

APPROVAL SHEET

CUSTOMER : 啟基

CUSTOMER'S PART NO. : 08.22130.001

DESCRIPTION : RF ANTENNA ASSEMBLY

PART NO. : EDA-2130-25GC4-A1

MT PID : 48995

DATE :

AUTHORIZED BY : *Alvin Chen*

	FULLY APPROVED	PARTIALLY APPROVED	REJECTED
SIGN			
SUGGESTION			

美磊科技股份有限公司

MAG. LAYERS SCIENTIFIC-TECHNICS CO., LTD

No.270, Nanfeng Rd., Pingzhen Dist., Taoyuan City 324, Taiwan (R.O.C.)

TEL: +886-3-4159111 FAX: +886-3-4192255

<http://www.maglayers.com.tw>

E-mail : info@maglayers.com.tw



MAG.LAYERS

Contents

Item	Description	Page
1.	Antenna Specification	 3
2.	Test Report	 4 ~13

無線技術



Antenna Specification

ELECTRICAL PROPERTIES

- 1.1 Frequency Range 2.4~2.5GHz/5.15~5.85GHz
- 1.2 Impedance 50 Ohm Nominal
- 1.3 Return Loss -4dB (Max)
- 1.4 VSWR 3.5(Max)
- 1.5 Radiation Omni-directional
- 1.6 Peak Gain 2.4~2.5GHz/3.36dBi
5.15~5.85GHz/6.01dBi
- 1.7 Efficiency..... 2.4~2.5GHz/66%
5.15~5.85GHz/57%
- 1.8 Polarization Linear
- 1.9 Admitted Power 1W

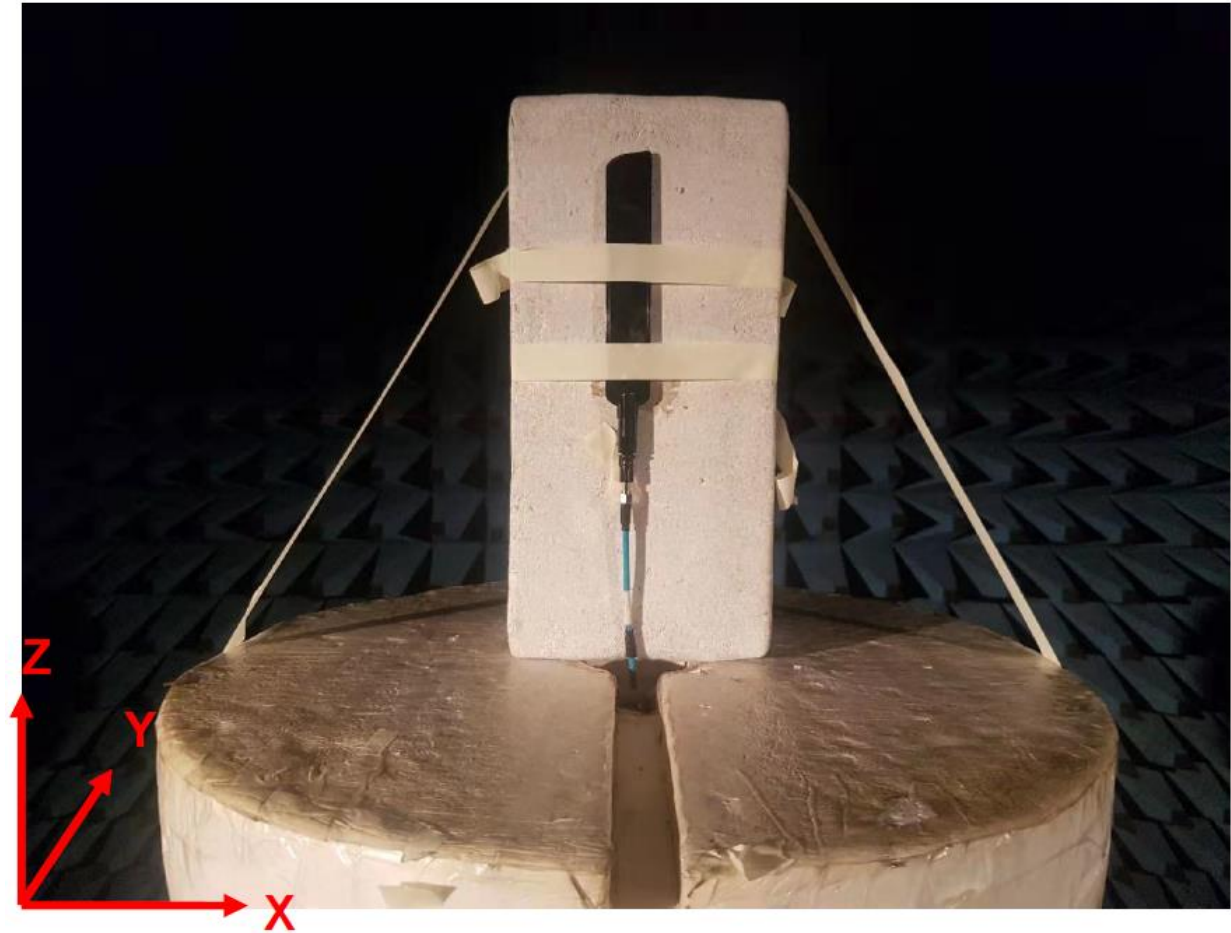
PHYSICAL PROPERTIES

- 2.1 Coaxial Cable Coaxial Cable Ø1.37 (Black)
- 2.2 Connector RP SMA Male
- 2.3 Operating Temp..... -20°C ~ +65°C
- 2.4 Storage Temp..... -30°C ~ +75°C



Test Report

■ EXPERIMENTAL SETUP

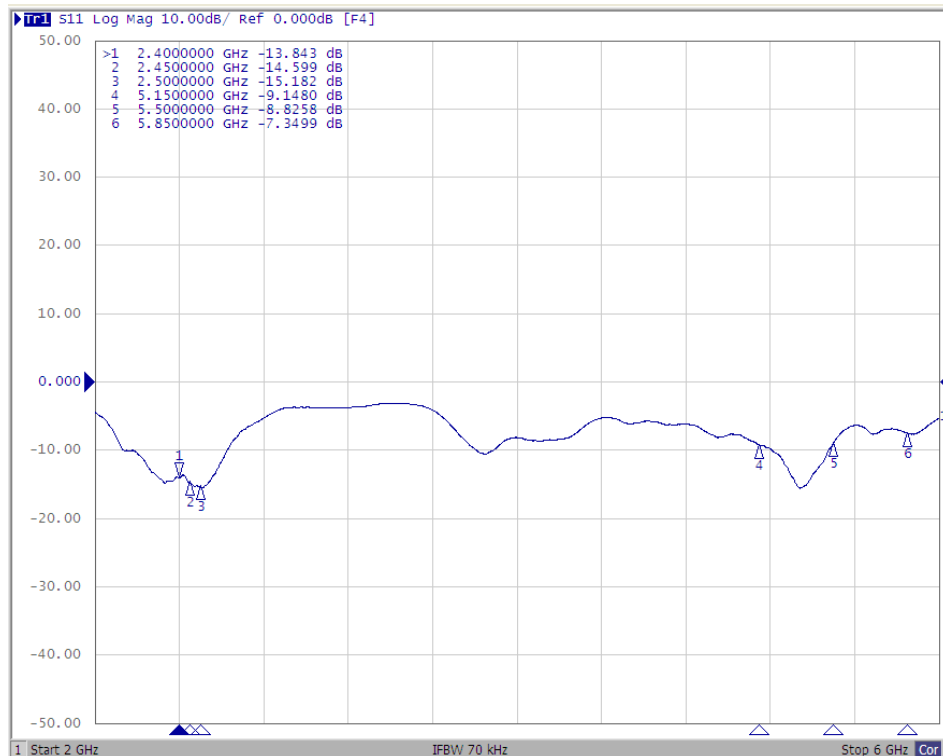


ELECTRICAL CHARACTERISTICS

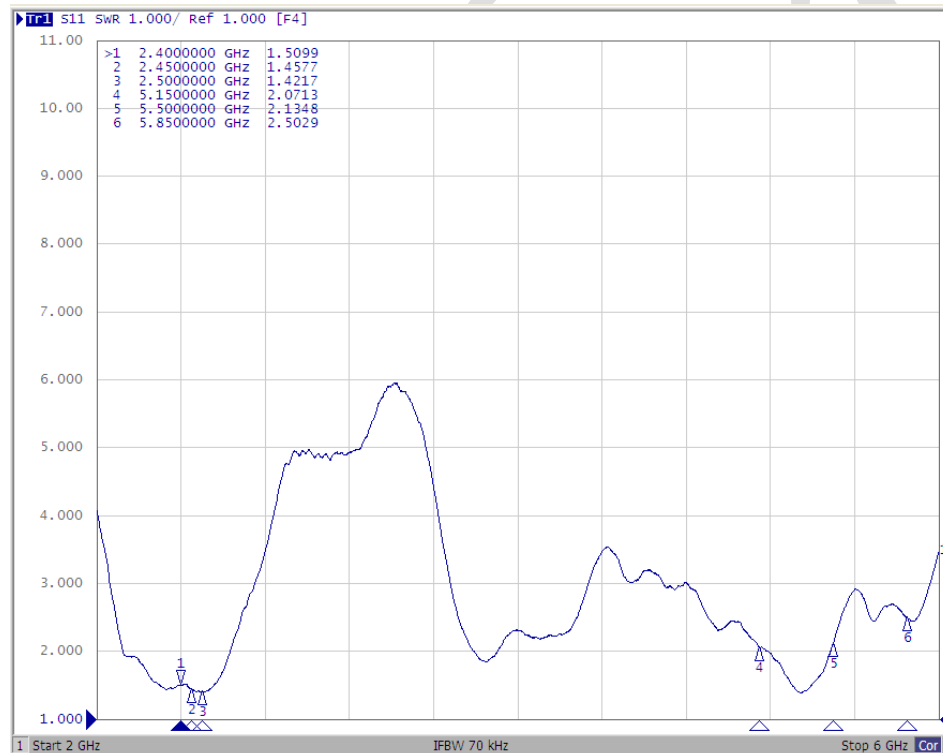
P/NO: EDA-2130-25GC4-A1

Spec: 2.4~2.5GHz/5.15~5.85GHz

Return Loss

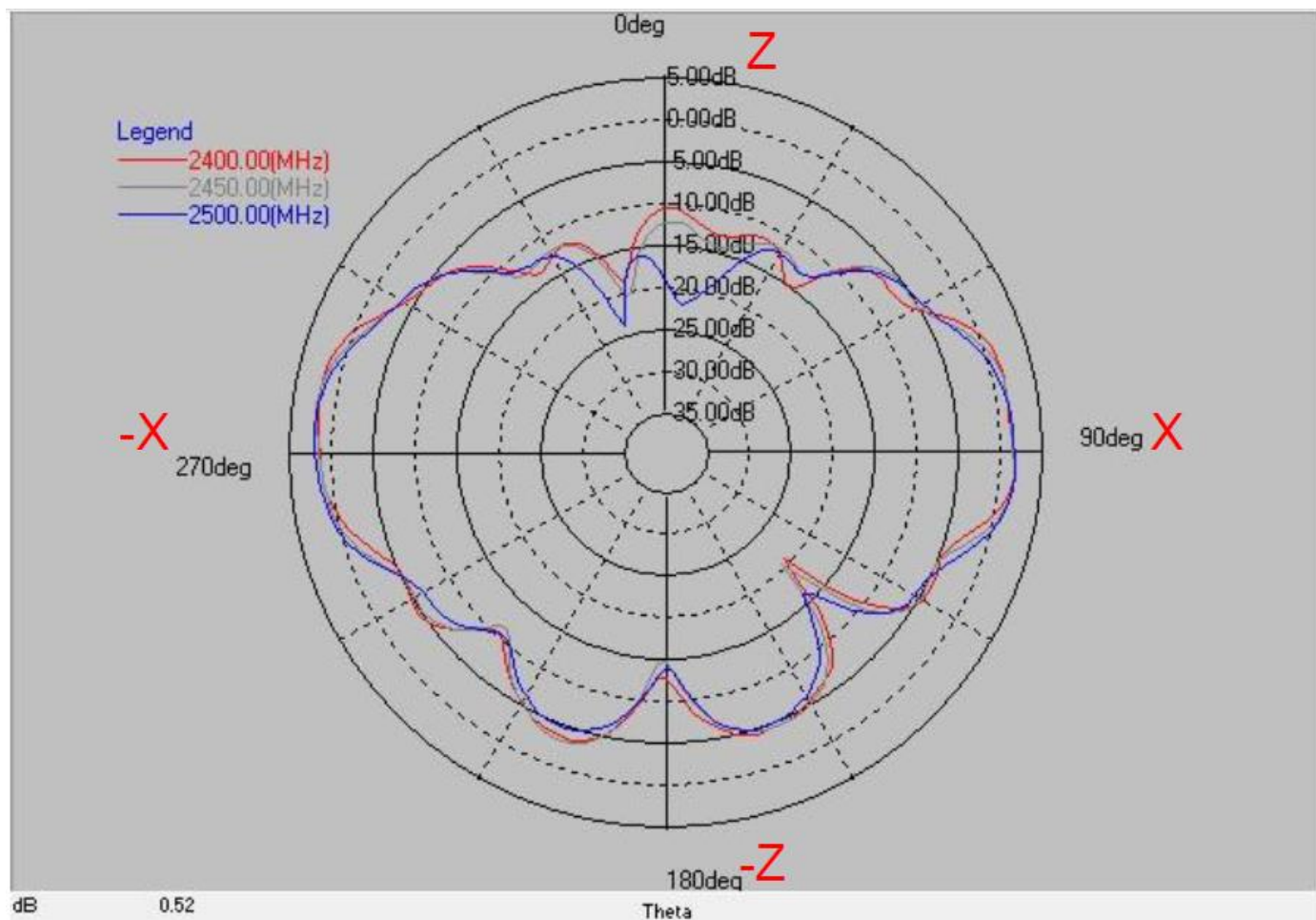


VSWR



MAG.LAYERS

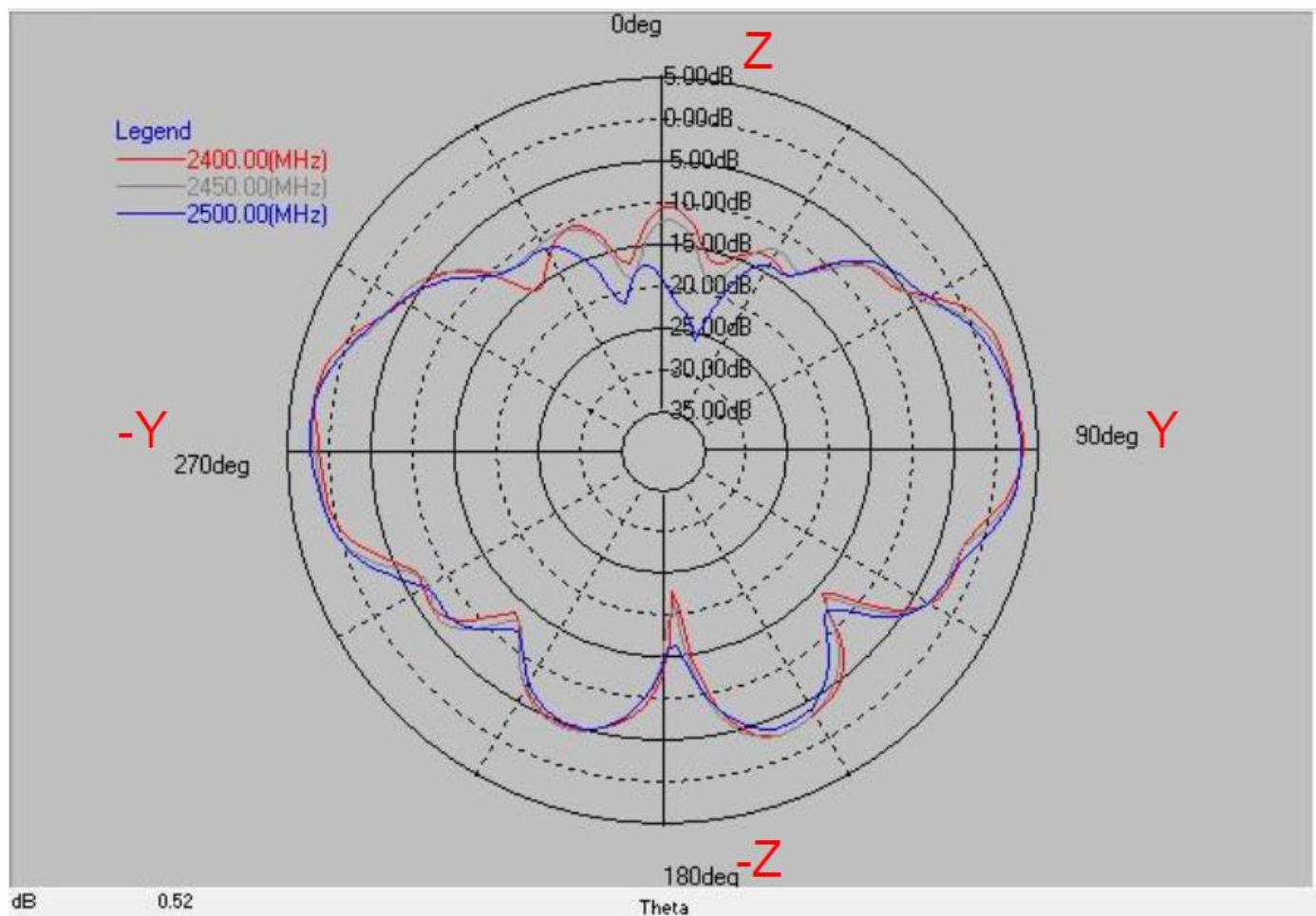
Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
2400(MHz)	2.07 dB	-21.08 dB	-3.69 dB
2450(MHz)	2.12 dB	-20.63 dB	-3.68 dB
2500(MHz)	2.12 dB	-23.95 dB	-3.79 dB



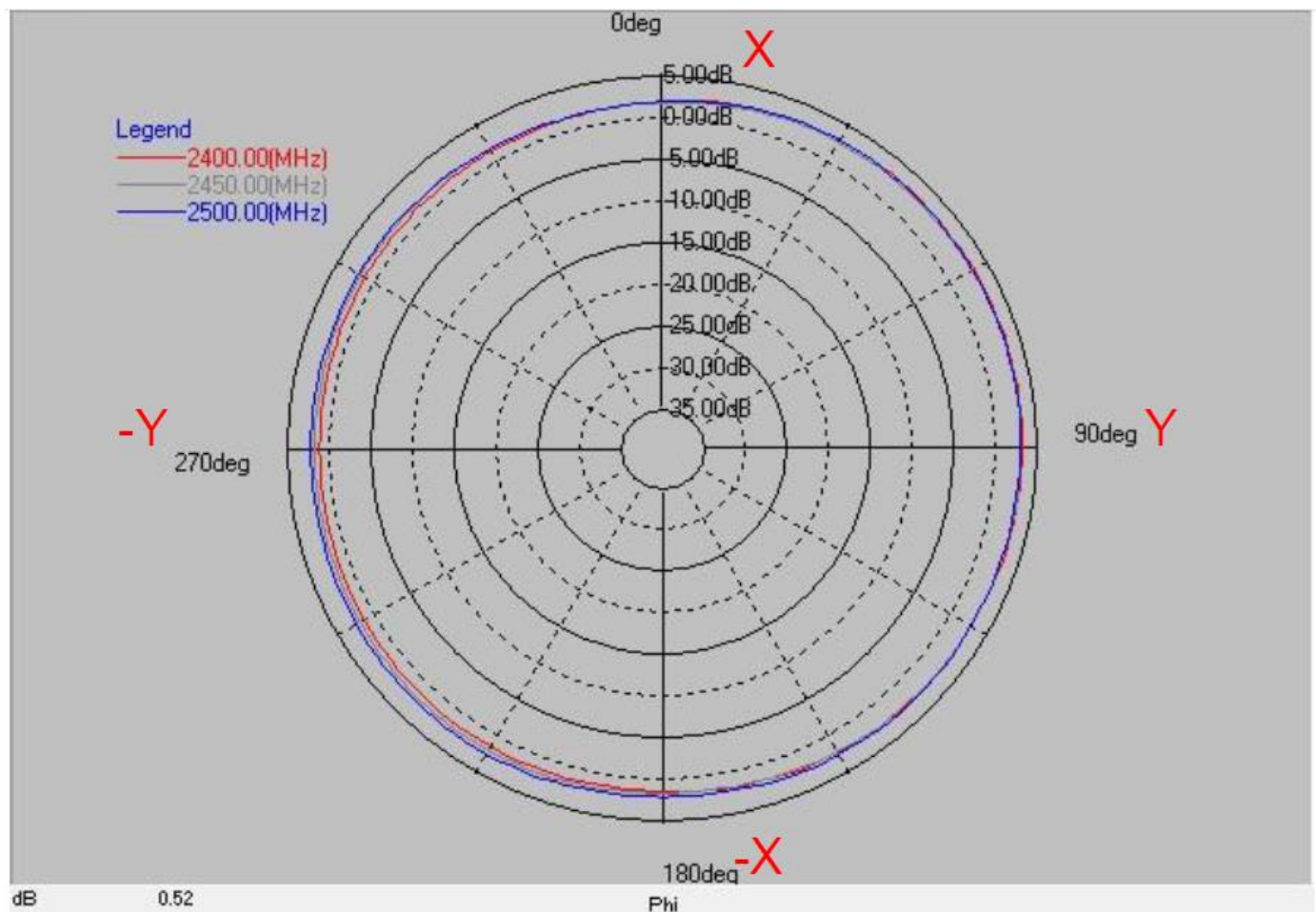
Frequency(MHz) : 2400~2500. Pattern Field : Z-Y plane



Layer	Max value	Min value	Average
2400(MHz)	3.33 dB	-23.07 dB	-3.11 dB
2450(MHz)	3.18 dB	-21.59 dB	-3.10 dB
2500(MHz)	3.16 dB	-26.24 dB	-3.14 dB



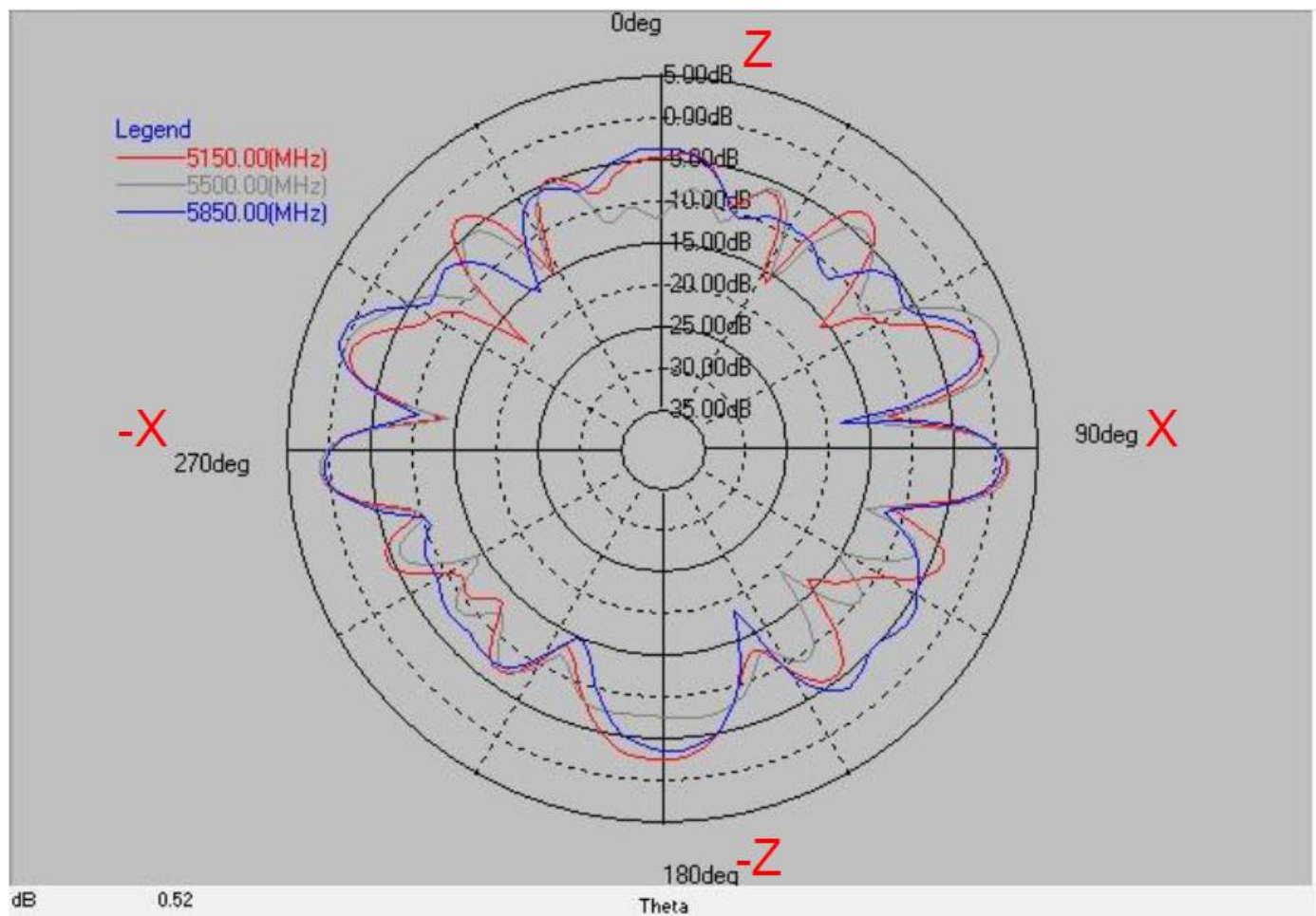
Frequency(MHz) : 2400~2500. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	3.36 dB	1.18 dB	2.08 dB
2450(MHz)	3.18 dB	1.43 dB	2.19 dB
2500(MHz)	3.18 dB	1.44 dB	2.44 dB



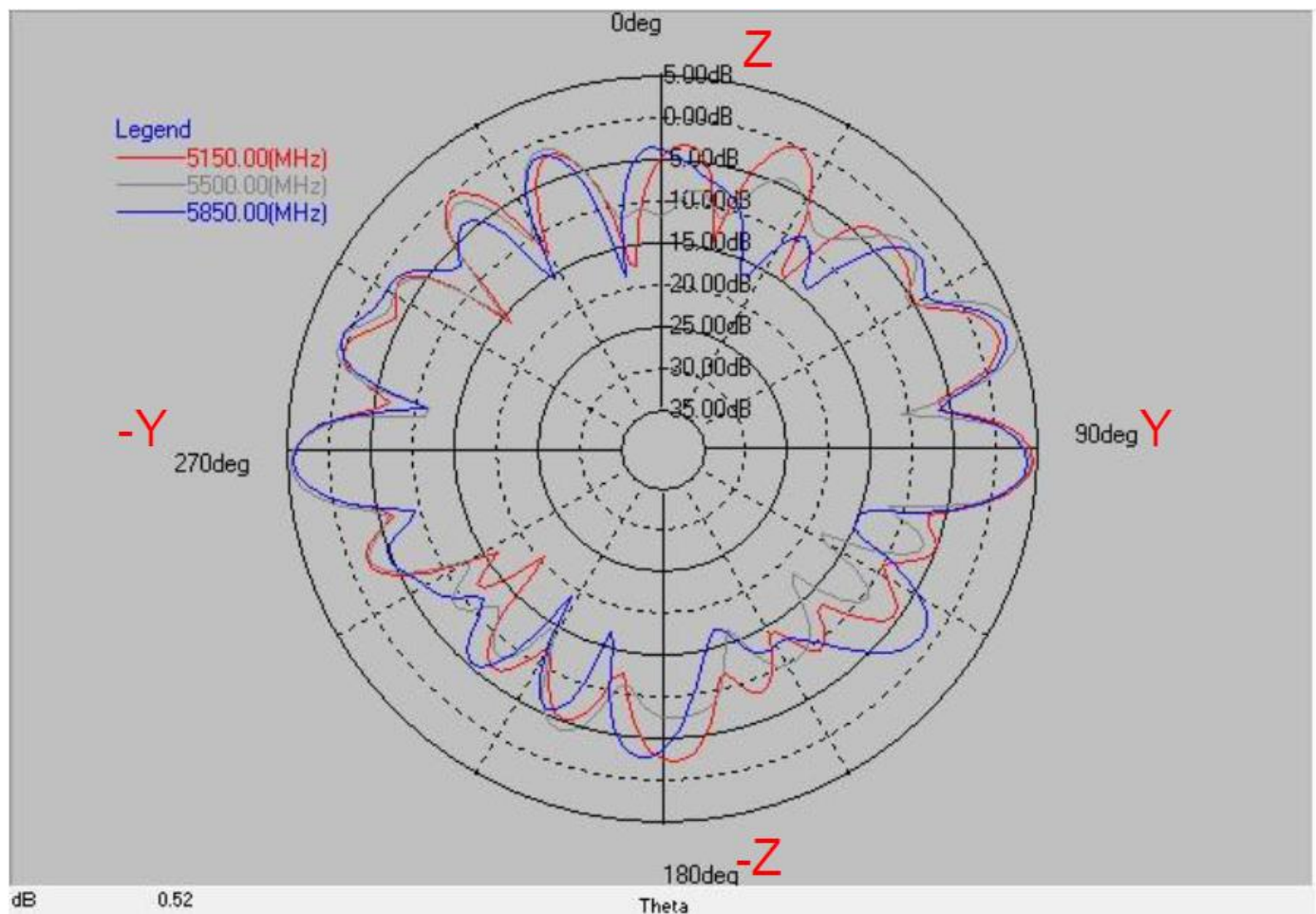
Frequency(MHz) : 5150~5850. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
5150(MHz)	1.41 dB	-19.34 dB	-5.19 dB
5500(MHz)	2.35 dB	-19.45 dB	-5.45 dB
5850(MHz)	0.89 dB	-18.80 dB	-5.03 dB



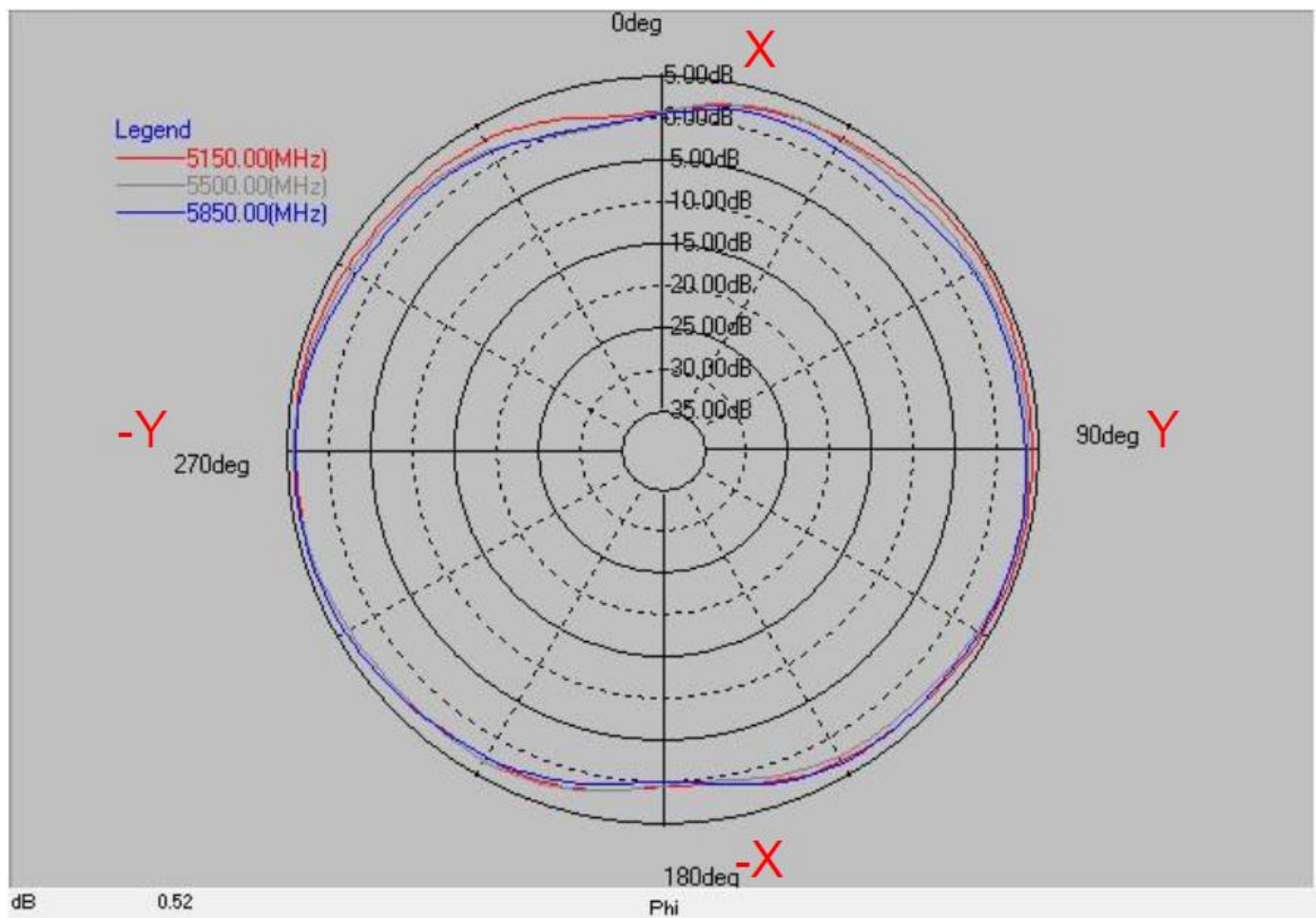
Frequency(MHz) : 5150~5850. Pattern Field : Z-Y plane



Layer	Max value	Min value	Average
5150(MHz)	4.55 dB	-20.85 dB	-3.17 dB
5500(MHz)	4.90 dB	-18.34 dB	-3.21 dB
5850(MHz)	4.41 dB	-19.18 dB	-3.33 dB



Frequency(MHz) : 5150~5850. Pattern Field : X-Y plane

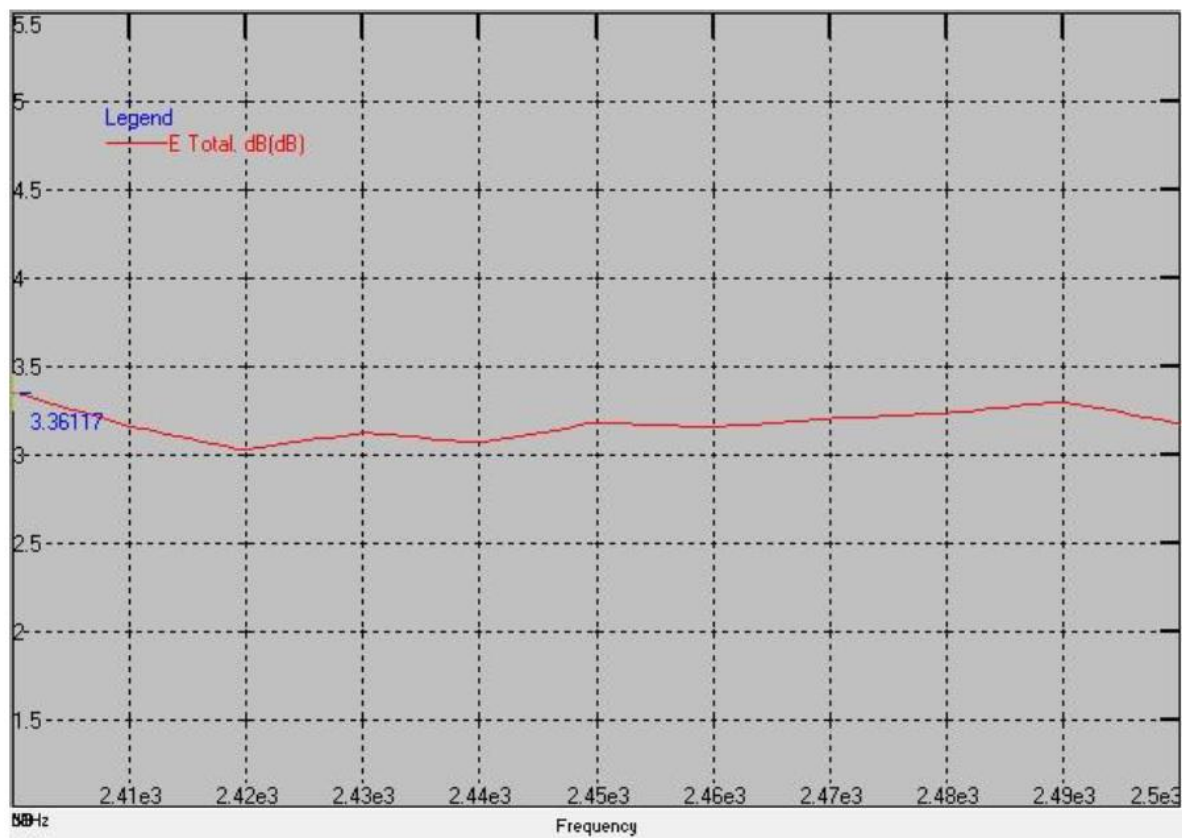


Layer	Max value	Min value	Average
5150(MHz)	4.49 dB	0.28 dB	3.26 dB
5500(MHz)	4.27 dB	-0.65 dB	2.84 dB
5850(MHz)	4.26 dB	-0.44 dB	2.64 dB

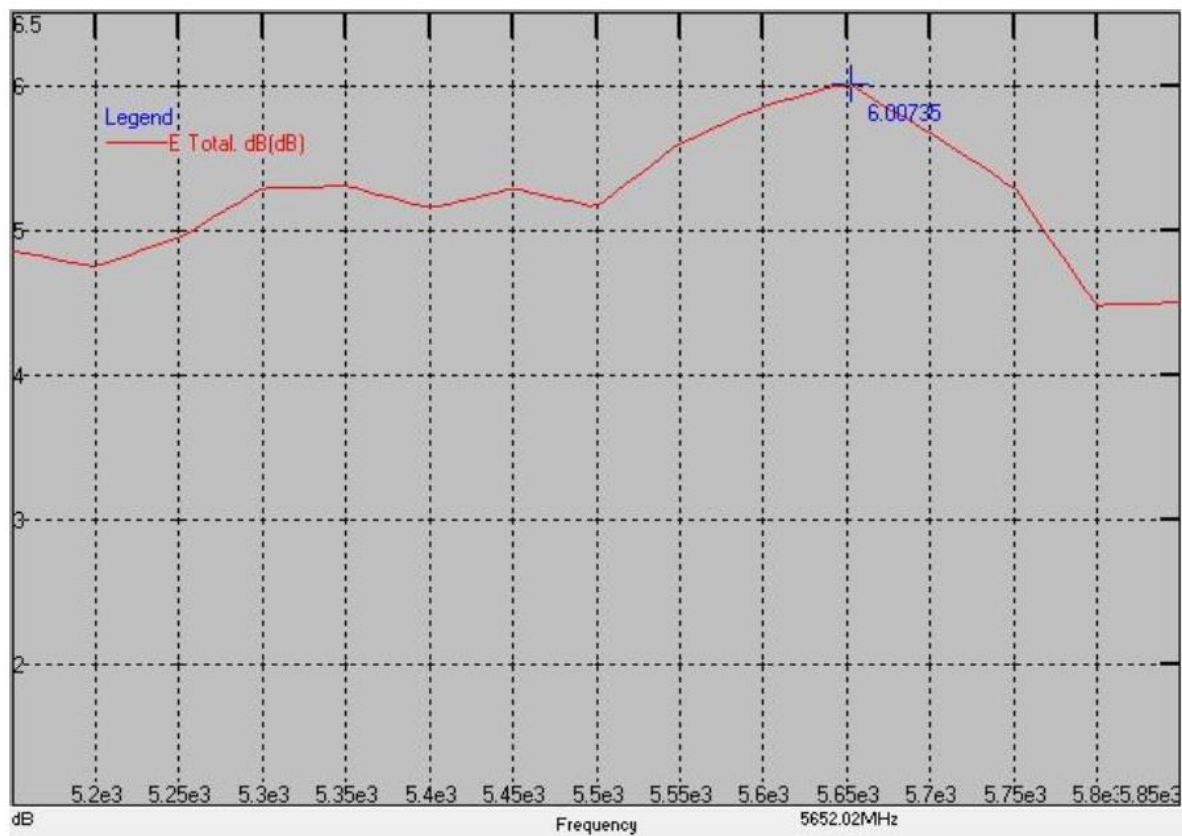


Peak Gain.

2G



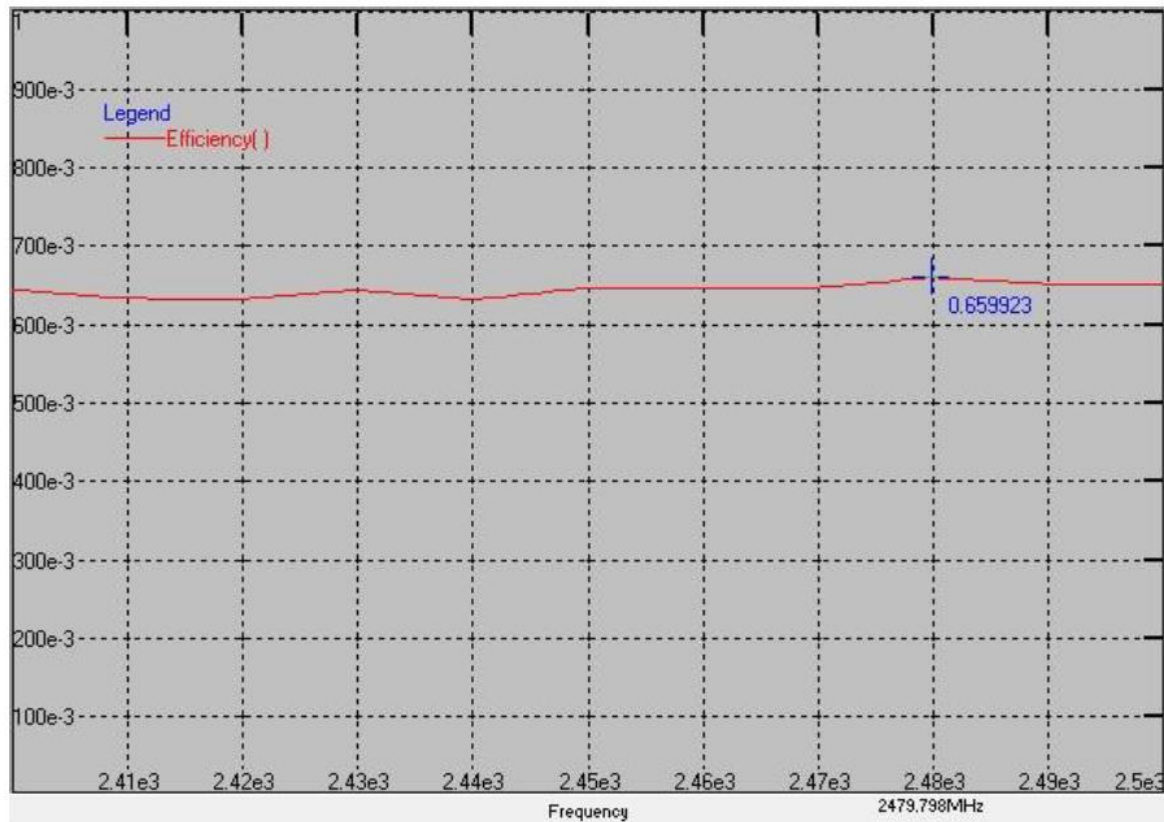
5G



MAG.LAYERS

Efficiency

2G



5G

