain (Small size (< 42cm) Linear Polarization Antennas), using a two-axis support device and one fixed measurement antenna. The EUT is positioned along the required MAPS centerline fixture holder. The EUT is then stepped between 0 and 180 degrees along the theta axis in 15-degree increments. At each theta position, the phi axis is stepped from 0-360 degrees in 15-degree increments. Data is recorded using the Network analyzer for both theta and phi polarizations at each position. Depending on the protocol, an appropriate filter is used in the EMQuest software to process the data. Upon completion of the test, test results (angular dependent EIRP) is calculated at each measurement point and the required value is automatically calculated. This test procedure is repeated for frequency and configuration as required.

2. Description of the anechoic chamber:

Length: 7.32 m

Width: 3.66 m

Height: 3.51 m



3. Test Equipment List

TYPE OF EQUIPMENT	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DUE DATE
(OTA3-HY) ETS Anechoic Chamber	ETS-Lindgren AMS-8500	CT0000411-1132	N/A
Measurement Software	ETS-Lindgren EMQuest V1.14 build 31654	1281	N/A
Multi-Axis Positioning System	ETS-Lindgren 2090-OPT1	00086248	N/A
Switch Control	Agilent 3499A	MY42005285	N/A
Network Analyzer	Agilent E5071C	MY46104190	2026/7/10

4. Measurement Uncertainty

Expanded Uncertainty for Measurement (k=2 or 95.45% Confidence Level) at Passive antenna test over frequency range:.

FREQUENCY RANGE	MEASUREMENT UNCERTAINTY
780~2200 MHz	1.40 dB
2200~3000 MHz	1.72 dB
3000~6000 MHz	3.86 dB

5. Testing Setup Photograph

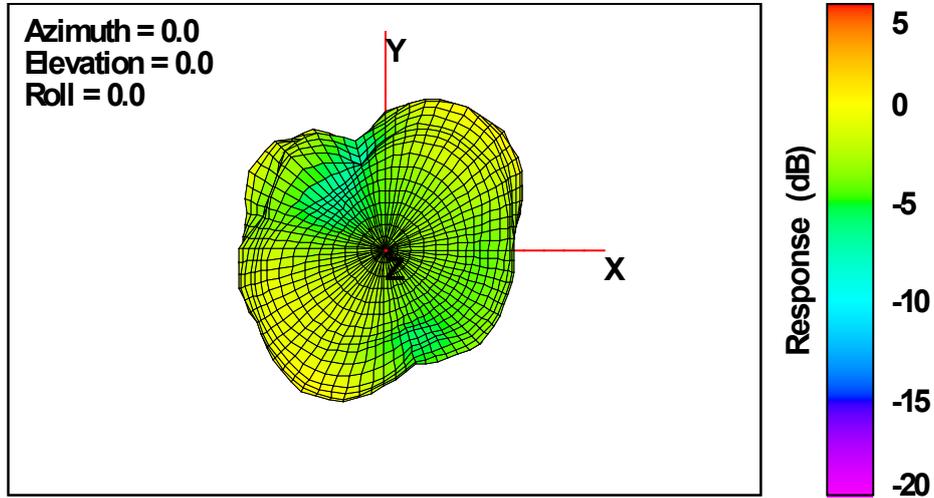
Please refer to another document - Test Setup and EUT photographs. (APPENDIX.)

6. Antenna Radiation Performance

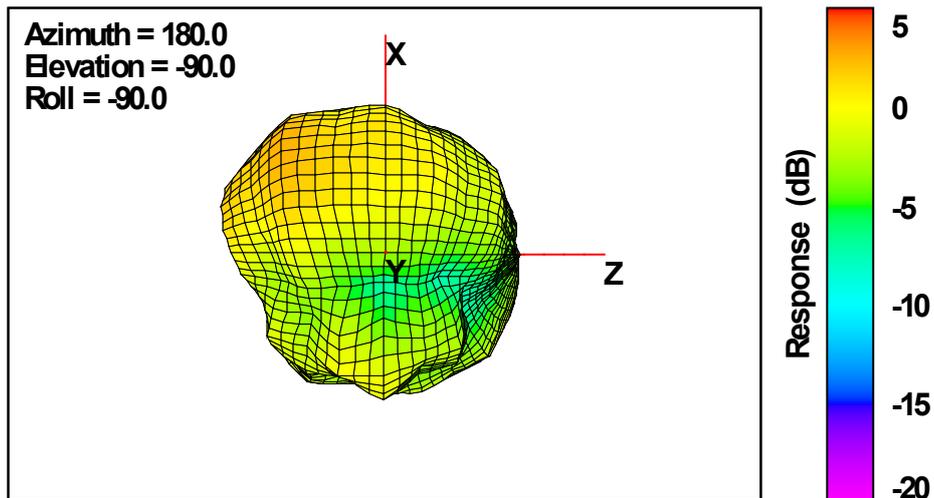
Frequency (MHz)	2350	2400	2402	2440	2450	2479
Average Gain (dBi)	-2.41	-2.01	-1.99	-1.71	-1.69	-1.69
Peak Gain (dBi)	2.78	3.34	3.36	3.80	3.85	3.81
Efficiency (%)	57.35	63.02	63.25	67.43	67.81	67.82

7. 3D Antenna Patterns

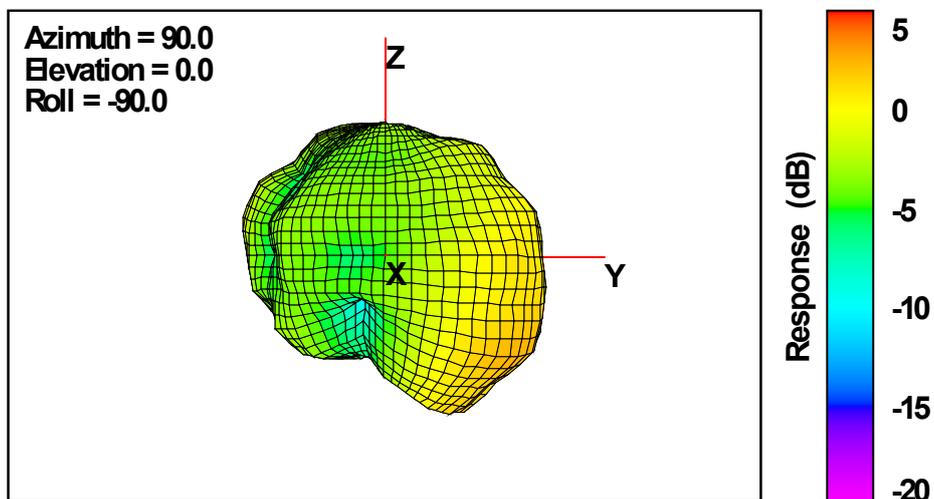
2350MHz
Total



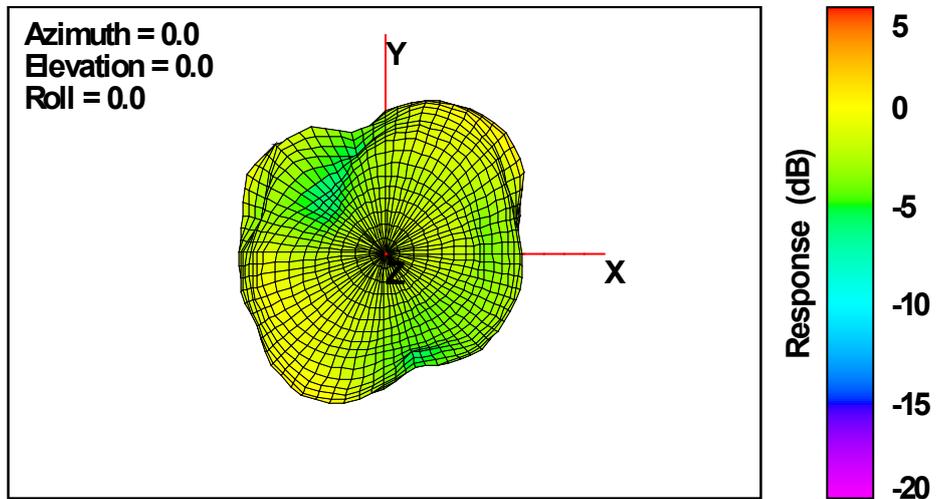
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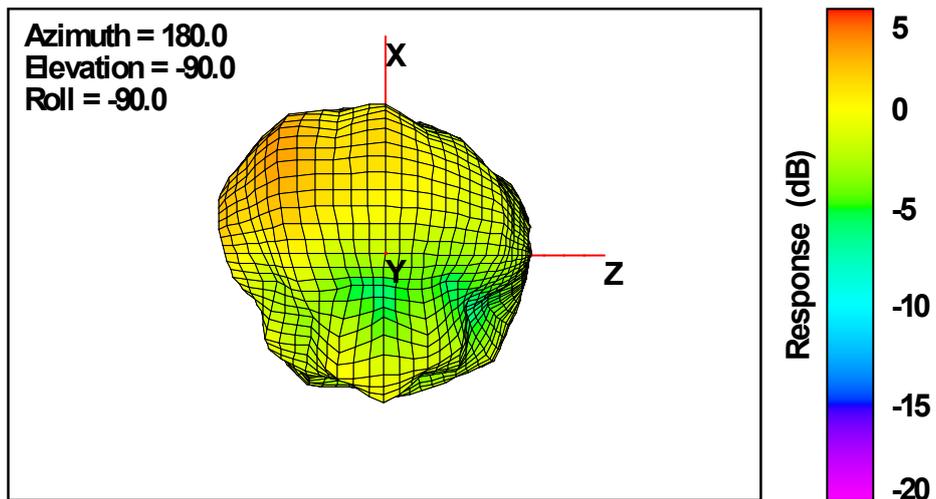
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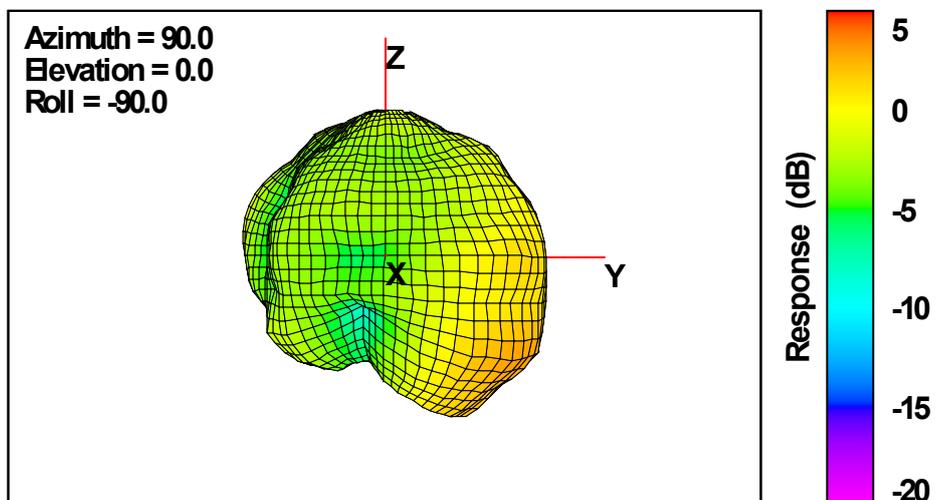
**2400MHz
Total**



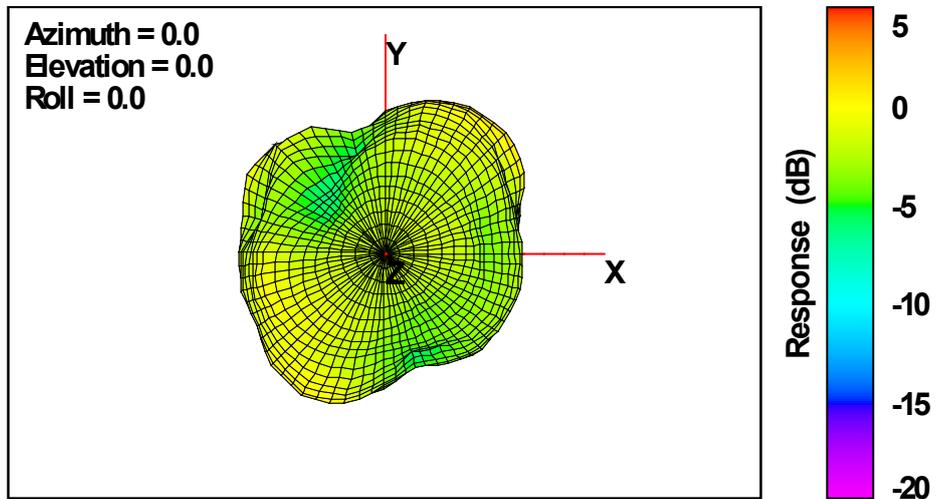
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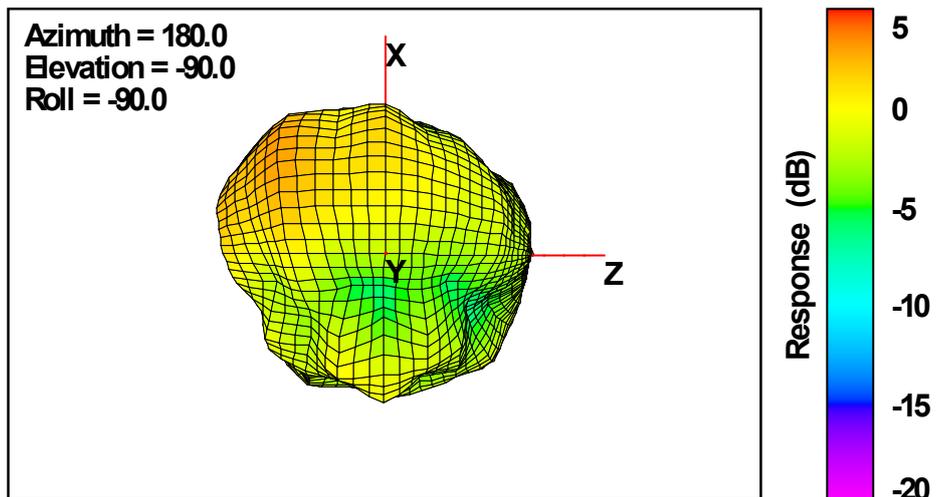
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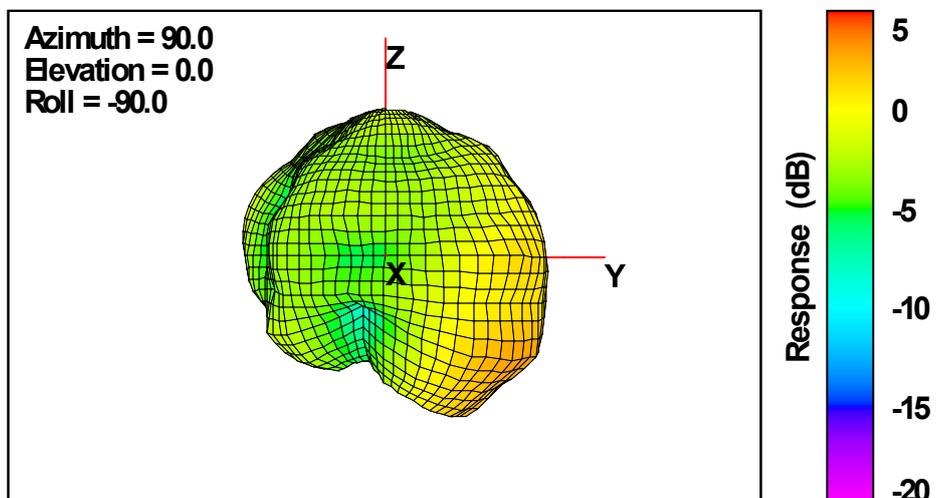
2402MHz
Total



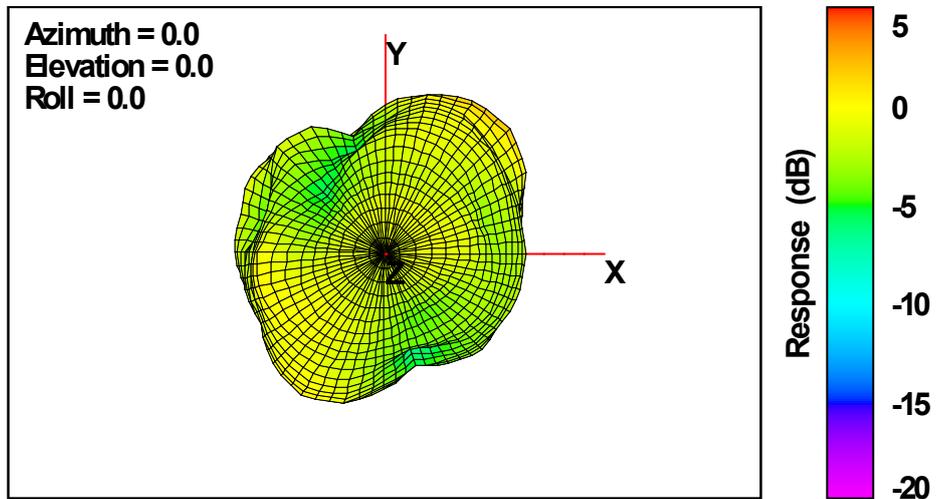
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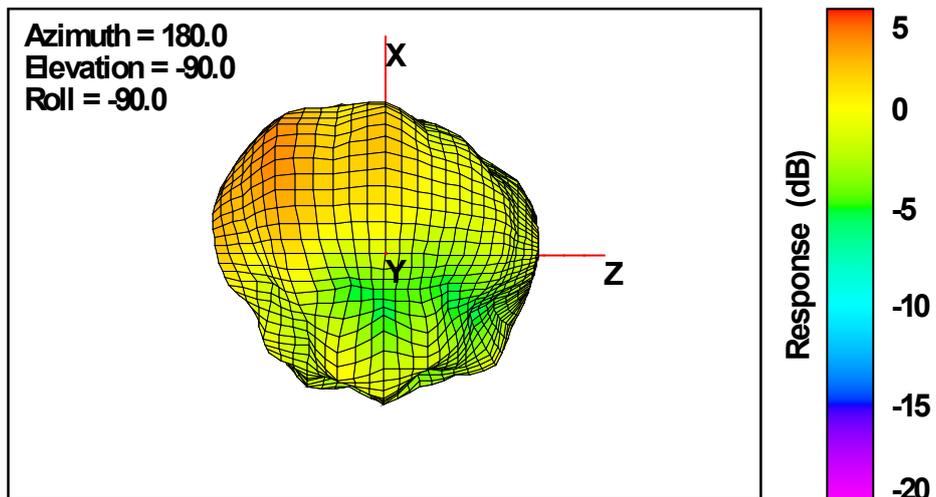
Total



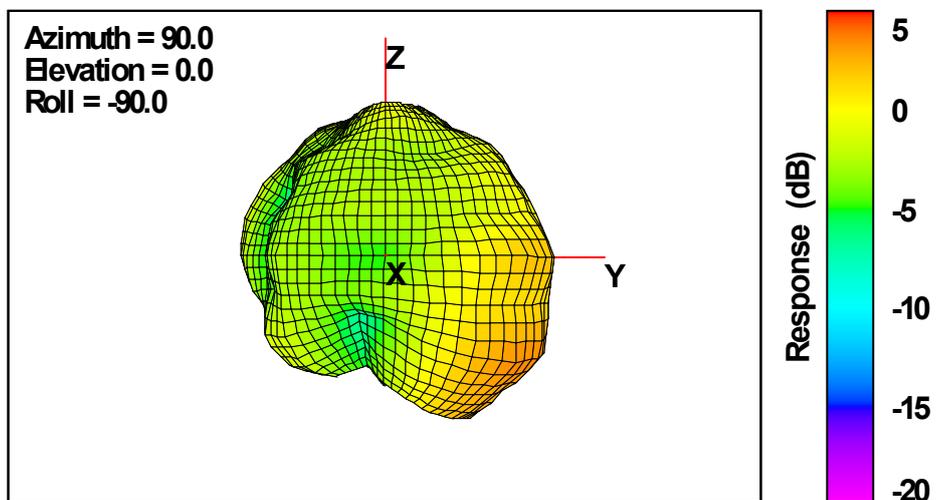
2440MHz
Total



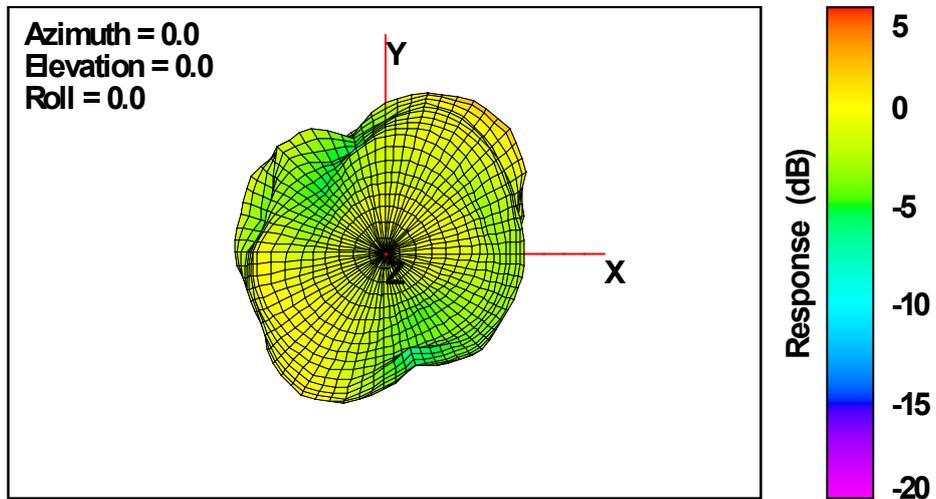
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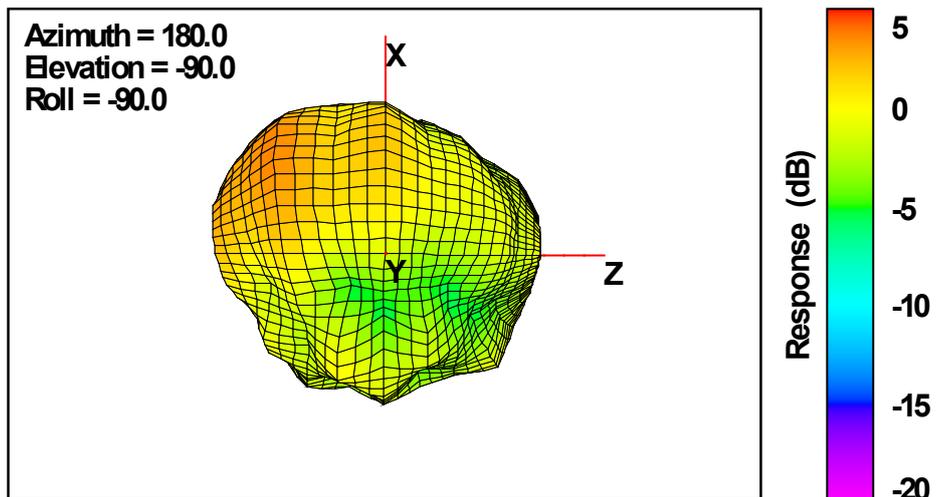
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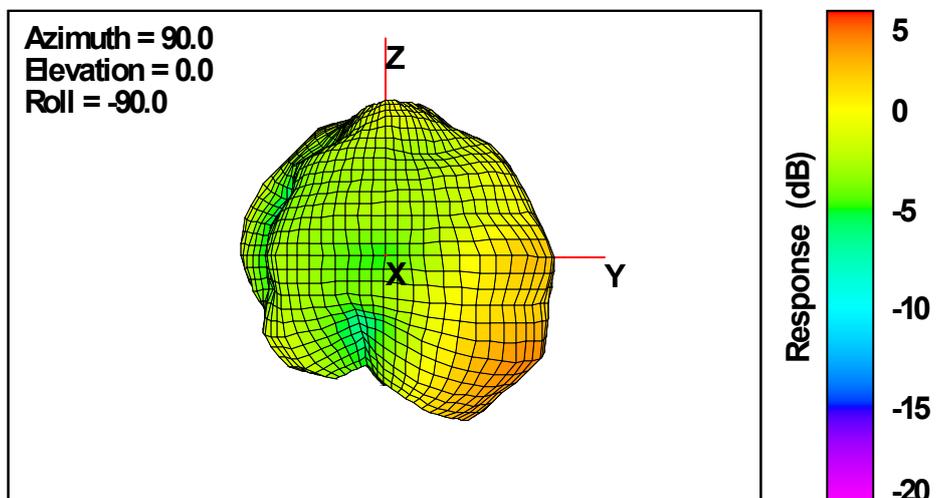
2450MHz
Total



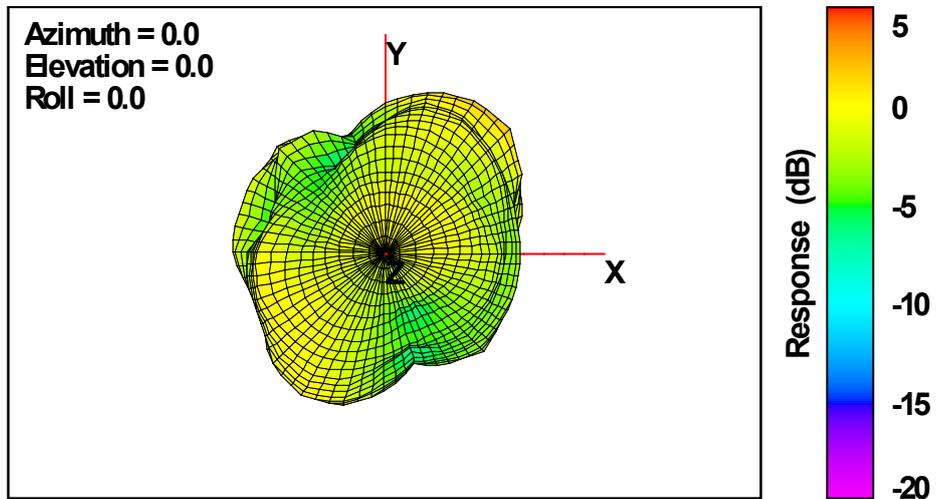
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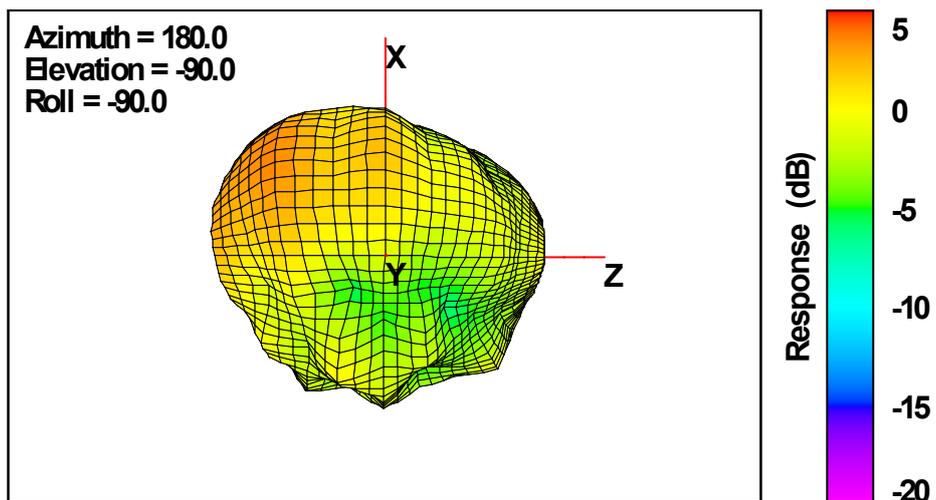
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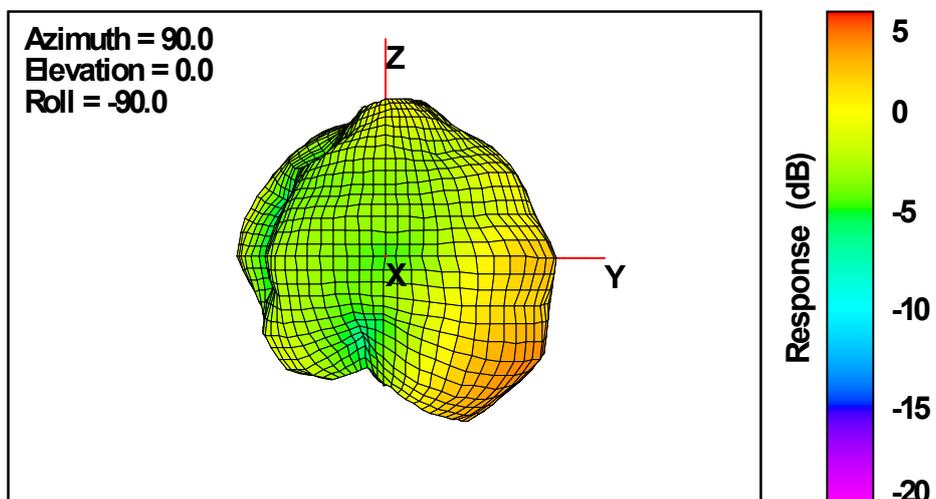
2479MHz
Total



Total



Total



APPENDIX. EUT photographs

Please refer to another document - Test Setup and EUT photographs. (APPENDIX.)