Antenna Specification

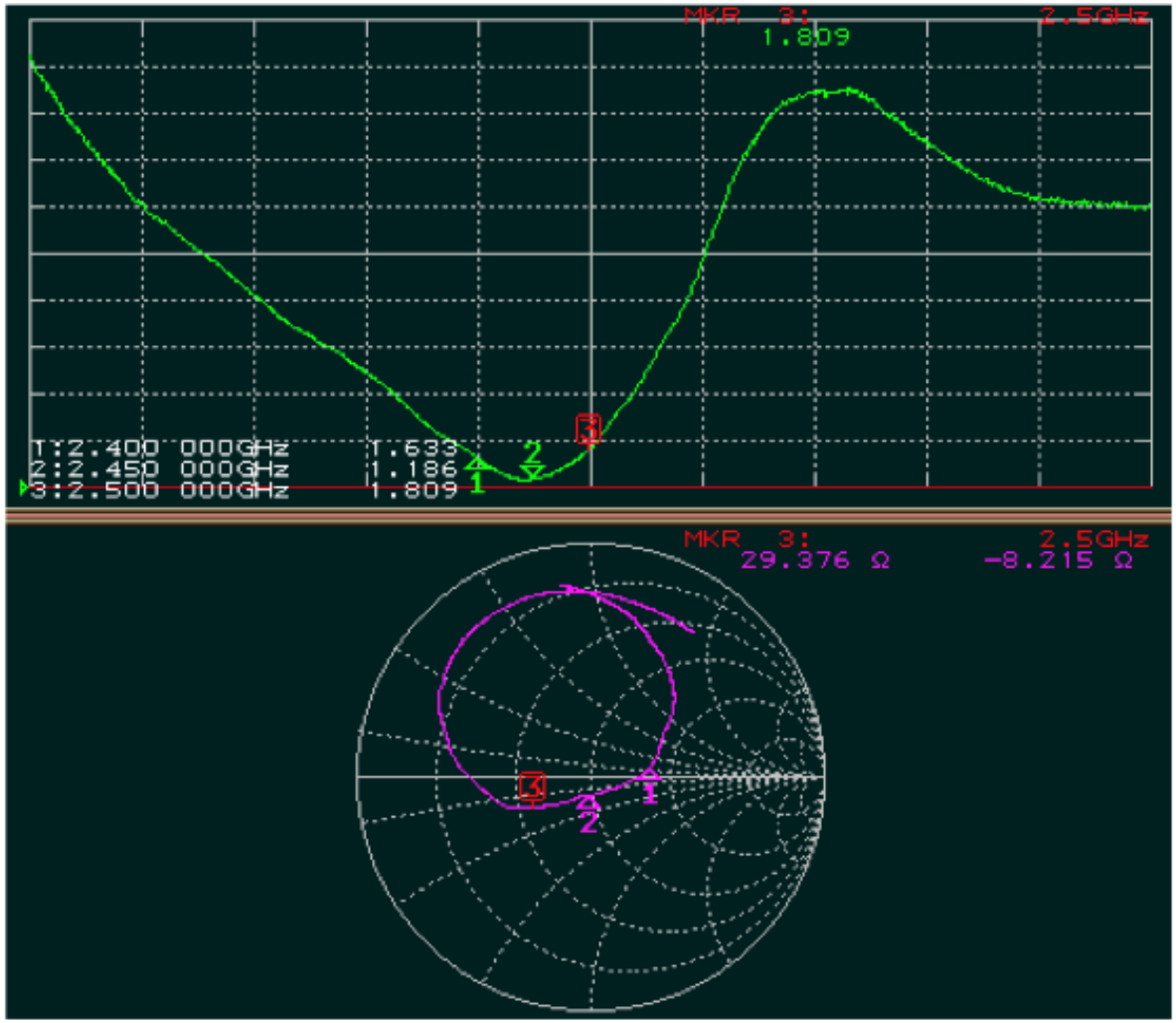
BENCH SOFT.

Electrical Specification

* All items are measured in room temperature (25℃).
* All items are measured at customer set condition.

No	Item	Specification	Typical Data
1	Frequency	2400 ~ 2500 MHz	2400 ~ 2484 MHz
2	VSWR	3.5 max	2.0 Max
3	Total Gain(Peak)	Peak Gain : -1.0dBi min	-0.5 dBi
4	Impedance	50 Ω	50 Ω
5	Polarization	Linear	Linear

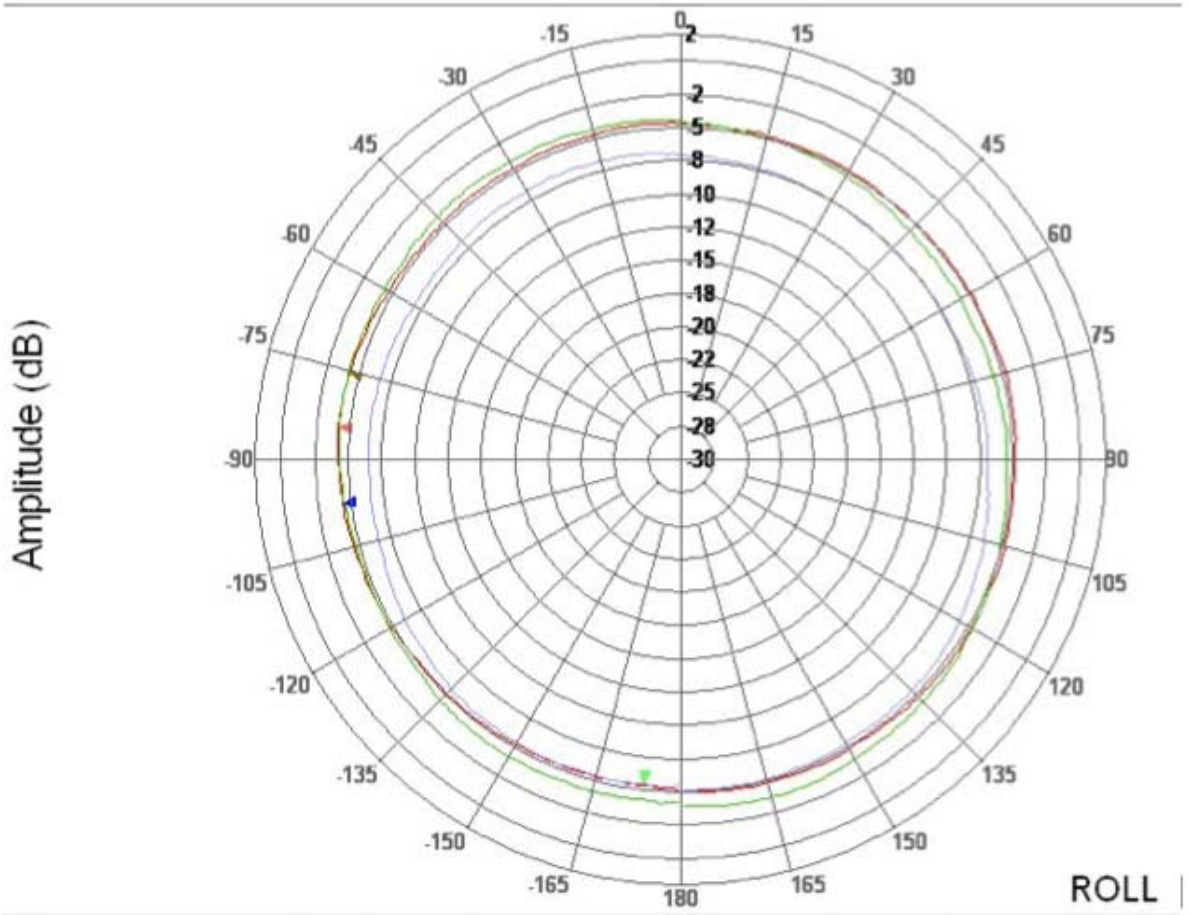
VSWR


MKR 3: 2.5GHz
1.809
1:2.400 000GHz 1.633
2:2.450 000GHz 1.186
3:2.500 000GHz 1.809
MKR 3: 2.5GHz
29.376 Ω -8.215 Ω

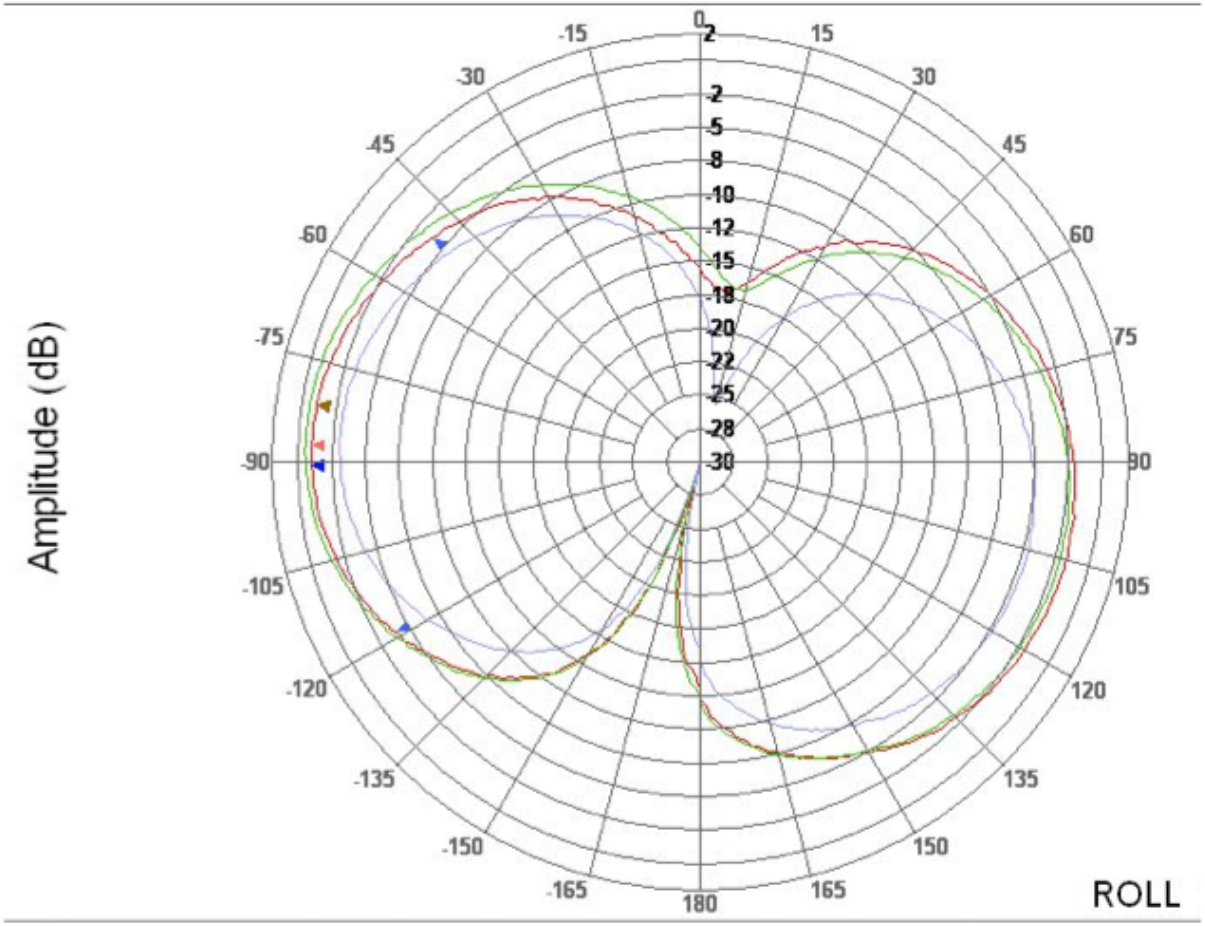
Radiation Pattern

Peak Value(Beam Peak :dB)			
	Azimuth Plane	Elevation 1	Elevation 2
2.4 GHz	-4.16	-0.97	-0.91
2.45 GHz	-3.67	-0.50	-0.91
2.5 GHz	-5.10	-3.04	-3.51

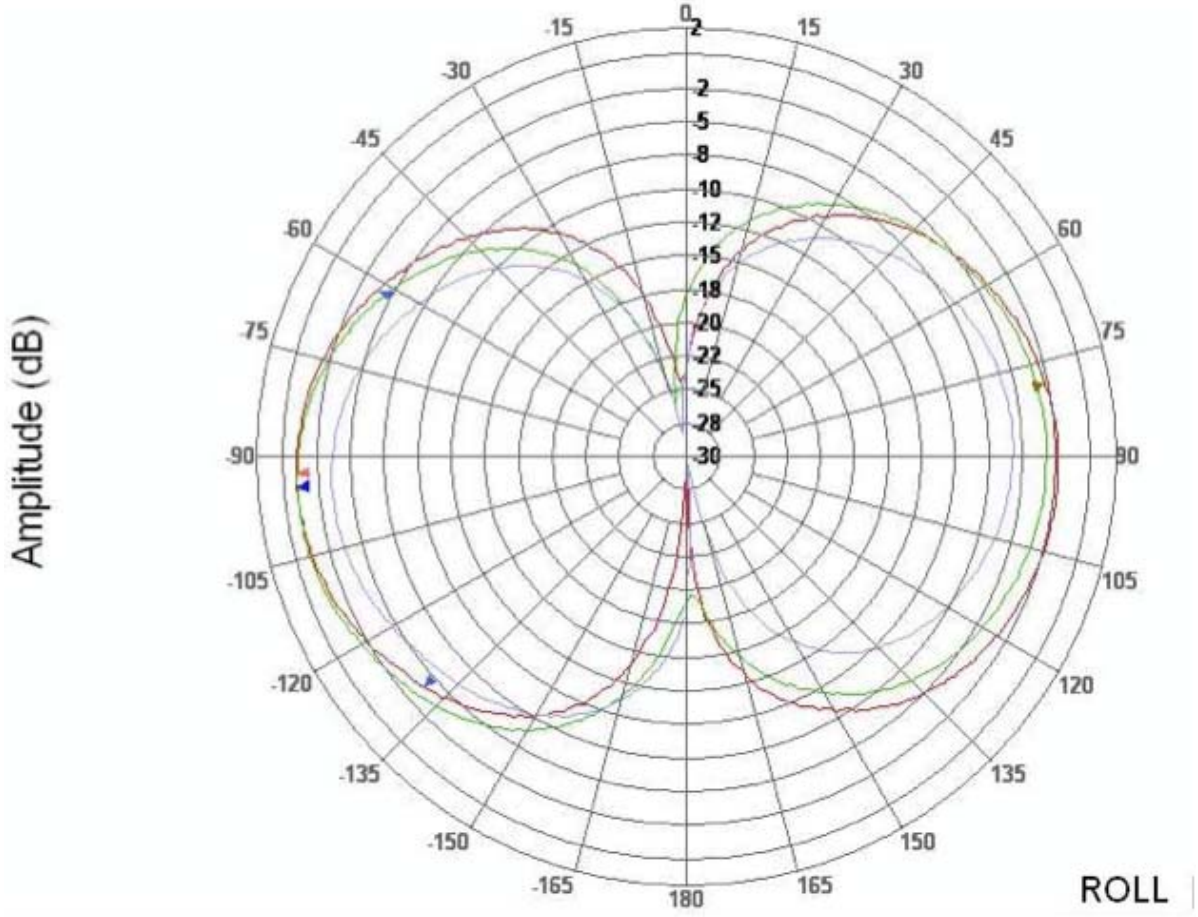
Azimuth Plane (XY) – Vertical Polarization



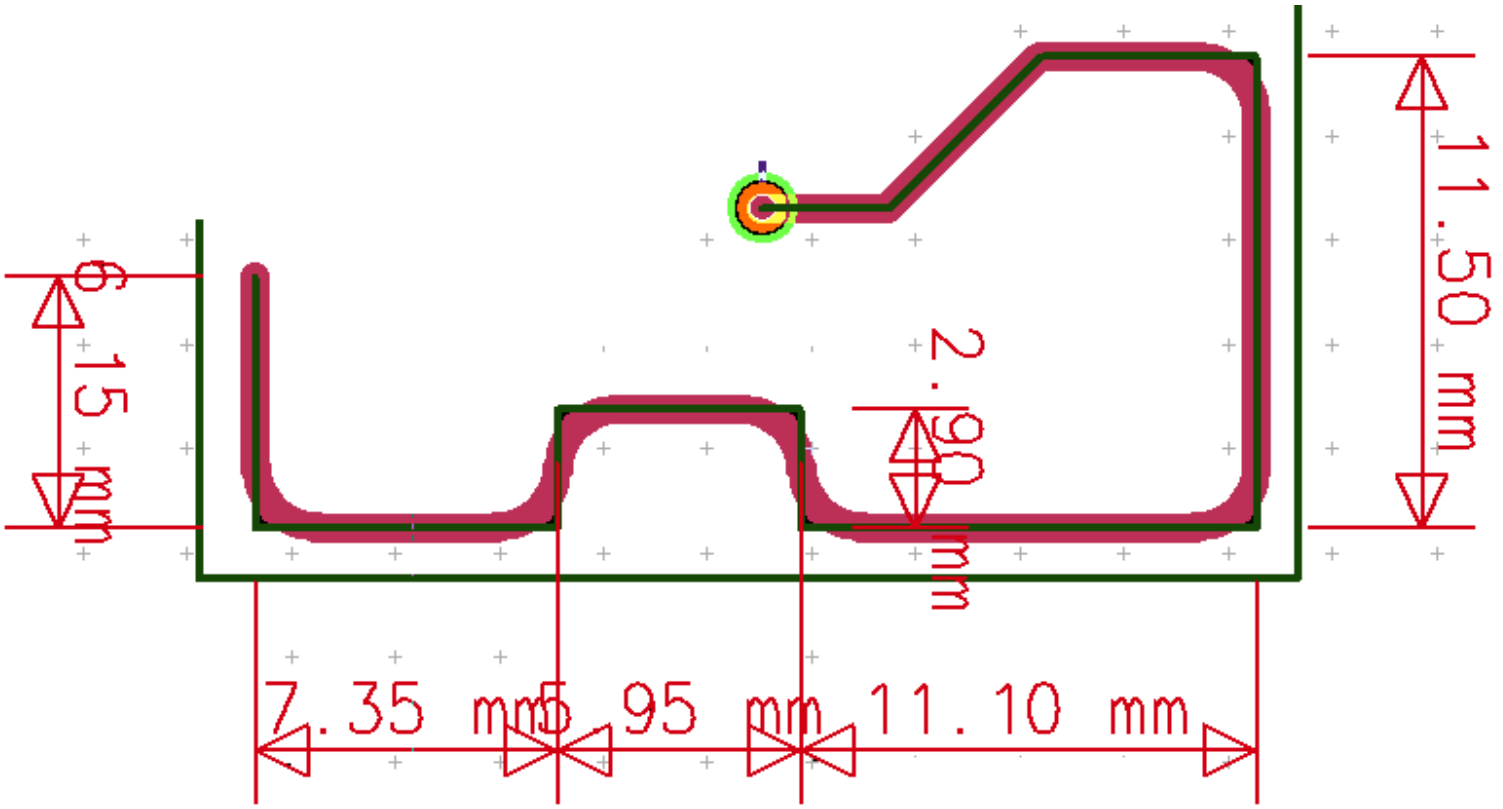
Elevation1 Plane (ZX) – Horizontal Polarization



Elevation2 Plane (ZX) – Horizontal Polarization

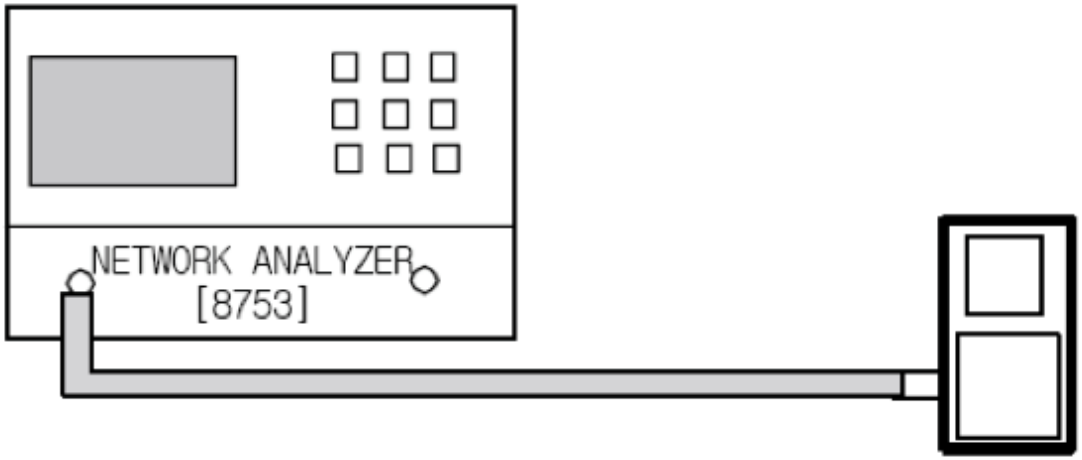


Mechanical Dimension



Measurement Method and Condition

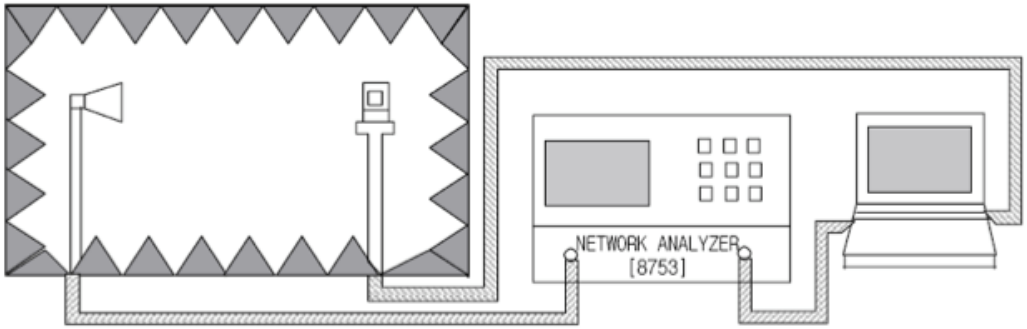
The measurement of Frequency and VSWR

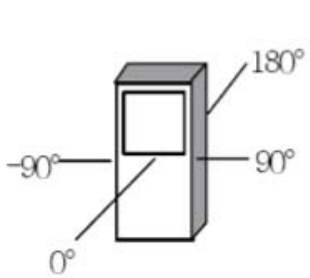


<Measurement Method>

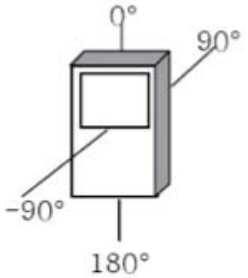
1) As seen the above, network analyzer is set up for S11 measurement.
2) The measurement frequency range is to set up from 2 GHz to 3 GHz.
3) Perform S11 one port full calibration.
4) Measure the VSRW of three points of Bluetooth frequency range such as 2400 MHz, 2450 MHz, and 2500 MHz.

The measurement of Frequency and VSWR

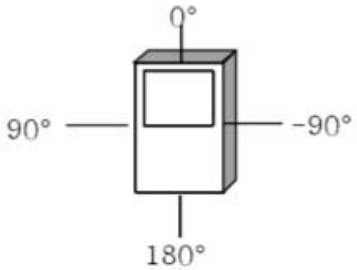




(AZIMUTH PLANE)



(ELEVATION1 PLANE)



(ELEVATION2 PLANE)

<Measurement Method>

1) As seen the above, network analyzer is to set up in Anechoic chamber.

2)As seen the beneath, for the measurement planes a s Azimuth, Elevation1, and Elevation2, measure Gain data of vertical polarization and horizontal polarization for each plane.