

Antenna Under Test Report

Model:AT2402

Panasonic

1. Antenna Performance specifications : Refer to the separate file

2. Antenna Gain detail:

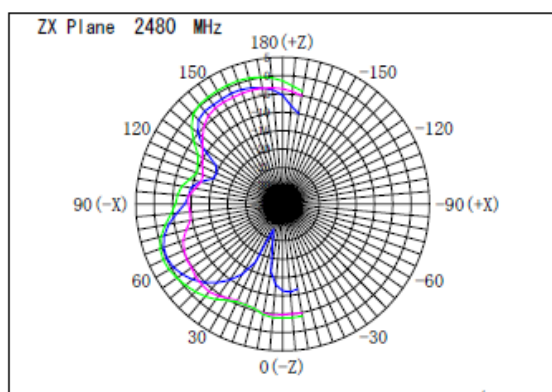
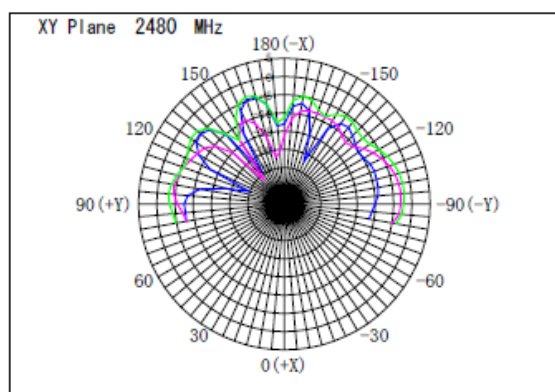
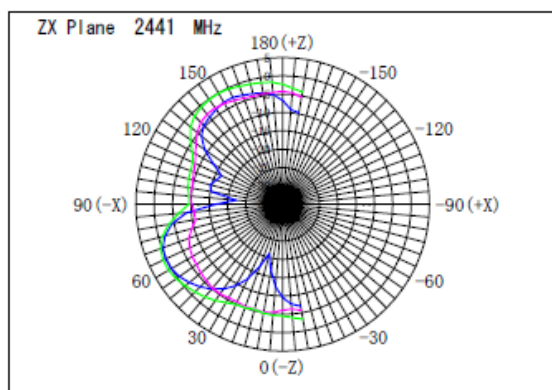
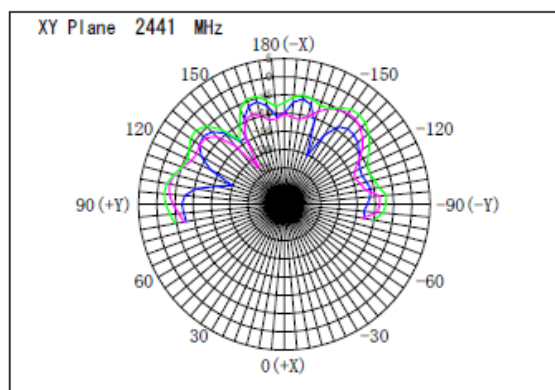
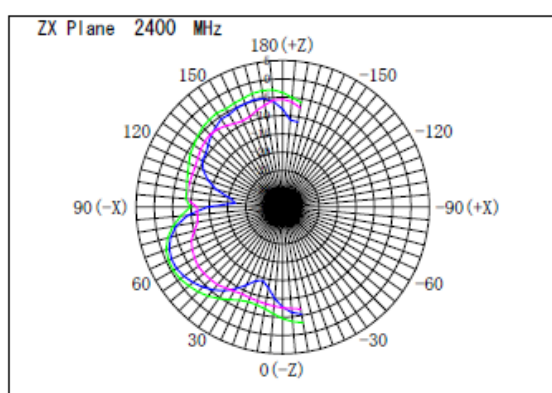
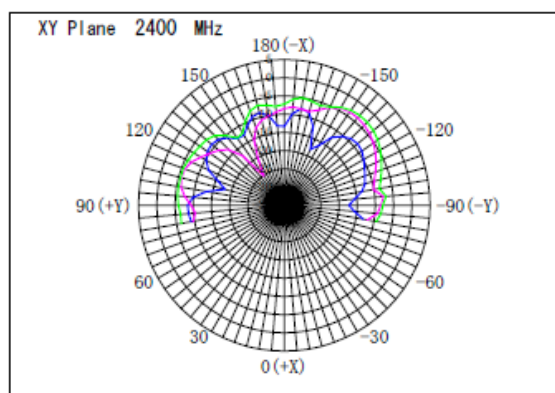
ANT_LEFT GAIN[dBi]	$\pm 100\text{deg}$		360deg	
	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN
2400-2484MHz	-3.52	1.02	-4.08	1.02
5150-5350MHz	-2.24	3.26	-3.52	3.26
5470-5875MHz	-3.30	1.46	-4.31	1.46

ANT_RIGHT GAIN[dBi]	$\pm 100\text{deg}$		360deg	
	Avg. GAIN	Peak GAIN	Avg. GAIN	Peak GAIN
2400-2484MHz	-3.24	1.46	-3.96	1.46
5150-5350MHz	-2.38	2.66	-3.57	2.66
5470-5875MHz	-3.66	0.96	-2.63	0.96

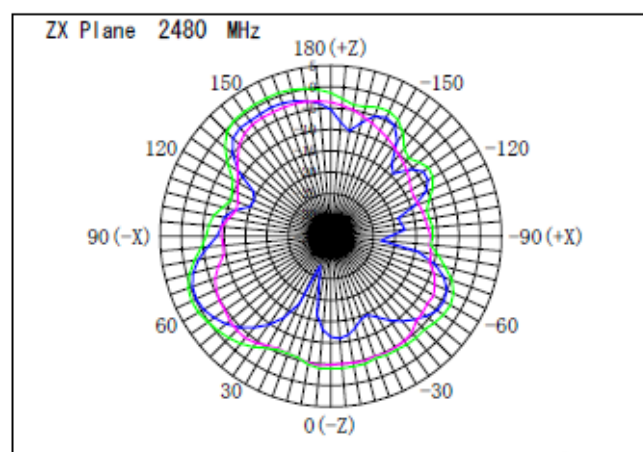
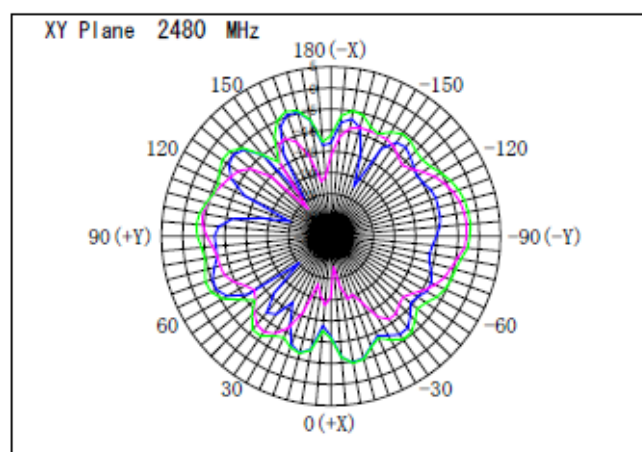
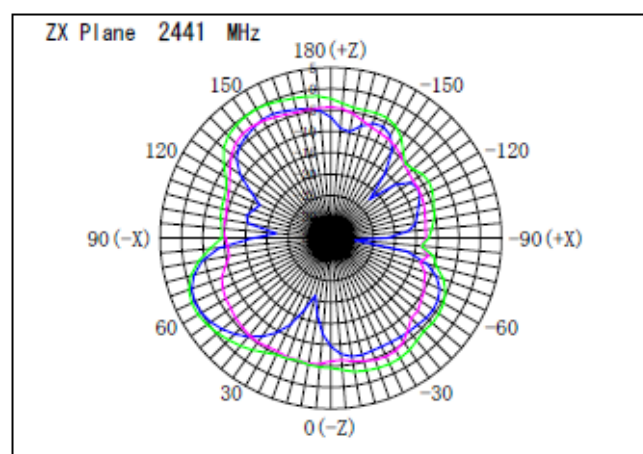
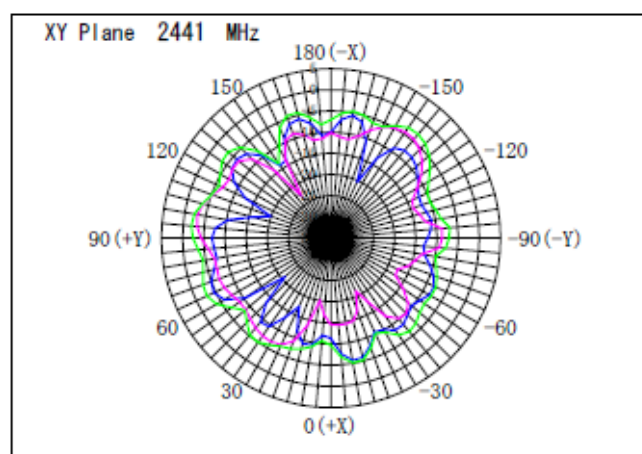
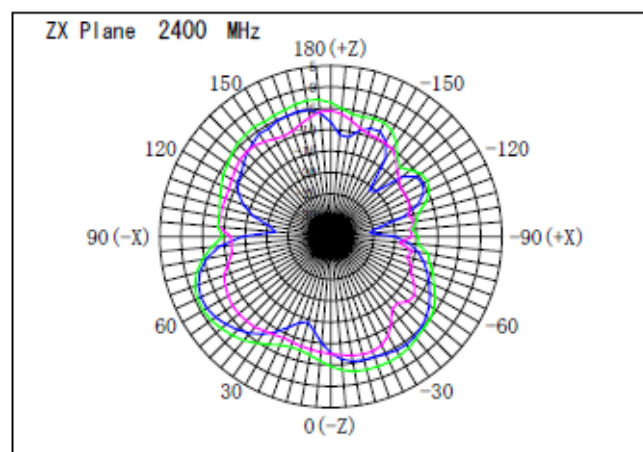
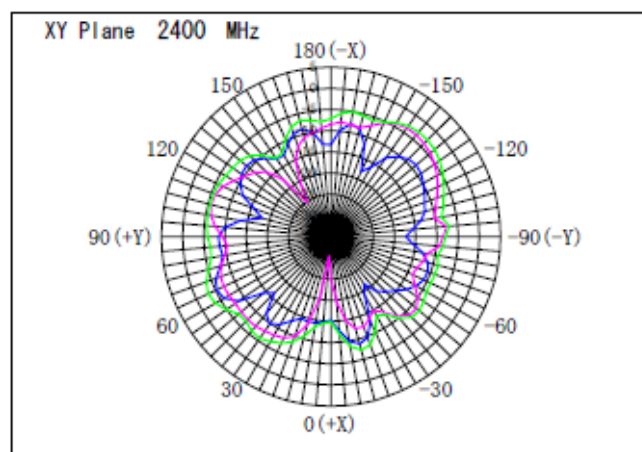
3. Antenna Pattern:

(1) ANT_LEFT

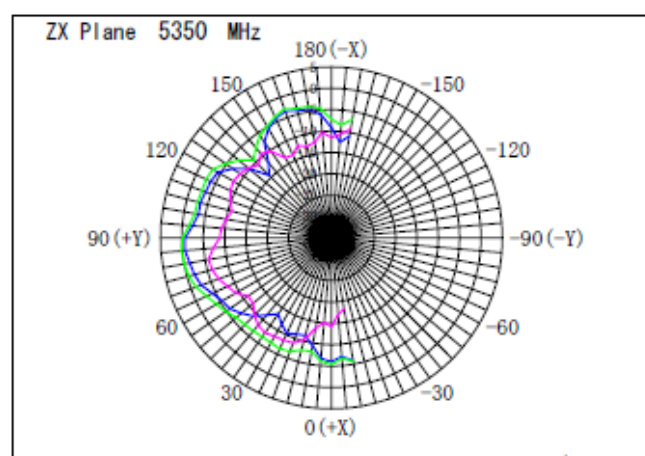
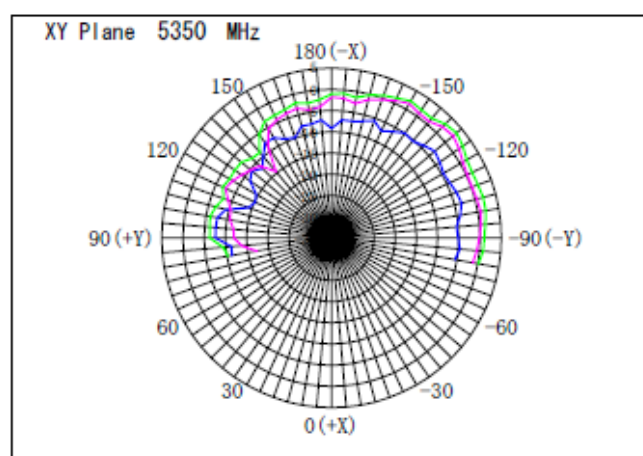
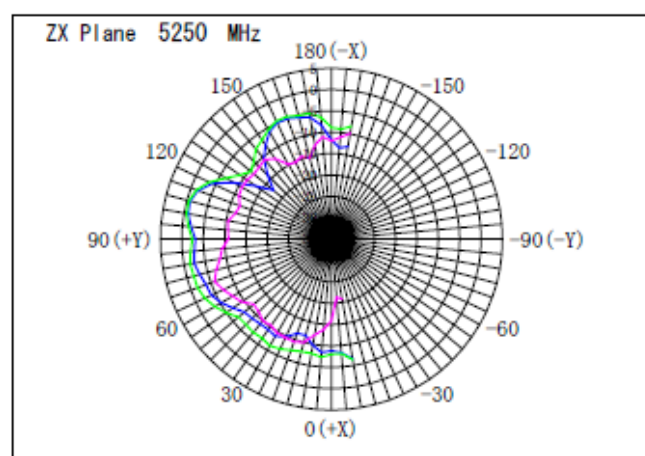
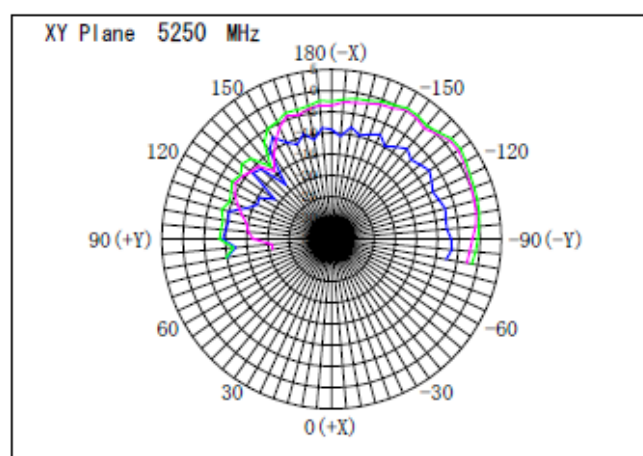
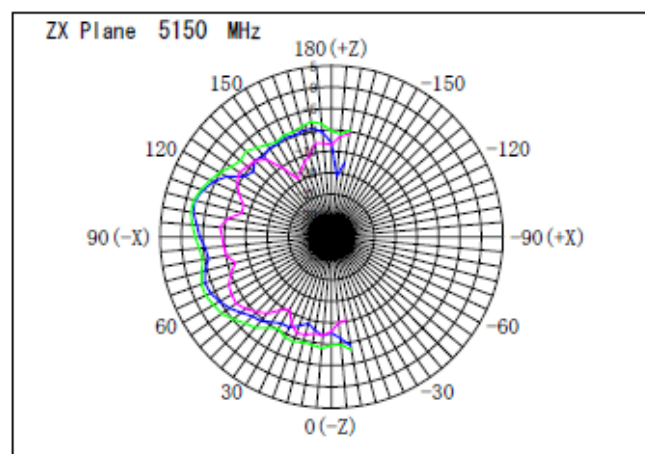
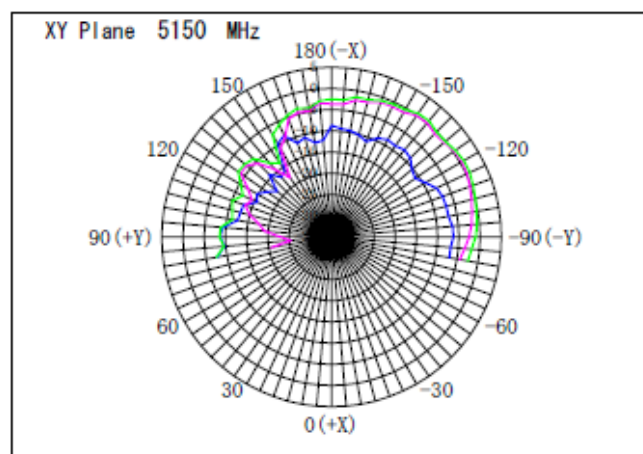
① 2400~2484MHz $\pm 100\text{deg}$



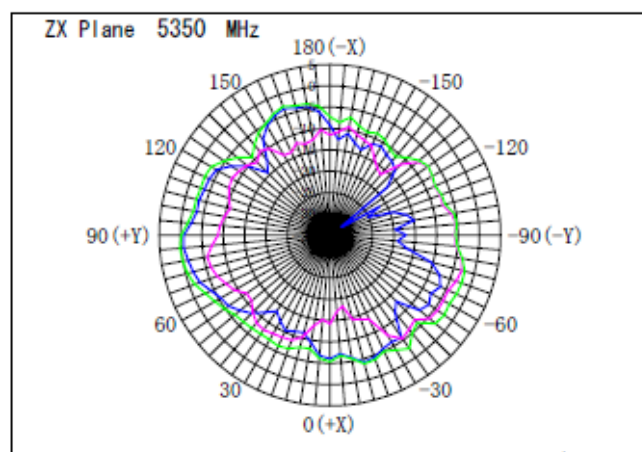
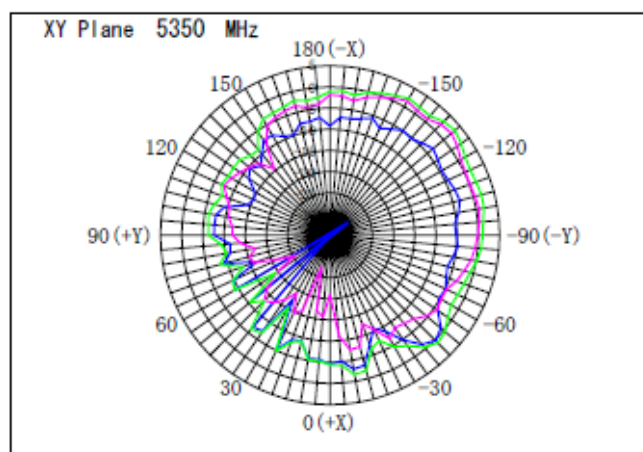
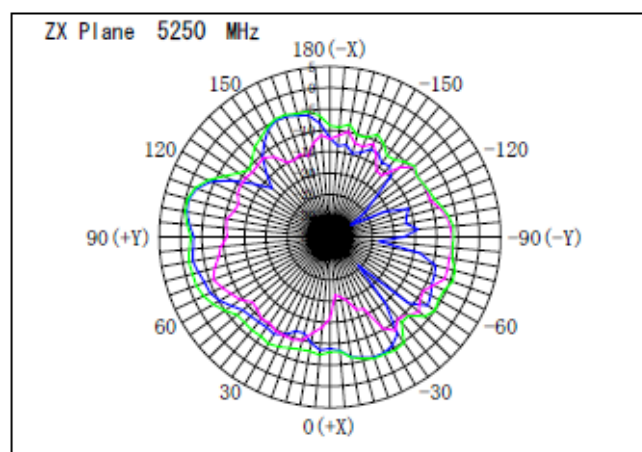
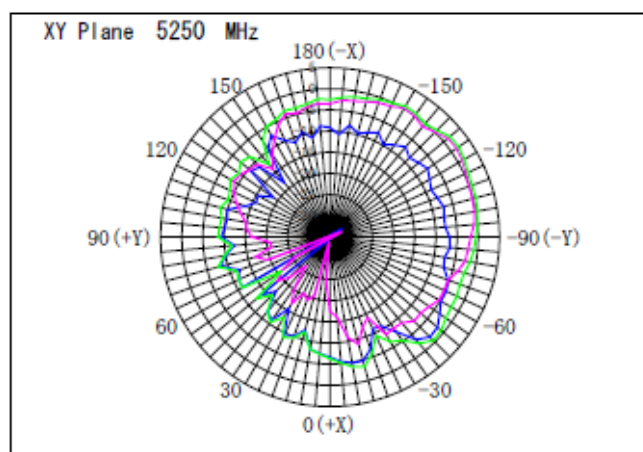
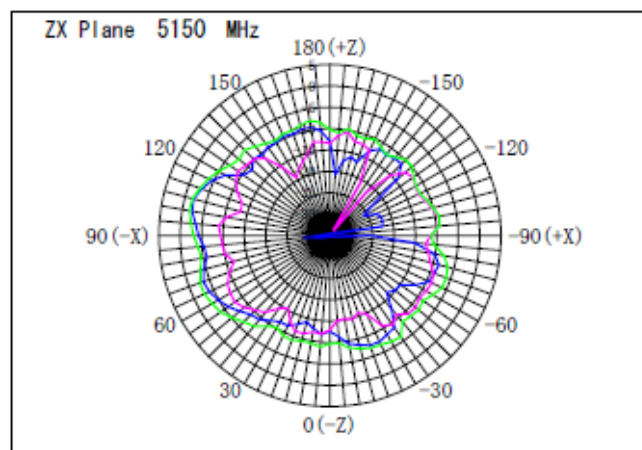
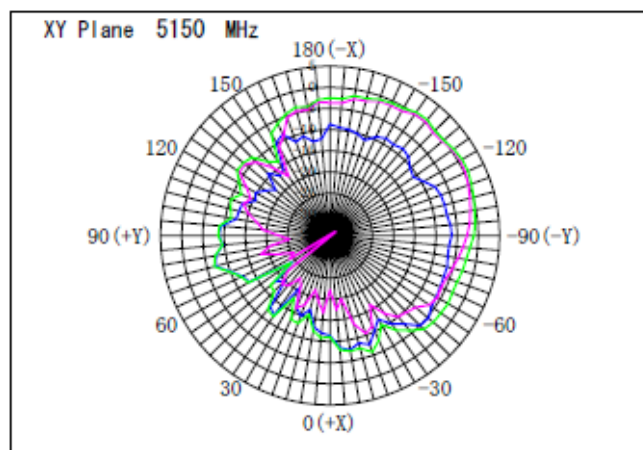
②2400~2484MHz 360deg



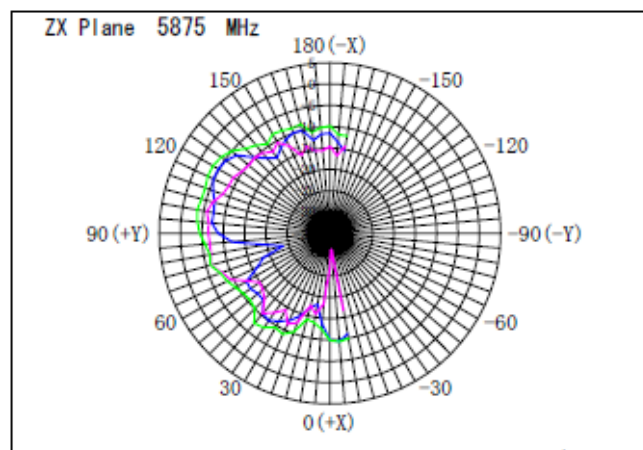
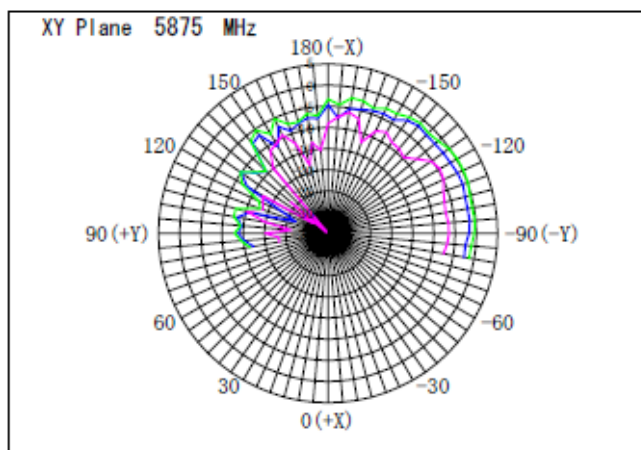
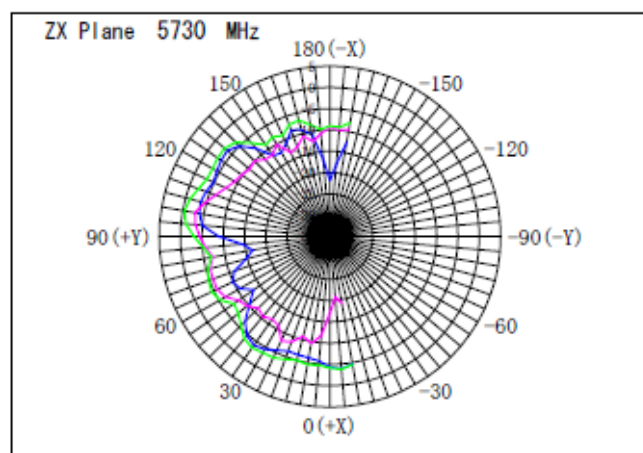
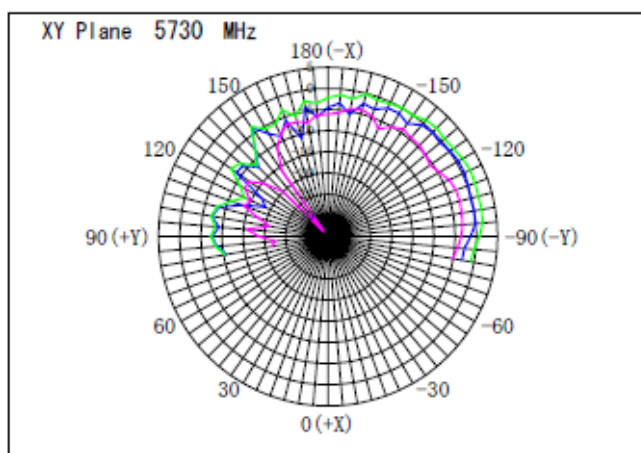
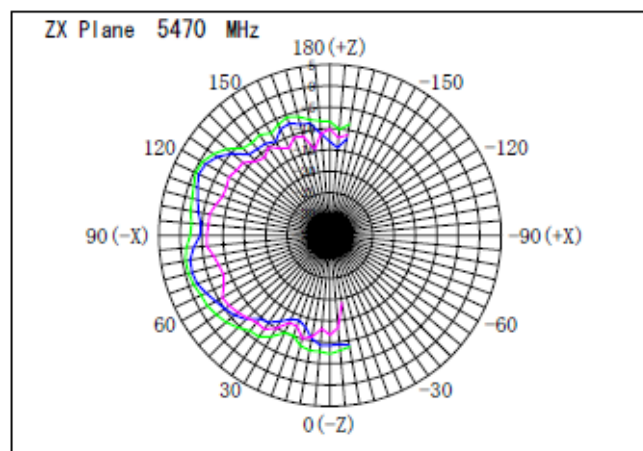
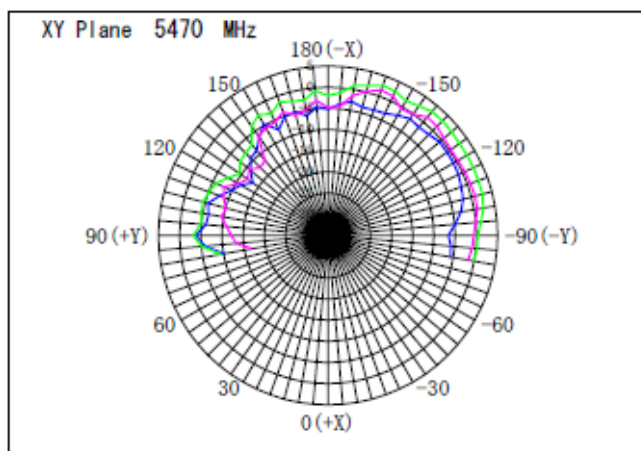
③5150~5350MHz $\pm 100\text{deg}$

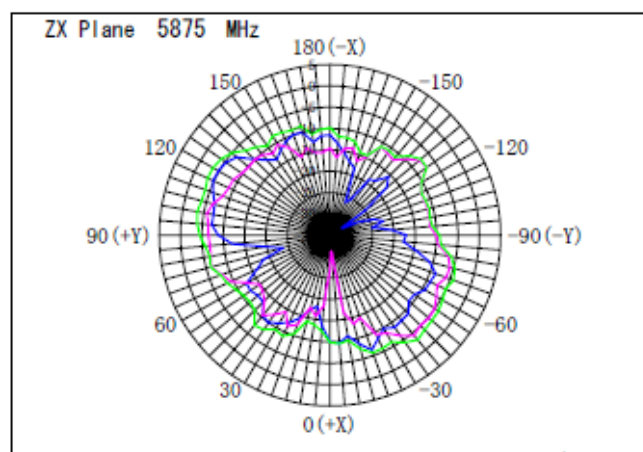
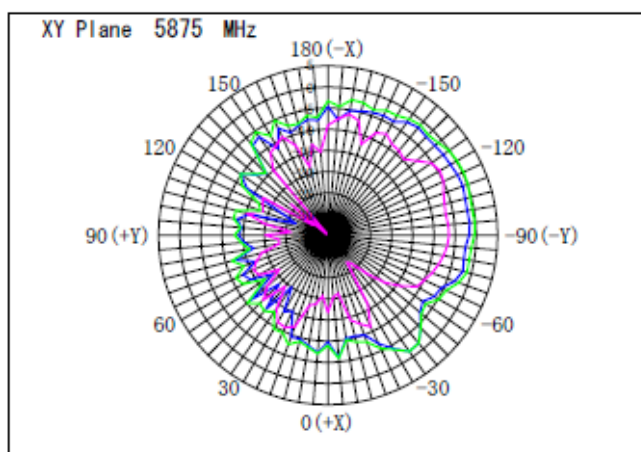
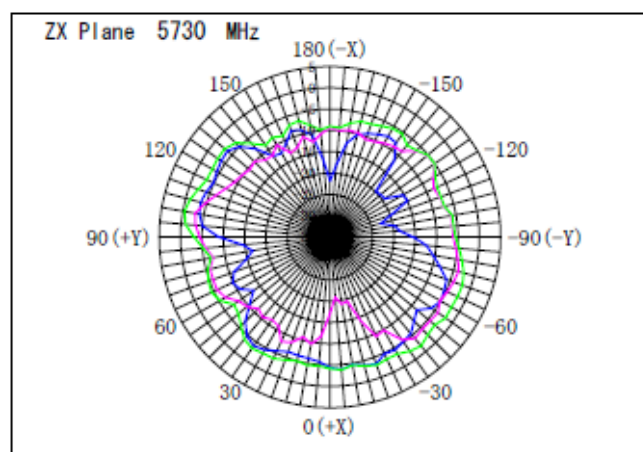
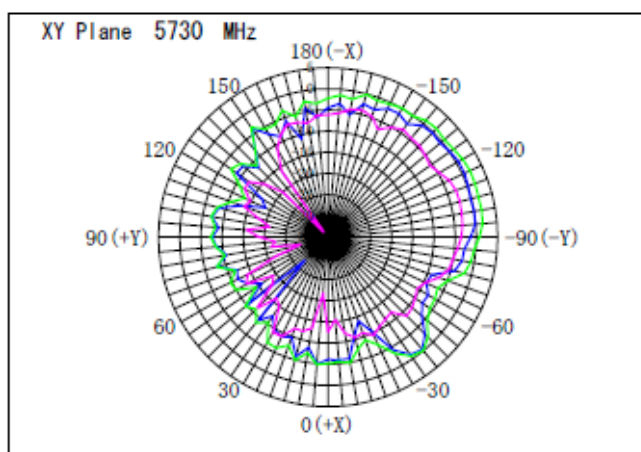
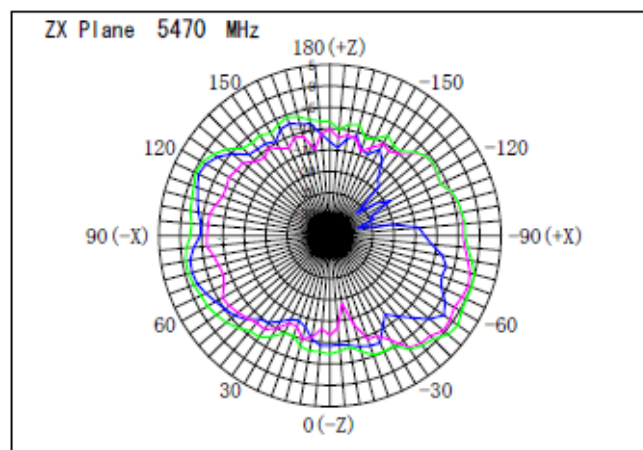
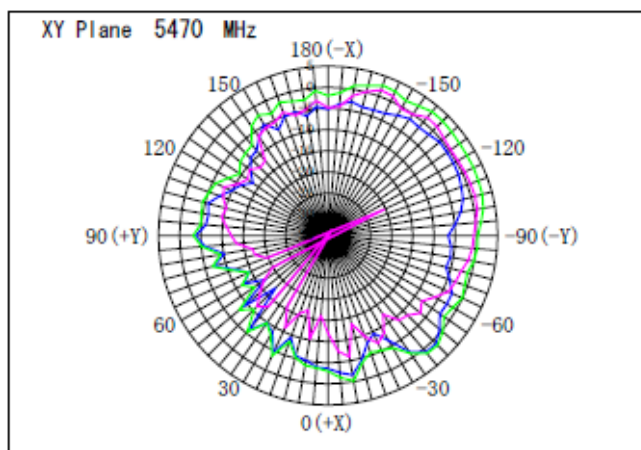


④5150~5350MHz 360deg



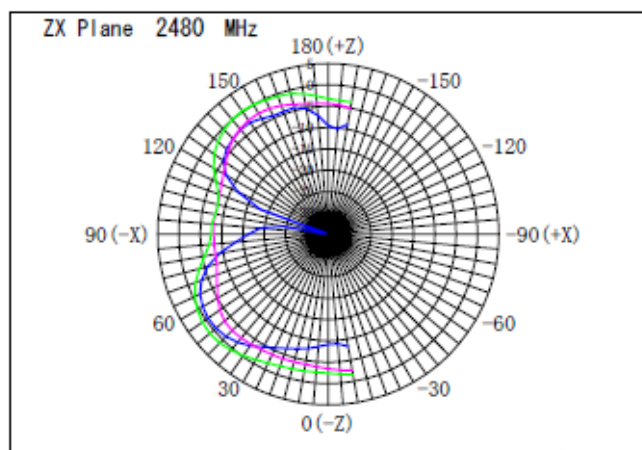
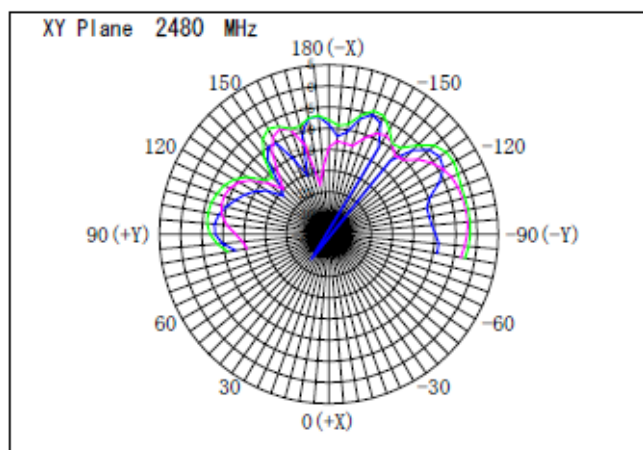
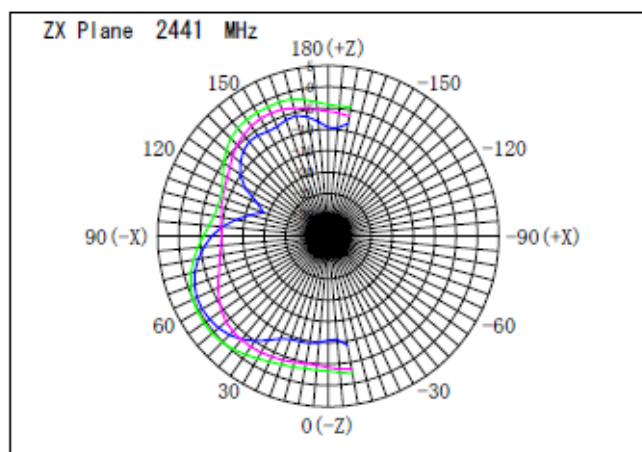
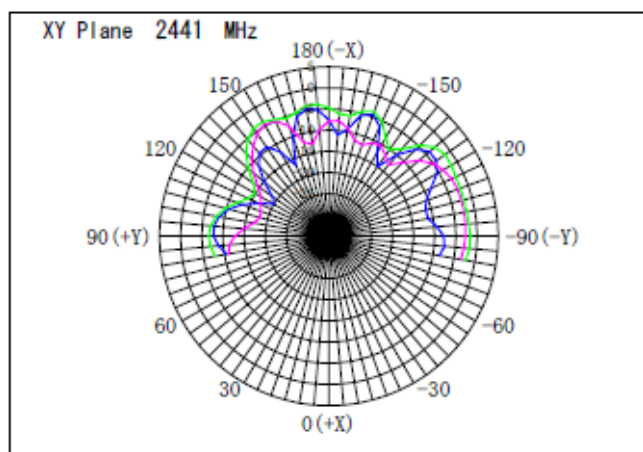
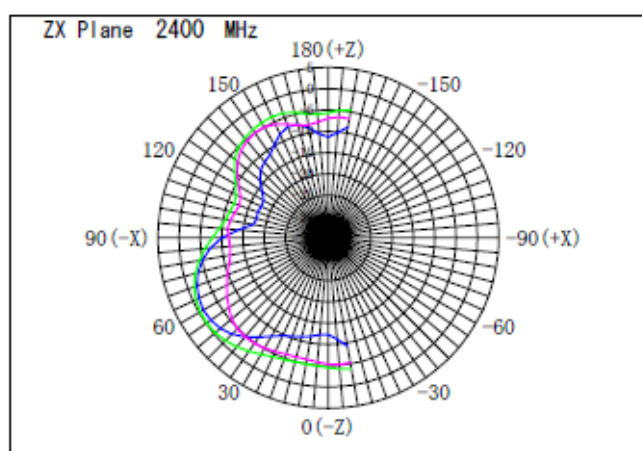
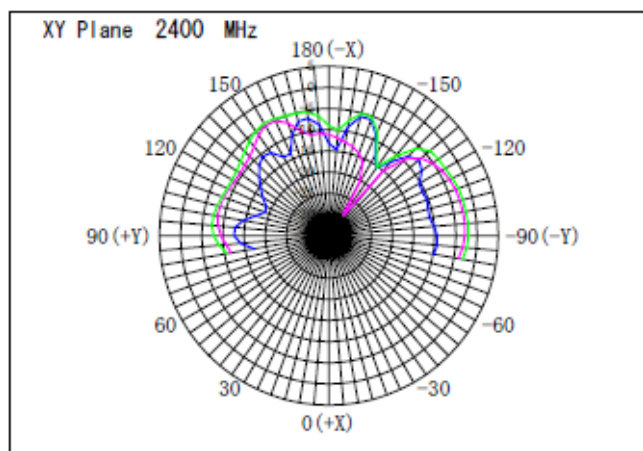
⑤5470~5875MHz $\pm 100\text{deg}$



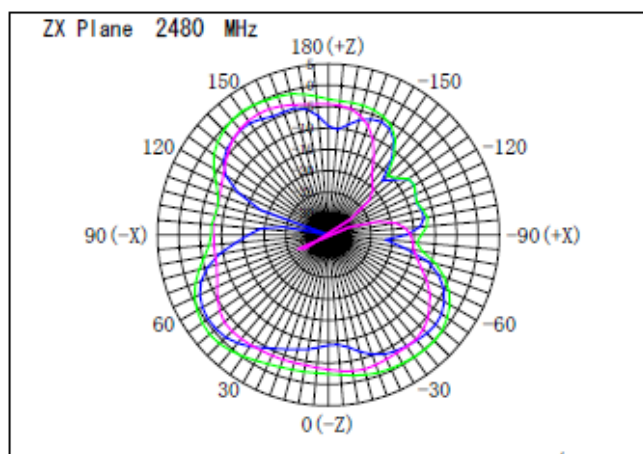
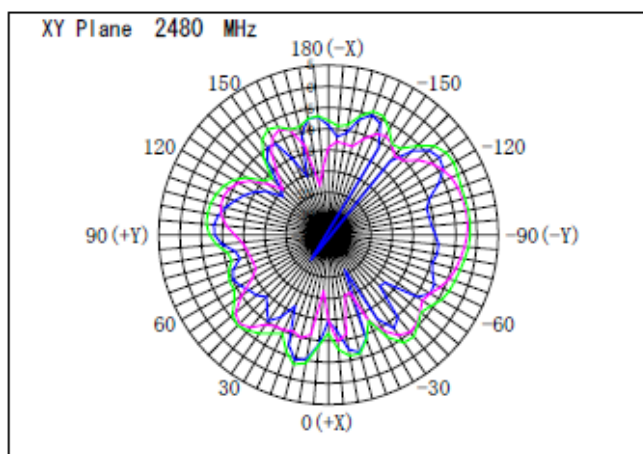
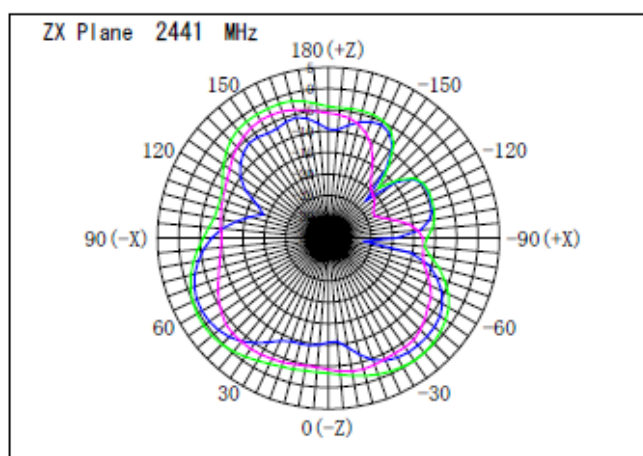
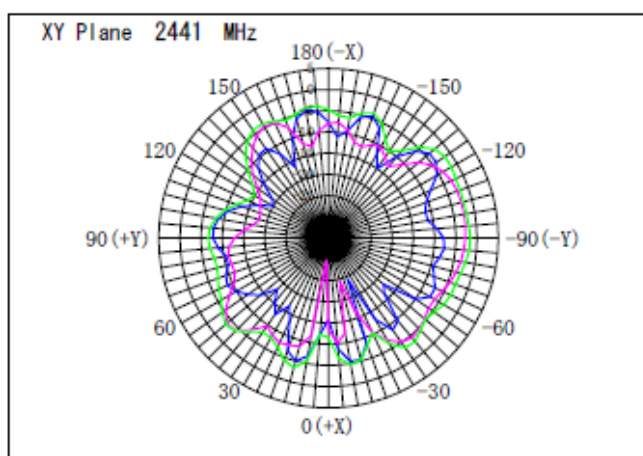
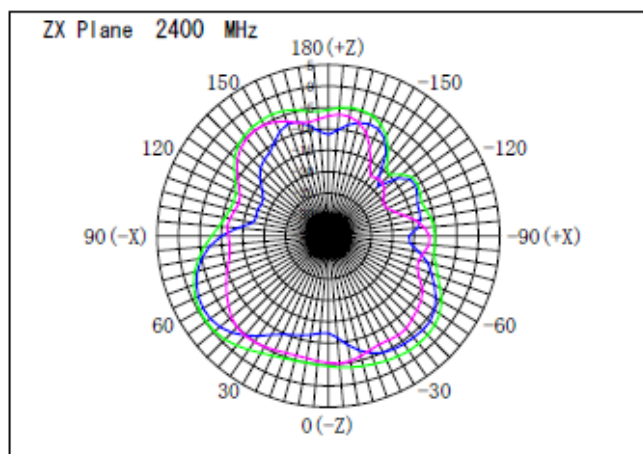
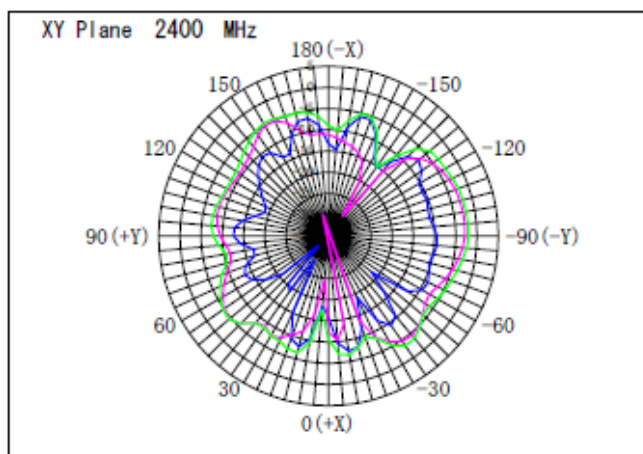


(2) ANT_RIGHT

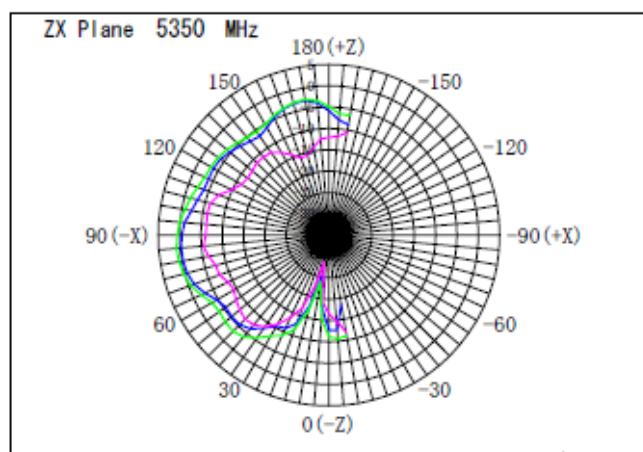
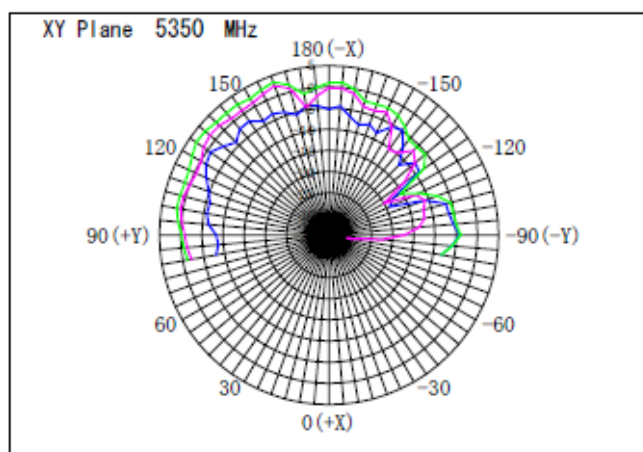
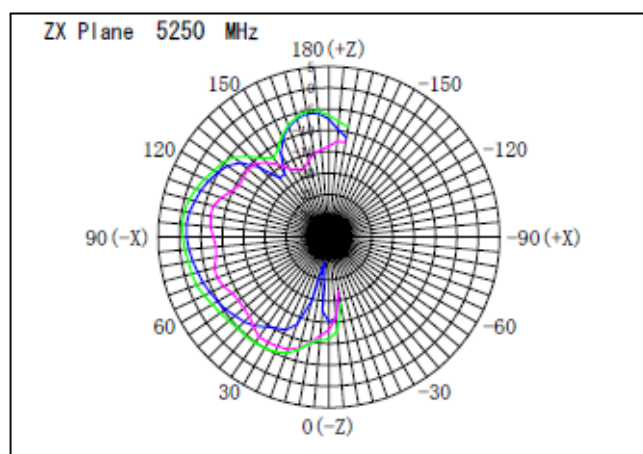
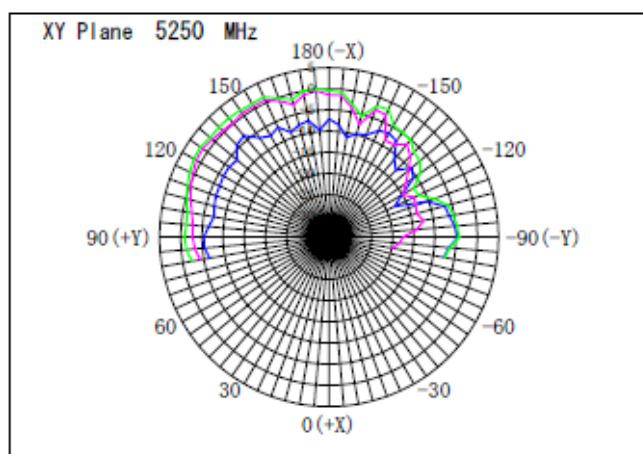
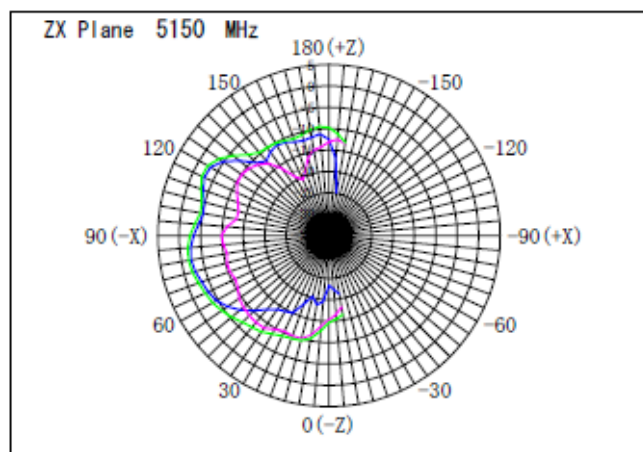
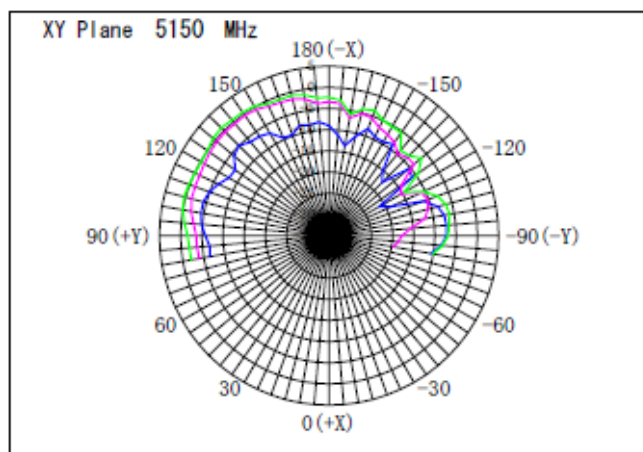
①2400~2484MHz $\pm 100\text{deg}$



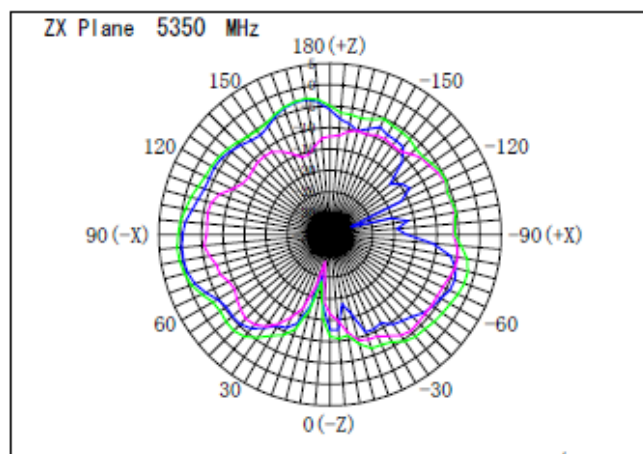
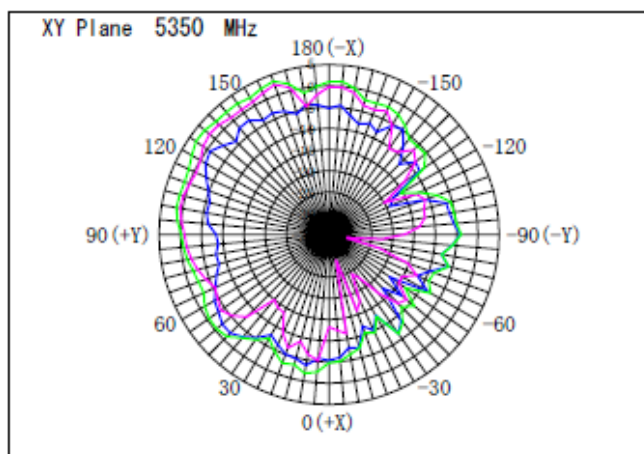
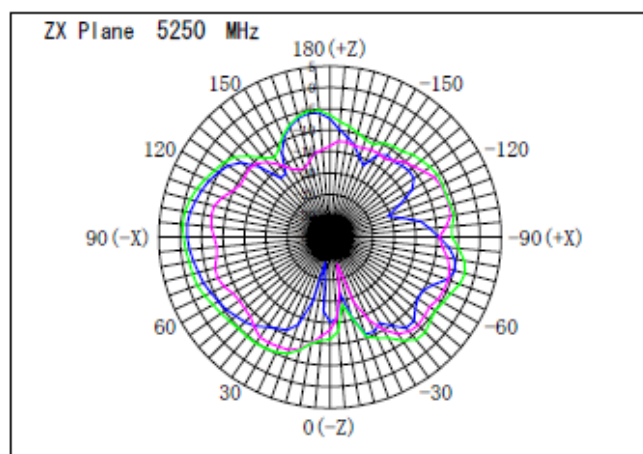
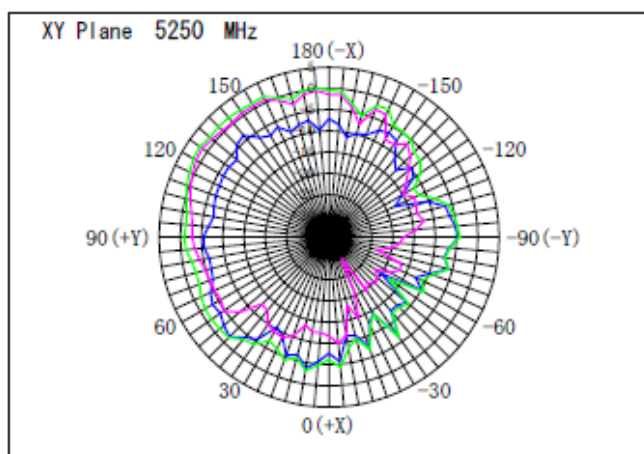
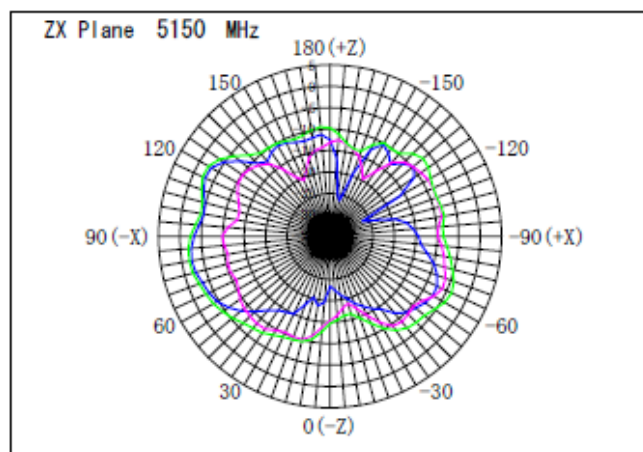
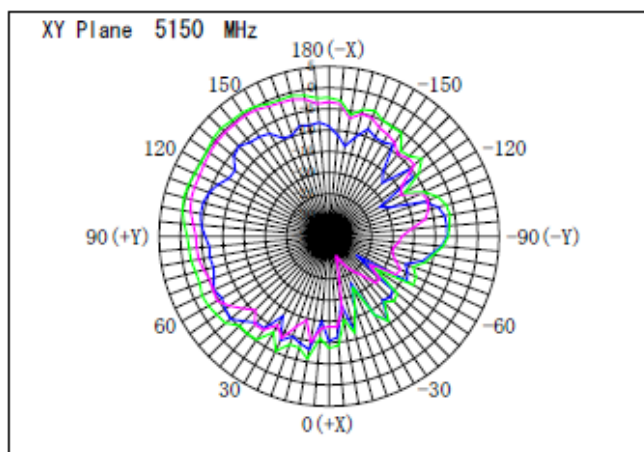
②2400~2484MHz 360deg



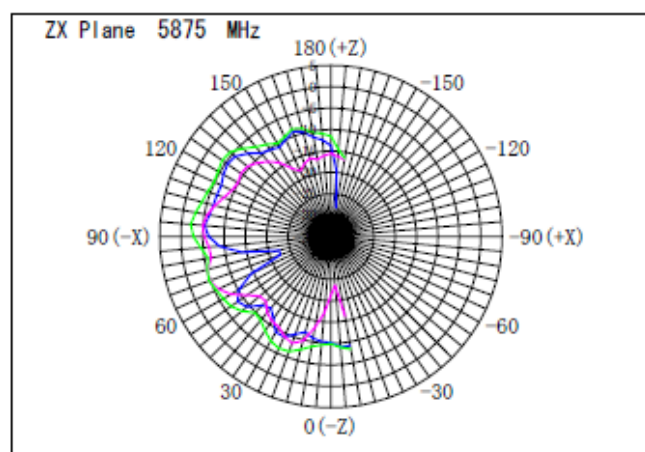
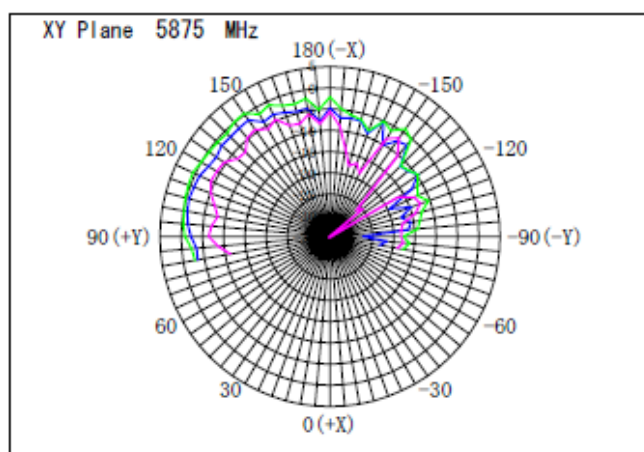
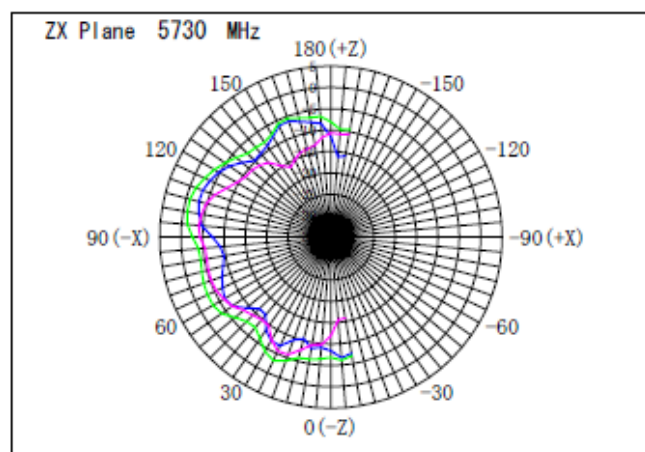
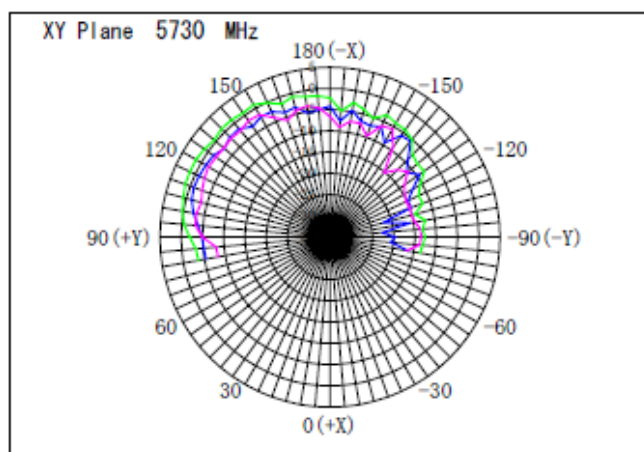
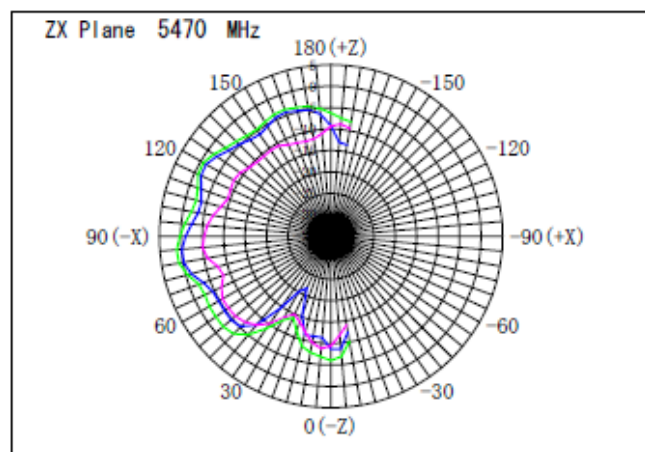
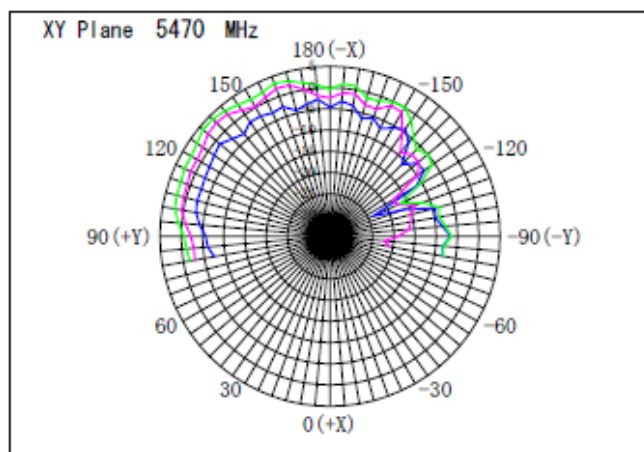
③5150~5350MHz $\pm 100\text{deg}$



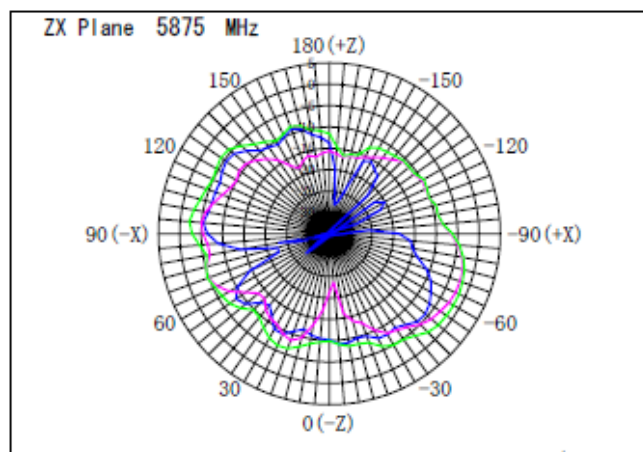
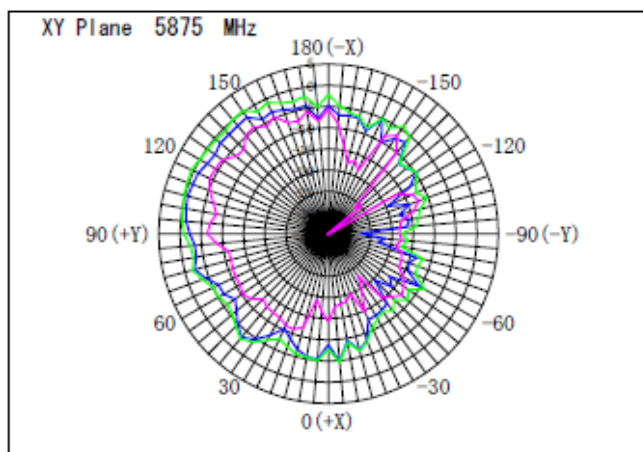
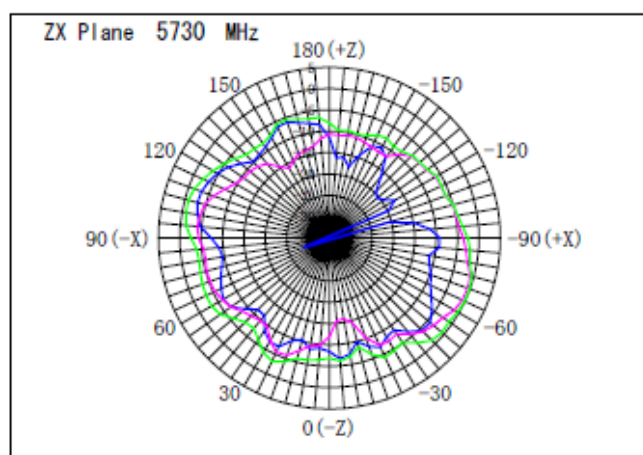
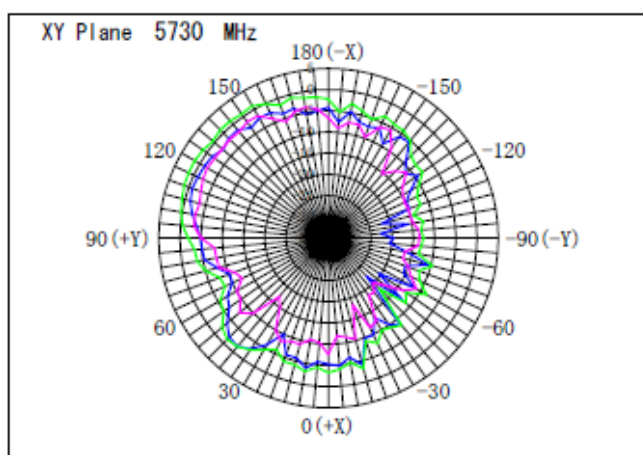
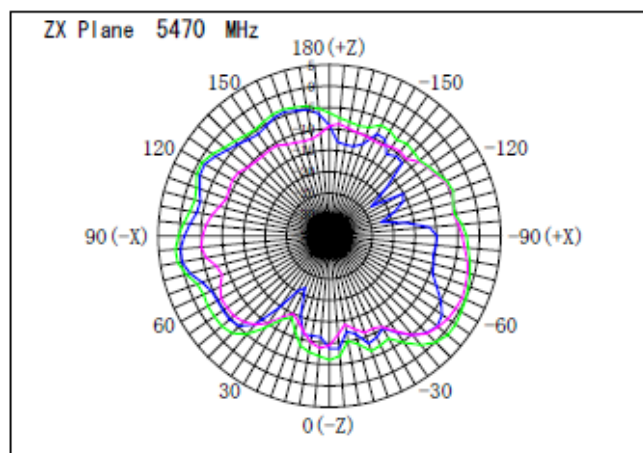
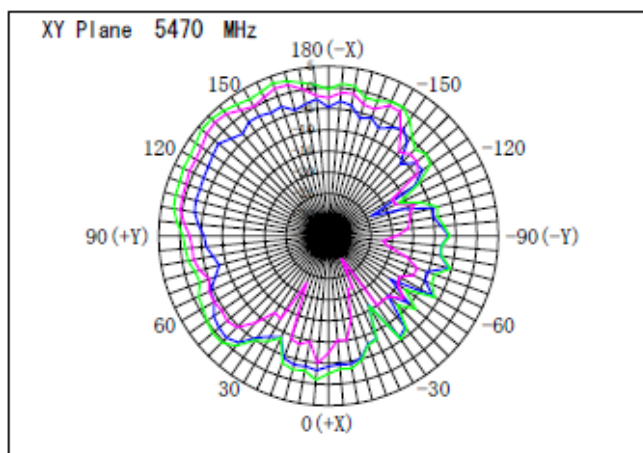
④5150~5350MHz 360deg



⑤5470~5875MHz $\pm 100\text{deg}$



⑥5470~5875MHz 360deg



4. Test Instrument:

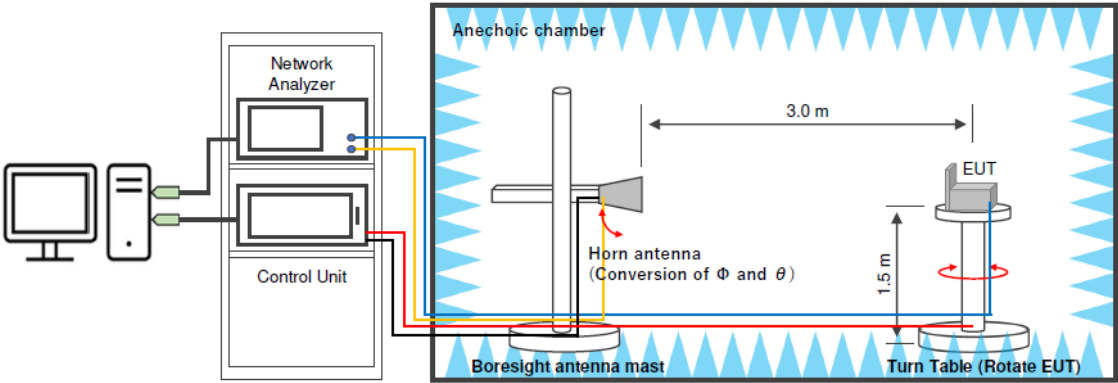
Device	Type/Model	Serial	Manufacturer	Calibration date
Anechoic chamber	-	602477-0	NISSEI ELECTRIC CO., LTD.	December 2,2024
Turn Table	-	602477-0	NISSEI ELECTRIC CO., LTD.	December 2,2024
Control Unit	-	602544-1	NISSEI ELECTRIC CO., LTD.	December 2,2024
Boresight antenna mast	-	602477-0	NISSEI ELECTRIC CO., LTD.	December 2,2024
Horn antenna	3115	9107-3687	ETS-Lindgren	December 2,2024
Horn antenna for Cal.	SH-800	SH800-0126	MVG	July 22,2024
Port Cable 0.1GHz~18.5GHz	MCCA011	-	NISSEI ELECTRIC CO., LTD.	December 2,2024
Ferrite Cable 2.5m - 0.1GHz~18.5GHz	X10511A	-	NISSEI ELECTRIC CO., LTD.	December 2,2024
Network Analyzer	P5023B	MY61100018	Keysight	August 3,2024

5. Test date: August 25,2023

6. Test Person: Emi Yoshioka

7. Software for tests :Ansoft HFSS(For electromagnetic field simulation)

8. Measurement method: Refer to the diagram below



9. Photographs of Test Setup

Please refer to the separate file for Photographs.