

APPROVAL SHEET

MODEL : FIDGET
Antenna layout

Review	Consent	Approval
		
		RadiNa Co. ,Ltd



RadiNa Co. ,Ltd

TEL: +82-2-463-0373

FAX: +82-2-463-0374

1. Product Information

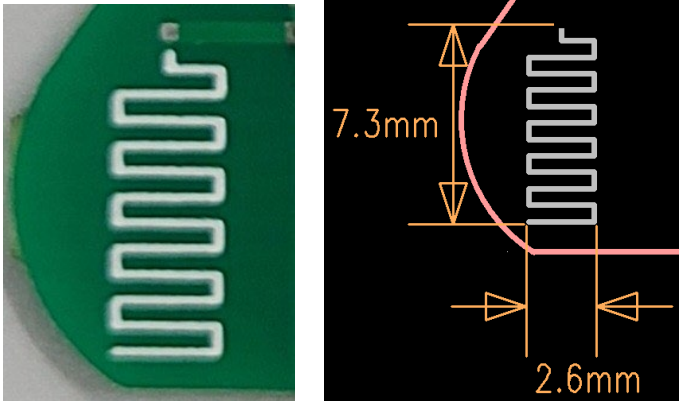
1.1 General Features

Antenna Type	PCB Pattern Antenna
Applications	Bluetooth

1.2 Electrical Specifications

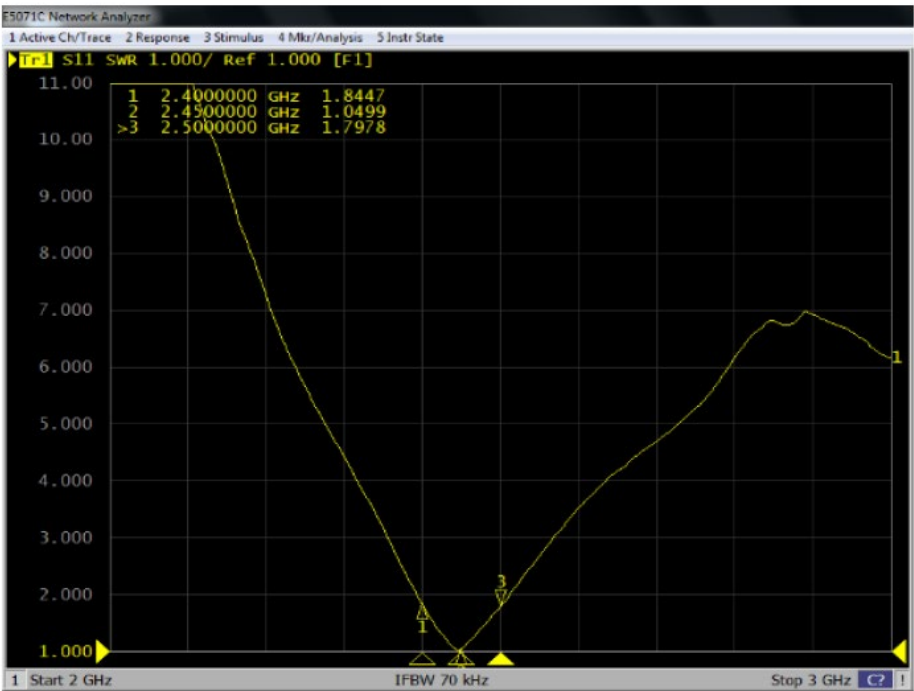
Frequency Range (TX)		2400MHz ~ 2485MHz	
Frequency Range (RX)		2400MHz ~ 2485MHz	
Impedance		50 Ω	
VSWR	TX	2400MHz	2485MHz
		3 ↓	3 ↓
	RX	2400MHz	2485MHz
		3 ↓	3 ↓
Radiation Pattern		Omni-directional	
Polarization		Linear	

1.3 Pattern Specifications

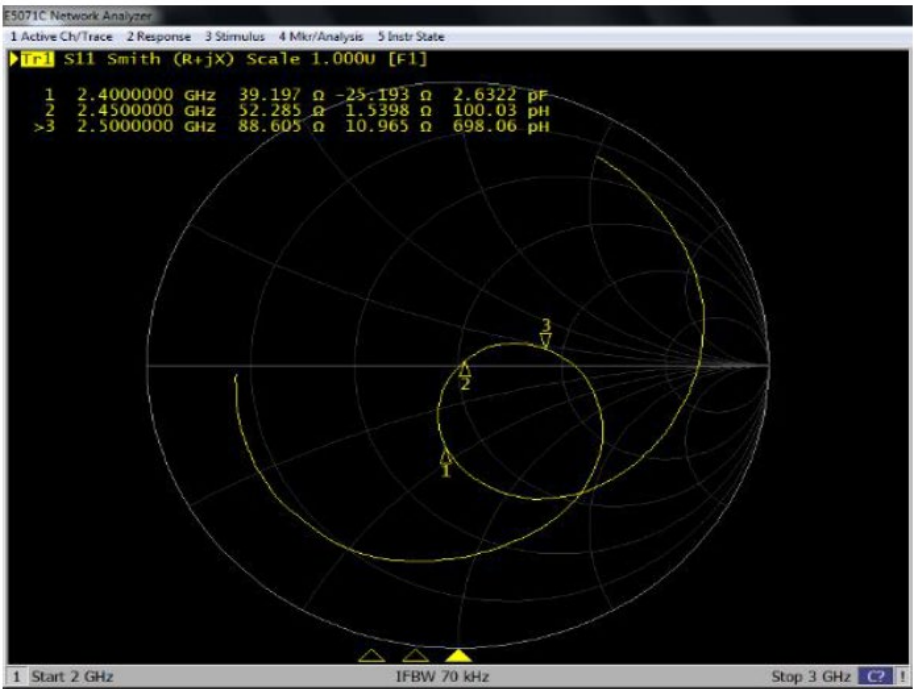


2. Electrical Characteristics

2.1 VSWR

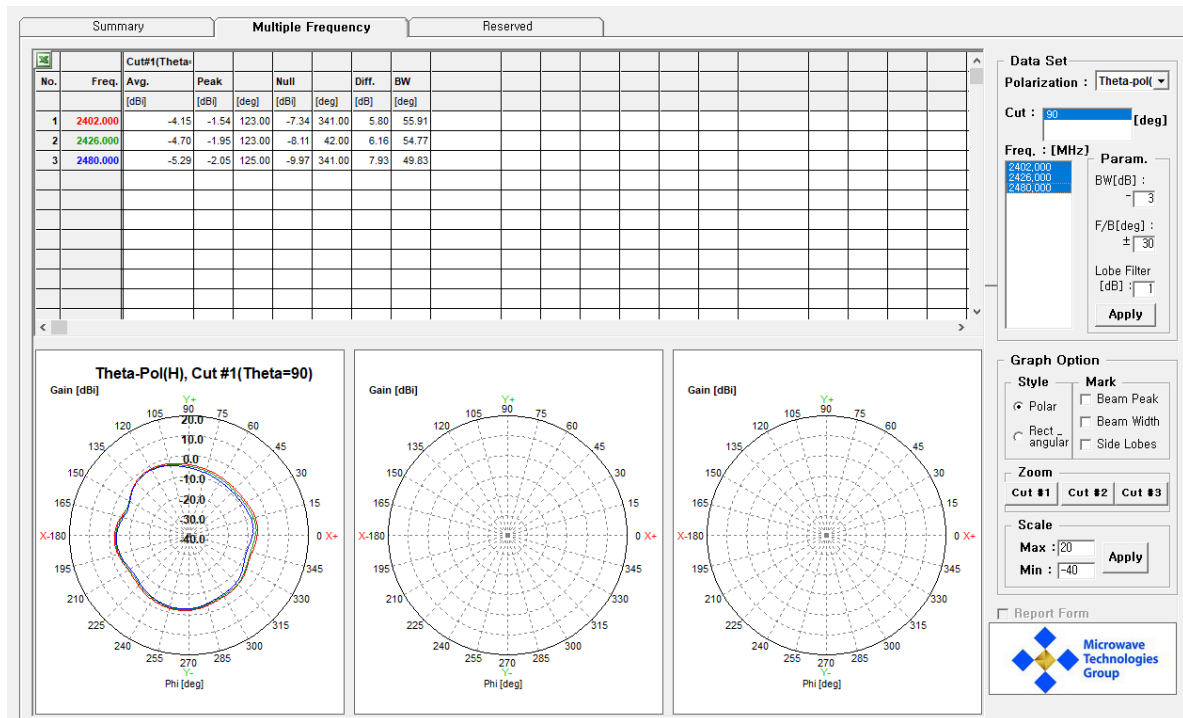


2.2 Smith Chart

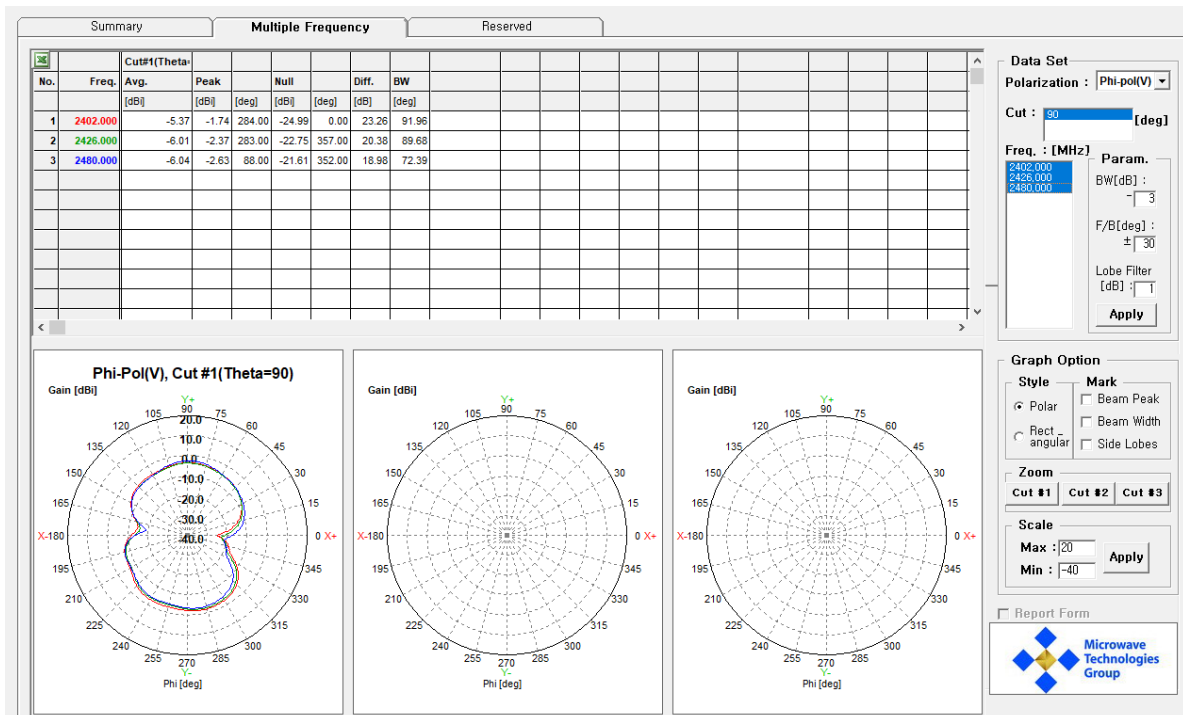


2.3 Radiation Pattern

Azimuth Plane



Phi 0 Degree Plane



Product Specification for Pattern Antenna

Features

- Single band operation 2.4GHz

Specification

Parameter	Performance
Antenna Type	Omnidirectional
Frequency	2.4 ~ 2.5GHz
Gain	-1.54dBi
Polarization	Linear Vertical
Size	13x5.5mm
Material	Copper/FR-4

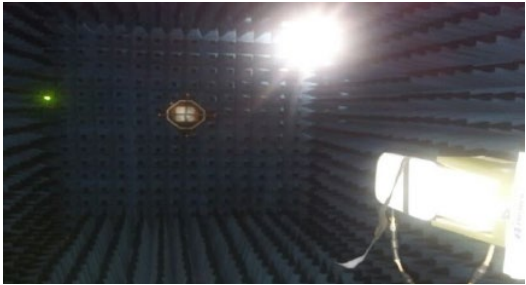
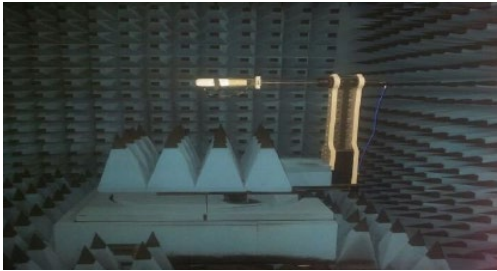
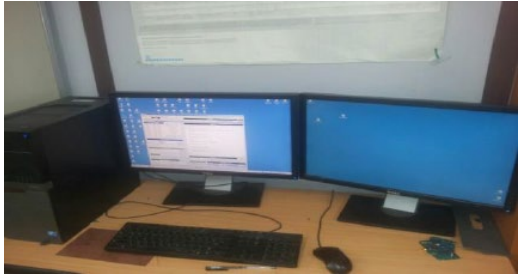
3. Measurement Process

3.1 SWR / Return loss

	Set Condition
Network Analyzer	Agilent 8753ES
Cable	Semi-ridid (40mm, 60mm)
Test Condition	

3.2 Gain

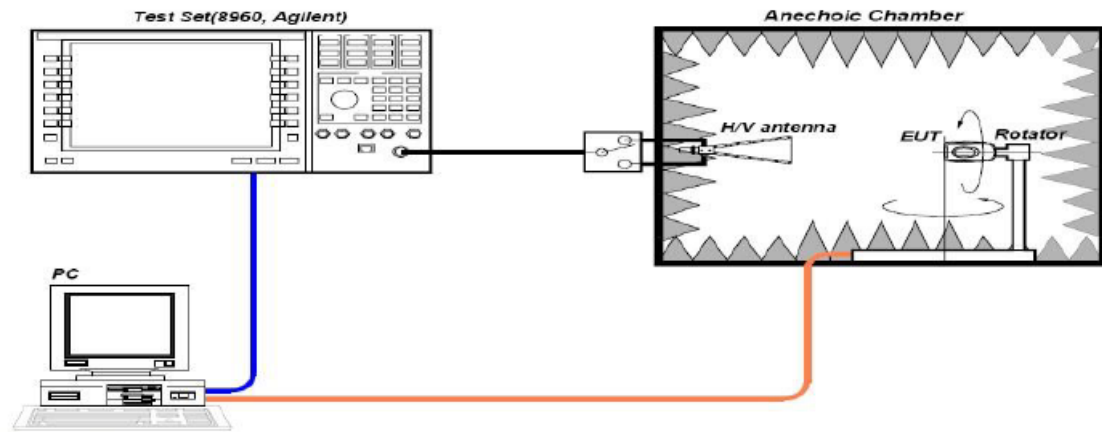
Antenna gain is measured in the anechoic chamber of this company

3.3 Gain test block diagram

Active test System

- TRP, NHPRP, UHRP
- TIS, NHPIS, UHIS
- Relative Sensitivity



Passive test System

- Efficiency
- Peak Gain, Avg Gain
- Min/Max Power

