

Antenna Test Report

Test Standard : IEEE 149-1979

Manufacturer : Techxen

Product Name : 2.4GHz Antenna

Model : TX-M3530-AT

Tested Date : 2022-08-05

Issued Date : 2026-01-23

Tested By : Josh (Engineer)

Approved By : SY You (Manager)

Techxen Co., Ltd.

9th floor, N Tower Garden 26, Hwangsaеul-ro 200 beon-gil,
Bundang-gu, Seongnam-si, Gyeonggi-do, 13595, Korea

1. General Information

1.1 Product Information

Manufacturer	
Manufacturer	Techxen Co., Ltd.
Address of Manufacture	9 th floor, N Tower Garden 26, Hwangsaеul-ro 200 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13595, Korea

General Description of Antenna	
Product Name	2.4GHz Antenna
Model No.	TX-M3530-AT
Frequency Range	2400MHz-2485MHz
Type of Antenna	PCB Antenna
Antenna Gain	-5.14dBi(Max.)
Impedance	50 ohm
Antenna View 	

1.2 Test Methodology

All measurements contained in this report were conducted with standards IEEE 149-1979 for IEEE Standard Test Procedures for Antennas.

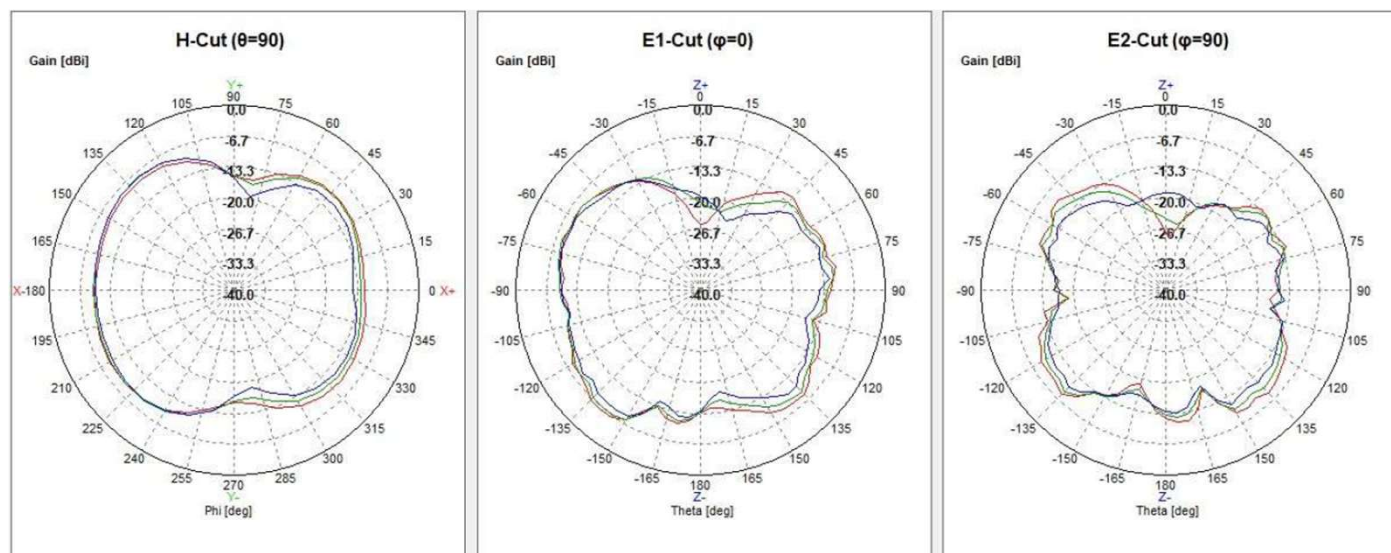
2. OTA Test

2.1 Gain

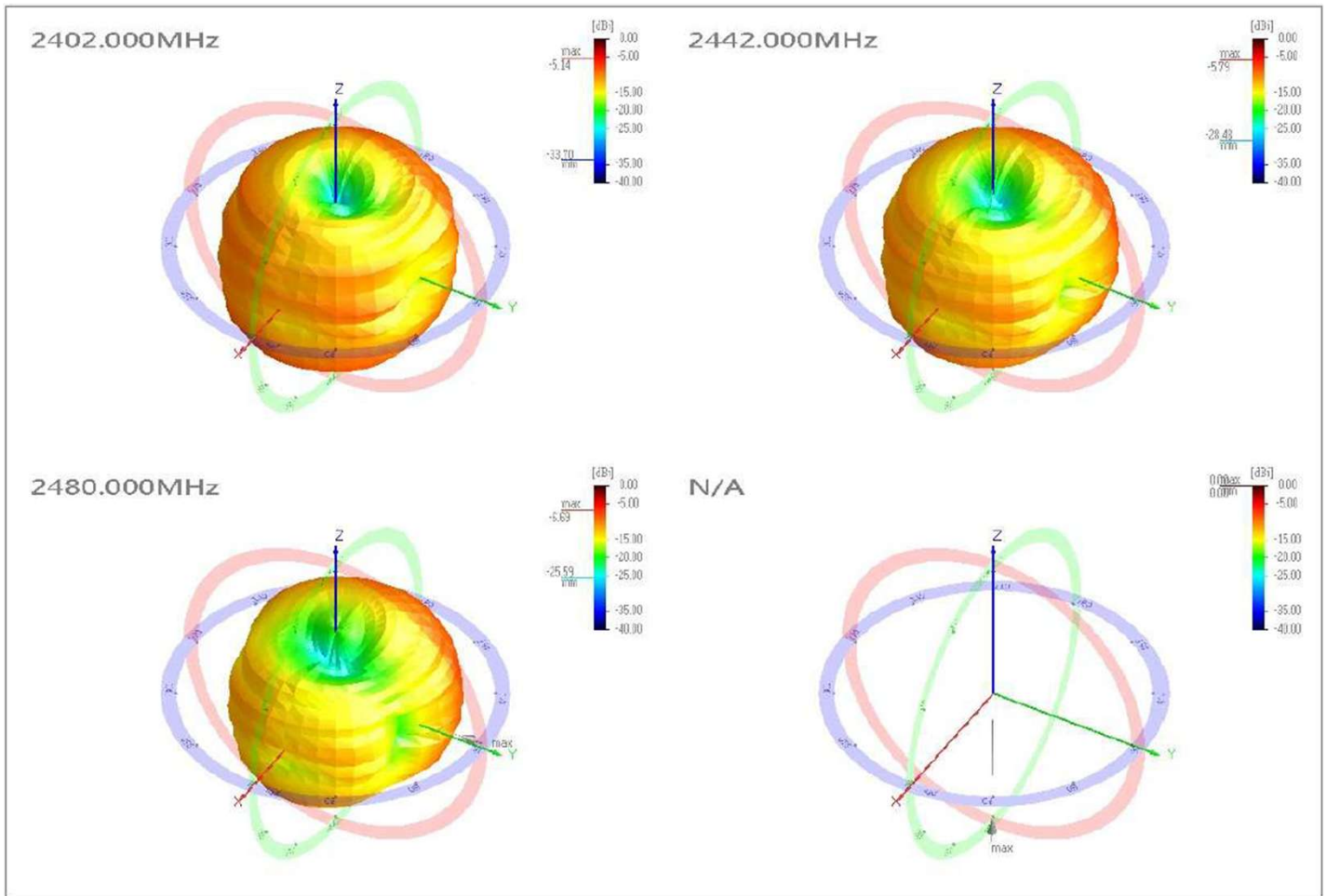
	Pwr Sum					H($\Theta=90$)			
Freq	Eff.[%]	Avg.[dBi]	Peak[dBi]	Θ [deg]	Φ [deg]	Avg.[dBi]	Peak[dBi]	Φ [deg]	BW[deg]
2402.000	9.44	-10.25	-5.14	-135.00	50.00	-10.61	-8.69	130.00	145.51
2442.000	8.64	-10.63	-5.79	-135.99	50.00	-10.66	-7.91	130.00	144.00
2480.000	7.18	-11.44	-6.69	125.00	140.00	-11.19	-7.87	130.00	142.93

	E1($\Phi=0$)				E2($\Phi=90$)			
Freq	Avg.[dBi]	Peak[dBi]	Θ [deg]	BW[deg]	Avg.[dBi]	Peak[dBi]	Θ [deg]	BW[deg]
2402.000	-10.87	-6.29	-145.00	37.35	-12.76	-8.05	-135.00	32.09
2442.000	-11.20	-6.91	-145.00	45.63	-13.51	-8.90	-135.00	31.85
2480.000	-12.14	-8.29	-145.00	115.39	-14.49	-10.26	-135.00	34.61

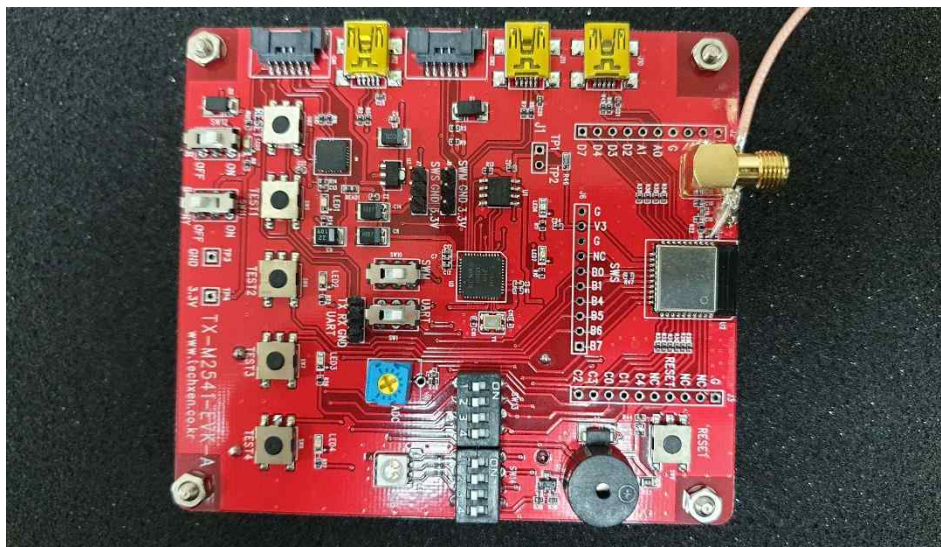
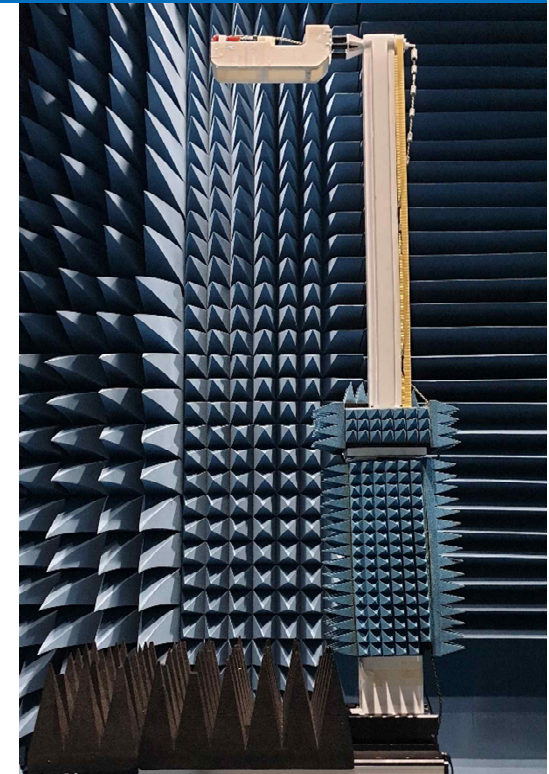
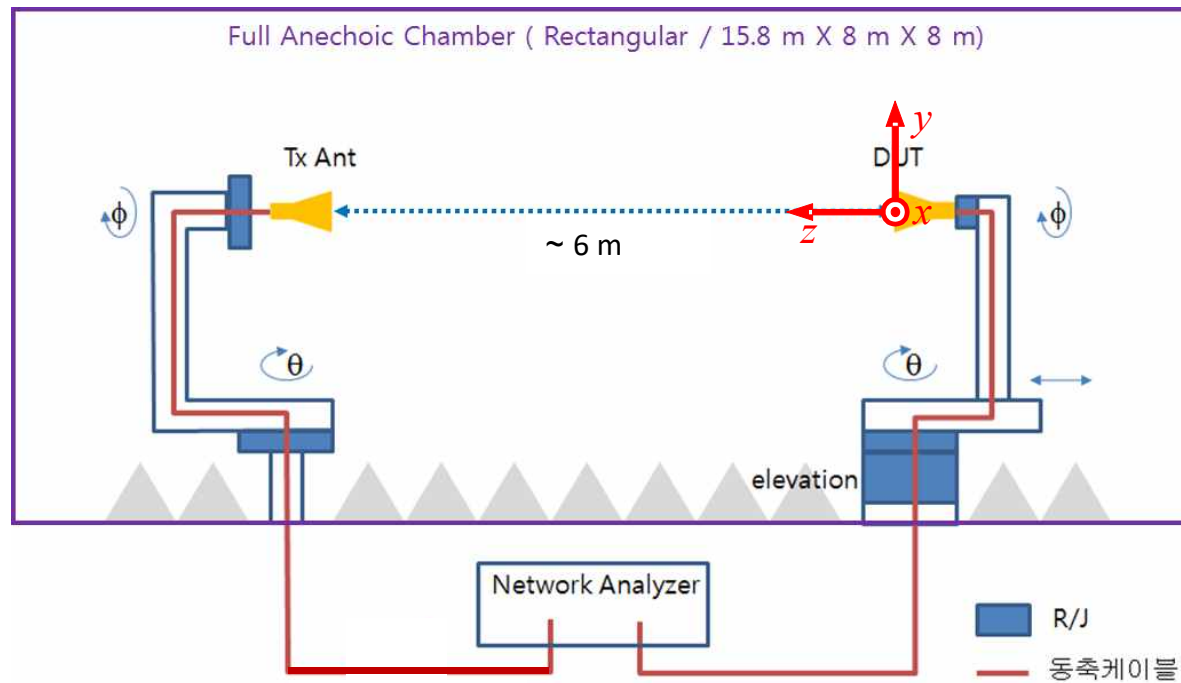
2.2 2D Radiation patterns view



2.3 3D Radiation patterns view



Test information



Orientation

ID=001

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CAM02

