

Antenna Test Report

Date: Jun.03.2024
rev.01

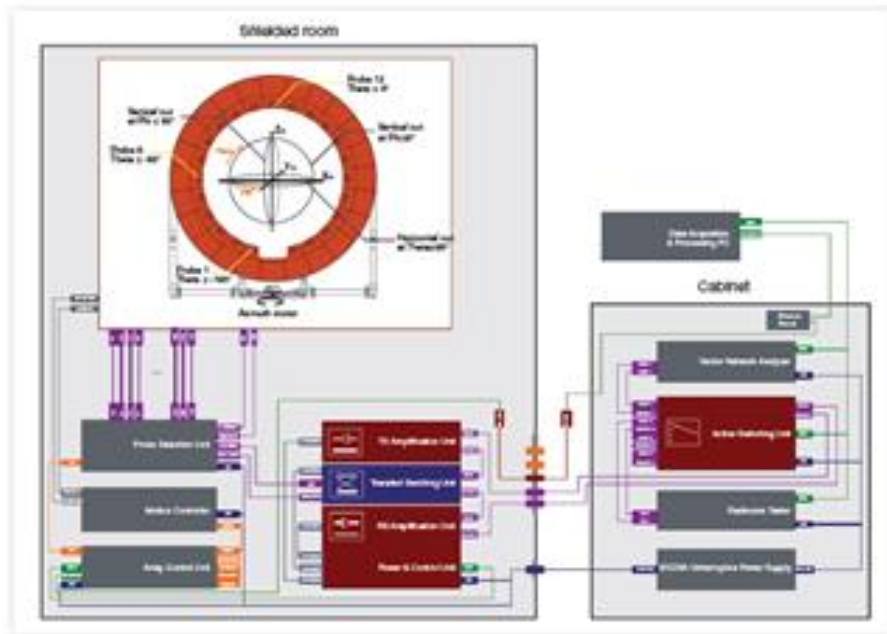
Address: 20 Park Avenue II (or Yuanchiu 2nd Rd.), Hsinchu Science Park, Hsinchu 300, Taiwan

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Chamber Info.

- Antenna Vendor : WNC
- Test Date : 20240530
- Test Engineer : Joe
- Measurement System : SATIMO SG24
- Software Name : Wave Studio
- Software Version : 22.5.6



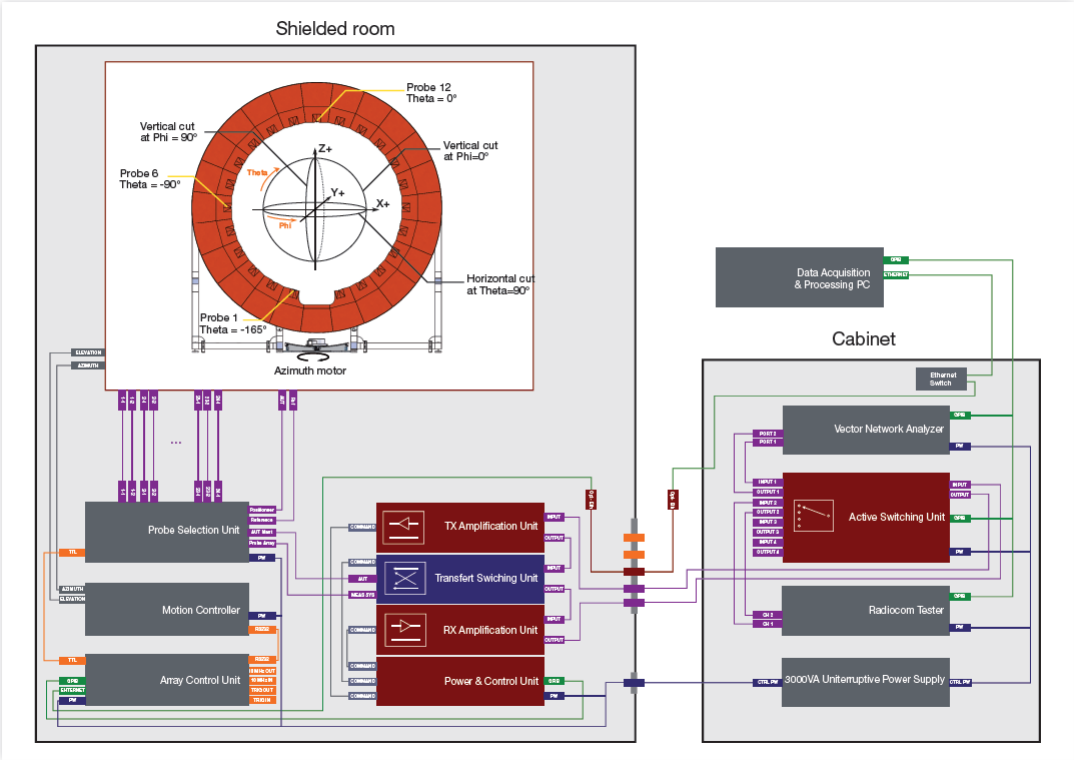
Chamber Info.

- Measurement System: SATIMO SG24 Chamber

Measurement setup:

- pattern & gain measurement
 - 1.satimo chamber (SG24)
 - 2.satimo program (wave studio)
 - 3.system overview :
- test item
 - 1.antenna passive test 400MHz~9GHz

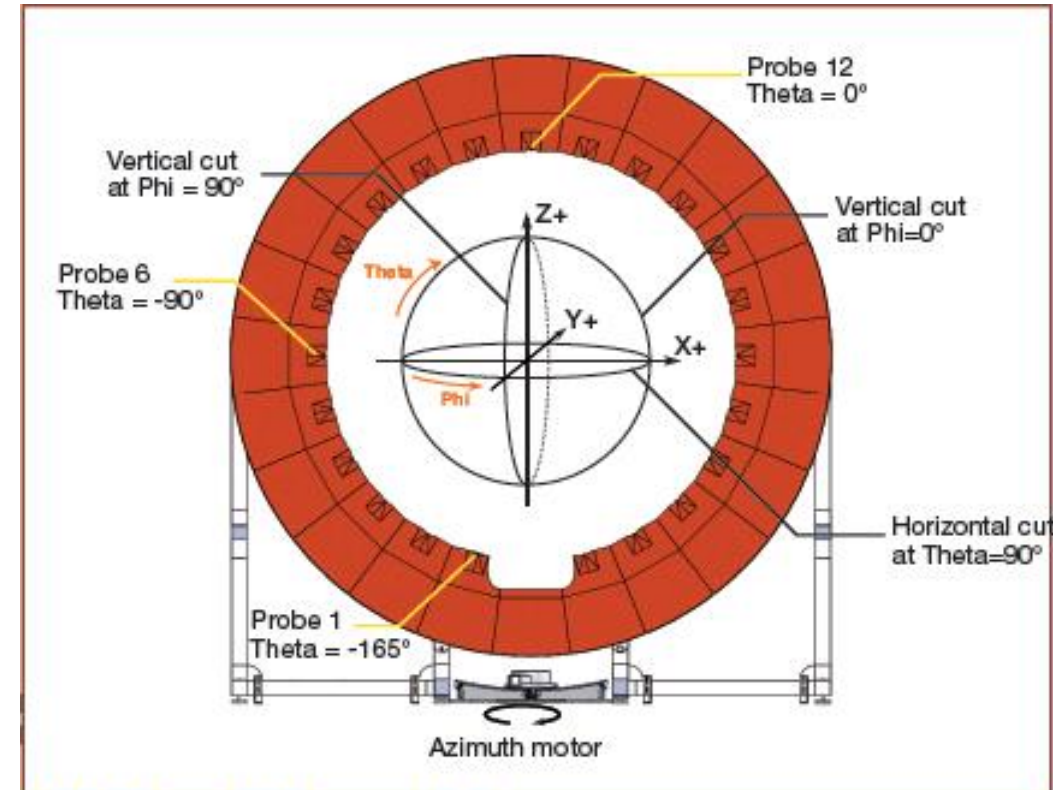
- Calibration Information



Device	Type / Model	Serial #	Manufacture	Cal. Date	Cal. Until
Antenna Measurement System	SG24-L	HKG1669S	MVG-SATIMO	2023-06-03	2024-06-03
Network Analyzer	Keysight E5080B	MY59203136	Keysight	2023-06-03	2024-06-03

Chamber Info.

1. Place the device to be tested on the fixture and align it with the center of the chamber.
2. Connect the antenna cable to the RF connector of the chamber.
3. Use the SW to configure parameters (antenna name, frequency points, measurement angles, antenna dimension), and then run the test SW (wave studio).
4. By phi from 0° to 360° and theta from 0° to 180° with a step size of 2 degrees, get the 3D data, including efficiency, peak gain, 2D and 3D radiation patterns.
5. This is far field test for antenna verification.
6. This is passive measurement, which means the device is off and not in any operating mode.



Name and address of the antenna manufacture



NEWEB VIETNAM CO., LTD.

- *Land Lot CN01, Dong Van III Industrial Zone, Dong Van Ward, Duy Tien Town, Ha Nam Province, Vietnam*
- [+84-226-358-8899](tel:+84-226-358-8899)
- [+84-226-358-7799](tel:+84-226-358-7799)

Antenna Specification

Test date: 2024/05/30
Test personnel : Joe Huang

90XYBH15.GAN	
Frequency	2400~2500MHz, 5150~5895MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	1.61dBi@2400~2500MHz 3.72dBi@5150~5895MHz

90XYBH15.GAO	
Frequency	2400~2500MHz, 5150~5895MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	1.70dBi@2400~2500MHz 3.07dBi@5150~5895MHz

90XYBH15.GAP	
Frequency	5150~5895MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	3.76dBi@5150~5895MHz

90XYBH15.GAQ	
Frequency	5150~5895MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	2.76dBi@5150~5895MHz

90XYBH15.GAR	
Frequency	5925~7125MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	2.62dBi@5925~7125MHz

90XYBH15.GAS	
Frequency	5925~7125MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	3.78dBi@5925~7125MHz

90XYBH15.GAT	
Frequency	5925~7125MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	2.46dBi@5925~7125MHz

90XYBH15.GAU	
Frequency	5925~7125MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	2.66dBi@5925~7125MHz

Peak Gain

Test date: 2024/05/30
Test personnel : Joe Huang

Dual Band	Freq. (MHz)	2400	2450	2500	5150	5350	5550	5750	5850	5895
90XYBH15.GAN	Peak Gain(dBi)	1.38	1.61	1.52	3.08	3.38	3.25	3.72	3.68	3.46
90XYBH15.GAO	Peak Gain(dBi)	1.37	1.63	1.70	2.53	2.85	2.95	3.07	2.79	2.65

5G	Freq. (MHz)	5150	5350	5550	5750	5850	5895
90XYBH15.GAP	Peak Gain(dBi)	2.67	3.67	3.76	3.47	3.35	3.23
90XYBH15.GAQ	Peak Gain(dBi)	1.62	2.21	2.70	2.76	2.56	2.37

6G	Freq. (MHz)	5925	6105	6250	6400	6550	6700	6850	7000	7125
90XYBH15.GAR	Peak Gain(dBi)	1.94	2.24	2.35	2.62	2.35	2.20	2.02	2.35	2.46
90XYBH15.GAS	Peak Gain(dBi)	2.82	2.63	2.54	2.36	2.23	2.33	2.88	3.28	3.78
90XYBH15.GAT	Peak Gain(dBi)	1.58	1.72	1.58	1.45	1.55	1.92	2.01	2.46	2.39
90XYBH15.GAU	Peak Gain(dBi)	2.32	2.66	2.41	2.04	1.78	2.05	1.90	2.27	2.38

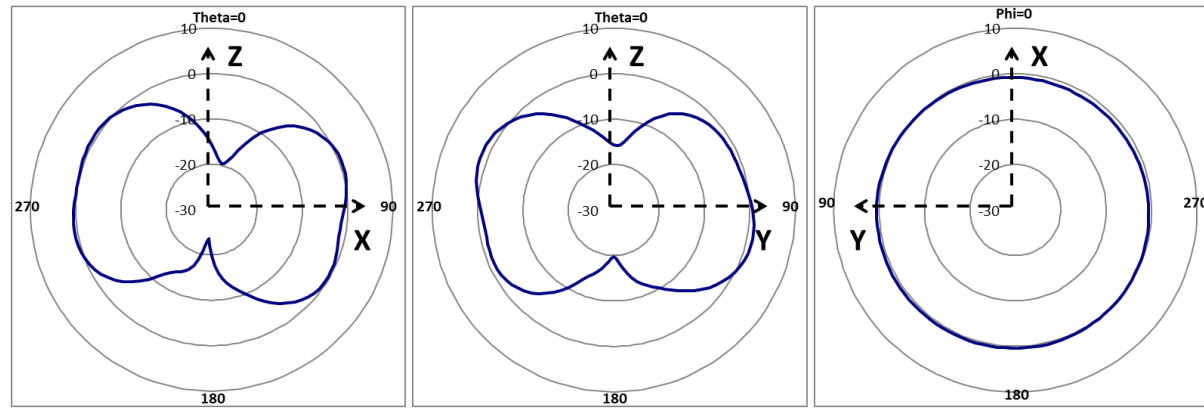
Radiation Pattern for Dual Band

Test date: 2024/05/30
Test personnel : Joe Huang

90XYBH15.GAN

Dual Band 2G
Radiation Pattern

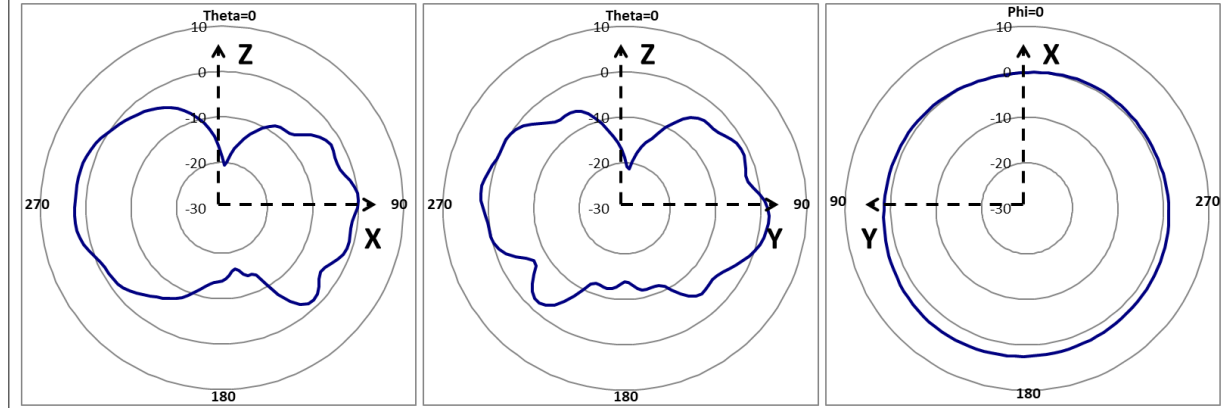
90XYBH15.GAN



90XYBH15.GAN

Dual Band 5G
Radiation Pattern

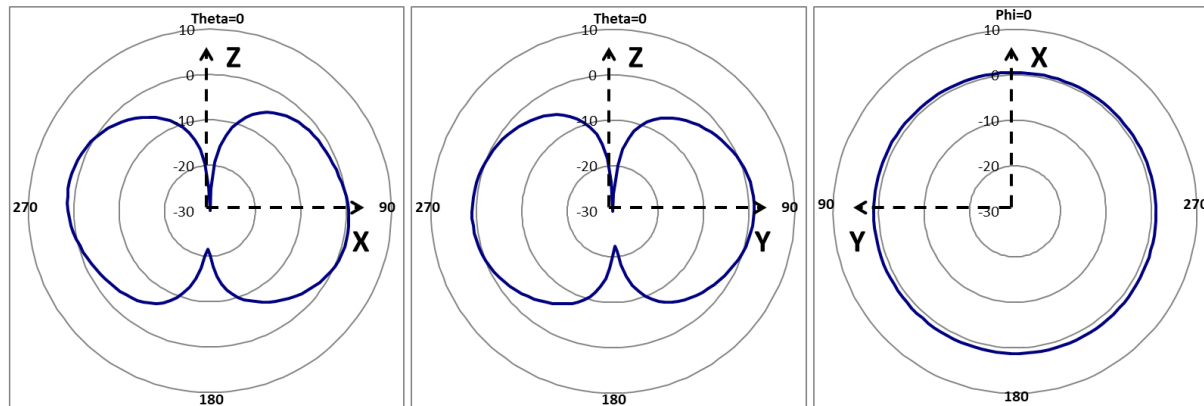
90XYBH15.GAN



90XYBH15.GAO

Dual Band 2G
Radiation Pattern

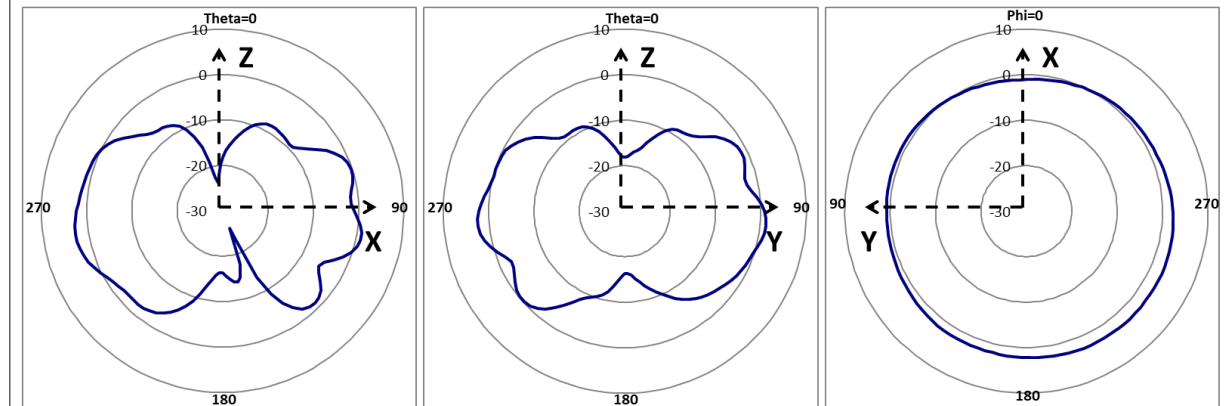
90XYBH15.GAO



90XYBH15.GAO

Dual Band 5G
Radiation Pattern

90XYBH15.GAO



Radiation Pattern for 5GF

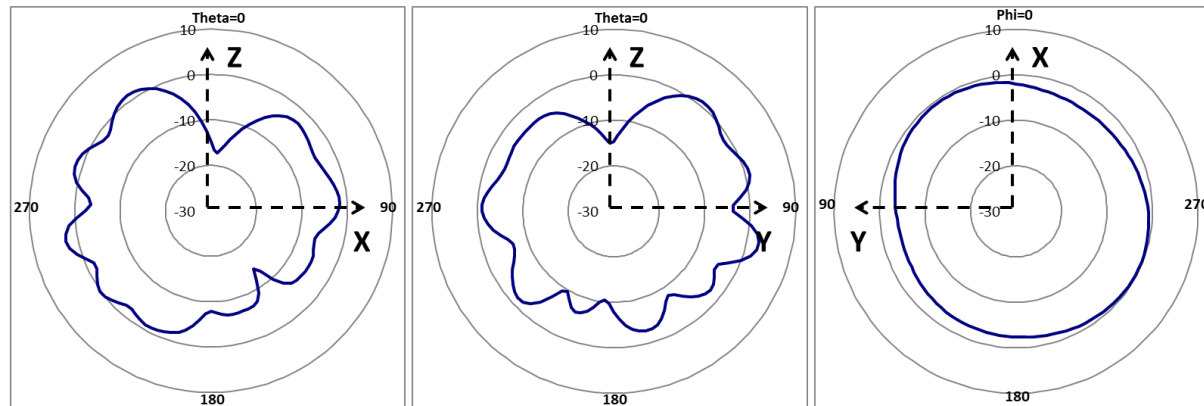
Test date: 2024/05/30
Test personnel : Joe Huang

90XYBH15.GAP

5GF

Radiation Pattern

— 90XYBH15.GAP

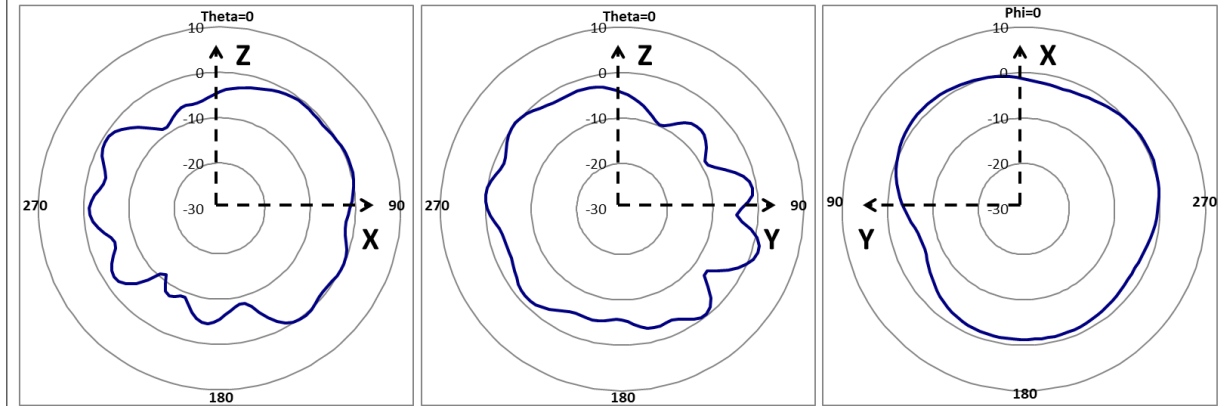


90XYBH15.GAQ

5GF

Radiation Pattern

— 90XYBH15.GAQ



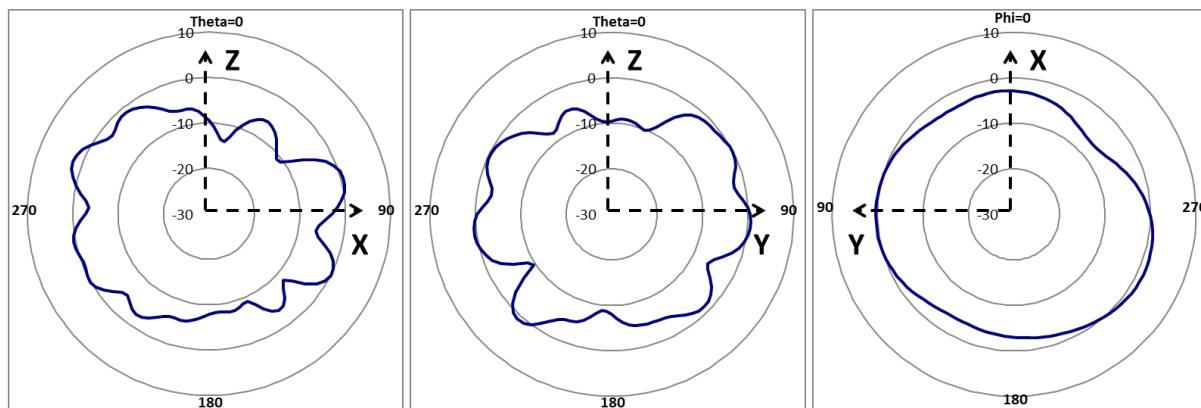
Radiation Pattern for 6GF

Test date: 2024/05/30
Test personnel : Joe Huang

90XYBH15.GAR

6GF
Radiation Pattern

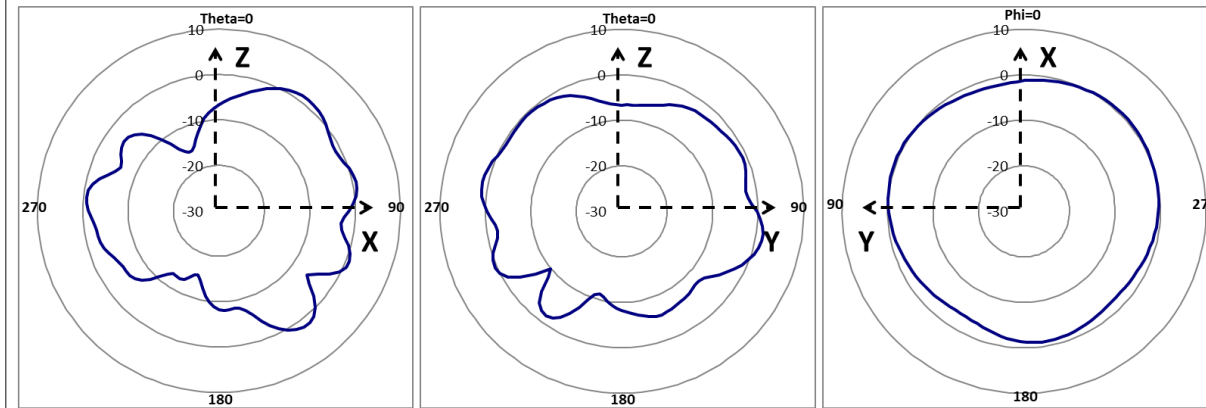
90XYBH15.GAR



90XYBH15.GAS

6GF
Radiation Pattern

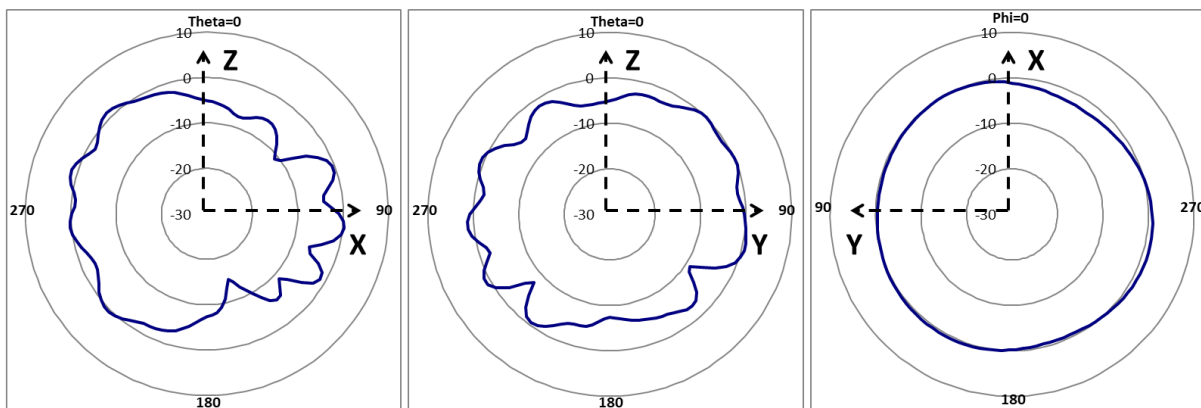
90XYBH15.GAS



90XYBH15.GAT

6GF
Radiation Pattern

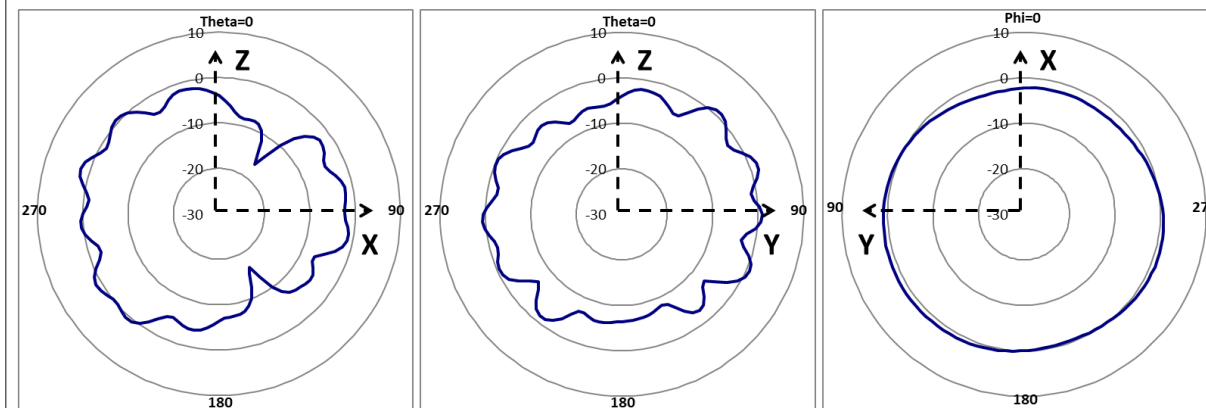
90XYBH15.GAT



90XYBH15.GAU

6GF
Radiation Pattern

90XYBH15.GAU



WNC

Wistron NeWeb Corp.

