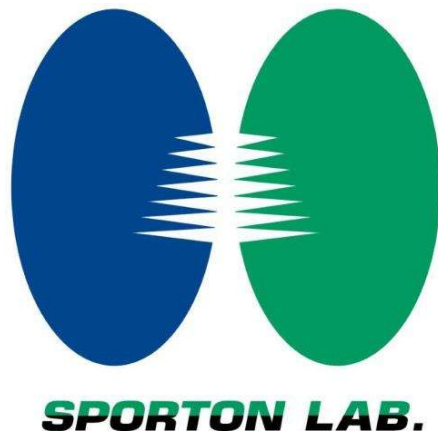




Wireless Device Over the Air Performance Test Report

REPORT NO.	OQ540947-01
APPLICANT	: SAMSARA INC
MANUFACTURER	: Jabil Circuit de Mexico, S. de R.L. de C.V.
EQUIPMENT	: Asset tag
DATE OF RECEIPT	: May 13, 2025
DATE OF TEST	: May 13, 2025
ISSUE DATE	: May 21, 2025

Reviewed by:

Neil Kao / Manager

We, SPORTON INTERNATIONAL (USA) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (USA) INC., the test report shall not be reproduced except in full.

The declared product specification for EUT presented in this report is provided by the manufacturer / applicant, and the manufacturer / applicant takes all the responsibilities for the accuracy of product specification.

SPORTON INTERNATIONAL (USA) INC.



Table of Contents

Revision History	3
1. Test Laboratory	4
2. Client Information	4
2.1 Applicant	4
2.2 Manufacturer	4
3. Device Under test(DUT) Information	5
3.1 Description of DUT	5
4. Measurement Environment	6
5. Summary of Test Results	7
5.1. Declaration	7
5.2. Abbreviations and Definitions	7
5.3. Summary Table	8
6. Description for EUT Testing Position	9
Appendix A. Pattern Plots	11
Appendix A.1 ATX11B	11
Appendix A.2 ATX11X	14



Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
OQ540947-01	1.0	Initial issue of report	May 21, 2025



1. Test Laboratory

Test Site	Sporton International (USA) Inc.
Telephone Number	TEL: +1-408-904-3300
Address	1175 Montague Expressway, Milpitas, CA 95035 USA
Chamber	☐ OTA01-CA ☒ OTA02-CA

☒ : The chamber(s) which used to perform the test in this test report.

2. Client Information

2.1 Applicant

Company Name	SAMSARA INC
Address	1 De Haro Street, San Francisco, CA, 94107, USA
Contact Person	Eduardo Mancilla / eduardo.mancilla@samsara.com
Telephone Number	52 (55) 5067-2459

2.2 Manufacturer

Company Name	Jabil Circuit de Mexico, S. de R.L. de C.V.
Address	Av Guadalupe 420-A Guadalajara Technology Park, Carretera a Nogales Km 13.5, Zapopan, Jal, 45010. MEXICO
Contact Person	Luis Maldonado / Luis_Maldonado2@jabil.com
Telephone Number	3310485829



3. Device Under test(DUT) Information

3.1 Description of DUT

Product Feature & Specification	
EUT Type	Asset tag
Brand Name	SAMSARA
Model Name	030-00007
Marketing Name	AT11X
Antenna Type	Internal antenna

4. Measurement Environment

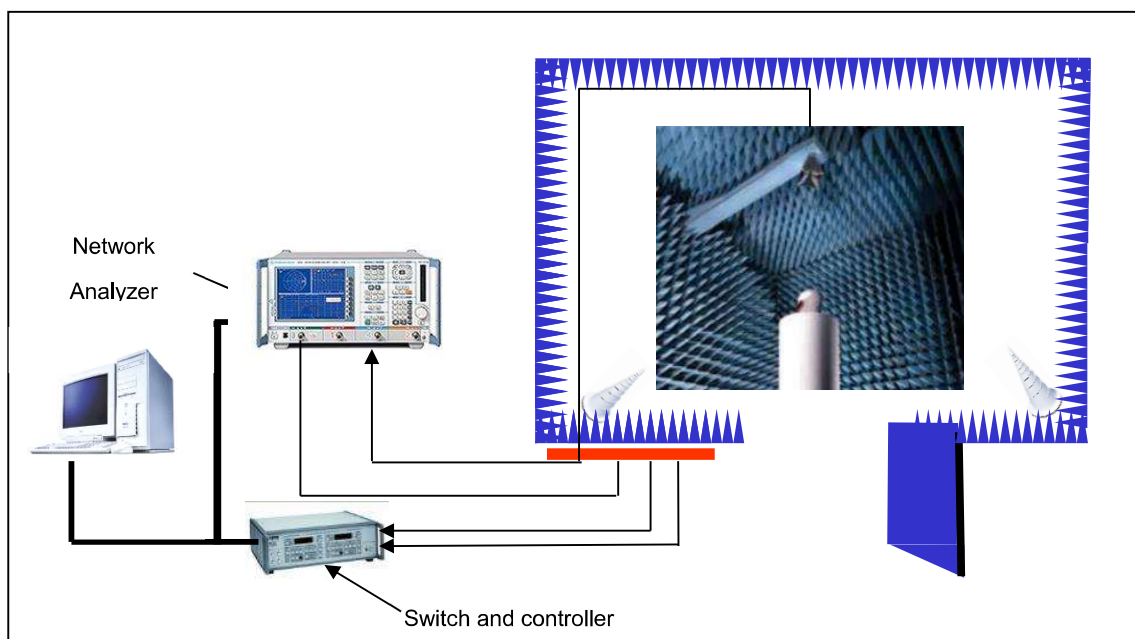
Ambient Condition

Temperature (°C):	25°C +/- 5°C	Humidity (%):	<60%
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Test Equipment List

Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Vector Network Analyzer	R&S	ZVB8	100110	2024/08/05	2025/08/04
RF Switch	ETS-Lindgren	EMCenter	00162498	N/A	N/A
Open Boundary Quad-Ridged Horn	ETS-Lindgren	3164-08	N/A	N/A	N/A
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00055109	N/A	N/A

Passive Measurement Setup





5. Summary of Test Results

5.1. Declaration

Declaration of Conformity:
The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.
Comments and Explanations:
Done

5.2. Abbreviations and Definitions

Please note the following abbreviations in this section:

FS = Free Space

5.3. Summary Table

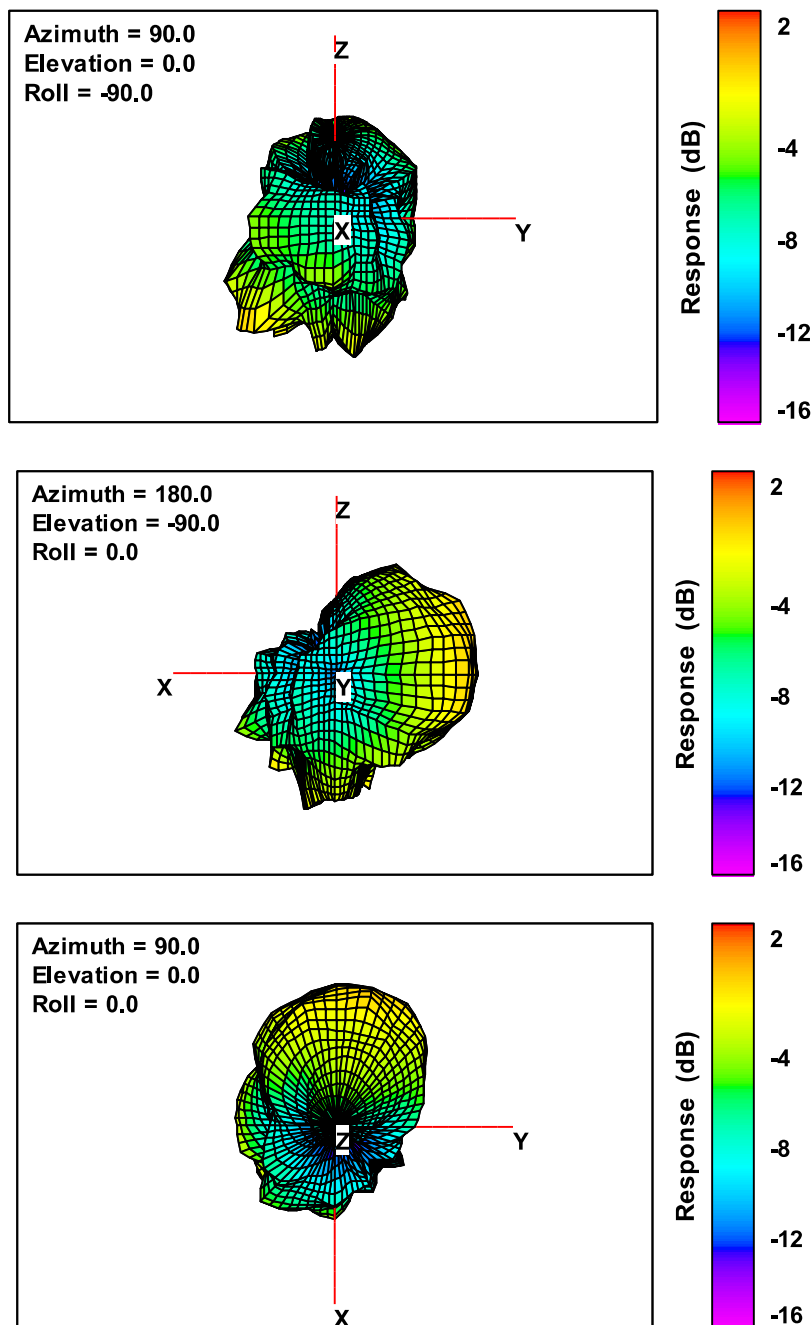
Samsara_ATX11B_3D_Gain_FS						
Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2402	-4.86	0.27	5.14	-4.86	32.63	0.27
2426	-4.26	1.22	5.48	-4.26	37.49	1.22
2480	-3.47	1.77	5.24	-3.47	45.01	1.77

Samsara_ATX11X_3D_Gain_FS						
Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2402	-4.59	1.12	5.71	-4.59	34.76	1.12
2426	-4.01	1.54	5.55	-4.01	39.74	1.54
2480	-2.92	2.15	5.07	-2.92	51.03	2.15

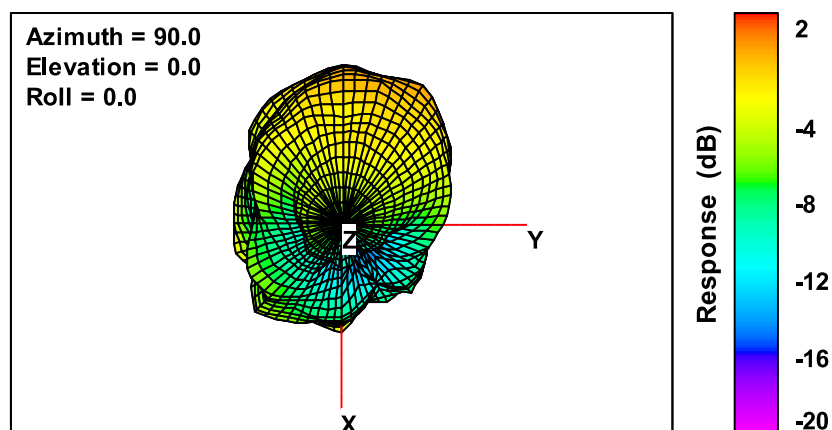
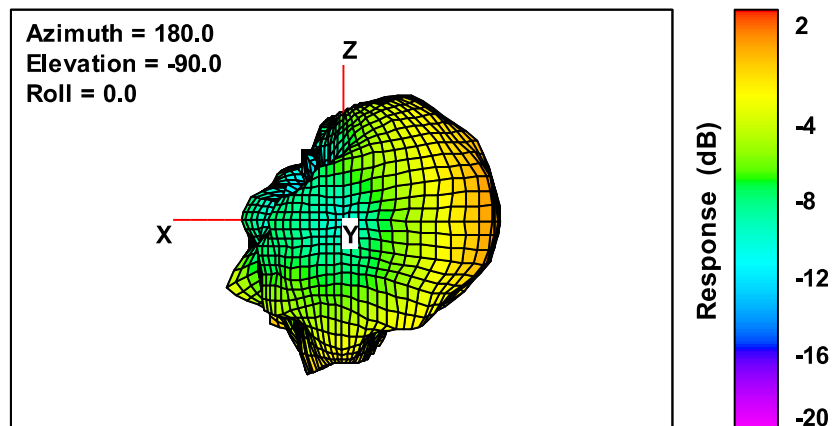
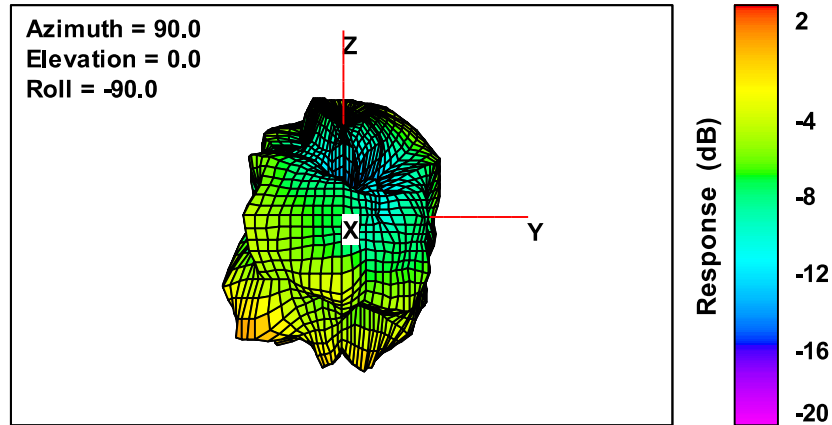
Appendix A. Pattern Plots

Appendix A.1 ATX11B

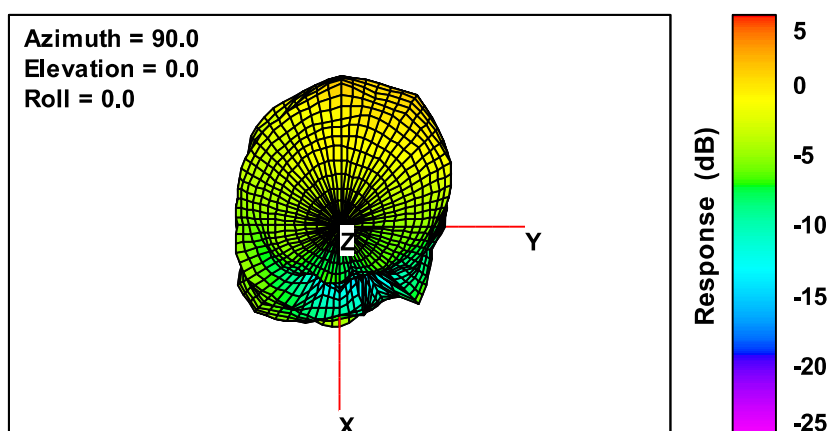
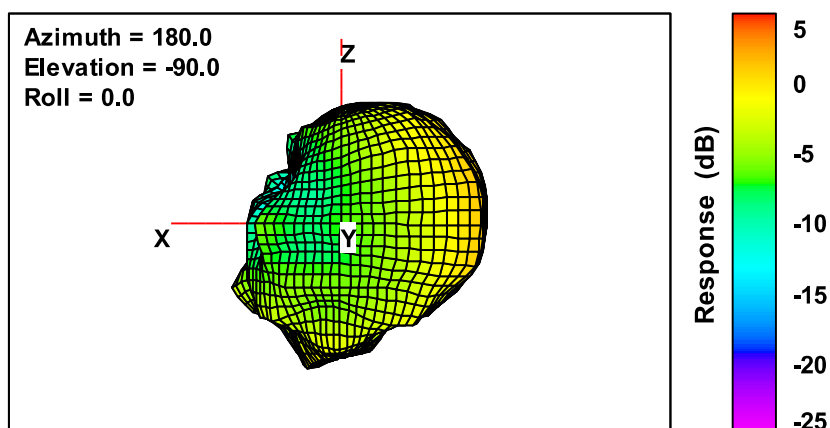
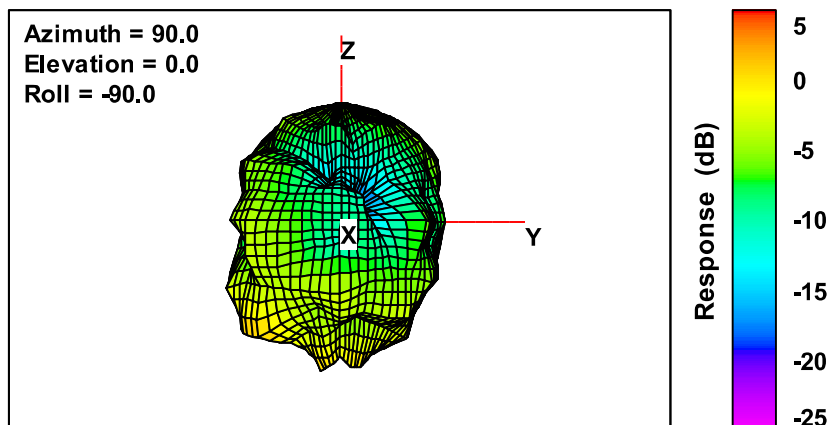
2402MHz



2426MHz

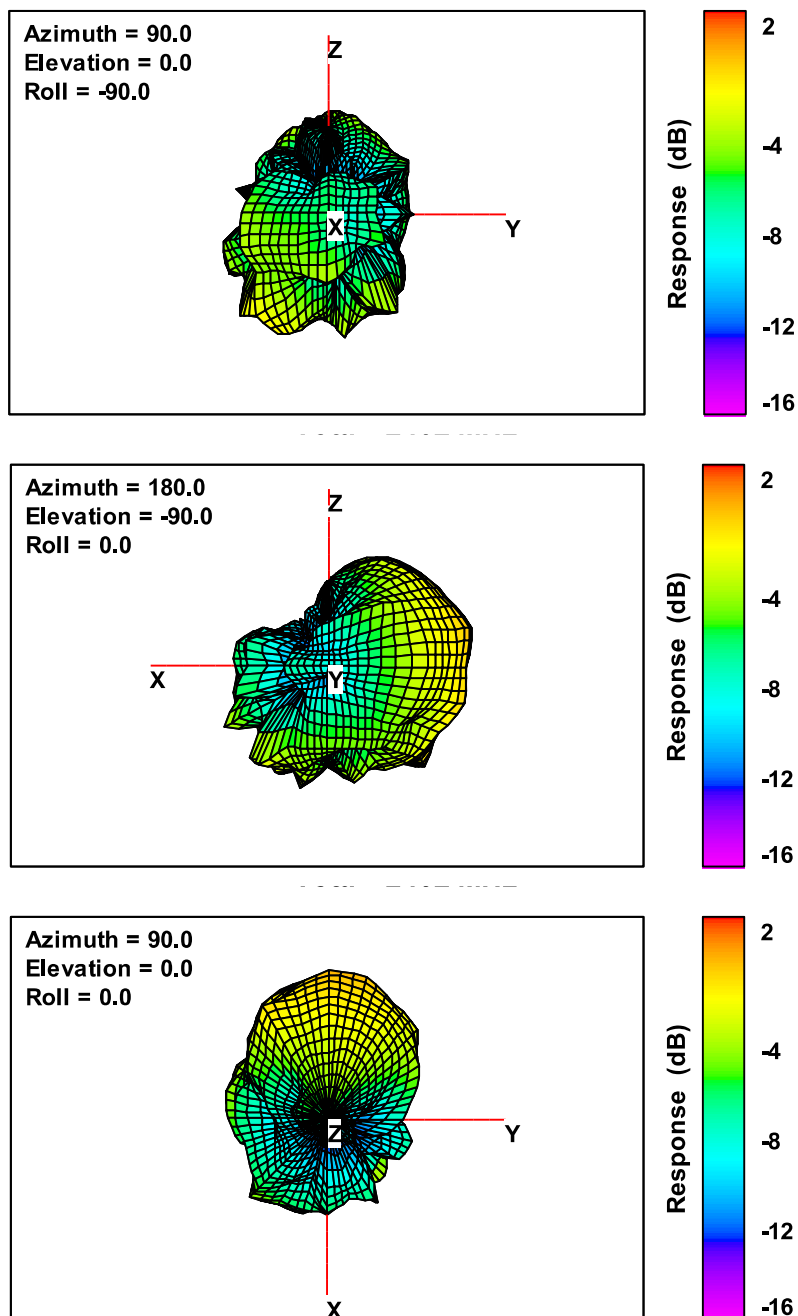


2480MHz

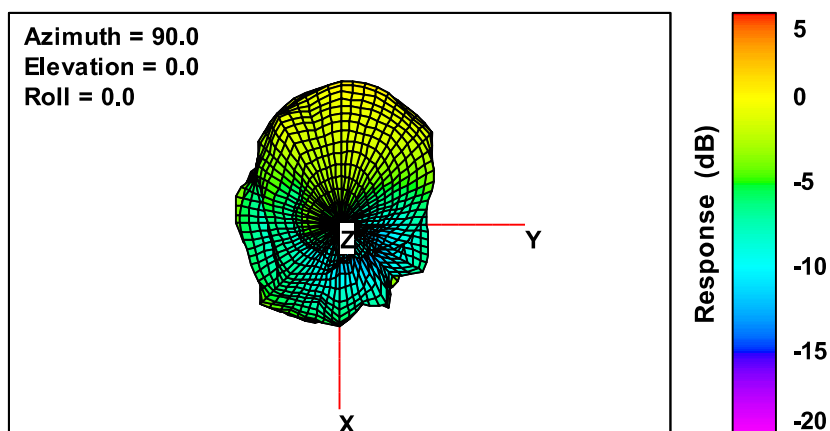
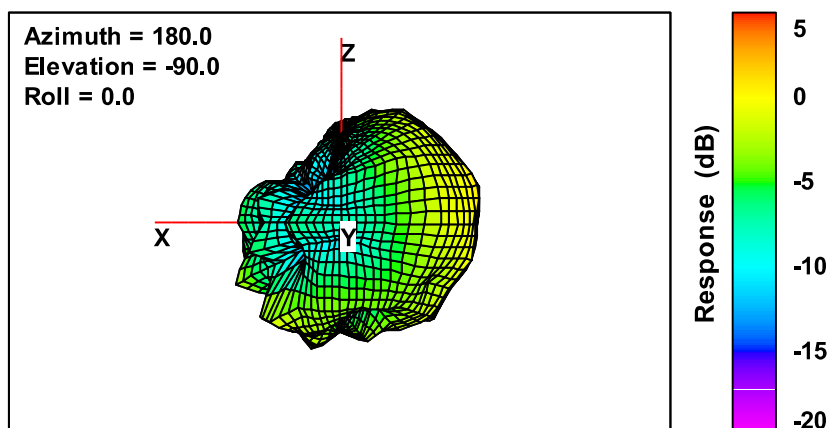
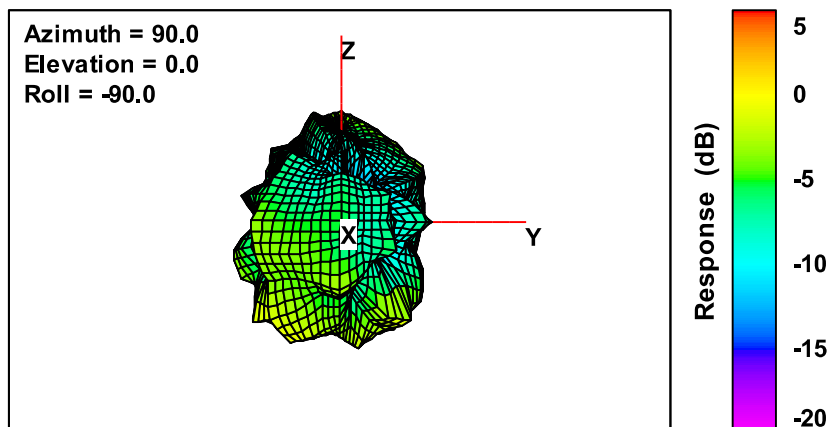


Appendix A.2 ATX11X

2402MHz



2426MHz



2480MHz

