

ANTENNA TEST REPORT

Product : PCB antenna
Brand: Fanstel
Model: PCB
Model Difference: N/A
Applicant: Fanstel Corporation, Taipei
Address: 10F-10, No. 79, Sec. 1, Hsin Tai Wu Rd.,
Hsi-Chih, New Taipei City 221 Taiwan

Test Performed by:

International Standards Laboratory

<LT Lab.>

*Address:

No. 120, Lane 180, San Ho Tsuen, Hsin Ho Rd.

Lung-Tan Hsiang, Tao Yuan County 325, Taiwan

*Tel : 886-3-263-8888; Fax: 886-3-263-8899

Report No.: **ISL-24LR0052ANT**

Issue Date : **2024/07/24**

Test By:

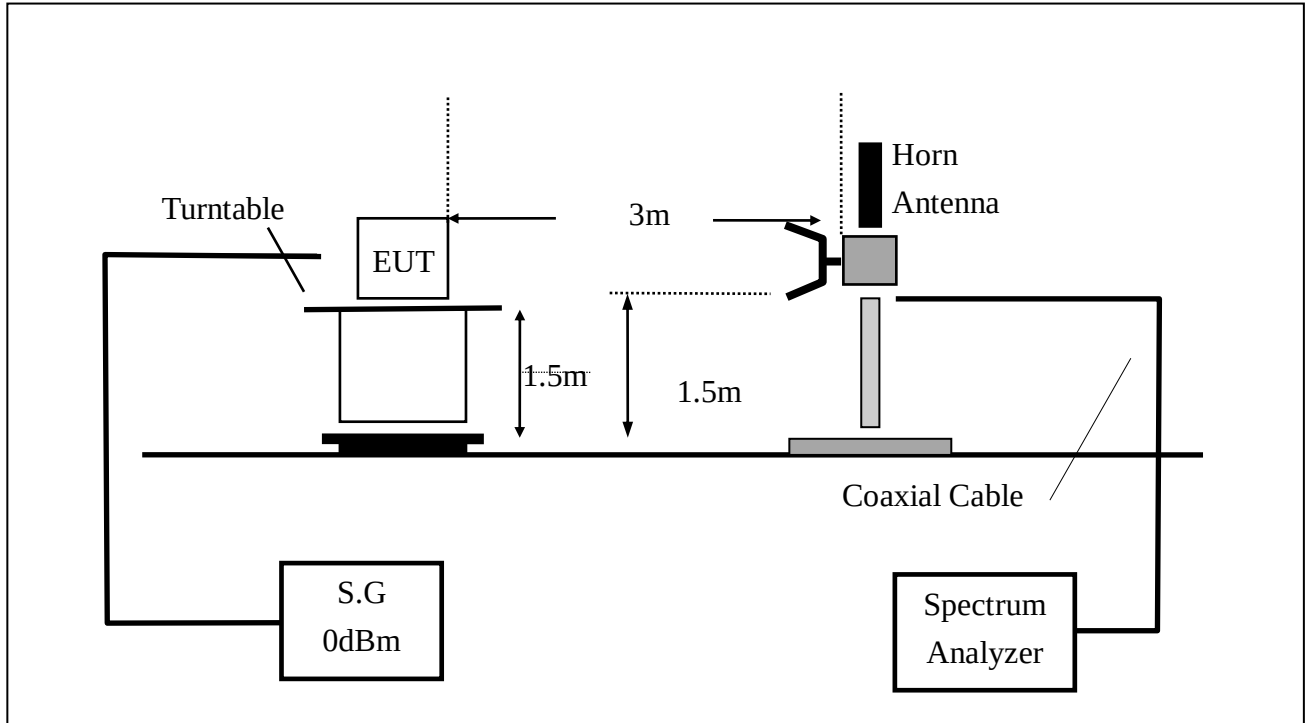
Barry Lee

Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

This report **MUST** not be used to claim product endorsement by TAF, NEMKO or any agency of the Government.

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1. Test SET-UP (Block Diagram of Configuration)



Measurement Equipment Used:					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Signal Analyzer (44GHz)	R&S	FSV3044	101463	02/06/2024	02/06/2025
Horn antenna (1GHz - 18GHz)	EM	EM-AH-10180	2011071401	11/27/2023	11/27/2024
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY53052399	12/26/2023	12/26/2024

2. EUT Photo

Figure 1
2.4G Antenna

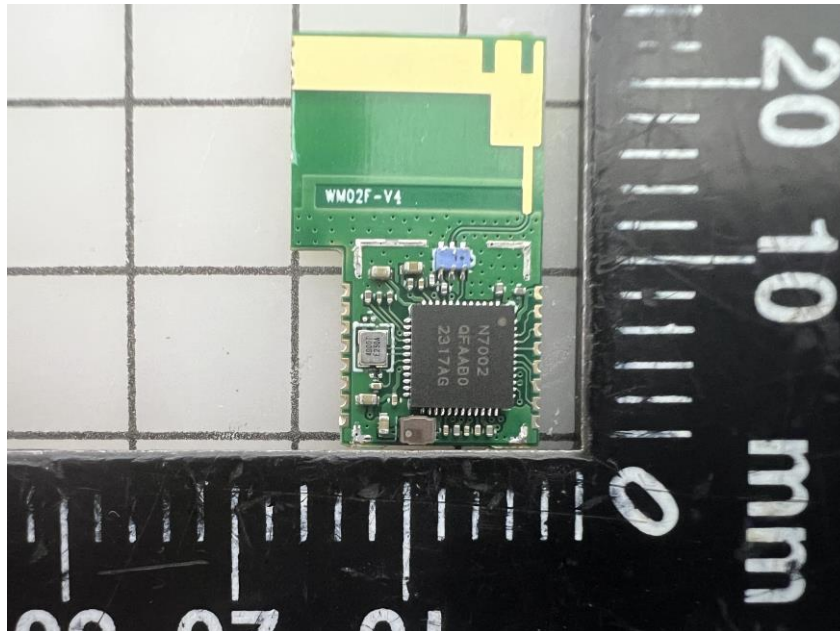
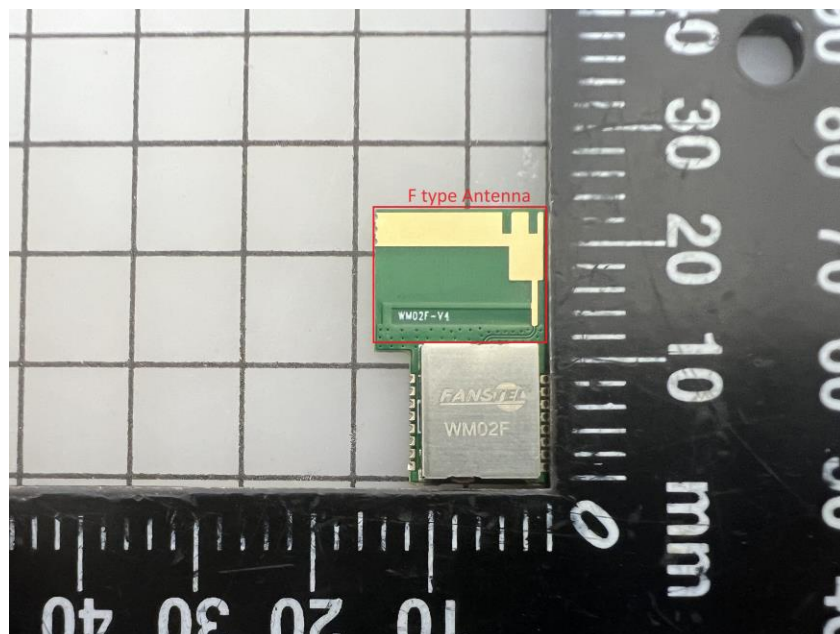


Figure 2



Test Result

2.4G Antenna

Maximum gain test result:	
Maximum antenna Gain	= 2.05 dBi

Antenna Gain	2400	2450	2500	Unit
	1.14	1.98	2.05	dBi

5G Antenna

Maximum gain test result:	
Maximum antenna Gain	= 0.14 dBi

Antenna Gain	5100	5150	5200	Unit
	-4.07	-4.17	-1.08	dBi
	5250	5300	5350	Unit
	-3.10	-3.03	0.14	dBi
	5400	5450	5500	Unit
	-0.39	-0.18	-3.89	dBi
	5550	5600	5650	Unit
	-2.94	-1.64	-1.83	dBi
	5700	5750	5800	Unit
	-1.30	-1.39	-1.04	dBi
	5850	5900		Unit
	-1.73	-1.09		dBi

Figure 1. 2.4G Antenna 2400MHz

Figure 3. 2.4G Antenna 2500MHz

Figure 5. 5G Antenna 5150MHz

Figure 7. 5G Antenna 5250MHz

Figure 9. 5G Antenna 5350MHz

Figure 11. 5G Antenna 5450MHz

Figure 13. 5G Antenna 5550MHz

Figure 15. 5G Antenna 5650MHz

Figure 17. 5G Antenna 5750MHz

Figure 19. 5G Antenna 5850MHz

Figure 2. 2.4G Antenna 2450MHz

Figure 4. 5G Antenna 5100MHz

Figure 6. 5G Antenna 5200MHz

Figure 8. 5G Antenna 5300MHz

Figure 10. 5G Antenna 5400MHz

Figure 12. 5G Antenna 5500MHz

Figure 14. 5G Antenna 5600MHz

Figure 16. 5G Antenna 5700MHz

Figure 18. 5G Antenna 5800MHz

Figure 20. 5G Antenna 5900MHz

Figure 1

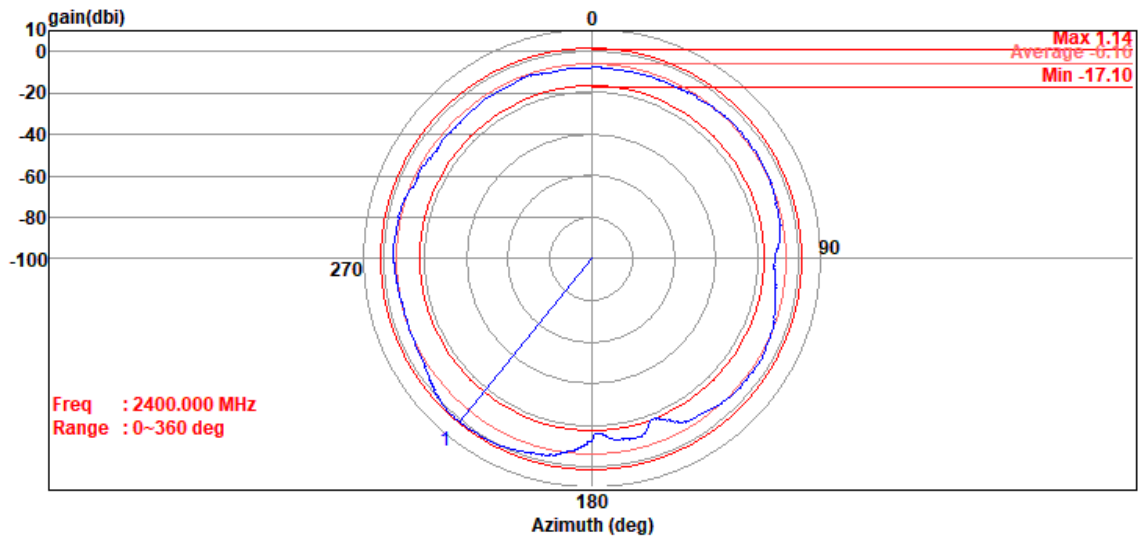


Figure 2

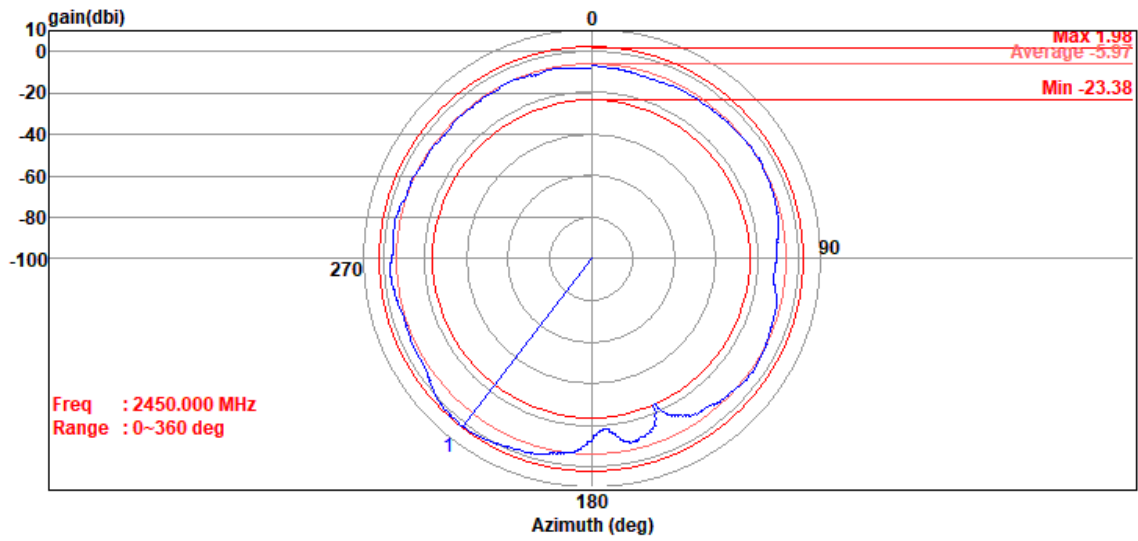


Figure 3

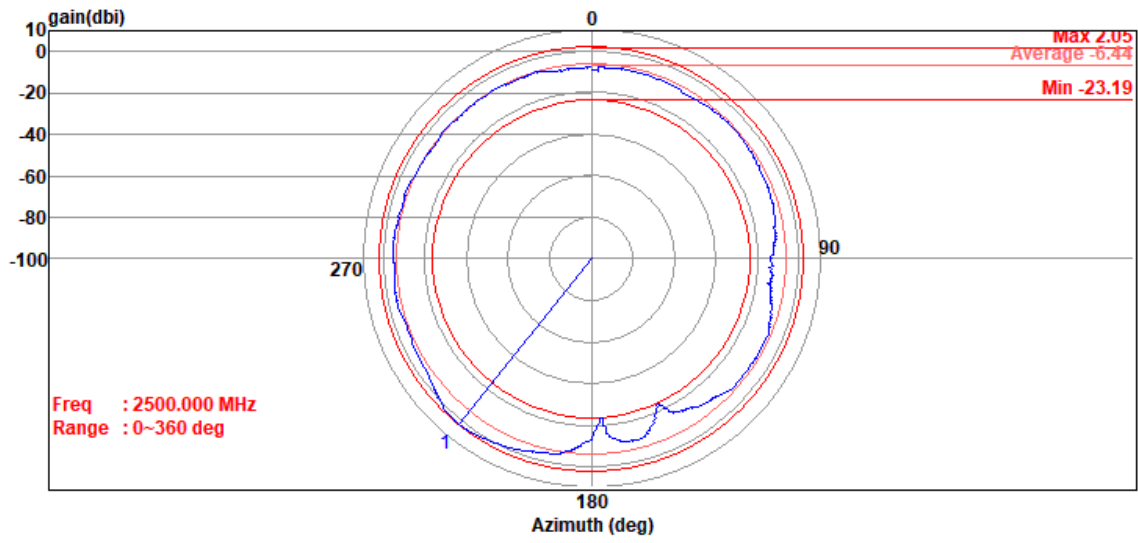


Figure 4

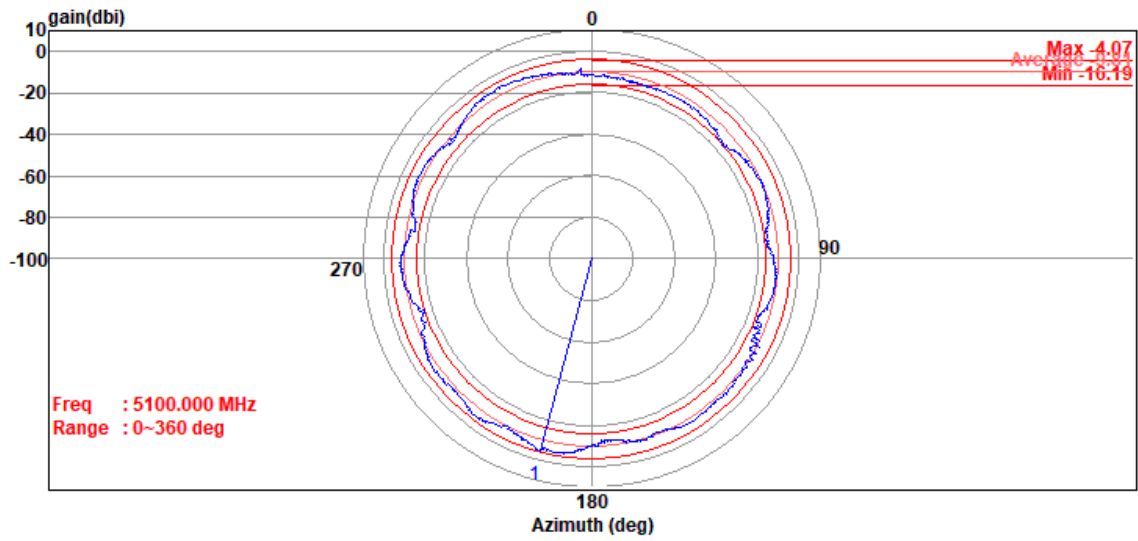


Figure 5

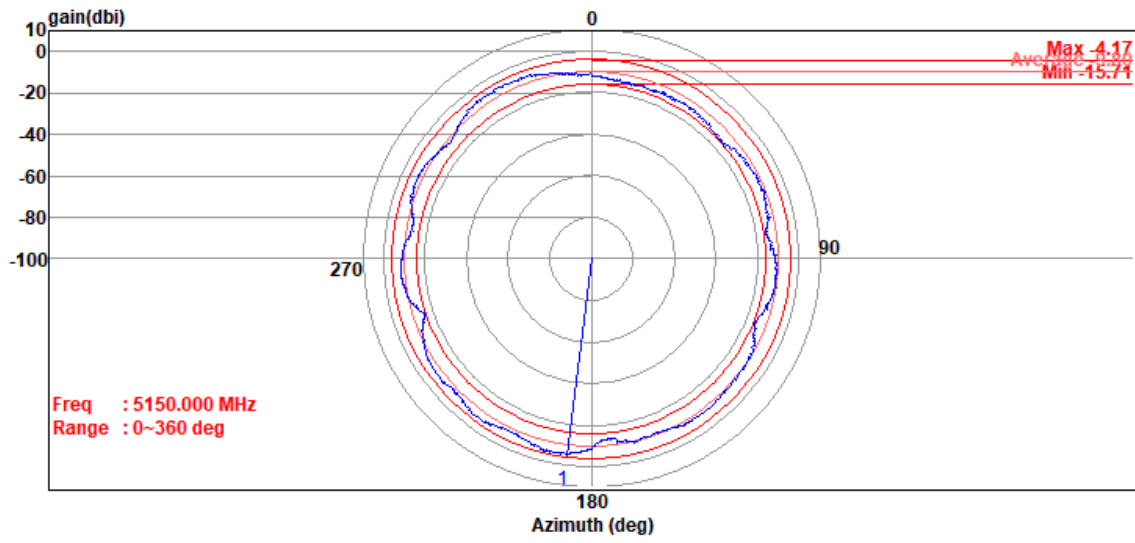


Figure 6

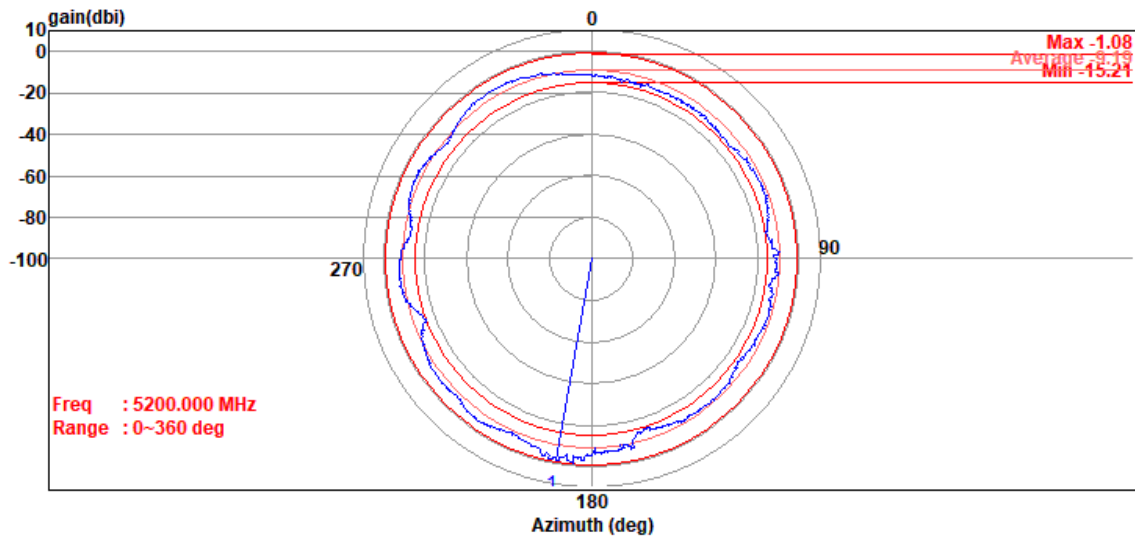


Figure 7

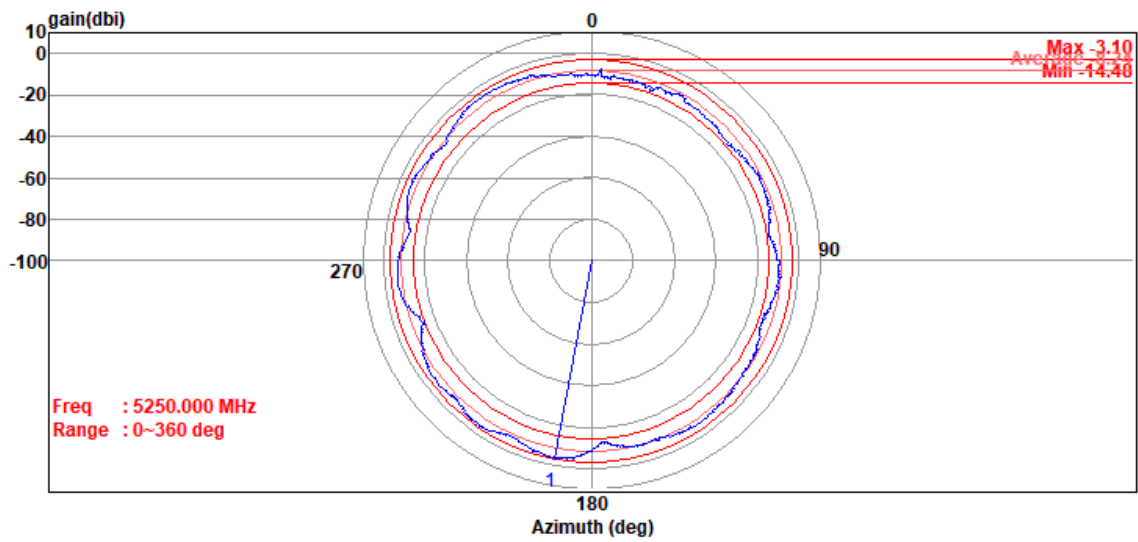


Figure 8

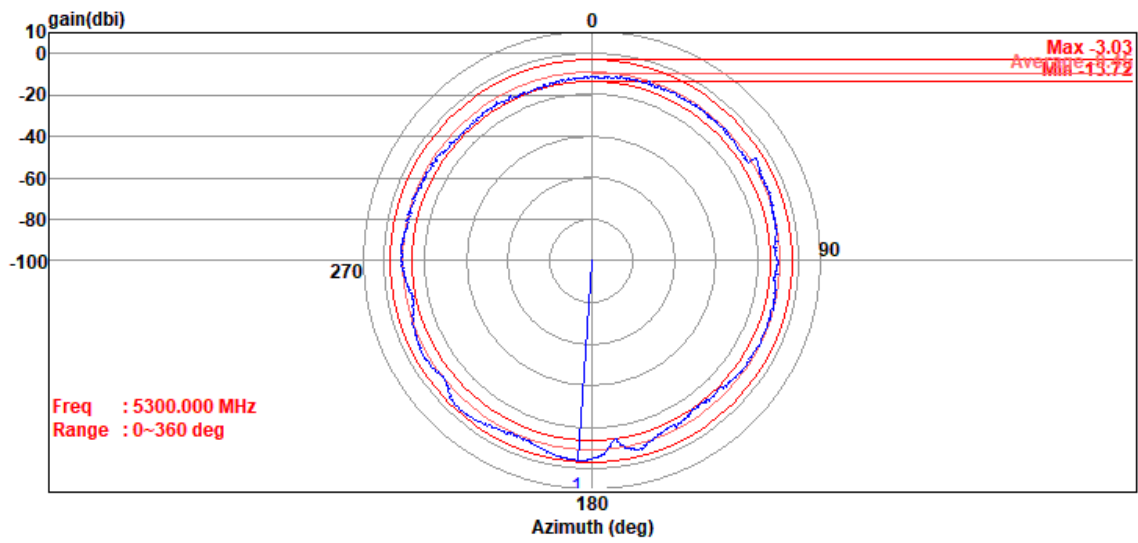


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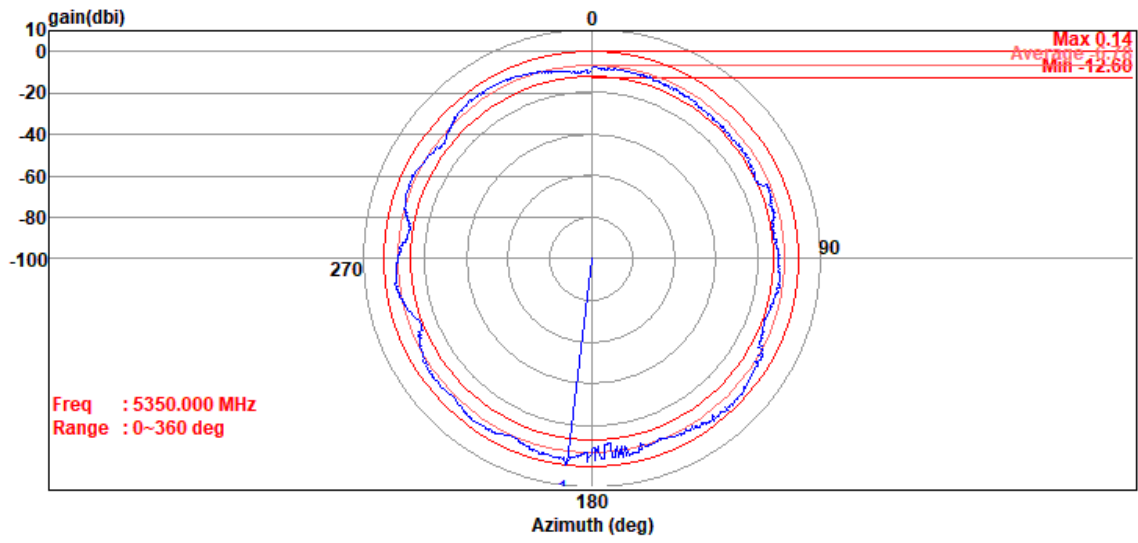


Figure 10

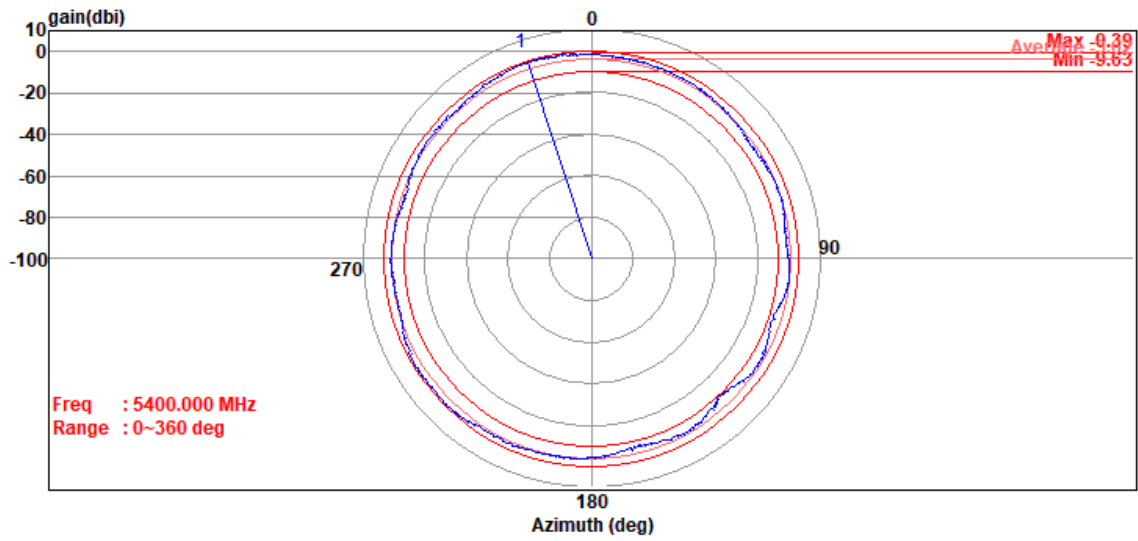


Figure 10=1

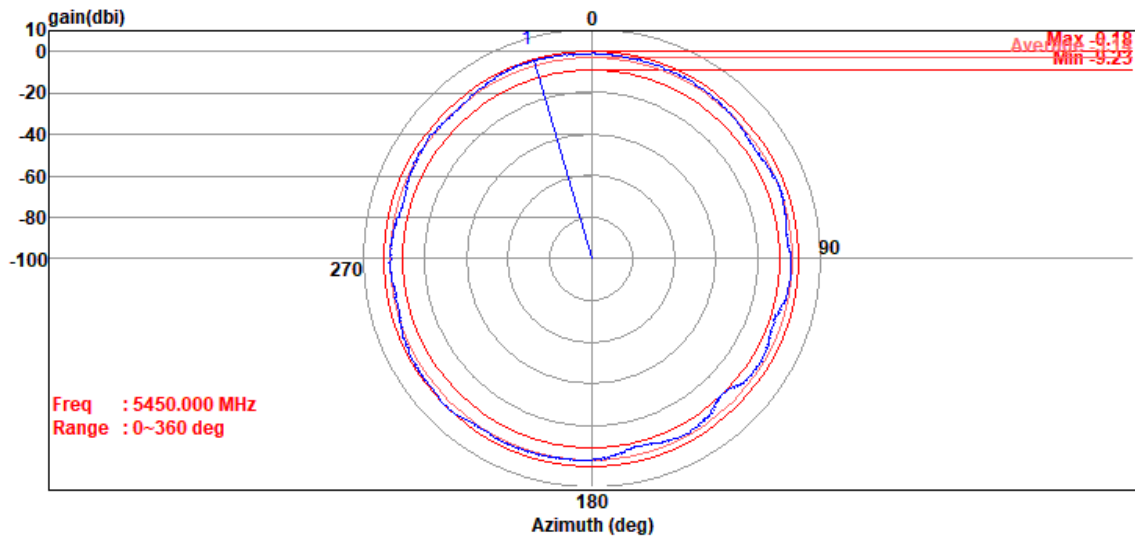


Figure 12

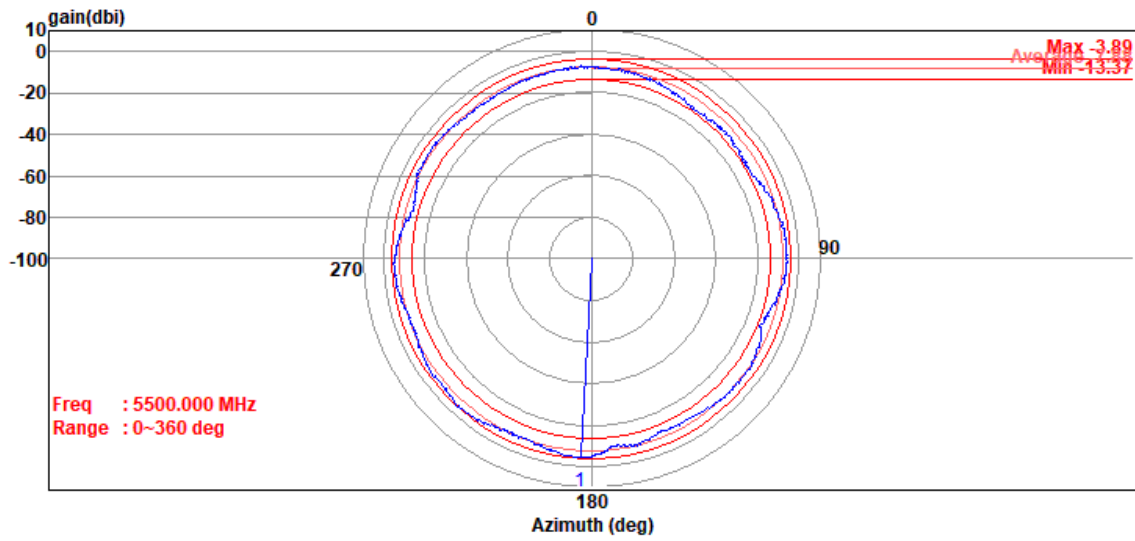


Figure 13

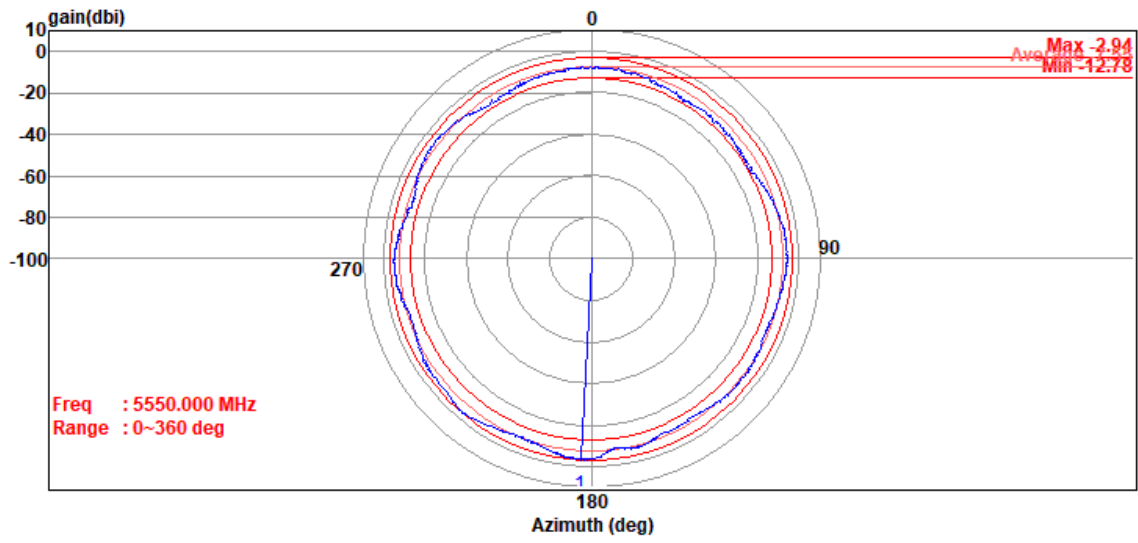


Figure 14

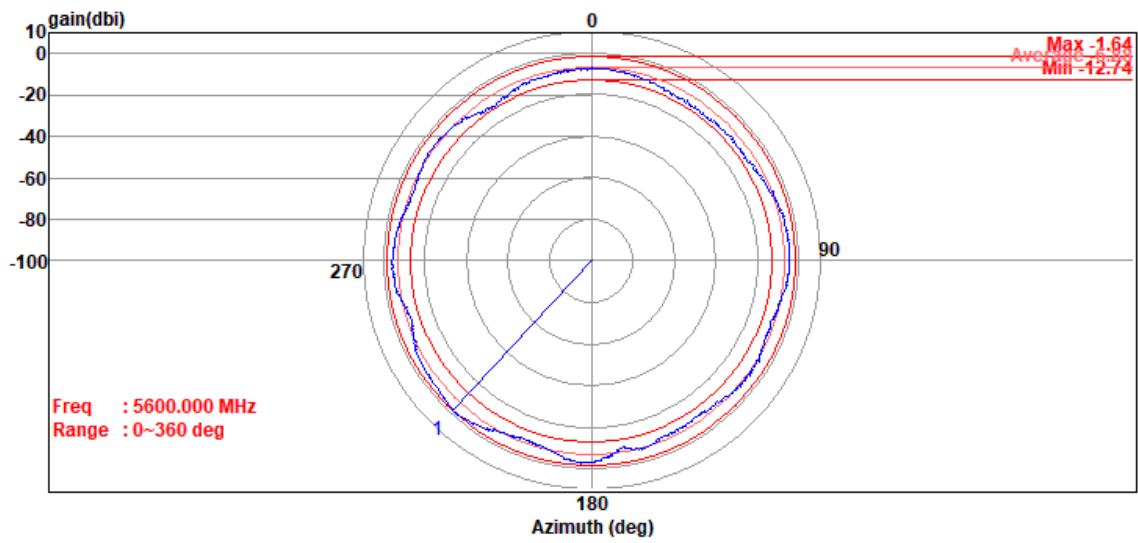


Figure 15

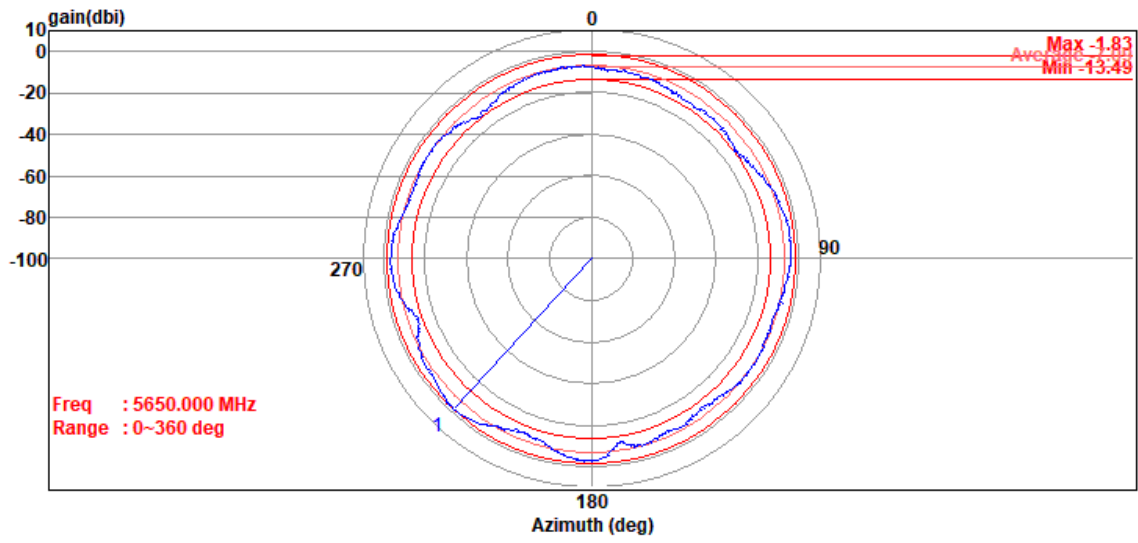


Figure 16

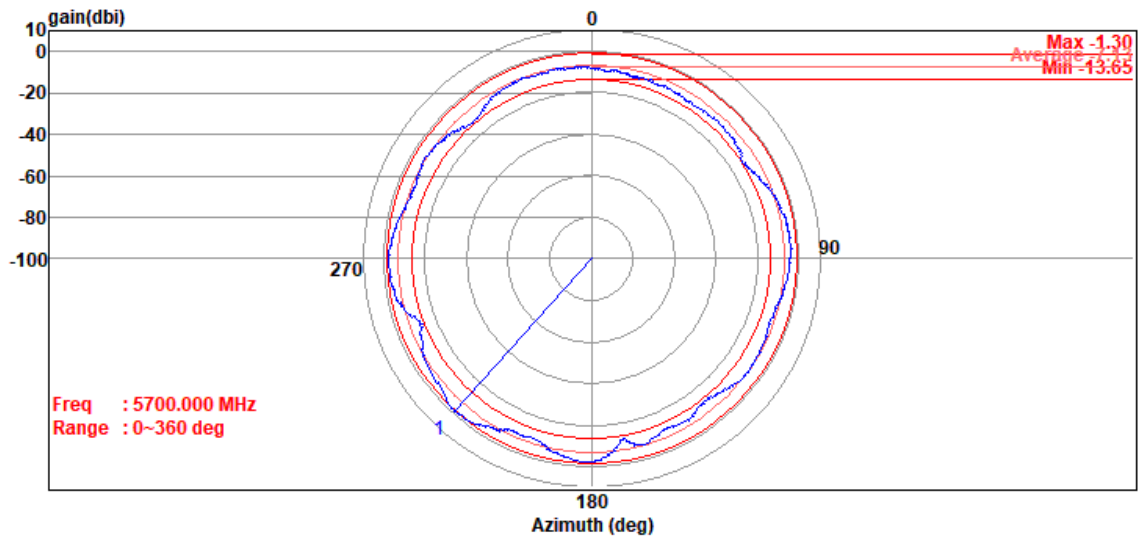


Figure 17

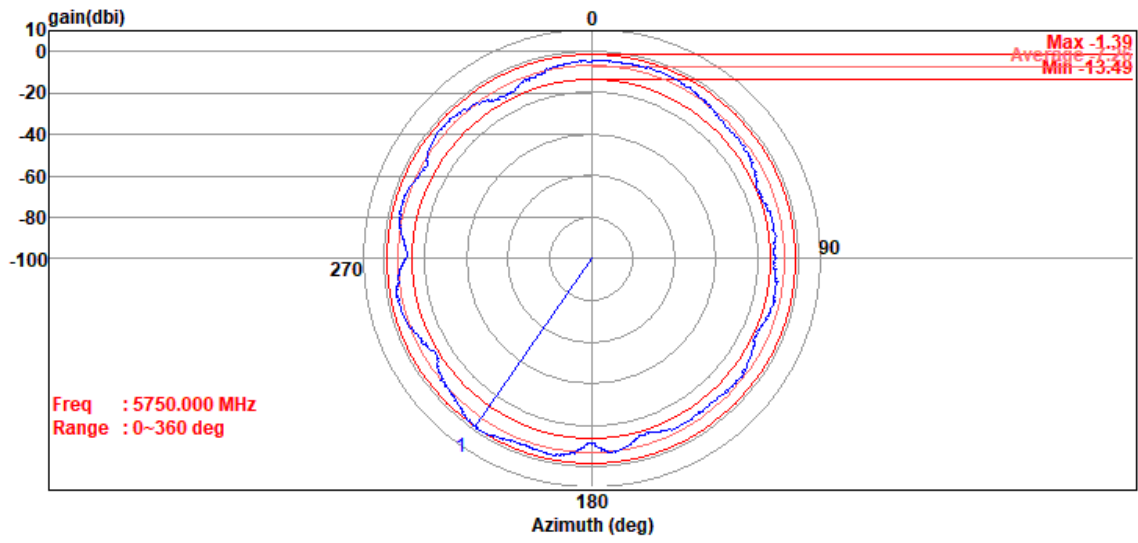


Figure 18

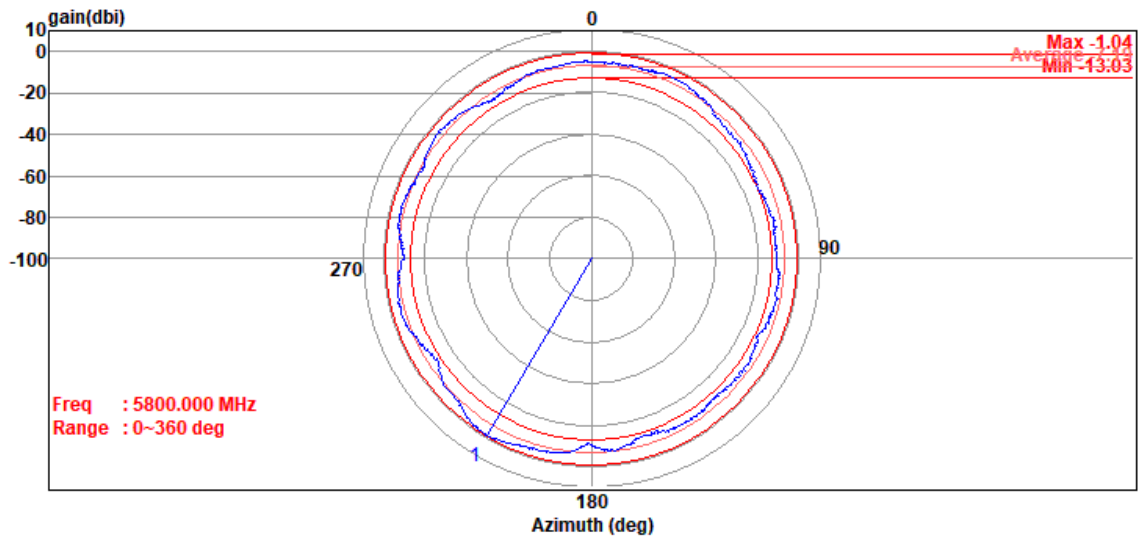


Figure 19

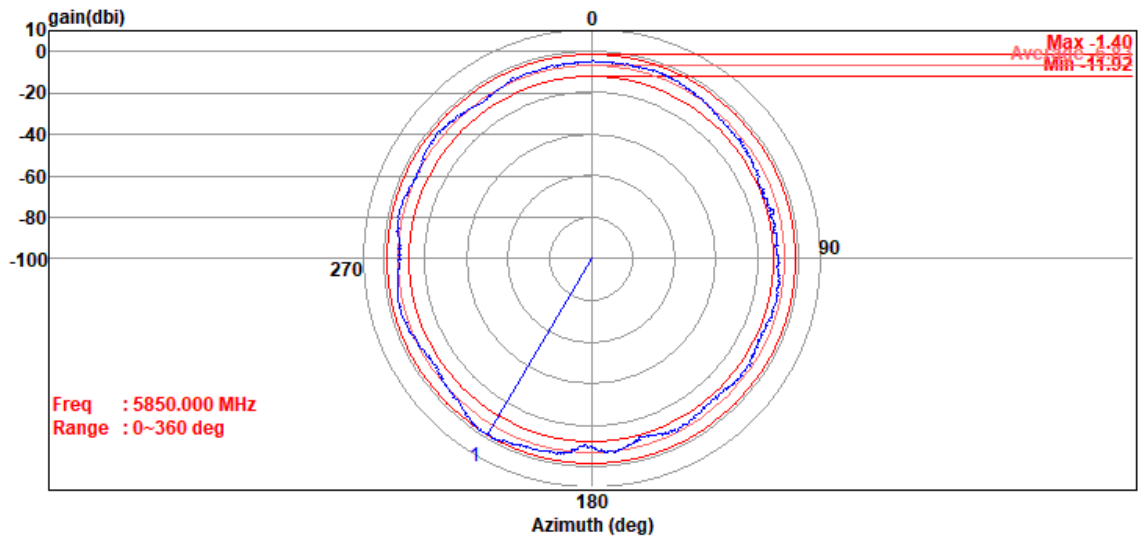


Figure 20

