

Antenna Measurement Report

Model : model-5
Manufacture :
Series Number : QTKOTAPR00295
Antenna Type :
Date :

Test Laboratory:

Name: Linkou Laboratory

Address: No. 5-22 Rueishu Keng, Rueiping Tsuen, Linkou Shiang, Taipei County
244, Taiwan, R.O.C.

The test results relate only to the samples tested.



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1. General Information

1.1. Applied Reference Documents

The Equipment Under Test (EUT) has been tested at <Laboratory Name> according to the leading reference document in below table.

No.	Identity	Document Title	Version/Date
1	Std 149	IEEE Standard Test Procedures for Antenna	1979

1.2. List of Test Equipments

Instrument Description	Calibration Date	Location
Agilent E5071C Network Analyzer	2010.07.26	Linkou Laboratory
MF Switch Box	N/A	Linkou Laboratory
MF Controller	N/A	Linkou Laboratory
Reference Horn Antenna		Linkou Laboratory

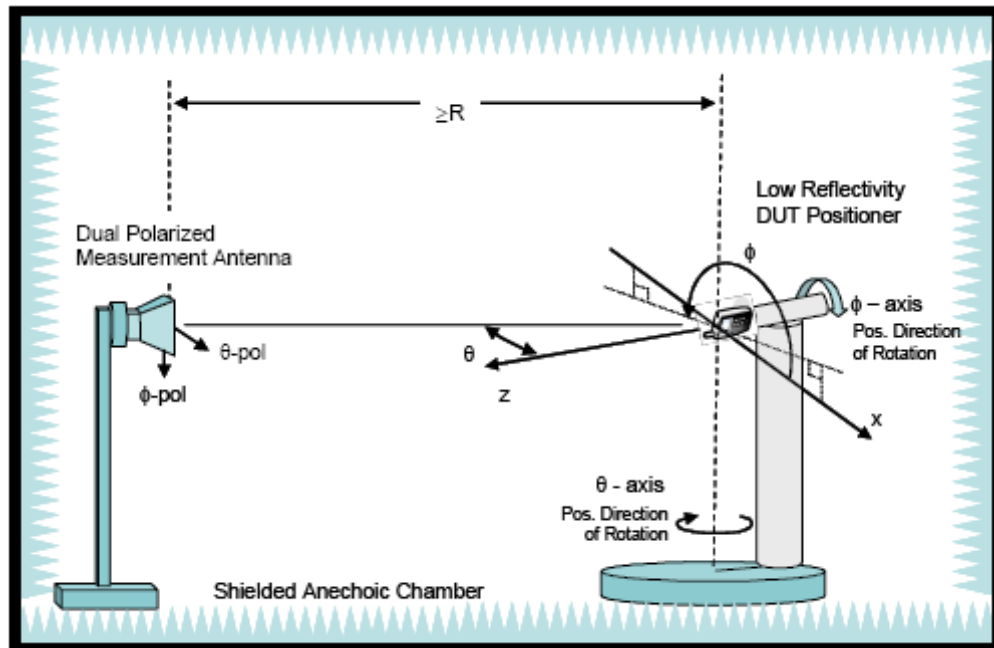
1.3. Description

Measurement date	
Measurement software version	2.00
Model	model-5
Manufacture	
Antenna Type	
EUT Description	20120709-1636

1.4. Test Setup

EUT coordinate systems of the previous sections will apply independent of the physical orientations of the EUT inside the chamber.

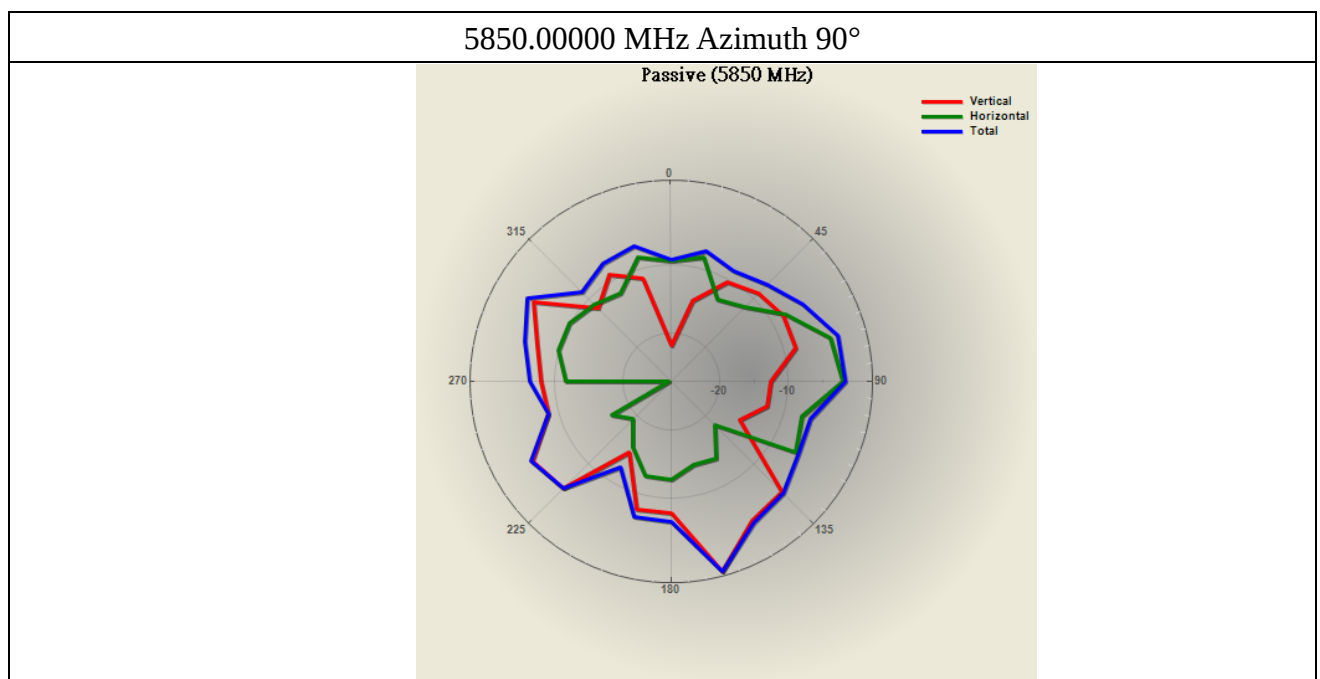
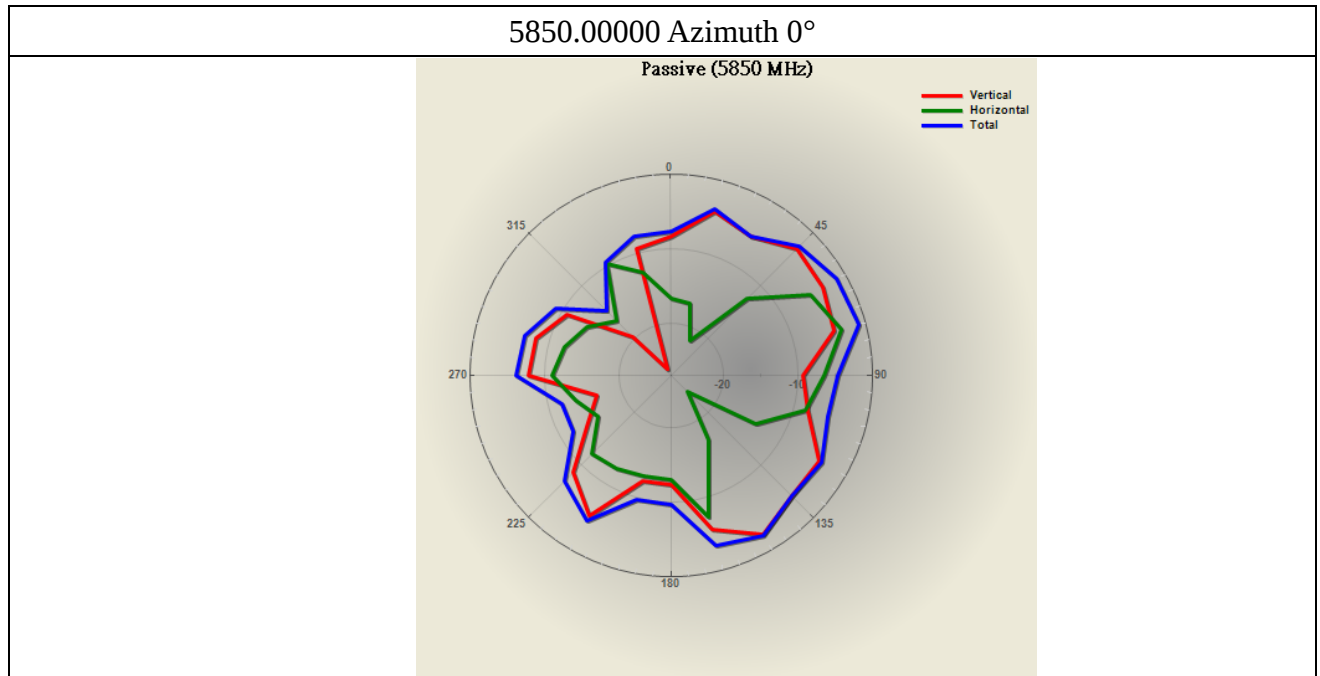
The figure shows the typical setup using a combined axis system. In addition to the pictured Theta axis rotation, the EUT will have to be rotated about the Z-axis (Phi rotation) in order to perform the full spherical scans.

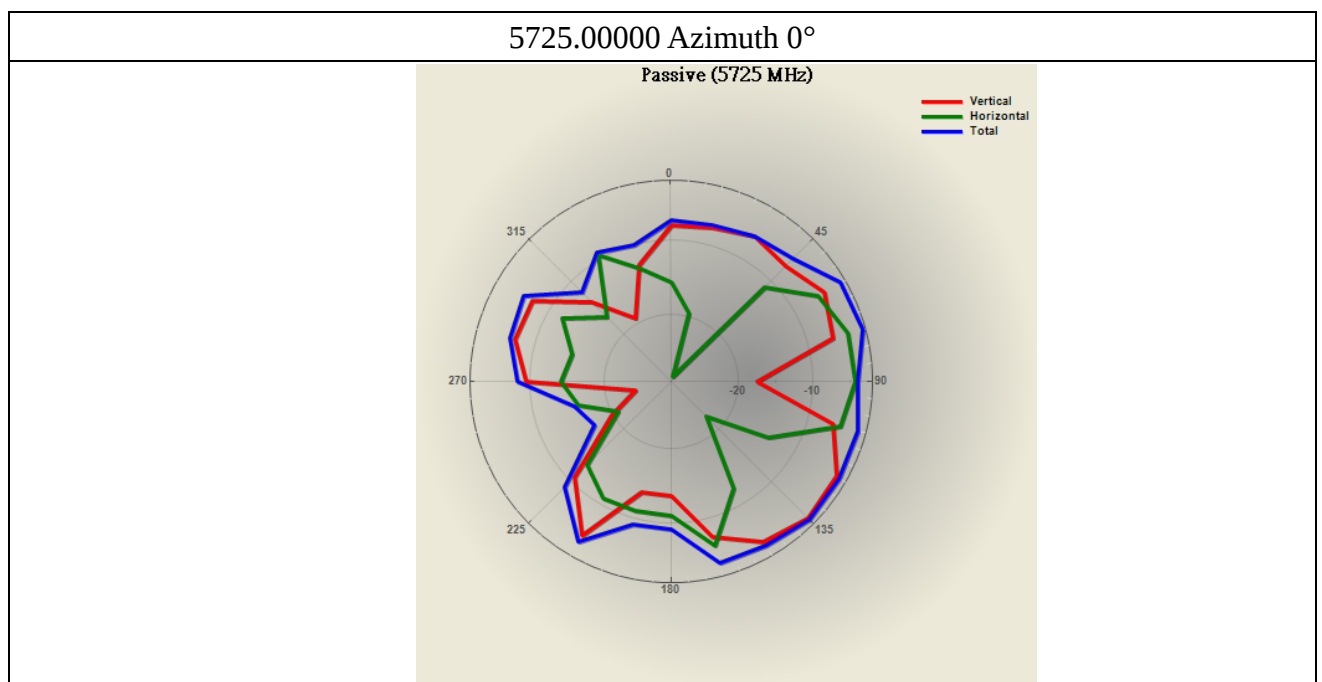
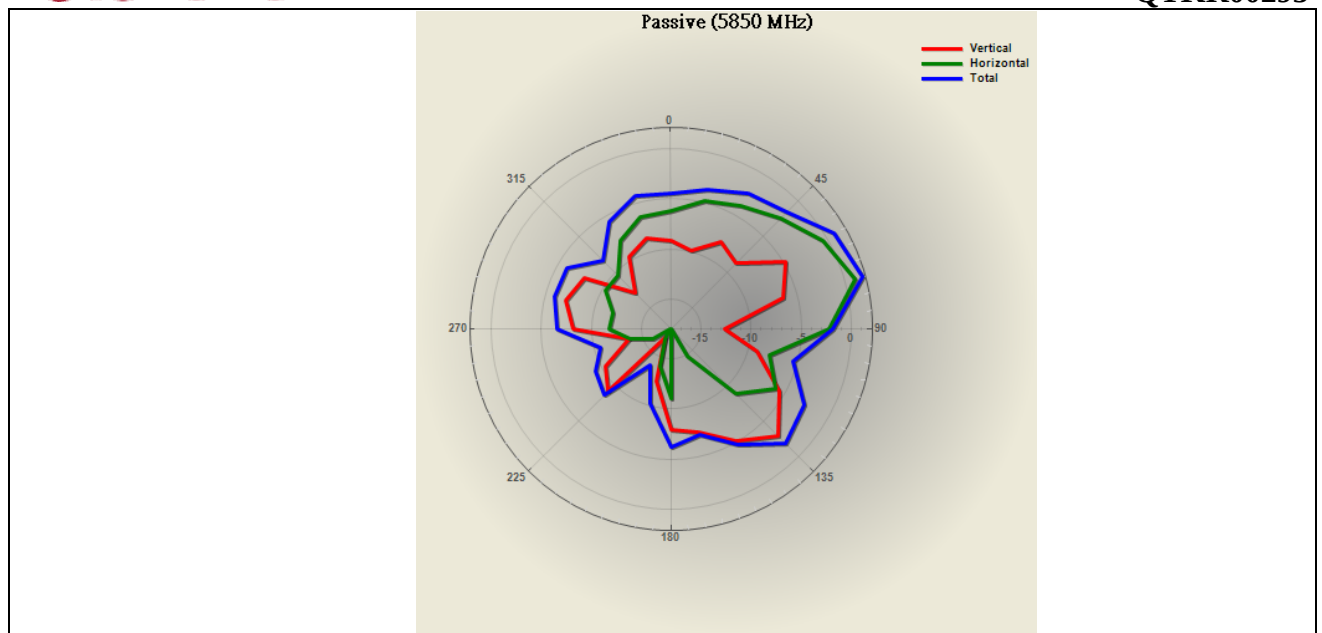


2. Summary

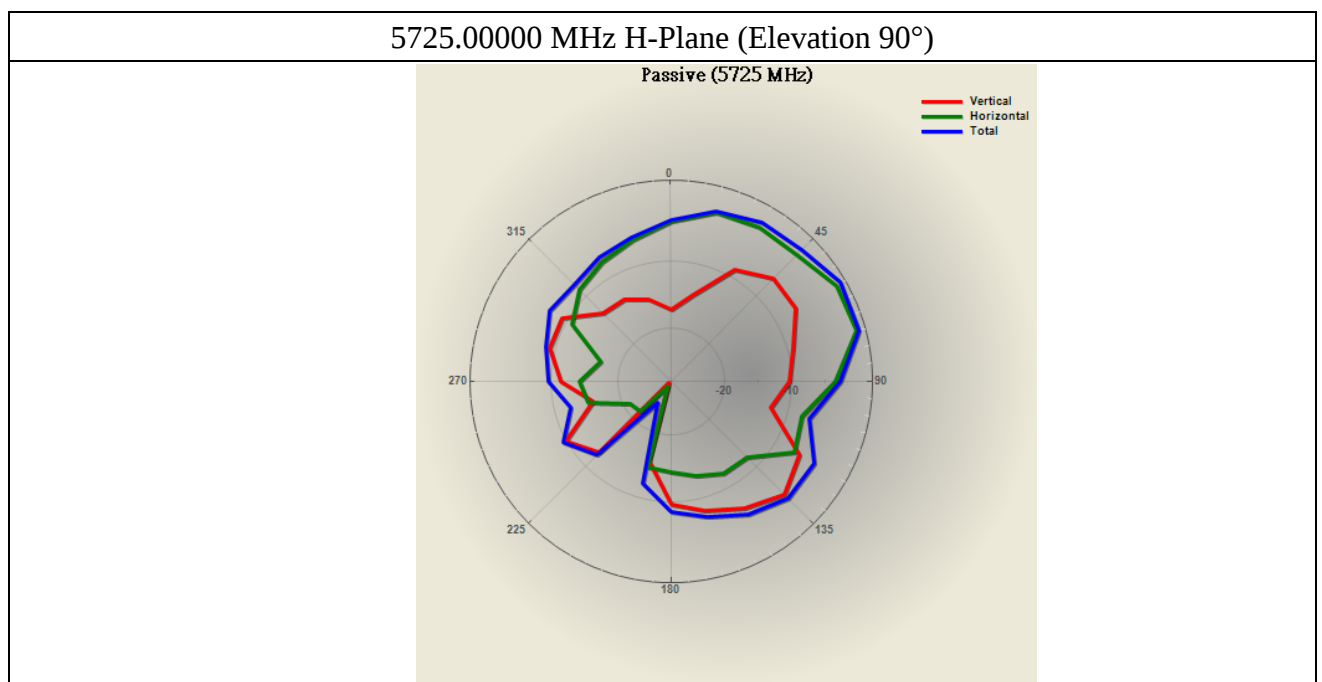
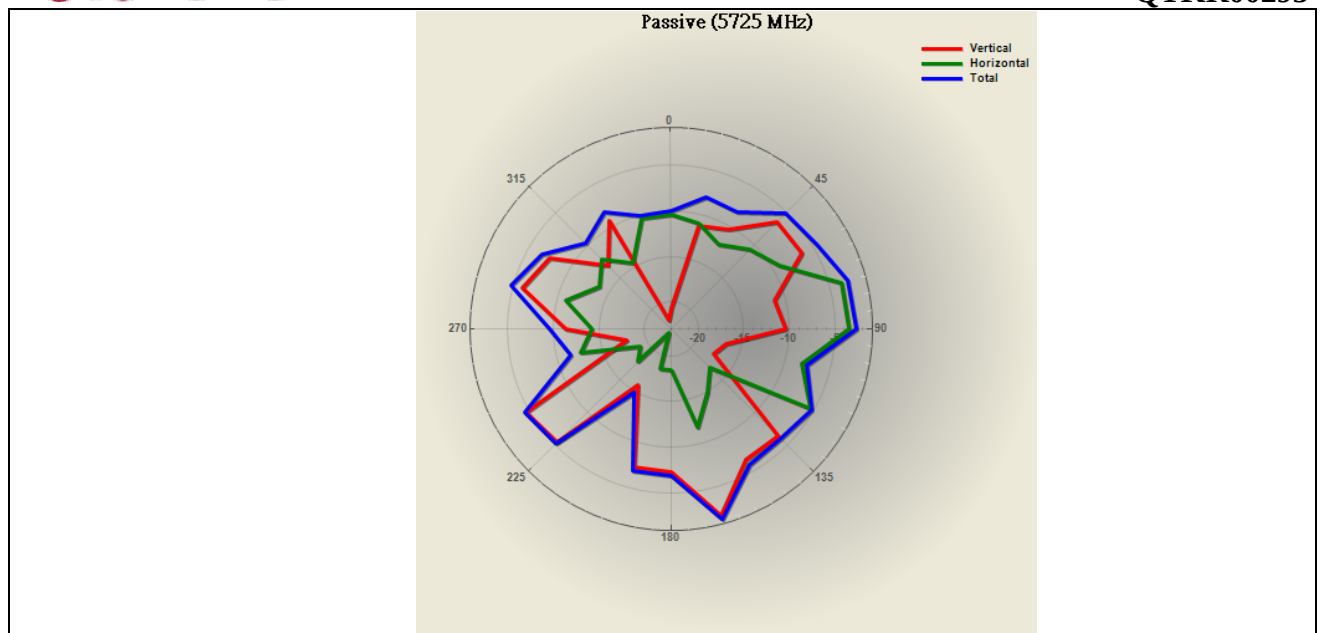
Frequency (MHz)	Max power (dBm)	Min. power (dBm)	Total Radiated Power (dBm)	NHPRP +/-45 (dBm)	NHPRP +/-30 (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2402	2.15	-32.82	-2.94	-3.39	-4.52	5.10	-2.94	50.77	2.15
2442	0.70	-46.62	-2.78	-3.17	-4.30	3.48	-2.78	52.72	0.70
2483	0.72	-33.63	-3.76	-4.19	-5.22	4.48	-3.76	42.06	0.72
5150	0.41	-144.66	-5.58	-6.22	-6.97	5.99	-5.58	27.67	0.41
5350	1.72	-30.61	-4.68	-5.27	-6.03	6.40	-4.68	34.01	1.72
5470	-0.40	-35.77	-5.67	-6.45	-7.28	5.27	-5.67	27.09	-0.40
5725	0.65	-34.71	-5.34	-6.27	-7.14	6.00	-5.34	29.22	0.65
5850	2.18	-29.83	-4.53	-5.56	-6.54	6.70	-4.53	35.27	2.18

3. 2D Plots

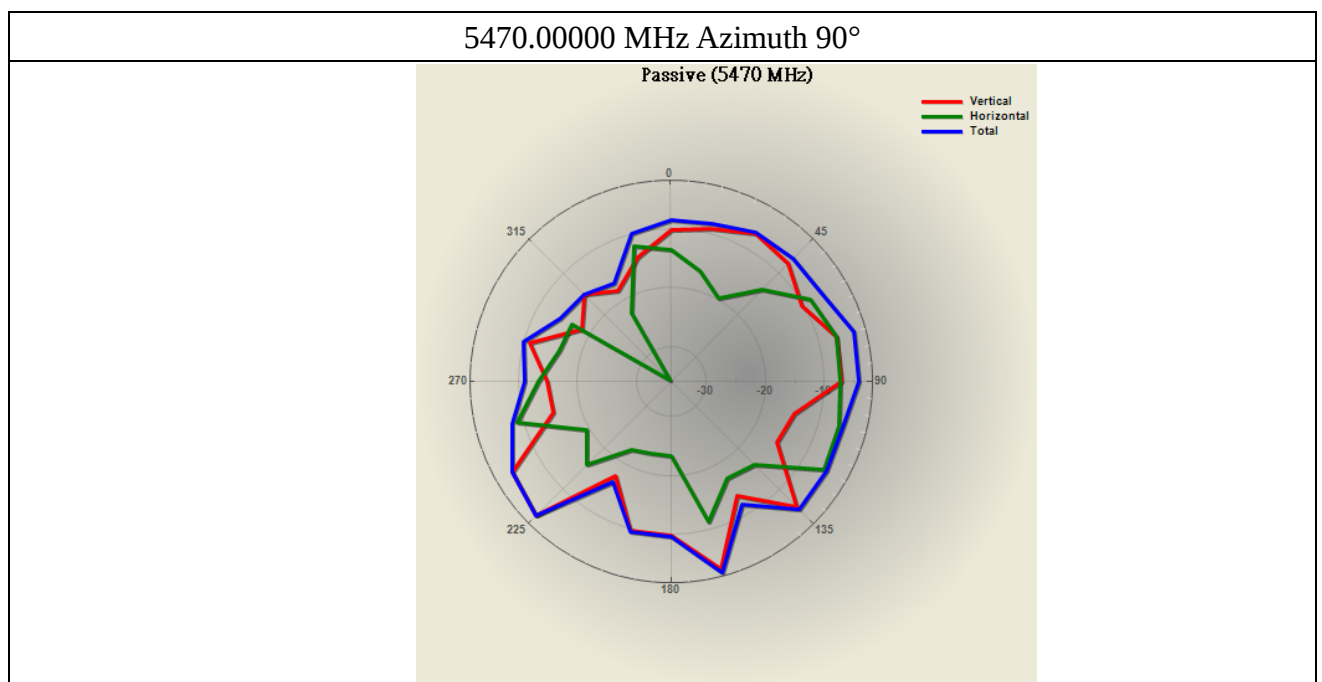
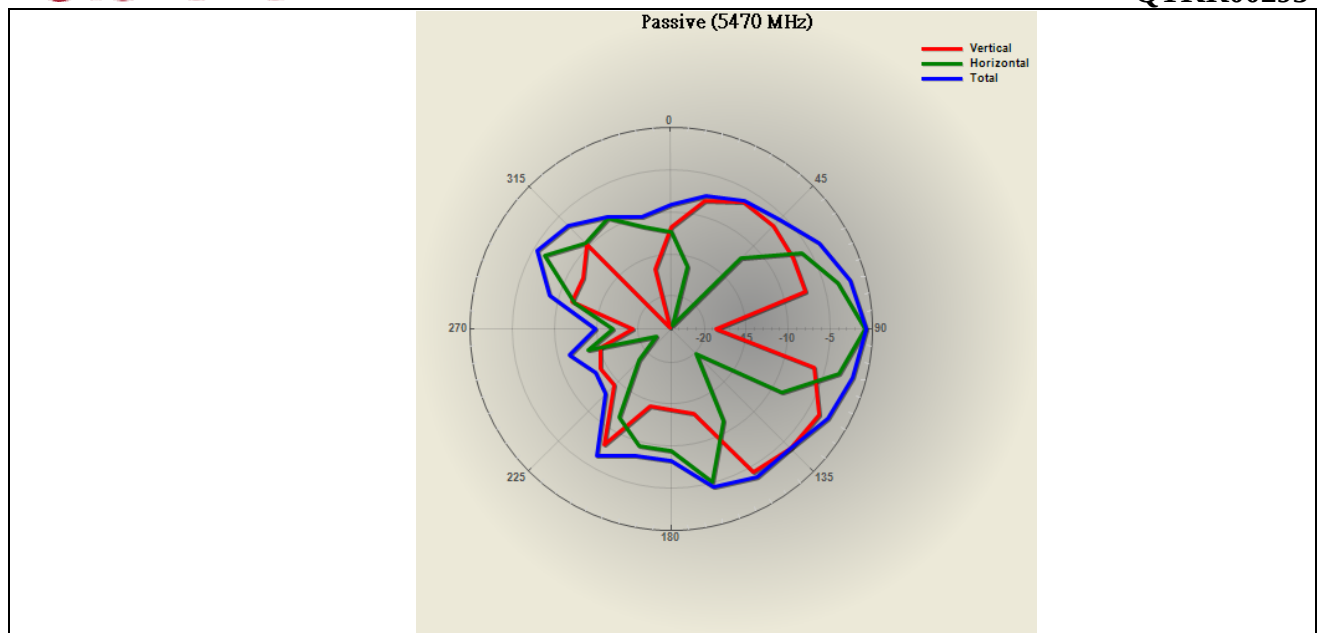




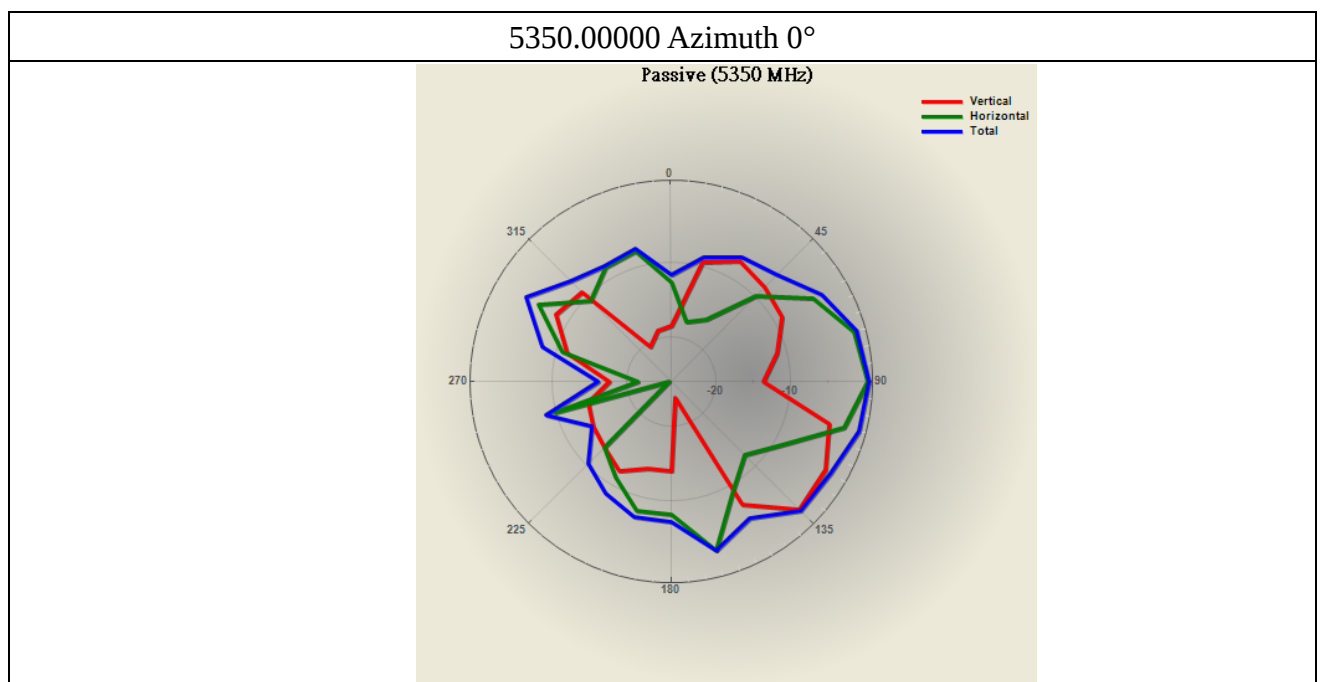
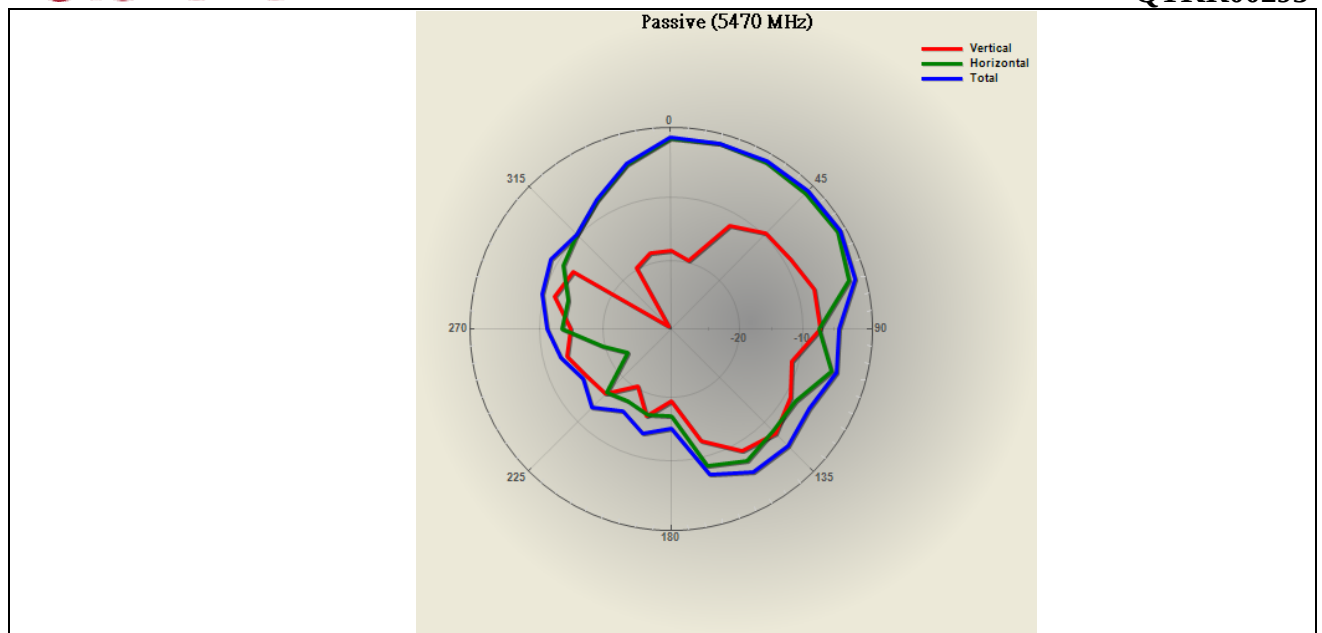
5725.00000 MHz Azimuth 90°



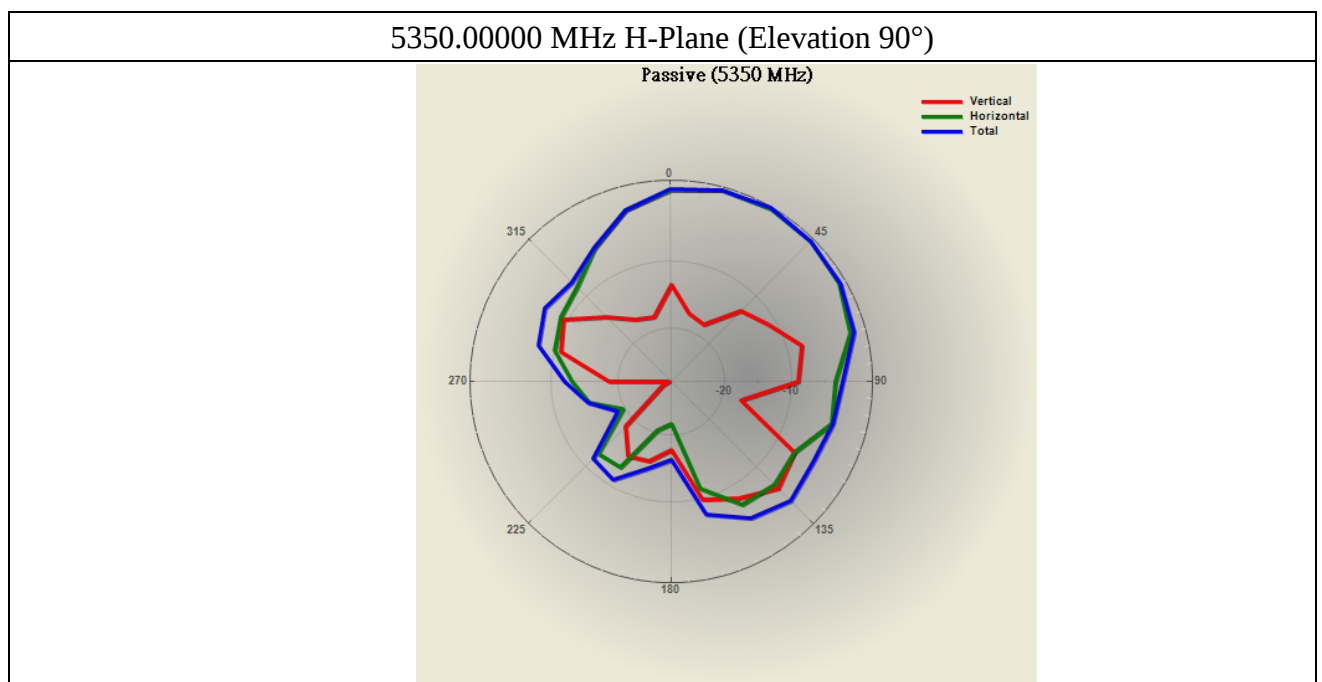
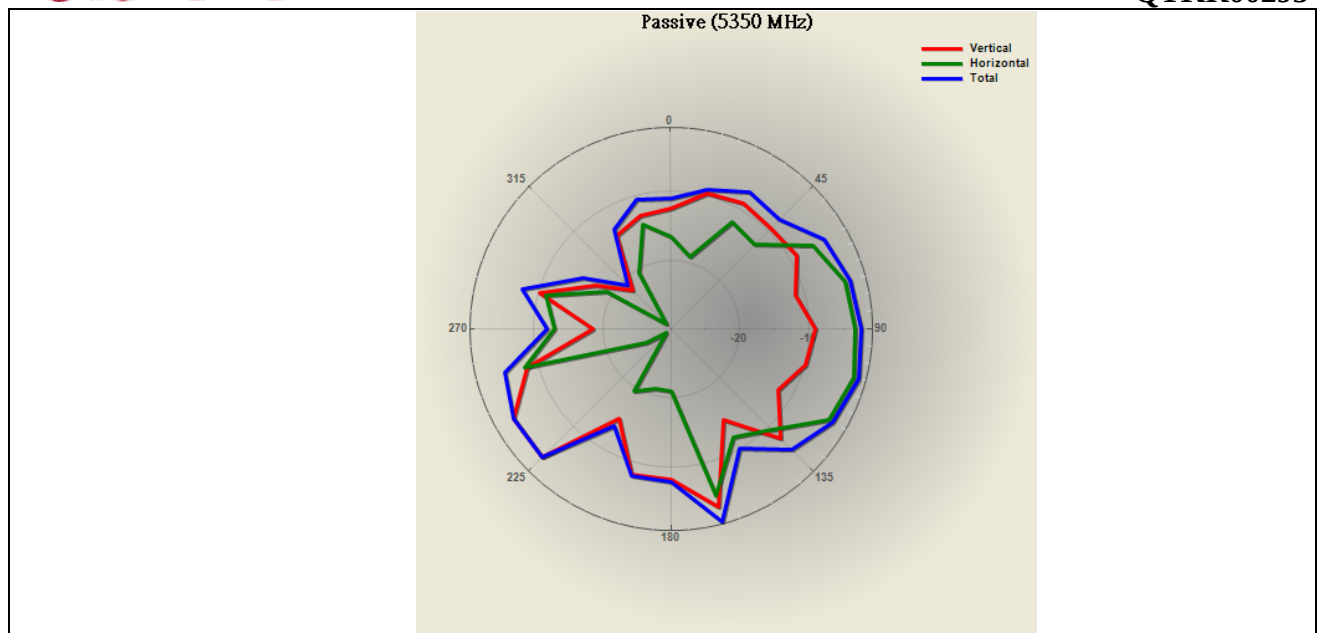
5470.00000 Azimuth 0°



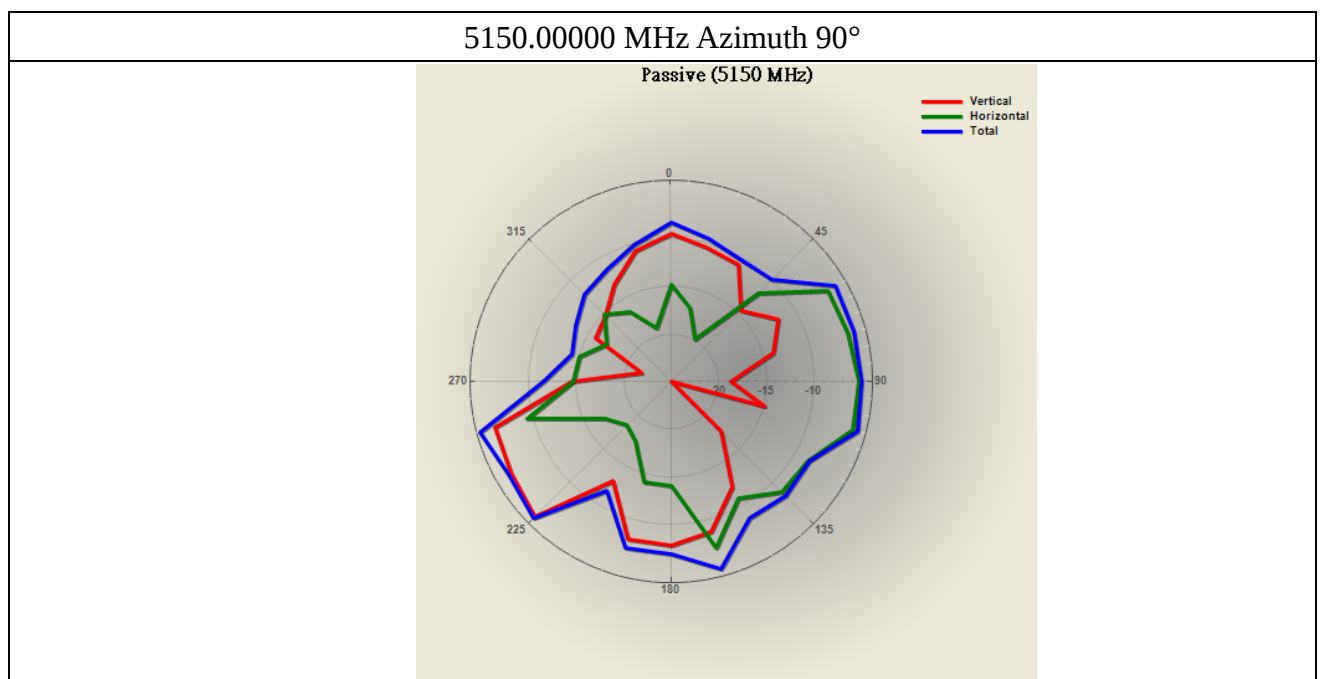
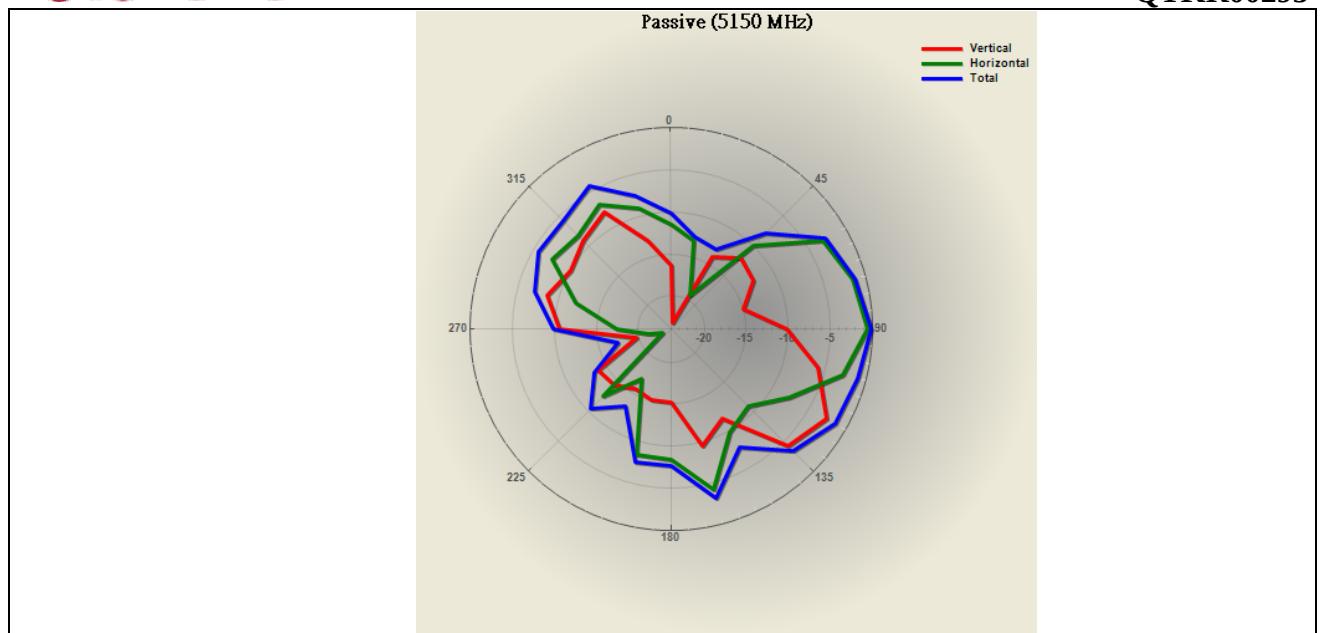
5470.00000 MHz H-Plane (Elevation 90°)



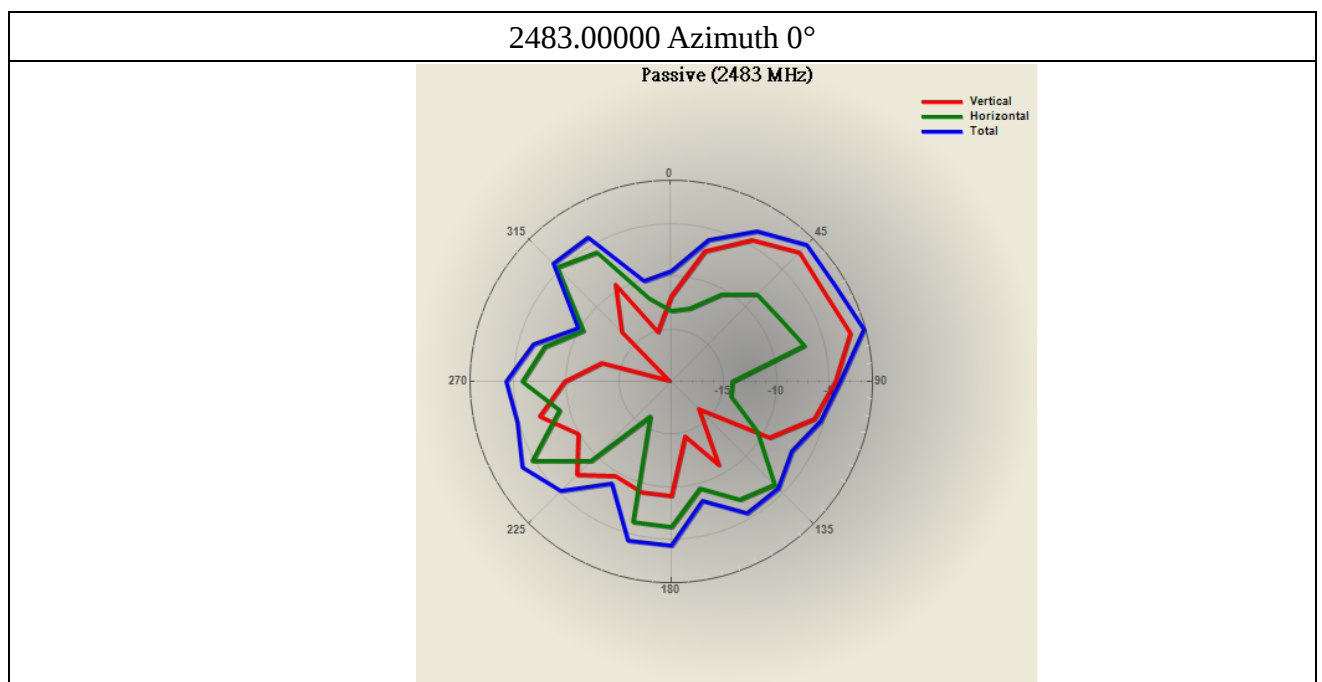
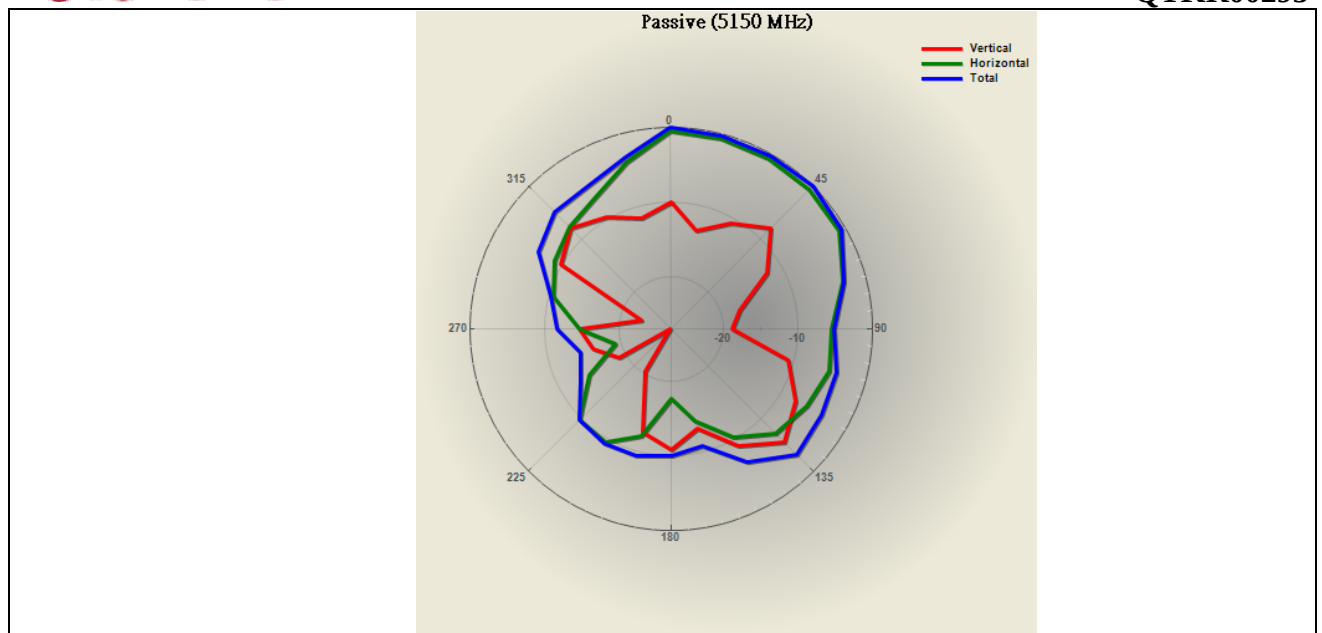
5350.00000 MHz Azimuth 90°



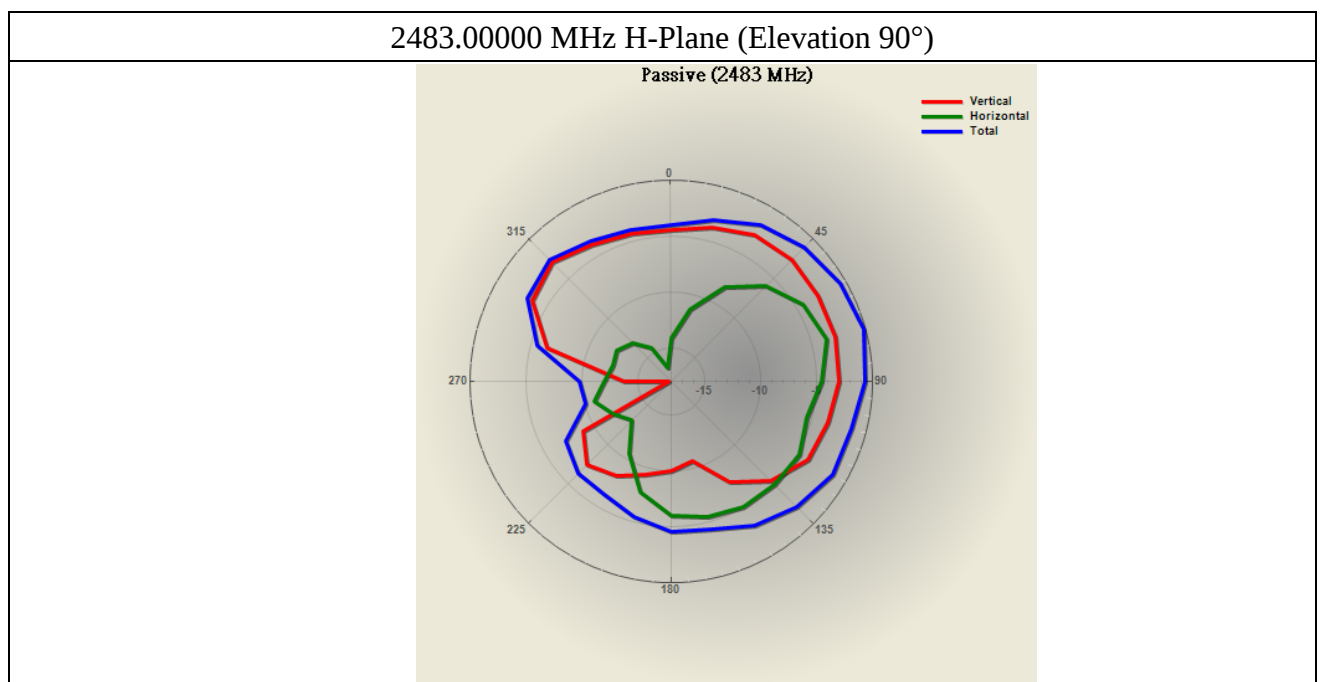
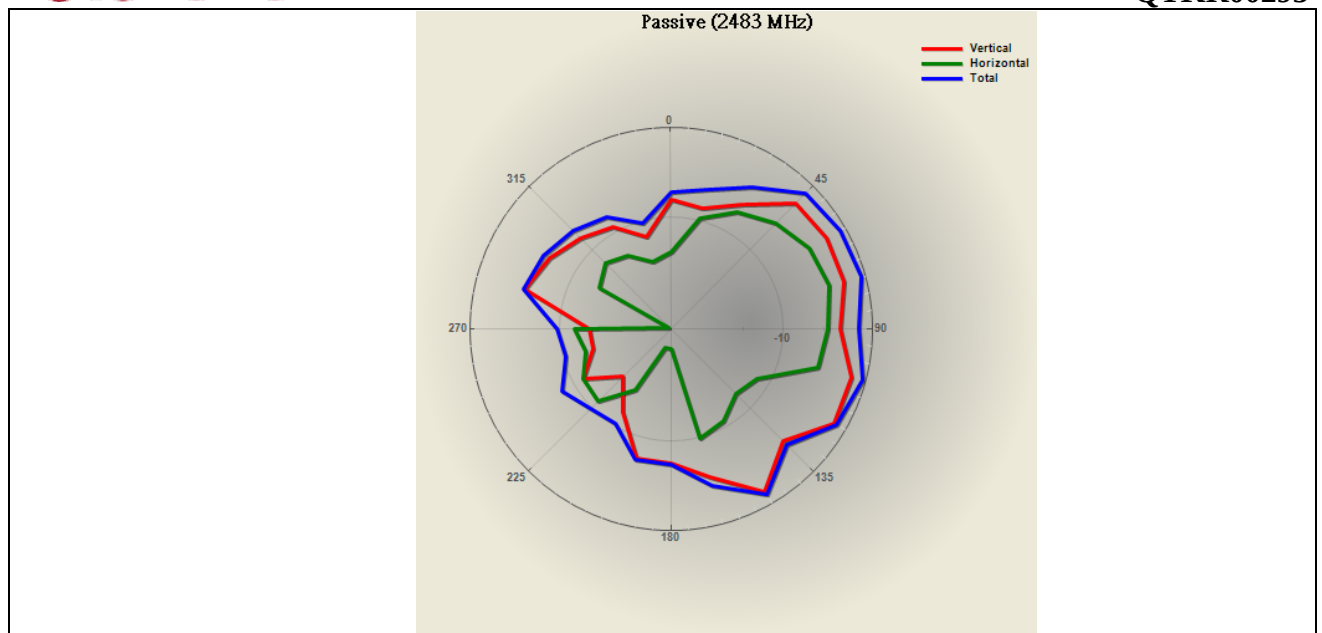
5150.00000 Azimuth 0°



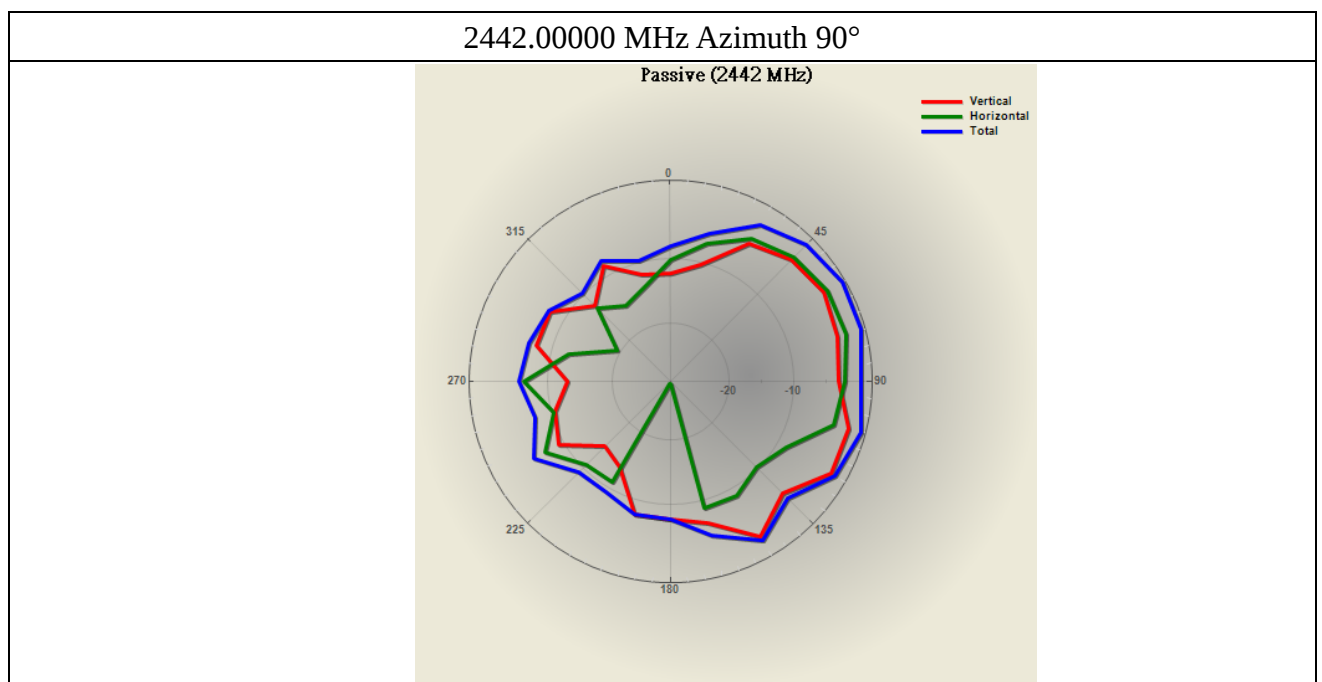
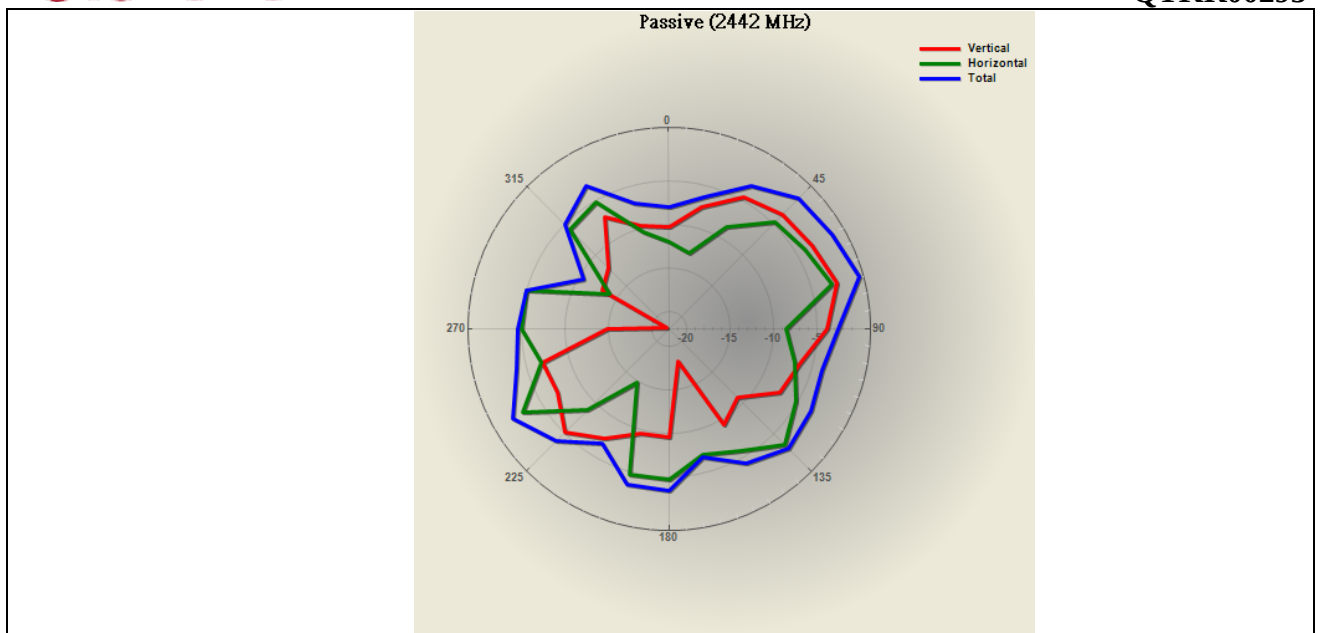
5150.00000 MHz H-Plane (Elevation 90°)



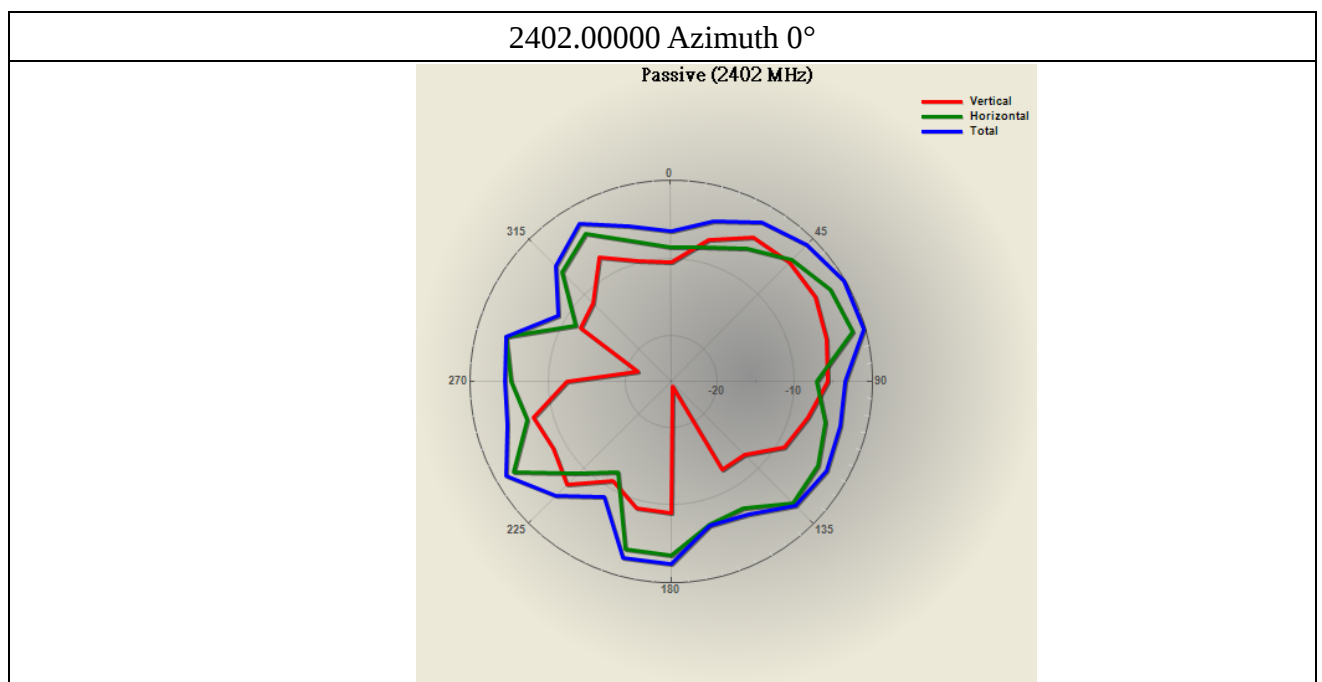
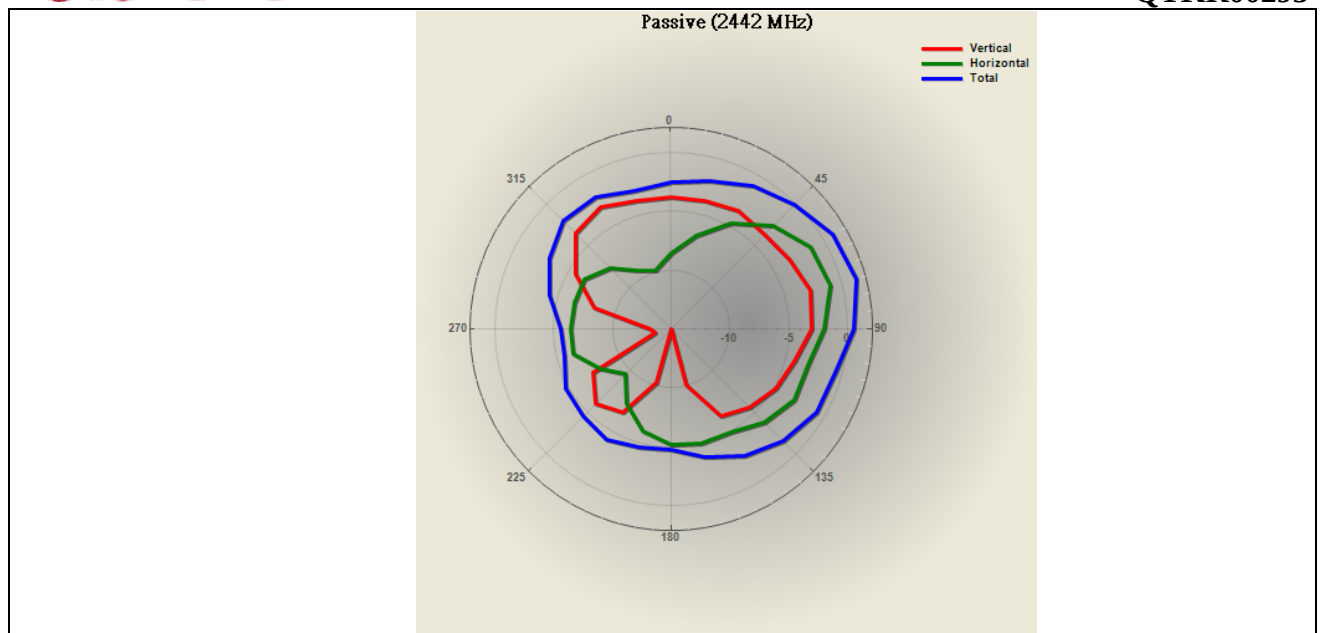
2483.00000 MHz Azimuth 90°



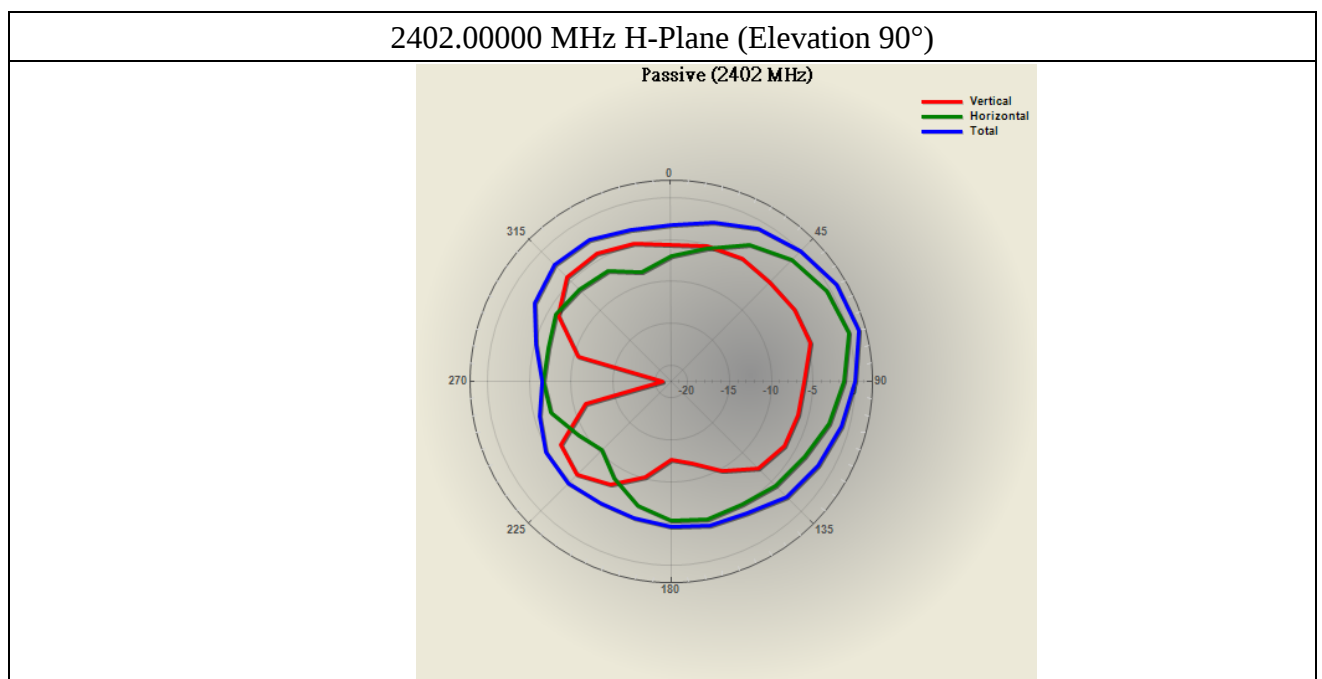
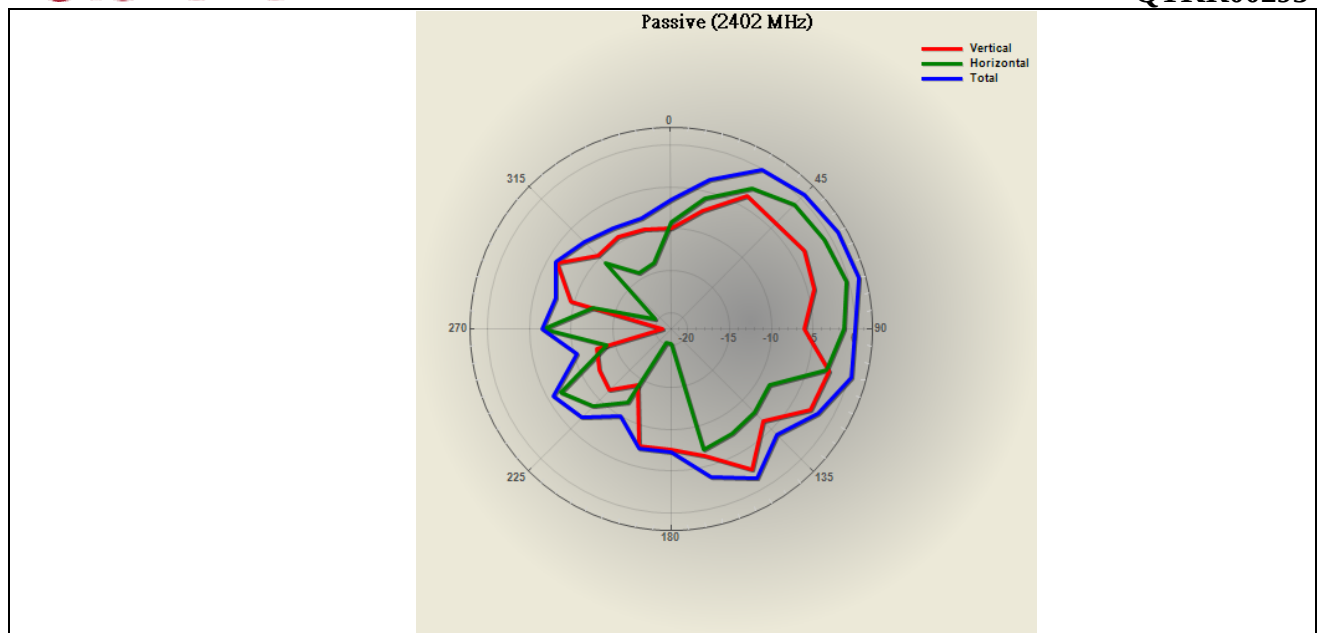
2442.00000 Azimuth 0°



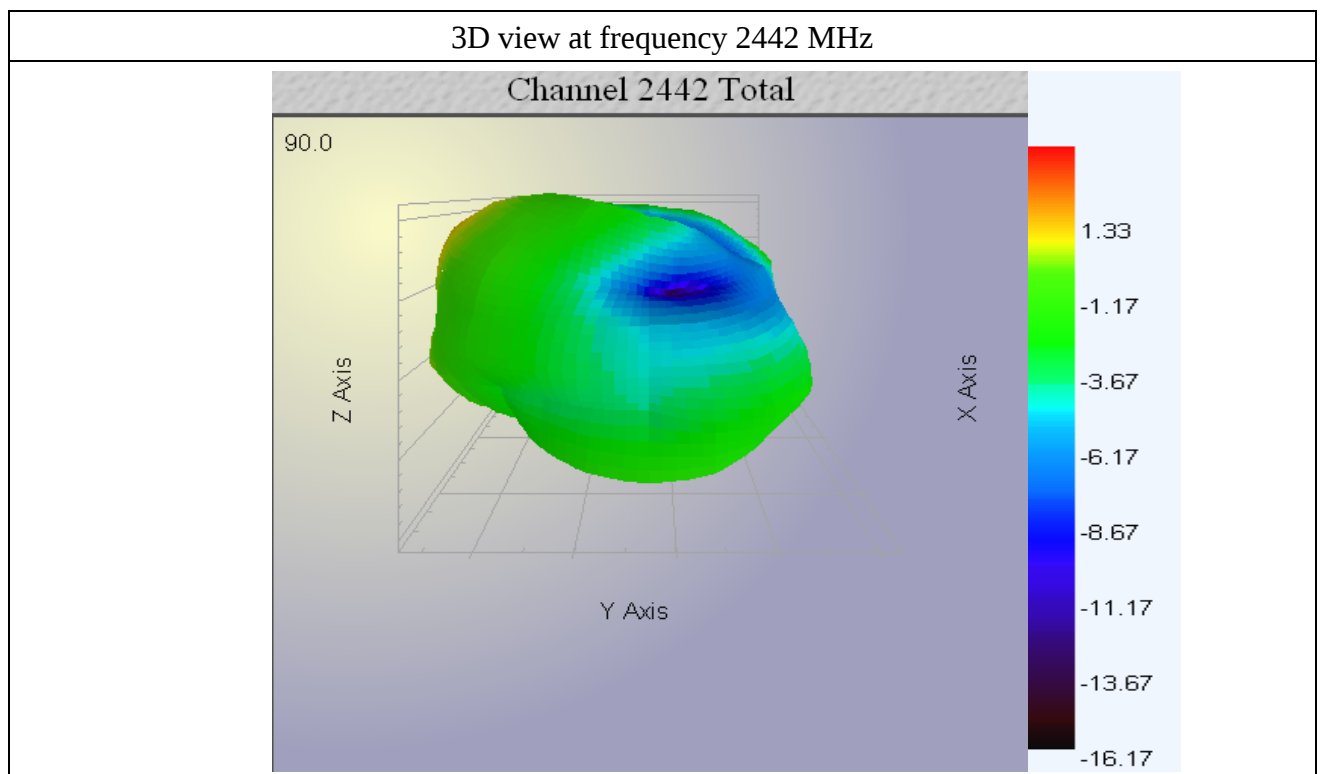
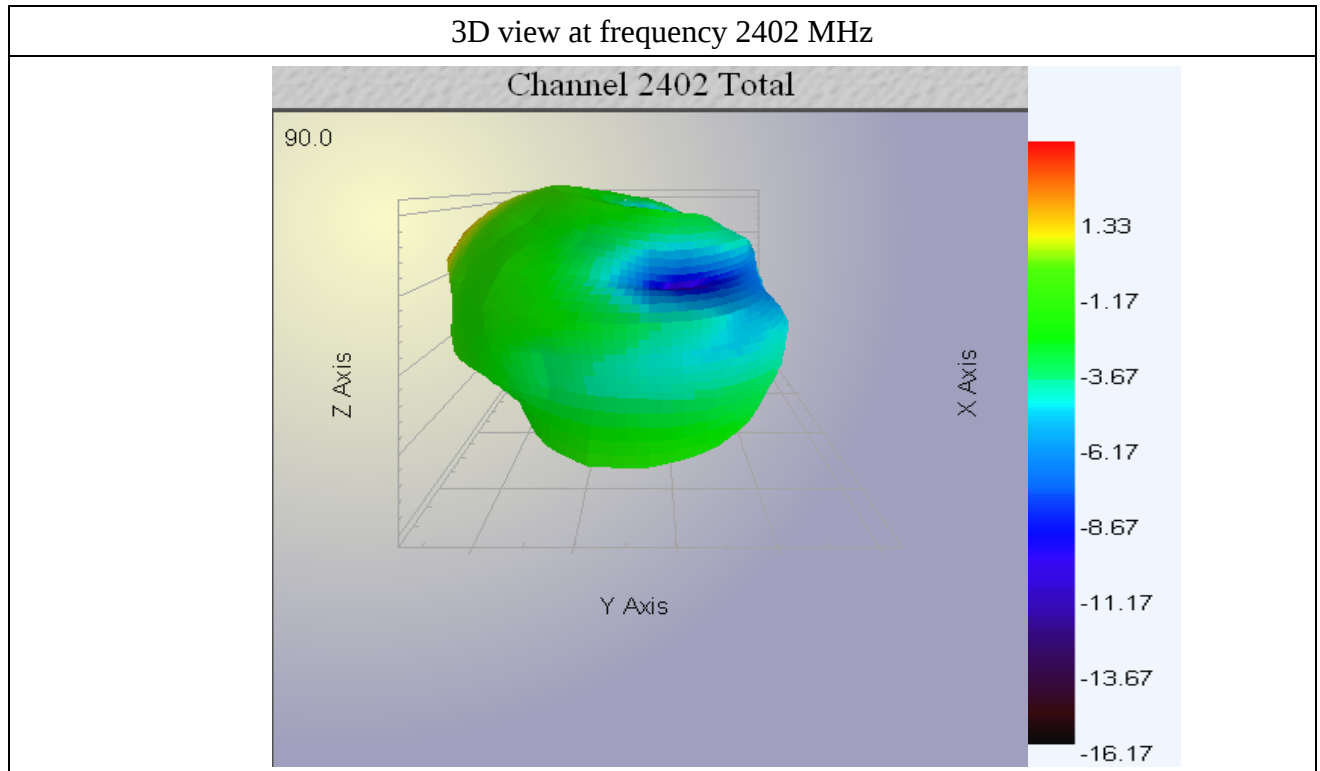
2442.00000 MHz H-Plane (Elevation 90°)



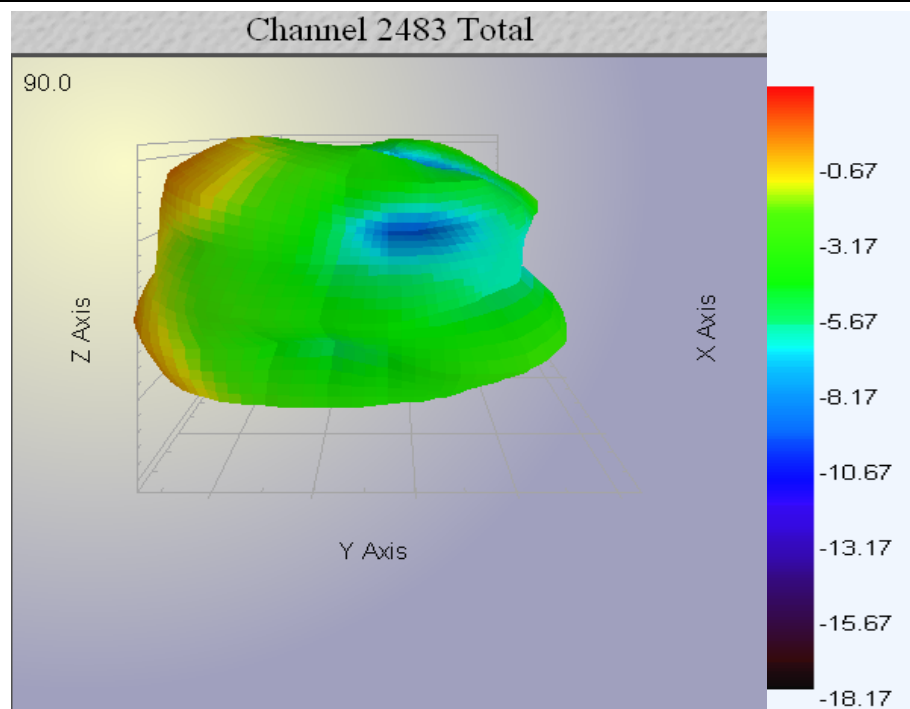
2402.00000 MHz Azimuth 90°



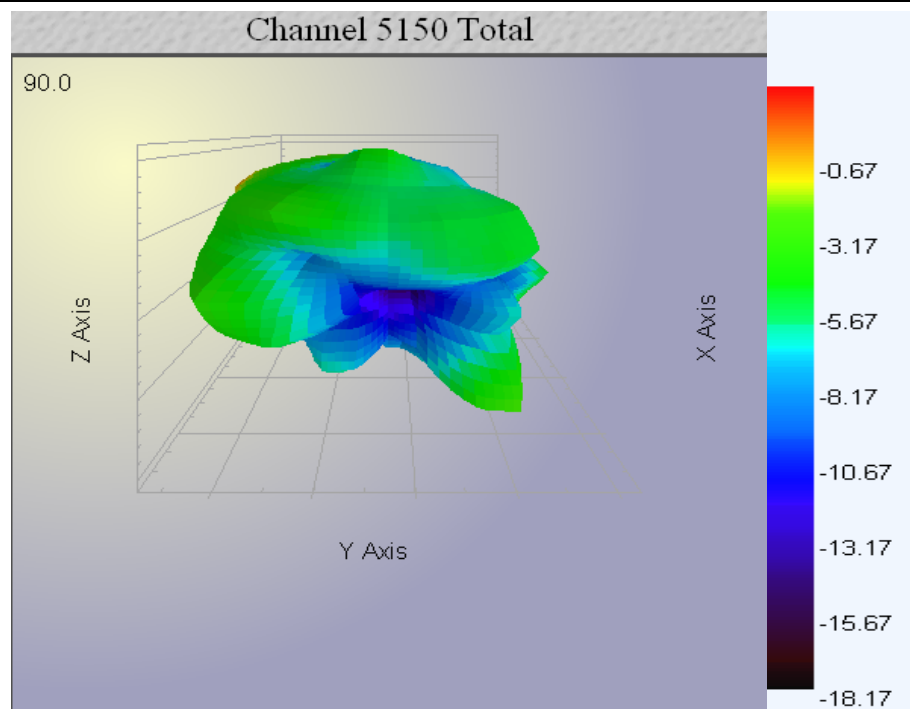
4. 3D Plots



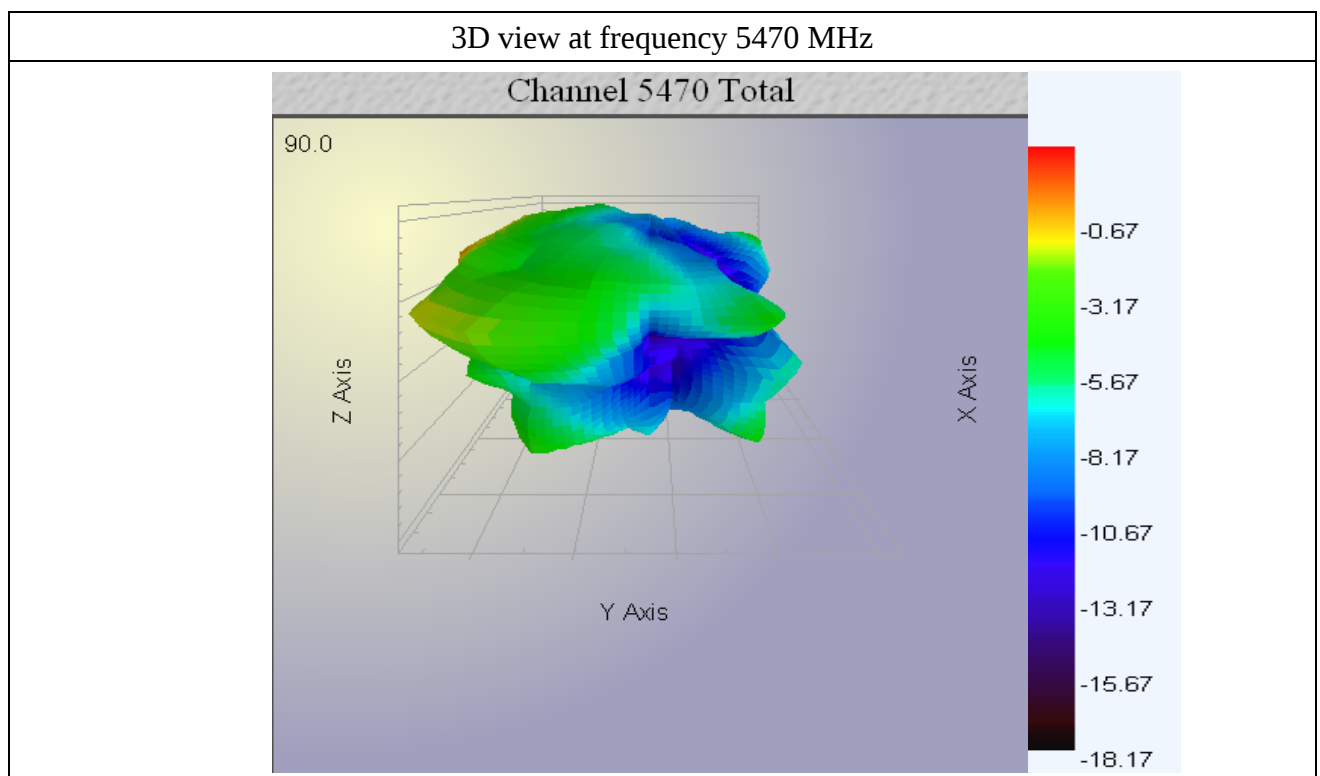
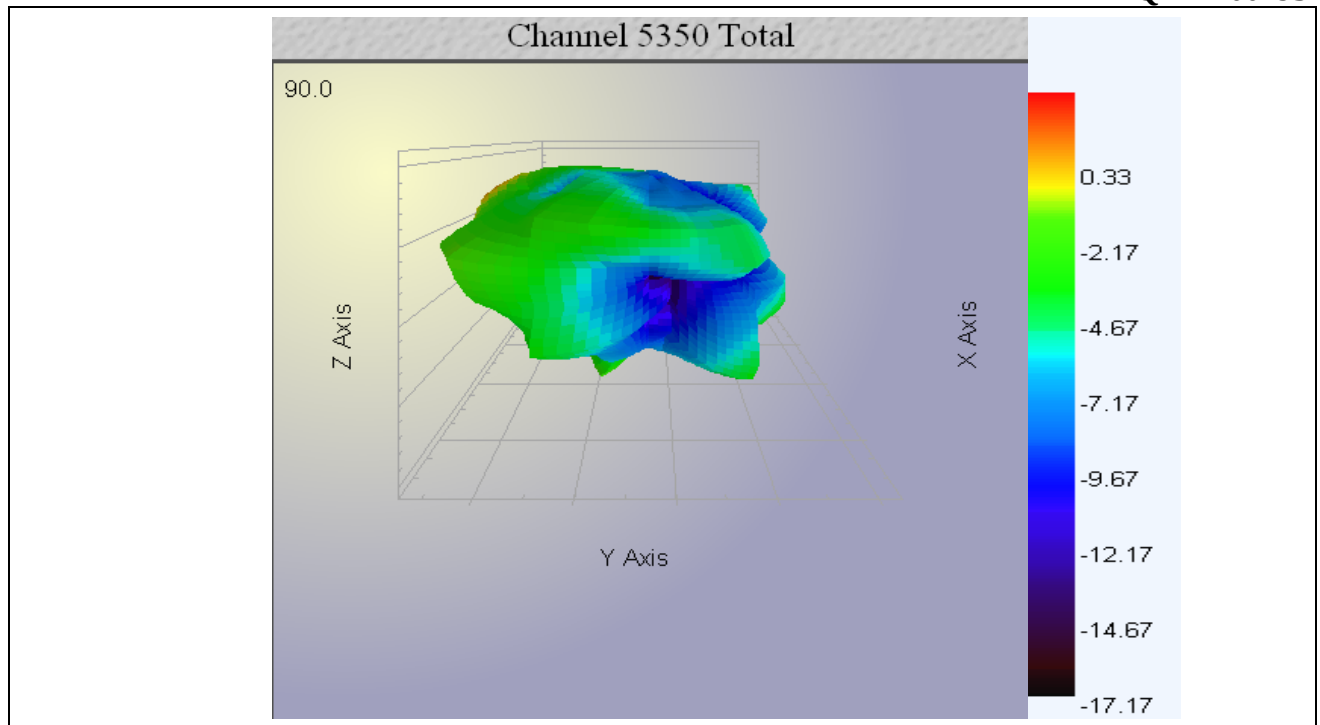
3D view at frequency 2483 MHz



3D view at frequency 5150 MHz



3D view at frequency 5350 MHz



3D view at frequency 5725 MHz

