



# Antenna datasheet

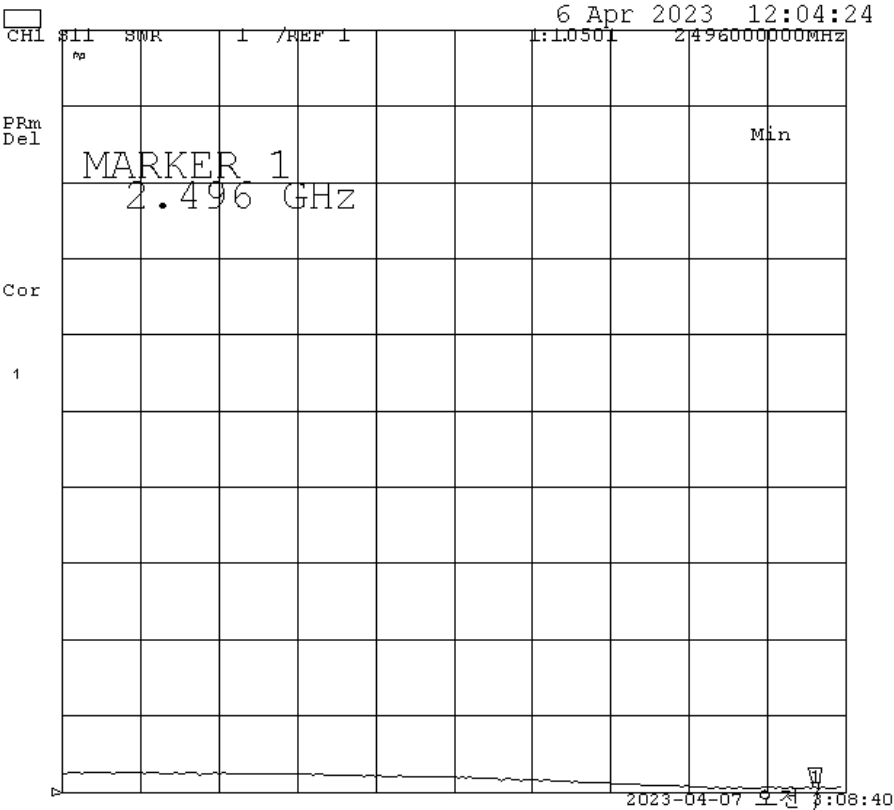
# ***ANTENNA ENGINE***

Antenna Approve  
[2.4GHz Internal Antenna]

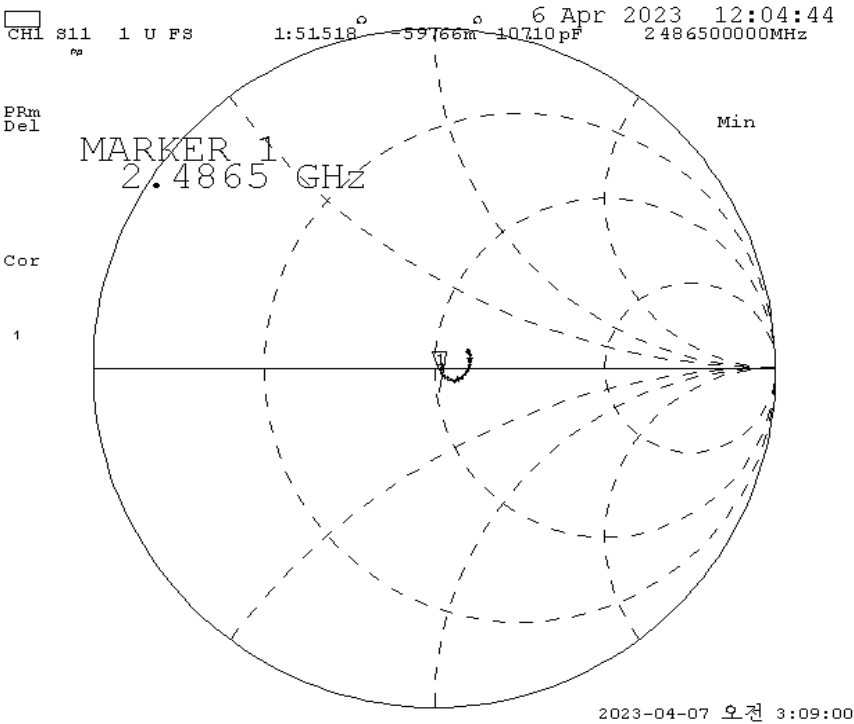
2023. 04. 10.

## 1. PCB antenna Specification

Item	Spec.
Model name	-
Frequency Range	2400~2500 [MHz]
Gain	> 0 [dBi] (NOMINAL)
Impedance	50Ω
VSWR	2.5 : 1 이하
polarization	수직
Dimension(H×W)	9 x 19 mm



VSWR



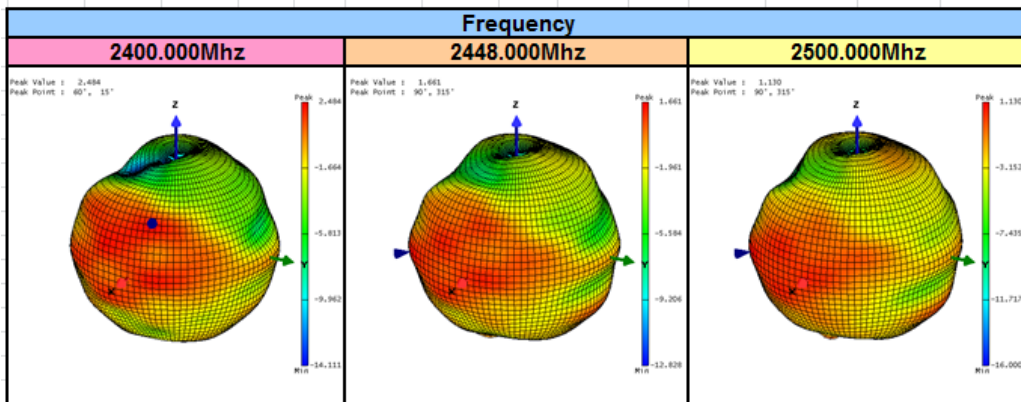
Smith Chart

### 3. Radiation Pattern – 3D

#### 3D Radiation Pattern Measurement Results

##### 1. Informations

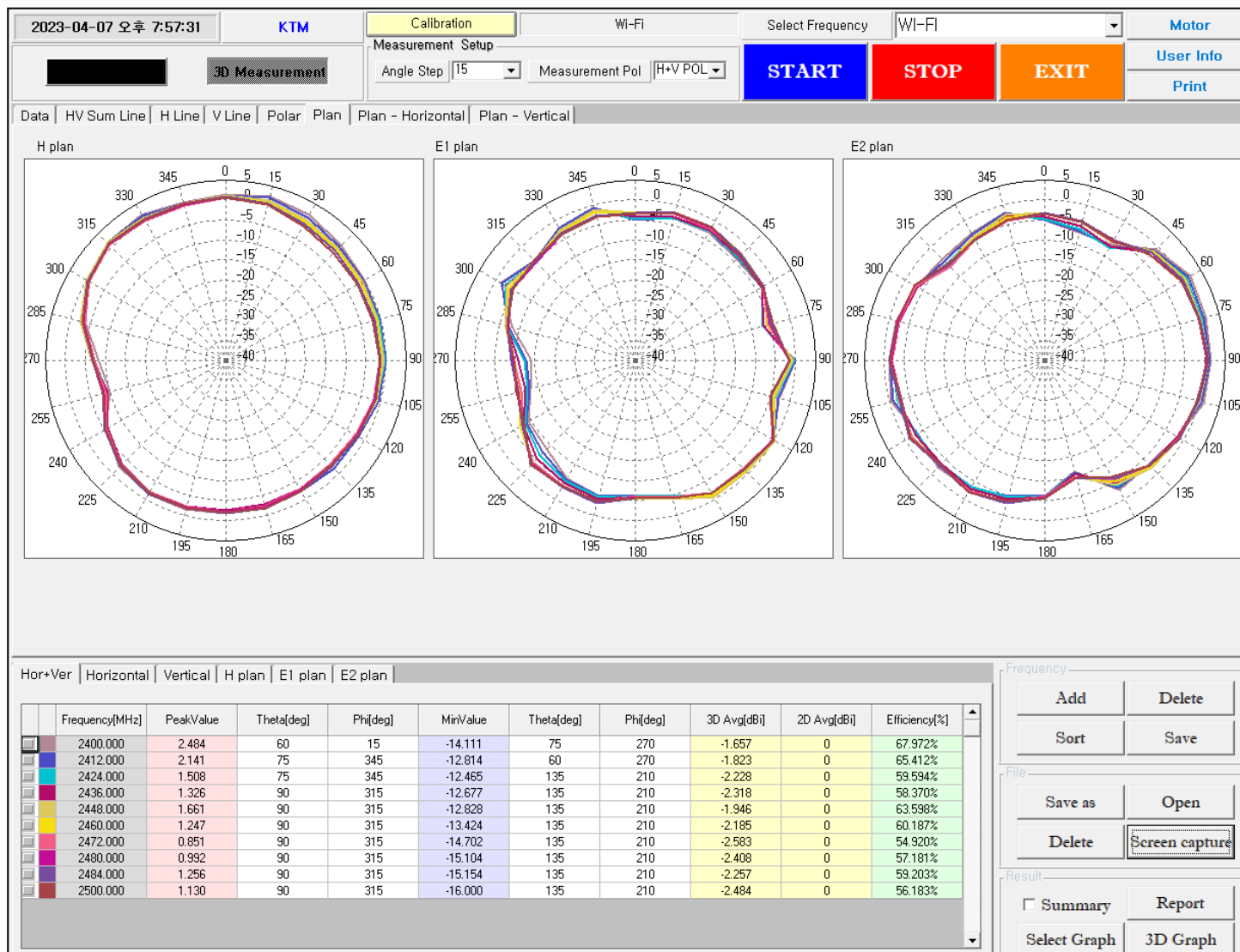
Date		Test Engineer	
Customer		Antenna Version	
Model / Revision			
Test Condition			



##### 2. Test Results

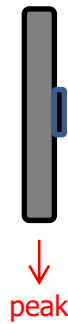
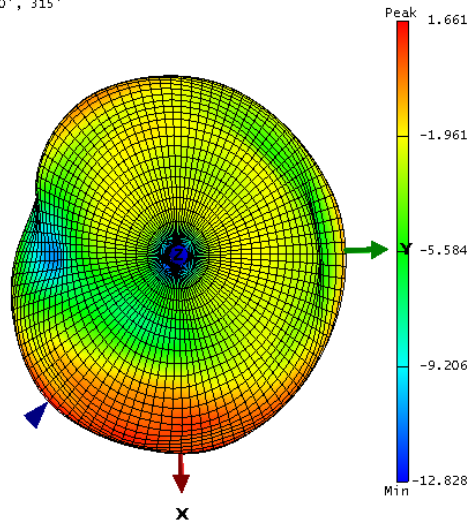
Frequency	Peak Value		Minimum Value		Avg. Gain	Efficiency
[MHz]	Value[dBi]	Degree	Value[dBi]	Degree	[dBi]	[%]
2400	2.484	060 / 015	-14.111	075 / 270	-1.657	67.97%
2412	2.141	075 / 345	-12.814	060 / 270	-1.823	65.41%
2424	1.508	075 / 345	-12.465	135 / 210	-2.228	59.59%
2436	1.326	090 / 315	-12.677	135 / 210	-2.318	58.37%
2448	1.661	090 / 315	-12.828	135 / 210	-1.946	63.60%
2460	1.247	090 / 315	-13.424	135 / 210	-2.185	60.19%
2472	0.851	090 / 315	-14.702	135 / 210	-2.583	54.92%
2480	0.992	090 / 315	-15.104	135 / 210	-2.408	57.18%
2484	1.256	090 / 315	-15.154	135 / 210	-2.257	59.20%
2500	1.13	090 / 315	-16	135 / 210	-2.484	56.18%

## 4. Radiation Pattern – 2D



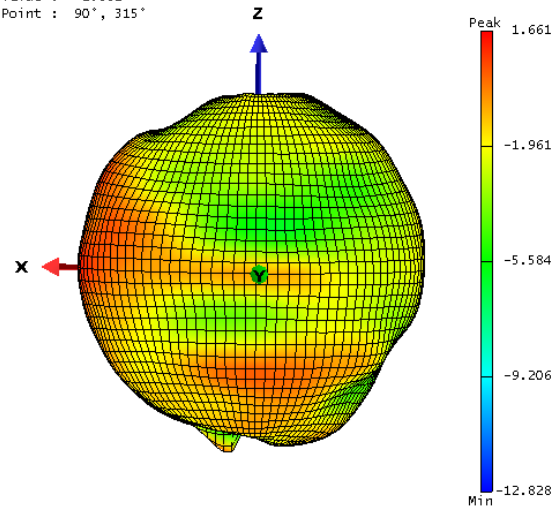
**TOP**

Peak Value : 1.661  
Peak Point : 90°, 315°



**FRONT**

Peak Value : 1.661  
Peak Point : 90°, 315°



**SIDE**

Peak Value : 1.661  
Peak Point : 90°, 315°

