KB64A/B/C
Antenna Specification

Revision 1.0.0
Oct. 27th, 2016

Revision History

Revision	Date	Description
V1.0.0	2016/Oct/27	Initial release

Content

1. Module Antenna

Frequency: 2400MHz ~ 2483.5MHz
Antenna Type: PCB antenna
Impedance: 50ohm

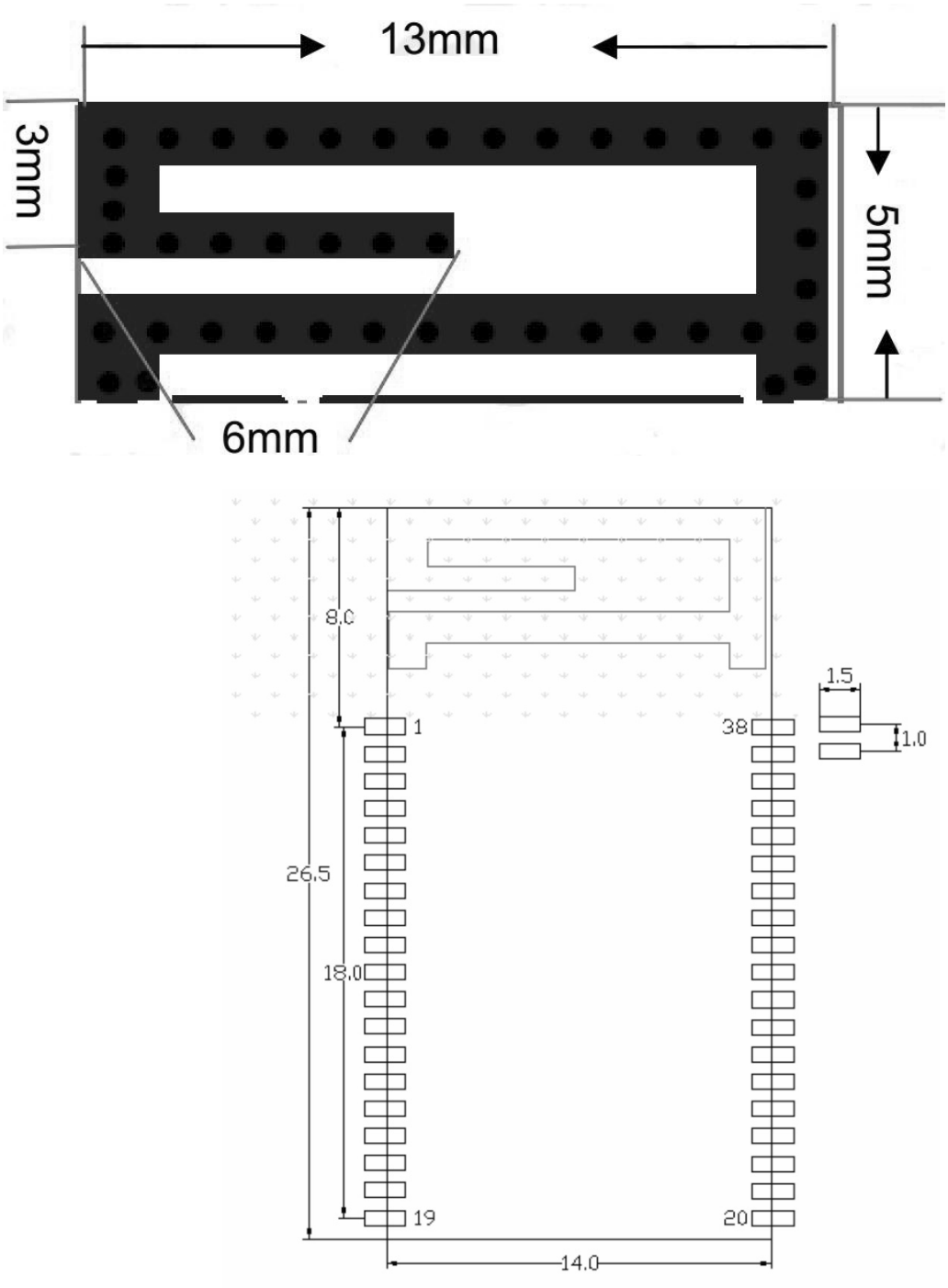

Fig 1. Dimension of KB64ABC Antenna

2. Coordinate System and Test Environment

2.1 List Of Test Equipments

No.	Type	Specification
1	E5071B Vector Network Analyzer	Manufacturer: Agilent
2	4*4*4 Full Anechoic Chamber	Manufacturer: Satimo
3	Antenna Measurement System	Manufacturer: Satimo

2.2 Environmental Conditions

Test Environment Conditions:

Relative Humidity:	25… 75%
Temperature:	+10 Degree of C to +30 Degree of C

2.3 Coordinate System and Setup

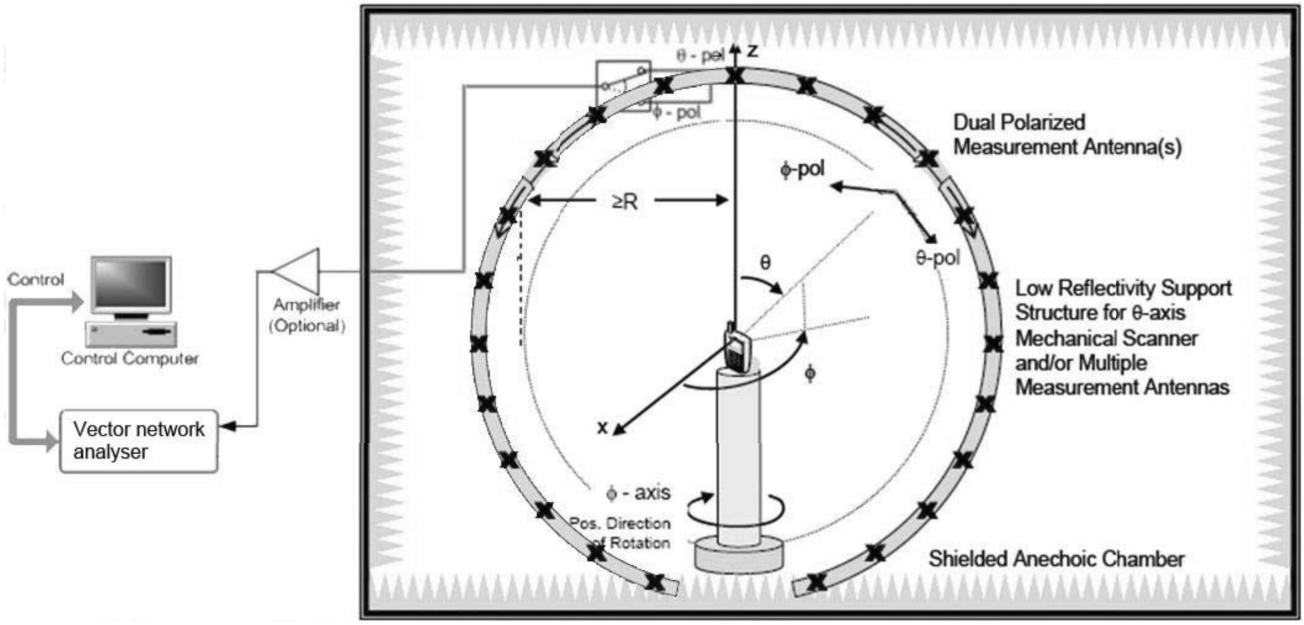

Fig 2. Measurement coordinate system

Fig 3. DUT in Test Environment

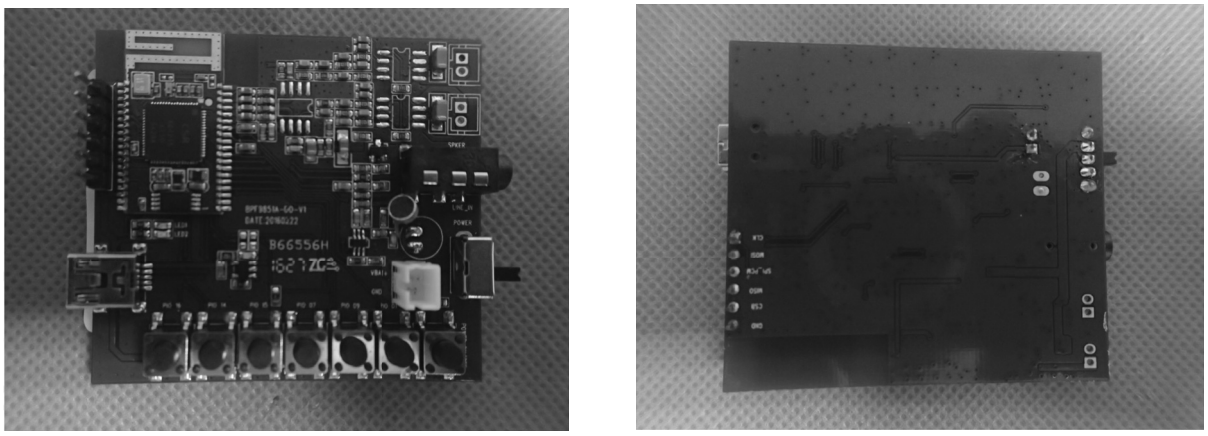

Fig 4. EUT front and back

3. Measurement Result

3.1 2D Radiation Pattern

3.1.1 Phi = 0 Degree

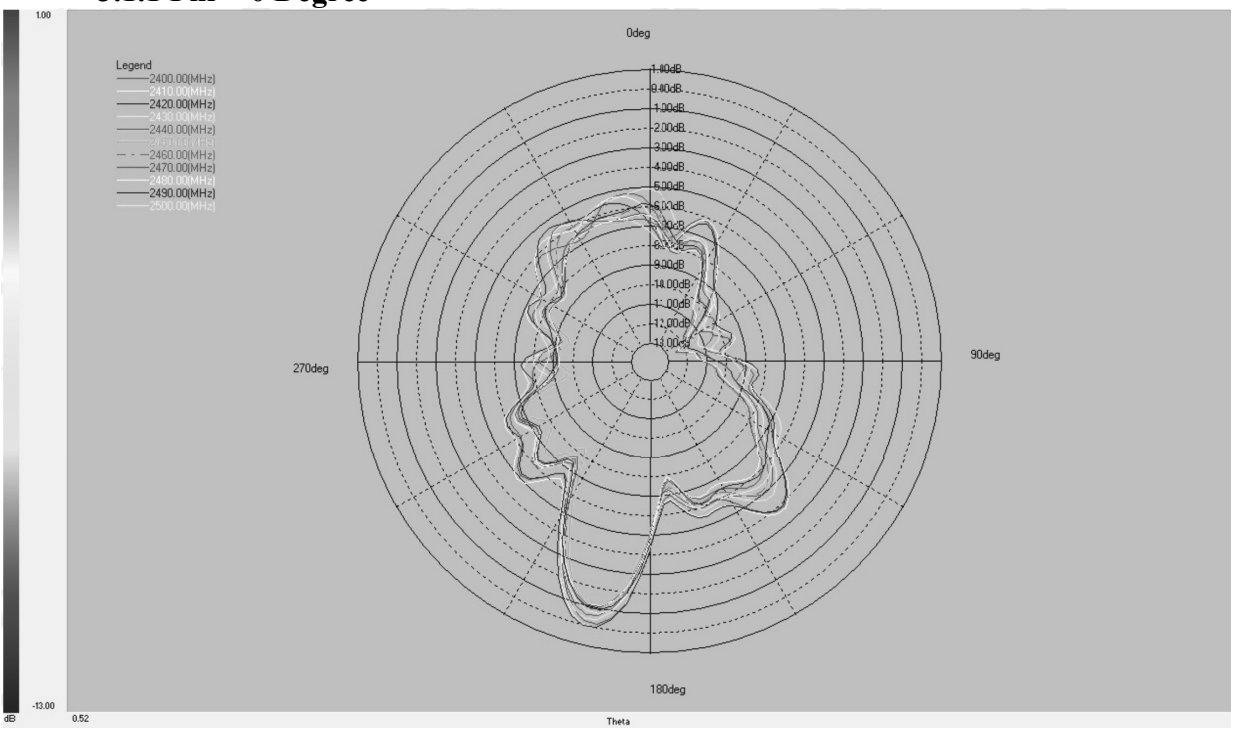

Fig 5. 2D Radiation Pattern Phi = 0 Degree 2400MHz to 2500MHz

3.1.2 Phi = 90 Degree

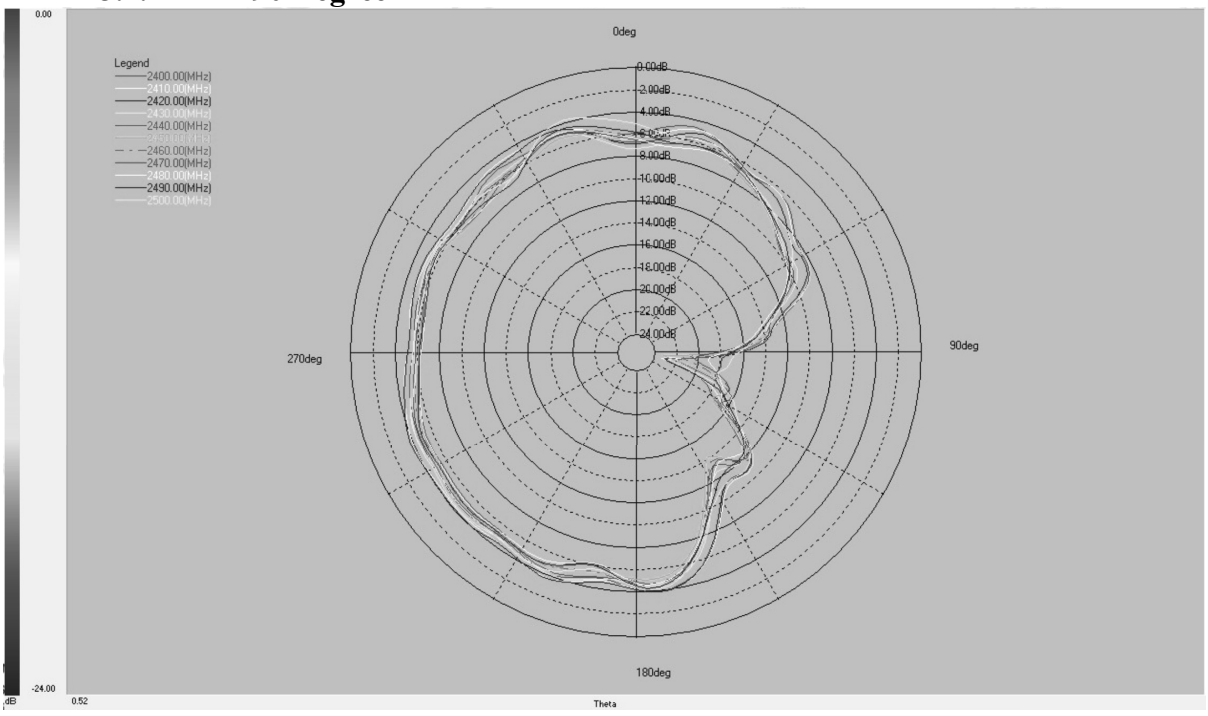

Fig 6. 2D Radiation Pattern Phi = 90 Degree 2400MHz to 2500MHz

3.1.3 Theta = 90 Degree

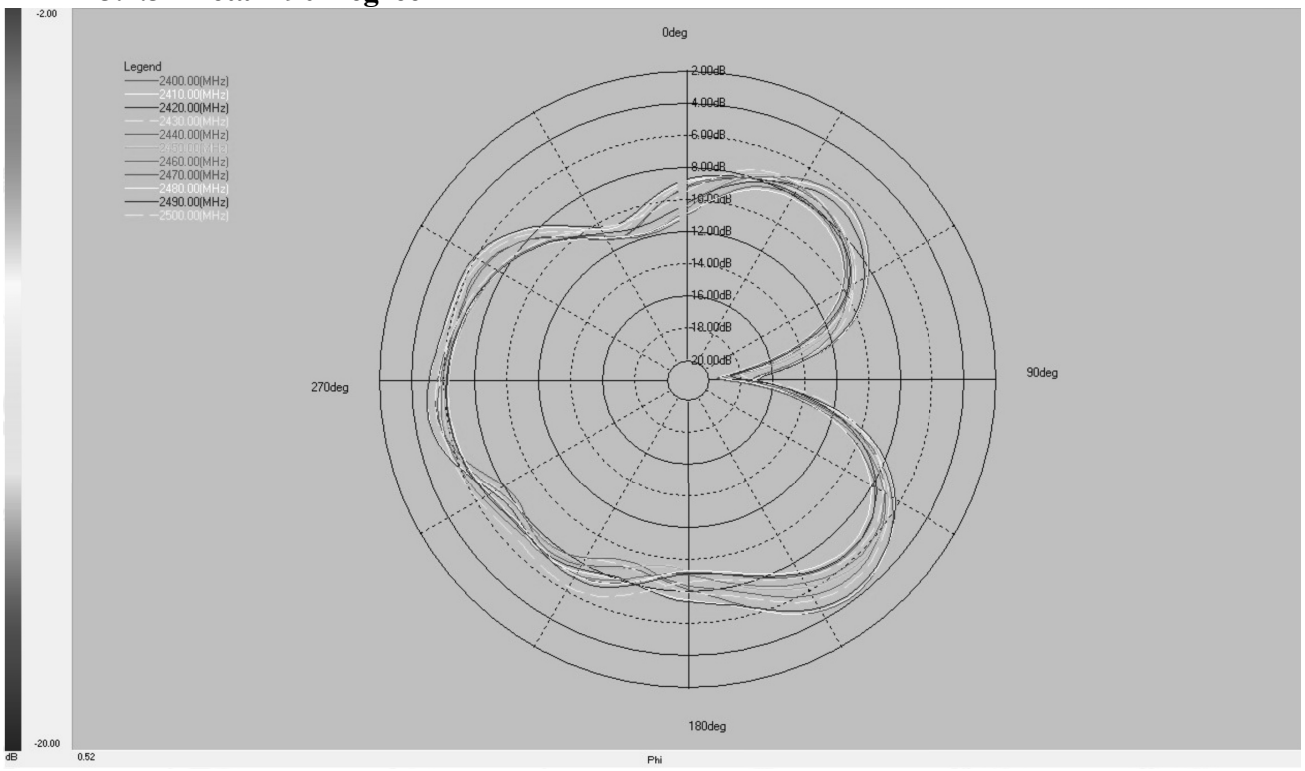

Fig 7. 2D Radiation Pattern Theta = 90 Degree 2400MHz to 2500MHz

3.2 3D Radiation Pattern

3.2.1 Test Result in 2402MHz

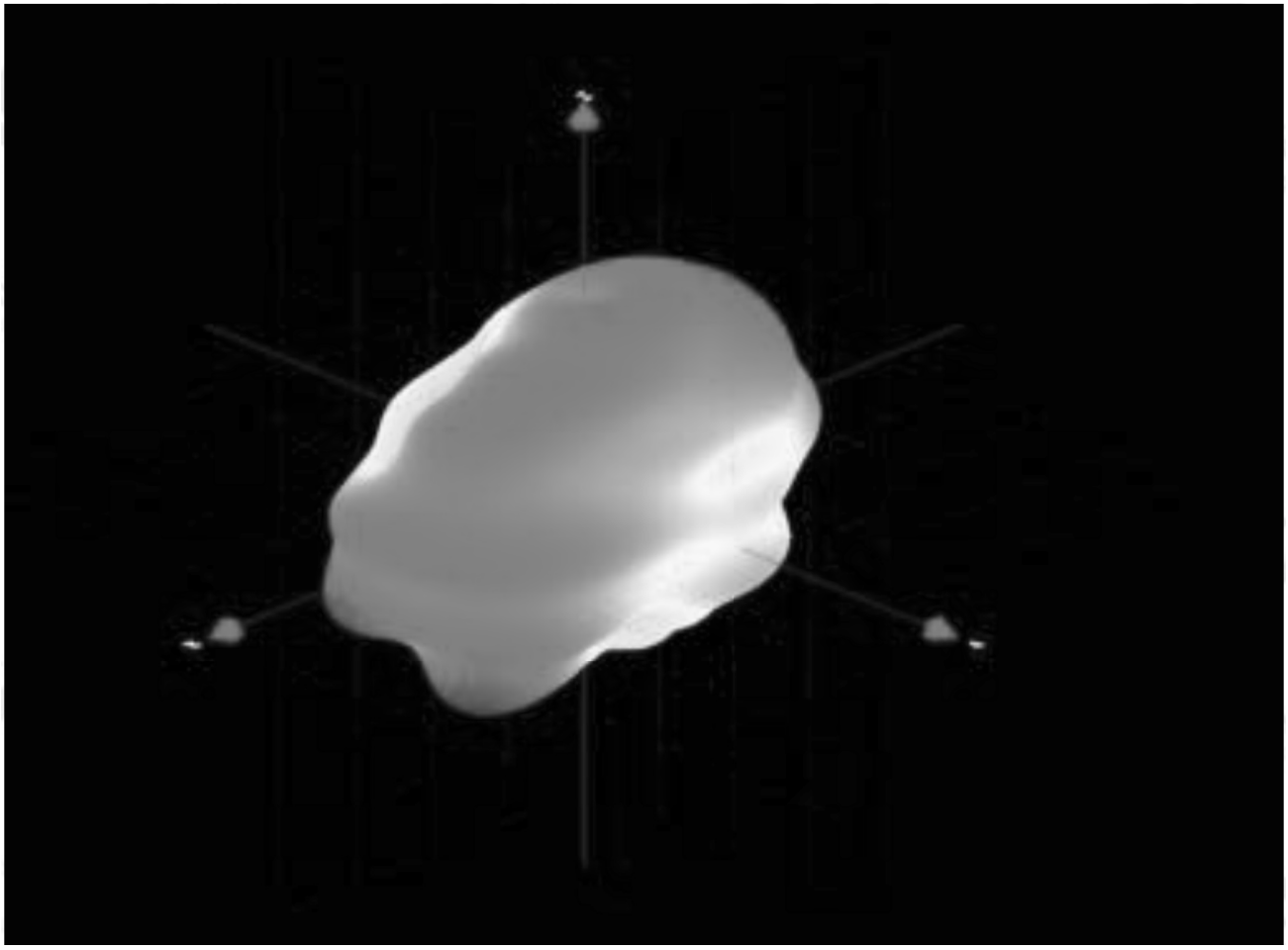

Fig 8. 3D Radiation Pattern in 2402MHz

3.2.2 Test result in 2440MHz

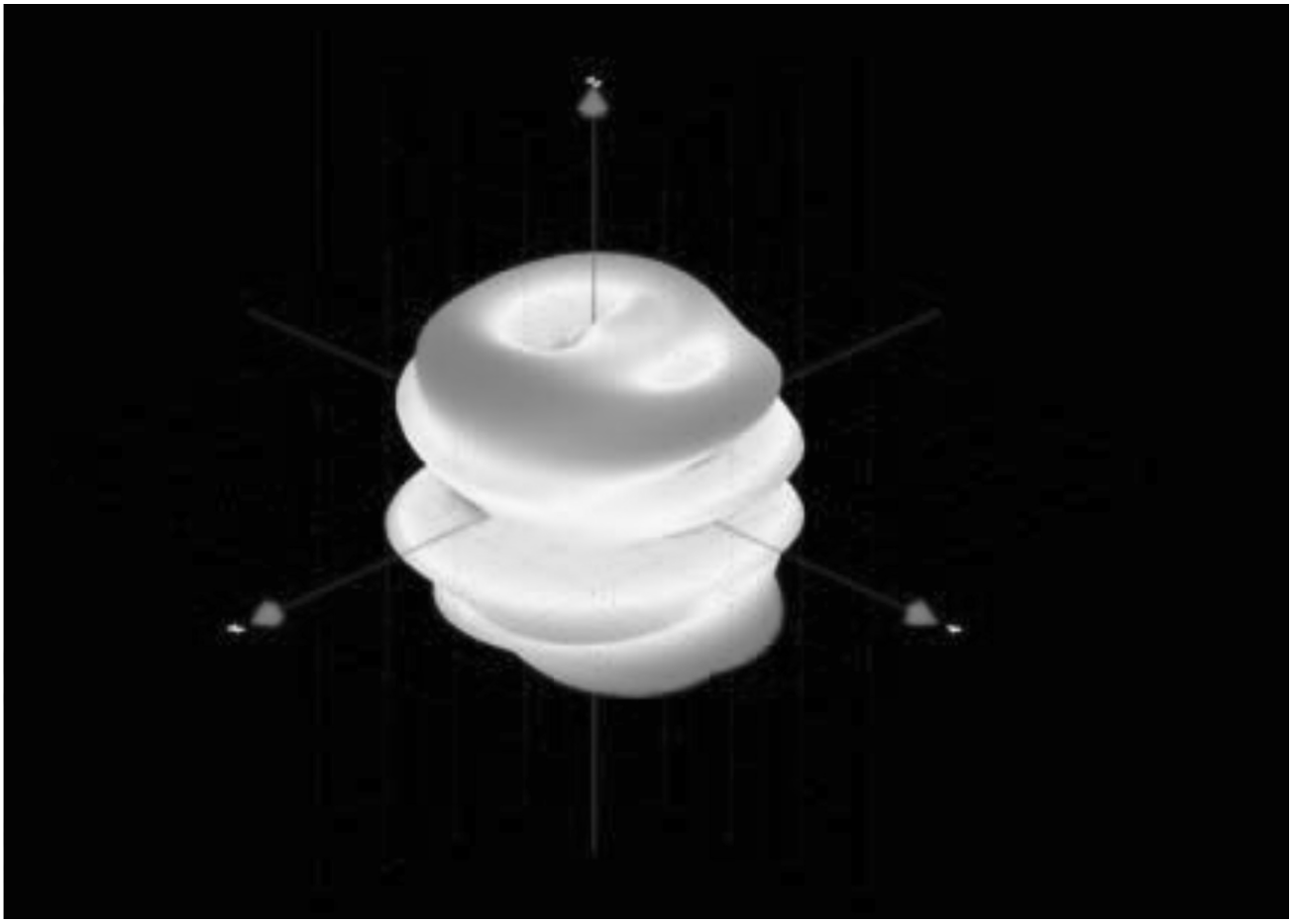

Fig 9. 3D Radiation Pattern in 2440MHz

3.2.3 Test Result in 2480MHz

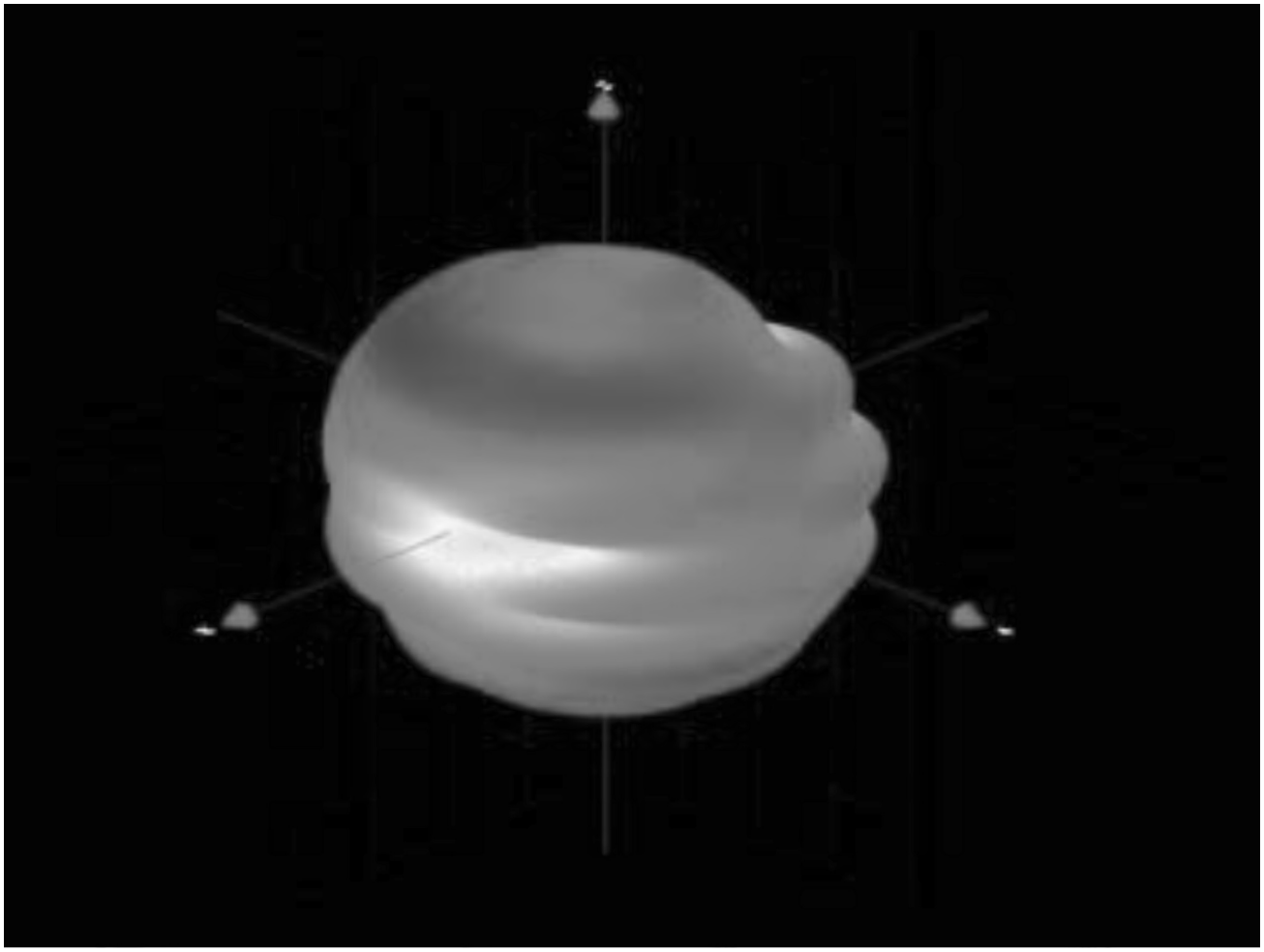

Fig 10. 3D Radiation Pattern in 2480MHz

3.3 Power Gain Result

Frequency	Gain (dBi)
2402MHz	0.11
2440MHz	-0.32
2480MHz	-1.02

4. Reference Documents

No	Identity	Document Title
1	IEEE149-1979	IEEE Standard Test Procedure

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