

# 2J2424Ha

## CELLULAR/LTE MIMO Wall Mount

### Key Features

#### Cable 1 - 2: CELLULAR / LTE

- 698-960 MHz
- 1710-2170 MHz
- 2500-2700 MHz

Wall Mount

High Performance

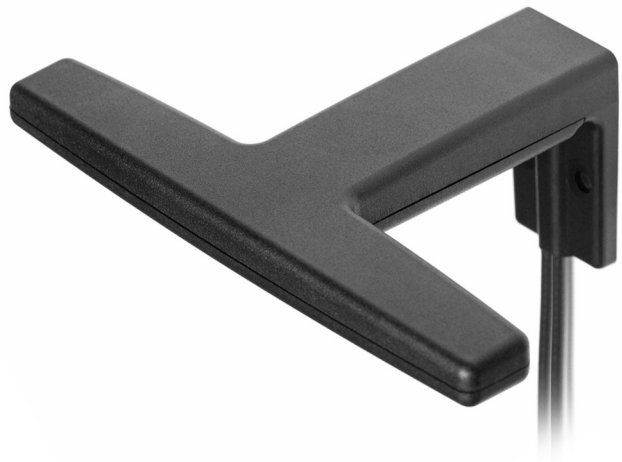
Compact Size

Ground Plane Independent

Customizable Cable and Connector

Dimensions 123 × 81 × 45 mm

Certificates: IP67, IP69



## 1. Antenna and electrical specifications

Cable 1

Parameters	CELLULAR / LTE Antenna		
<b>Standards</b>	2G,3G and 4G		
<b>Band (MHz)</b>	700/850/900	1700/1800/1900/2100	2600
<b>Frequency (MHz)</b>	698-960	1710-2170	2500-2700
<b>Return Loss (dB)</b>	~-8.5	~-10.1	~-7.5
<b>VSWR</b>	~3.2:1	~2.1:1	~2.6:1
<b>Efficiency (%)</b>	~53.2	~50.5	~40.9
<b>Peak Gain (dBi)</b>	~-0.7	~-1.9	~-0.9
<b>Average Gain (dB)</b>	~-3.2	~-3.0	~-3.9
<b>Impedance (Ohm)</b>	50		
<b>Polarisation</b>	Linear		
<b>Radiation Pattern</b>	Omni-Directional		
<b>Max. Input Power (W)</b>	25		
<b>Connector Type</b>	SMA-Male Standard (Other Connectors Available)		
<b>Cable Length</b>	300 cm Standard (Any Cable Length Available)		
<b>Cable Type</b>	LL100 Standard (Other Cables Available)		

Cable 2

Parameters	CELLULAR / LTE Antenna		
<b>Standards</b>	2G,3G and 4G		
<b>Band (MHz)</b>	700/850/900	1700/1800/1900/2100	2600
<b>Frequency (MHz)</b>	698-960	1710-2170	2500-2700
<b>Return Loss (dB)</b>	~-5.7	~-7.6	~-7.1
<b>VSWR</b>	~6.5:1	~2.7:1	~2.7:1
<b>Efficiency (%)</b>	~55.0	~44.8	~47.4
<b>Peak Gain (dBi)</b>	~-2.8	~-2.7	~-3.5
<b>Average Gain (dB)</b>	~-2.6	~-3.5	~-3.3
<b>Impedance (Ohm)</b>	50		
<b>Polarisation</b>	Linear		
<b>Radiation Pattern</b>	Omni-Directional		
<b>Max. Input Power (W)</b>	25		
<b>Connector Type</b>	SMA-Male Standard (Other Connectors Available)		
<b>Cable Length</b>	300 cm Standard (Any Cable Length Available)		
<b>Cable Type</b>	LL100 Standard (Other Cables Available)		

**Antenna Measurement Conditions:**

Free Space

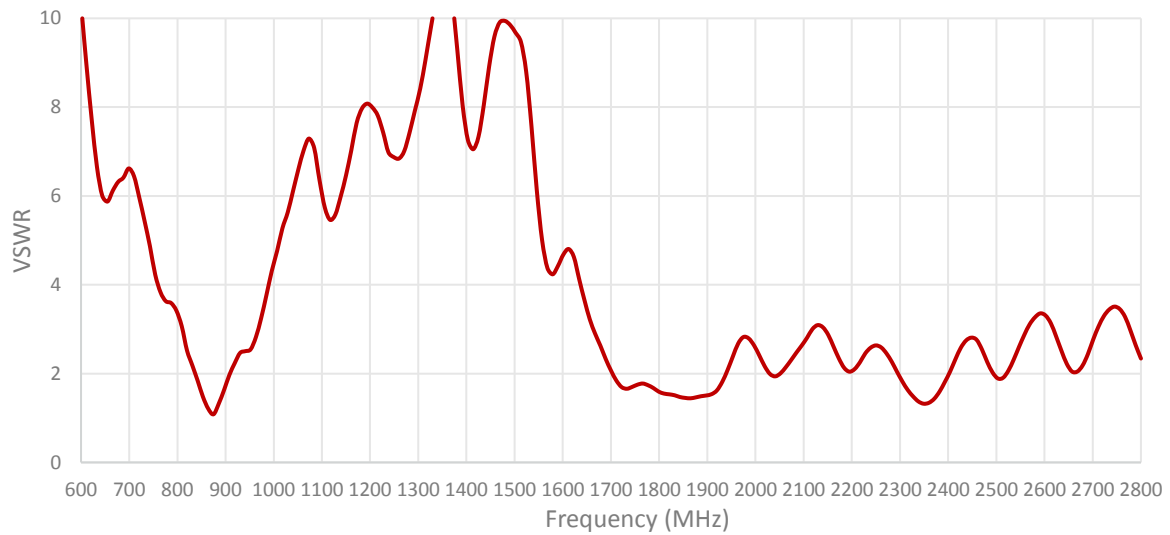
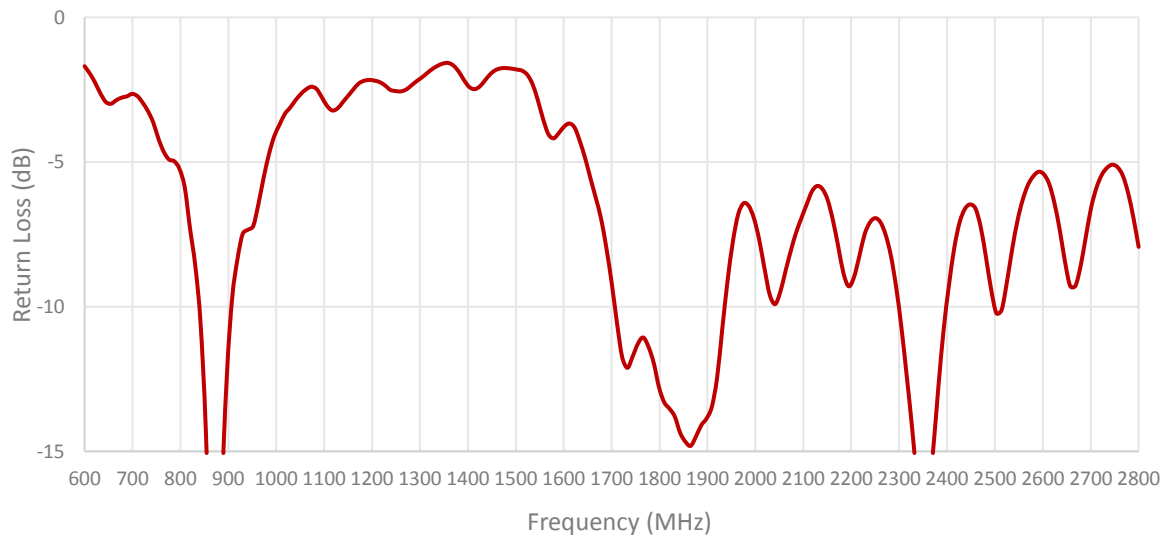
100 cm LL100

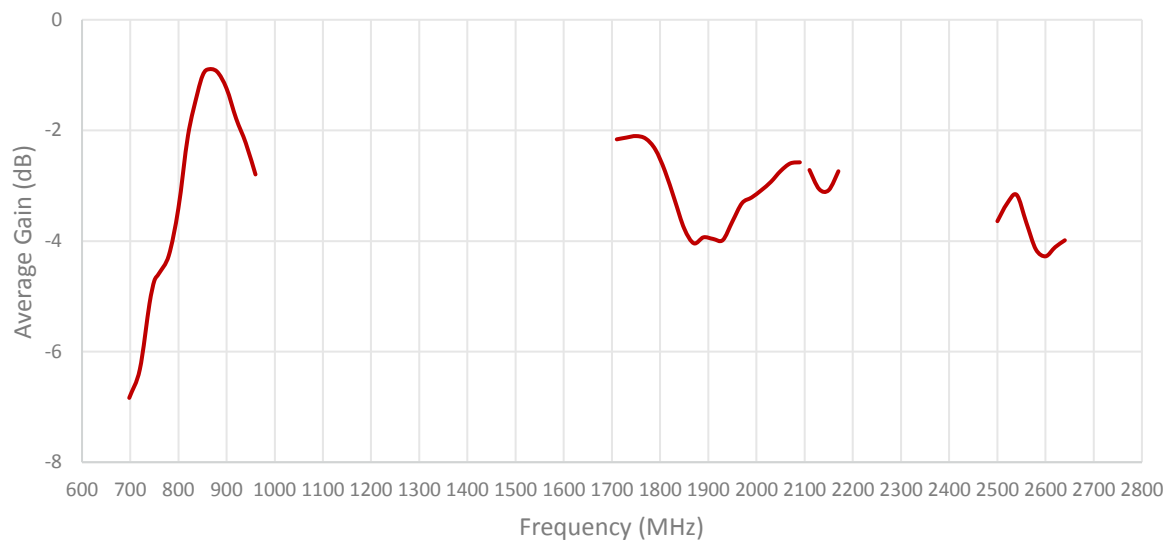
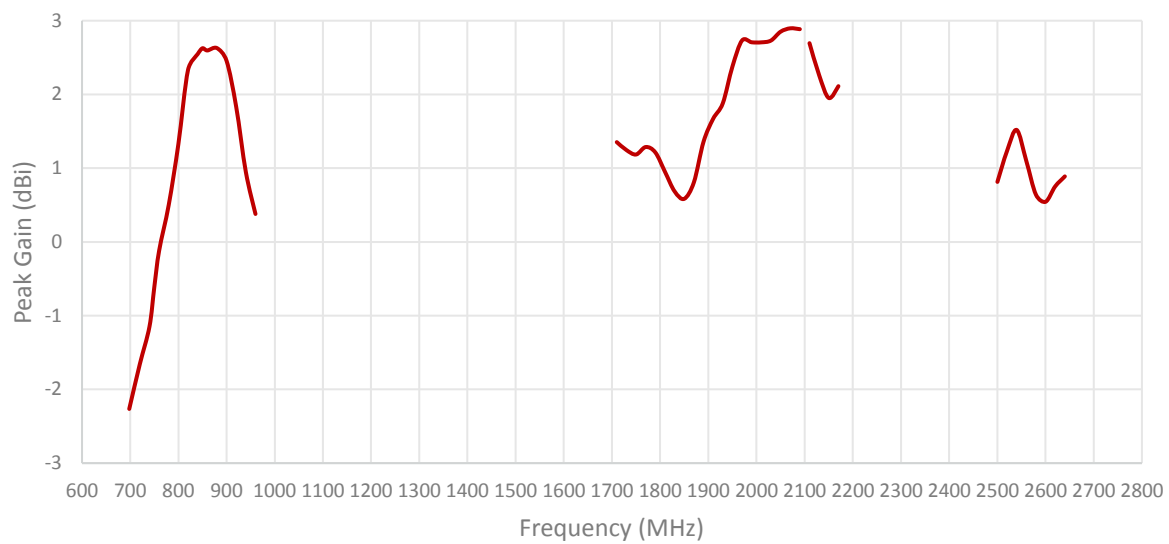
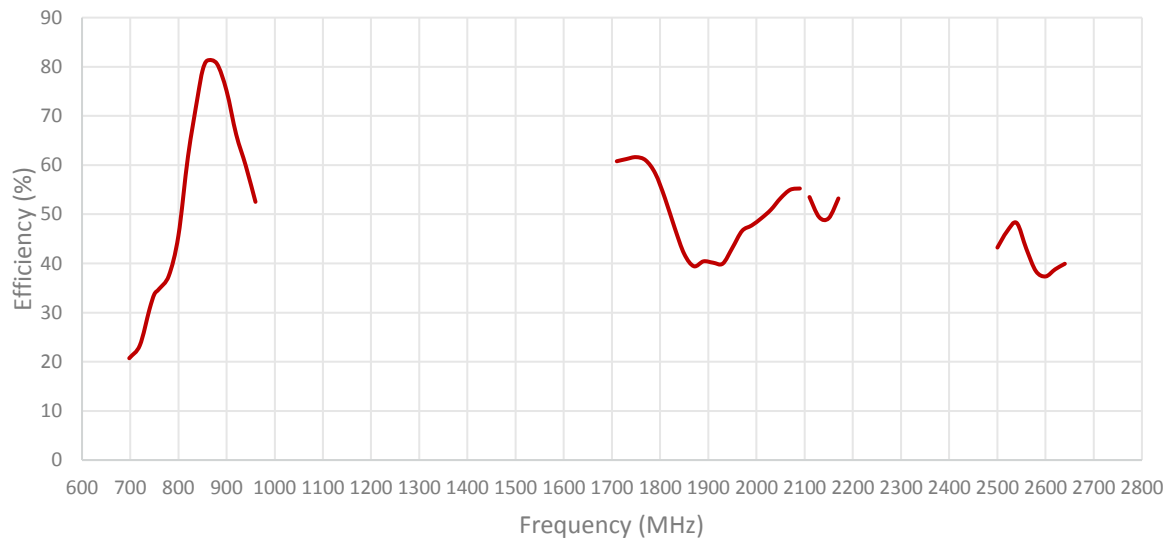
Measured in Certified CTIA 3D Anechoic Chamber

## 2. Mechanical and environmental specifications

Specifications	2J2424Ha
<b>Mounting Type</b>	Wall Mount
<b>Dimensions (mm)</b>	123 × 81 × 45
<b>Fixings</b>	2× M4 (Not included)
<b>Radome Type</b>	ASA
<b>Radome Color</b>	Black, White
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS
<b>Certificates</b>	IP67, IP69

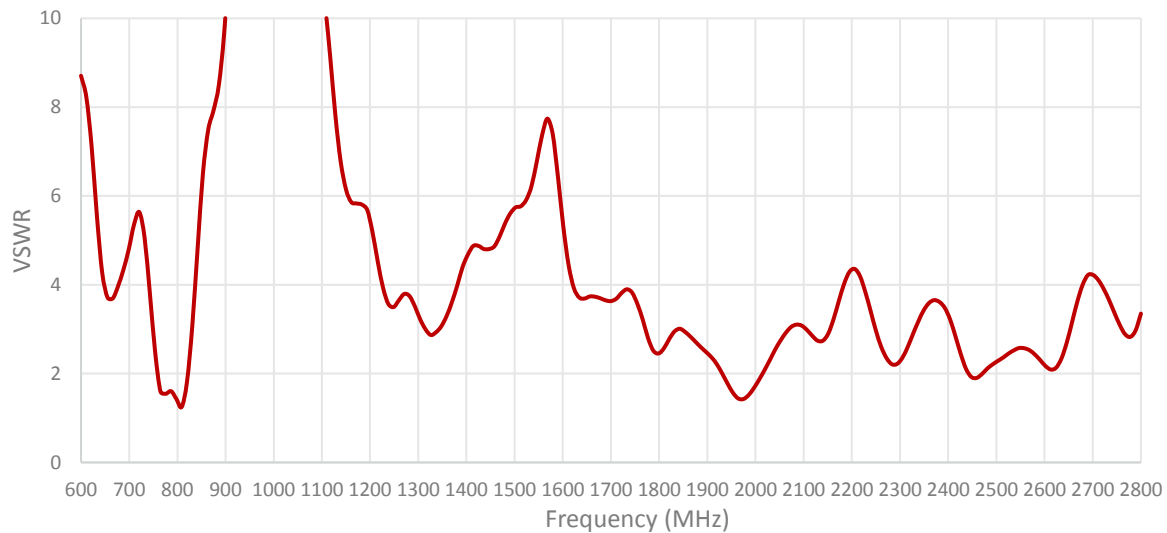
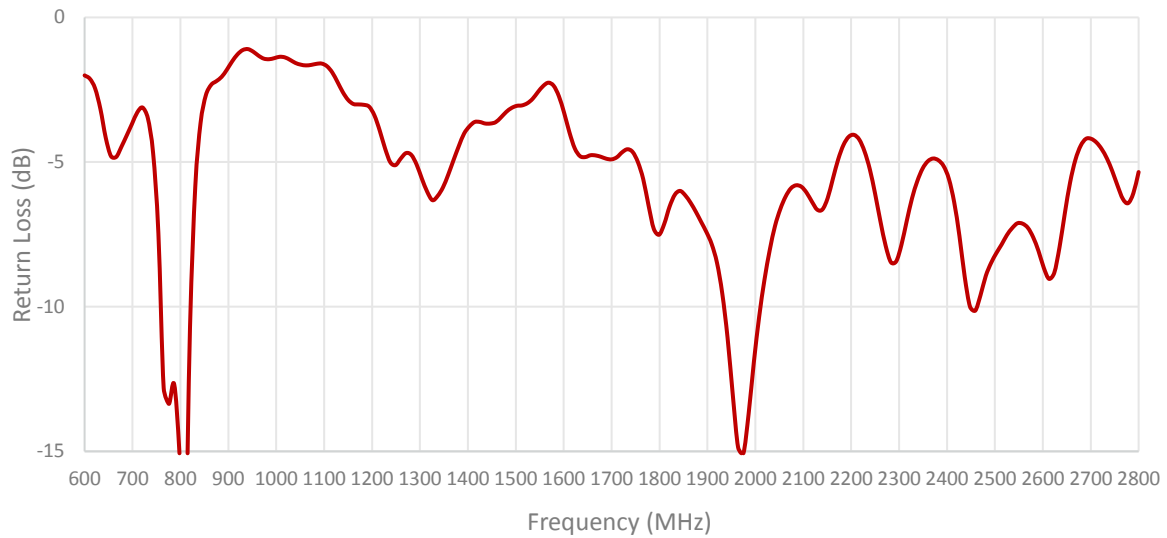
Cable 1: CELLULAR/LTE

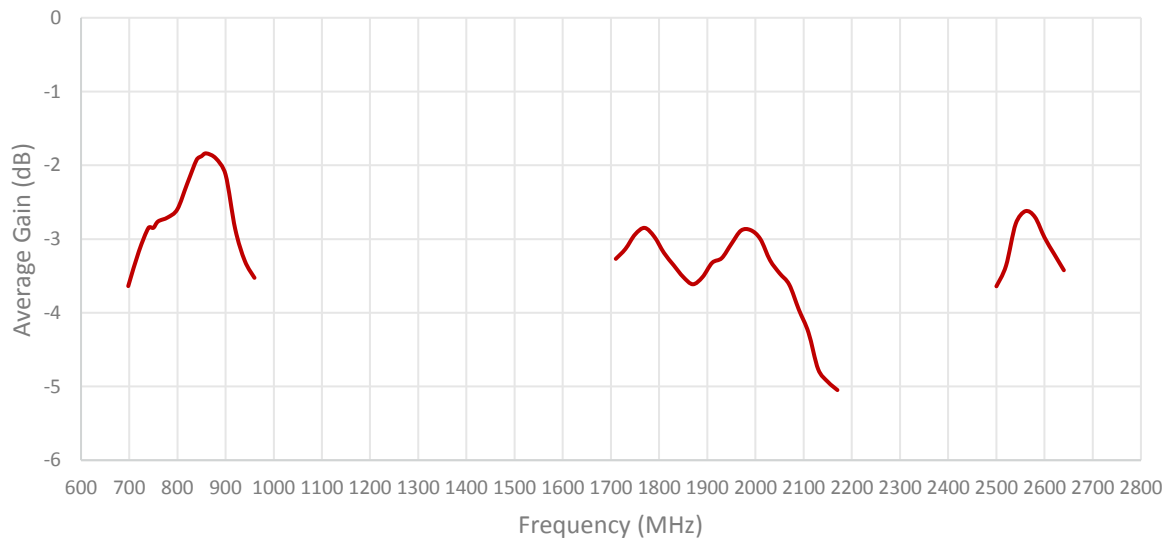
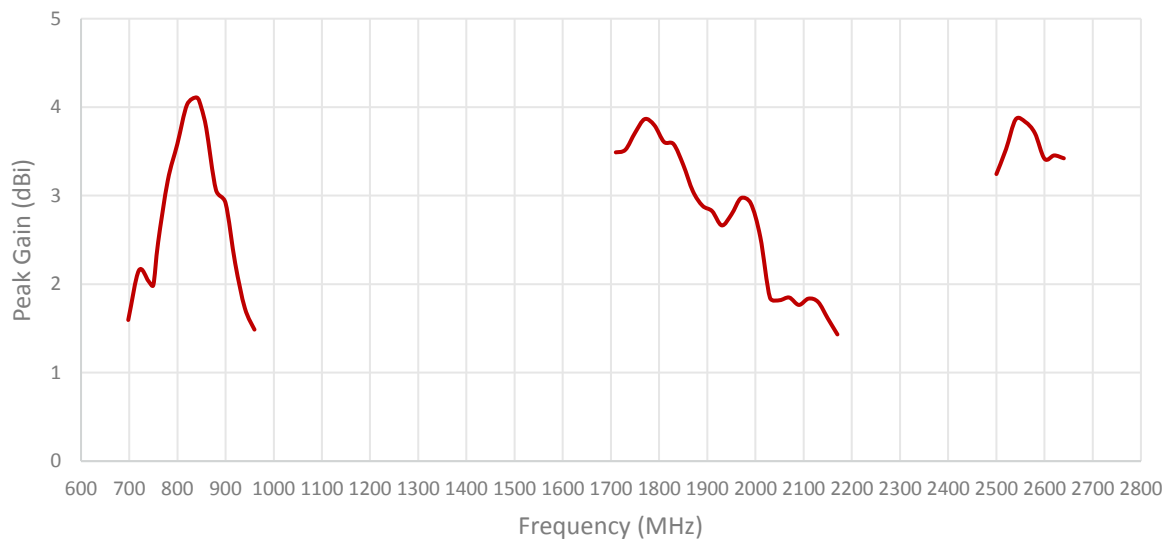
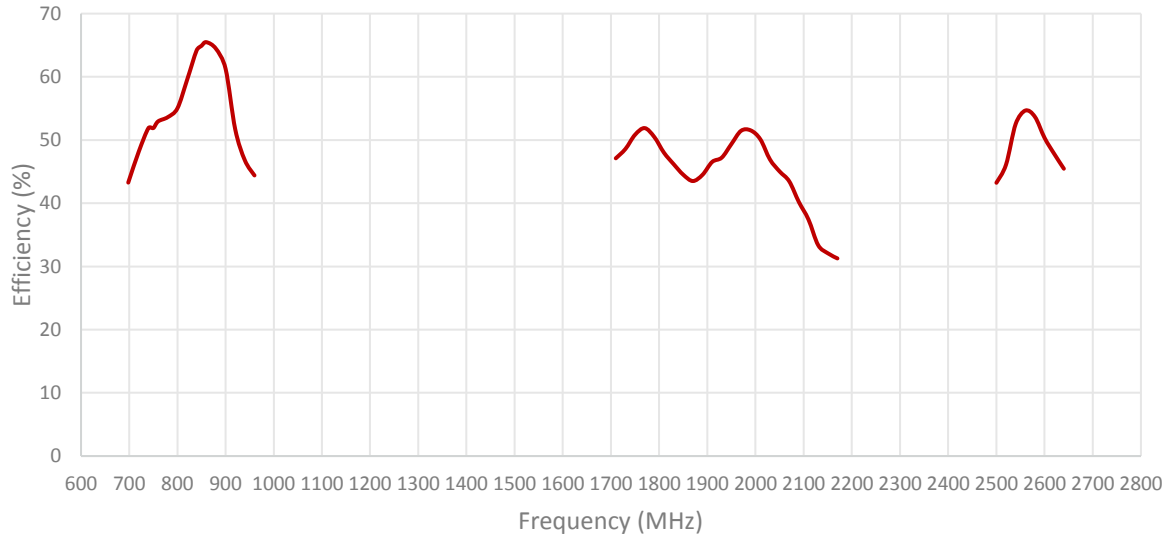


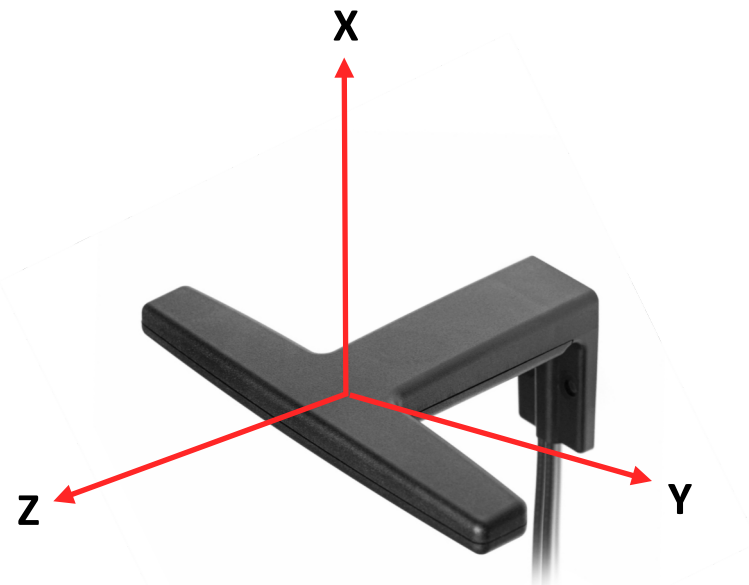


## 3. Antenna parameters

Cable 2: CELLULAR/LTE

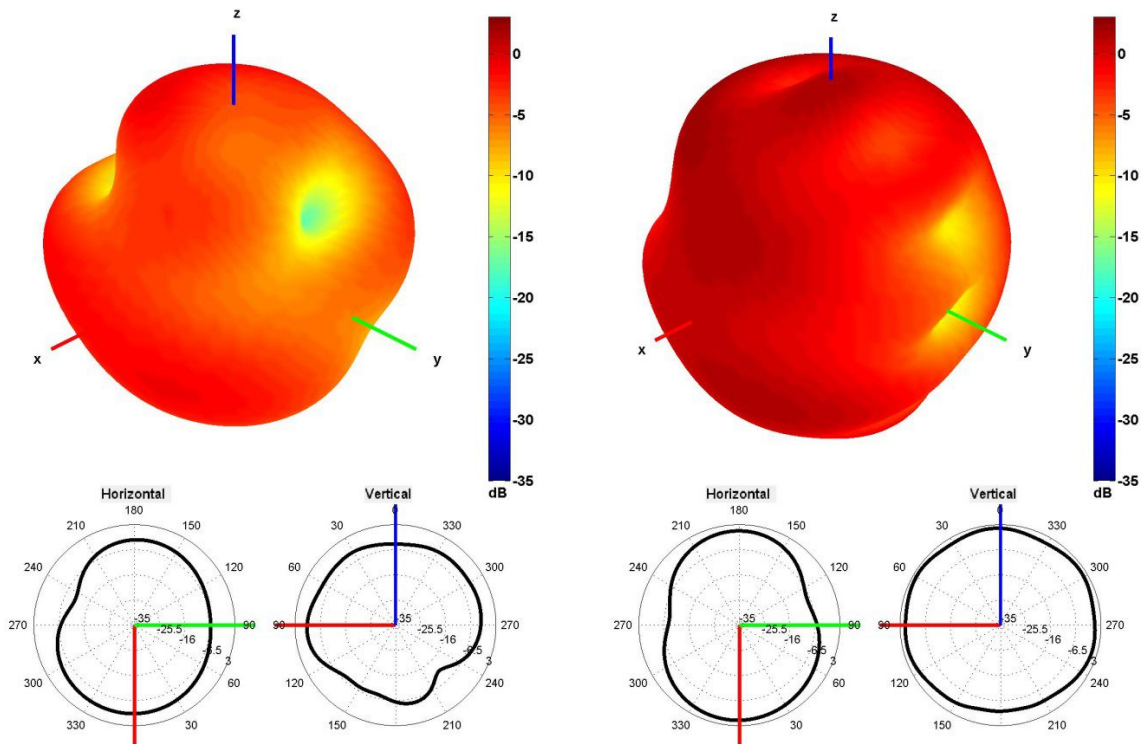






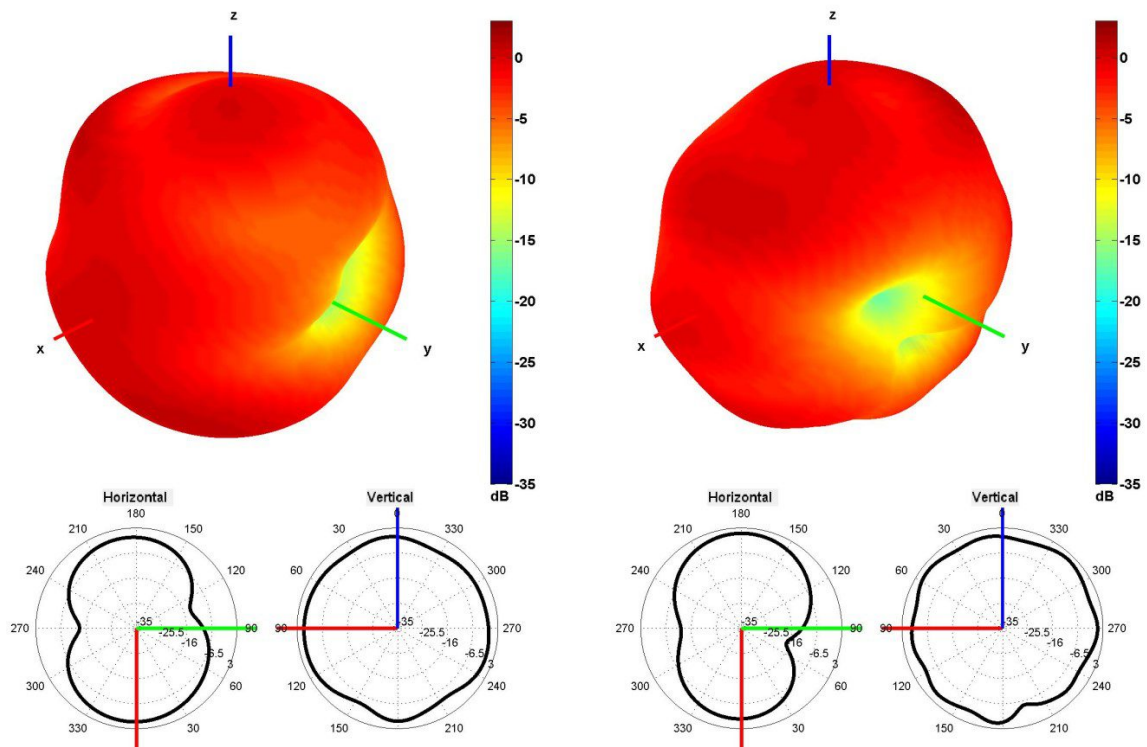
Radiation pattern reference

Cable 1: CELLULAR/LTE

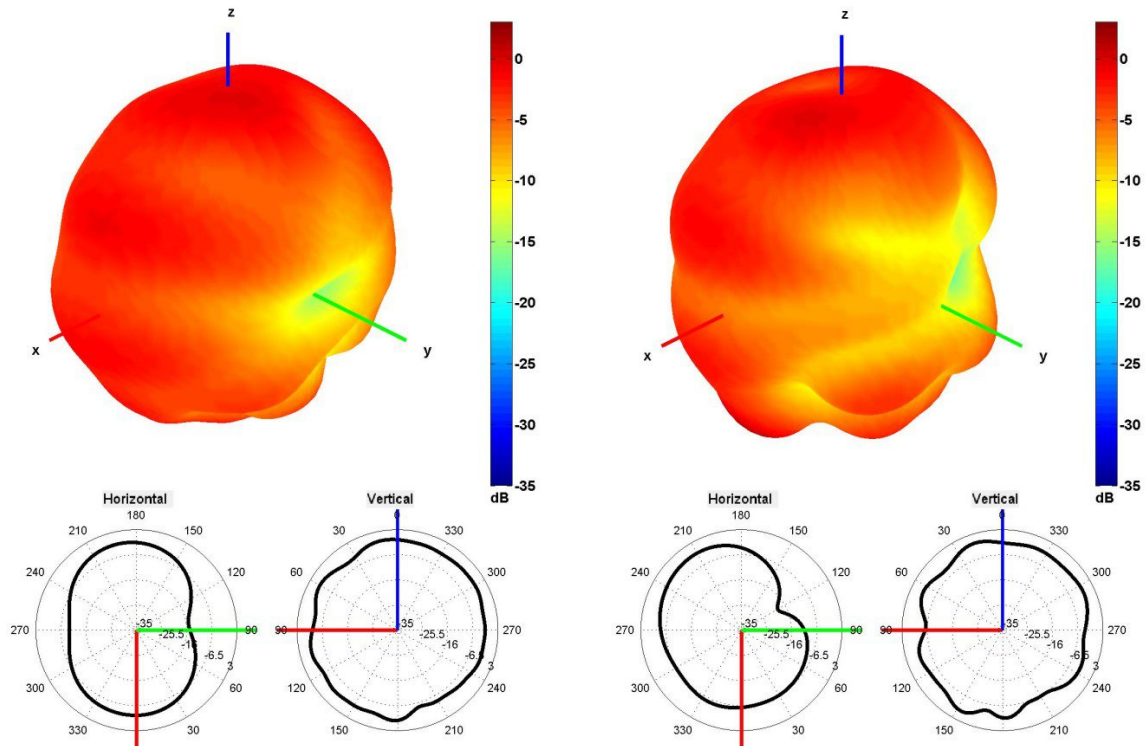


750 and 850 MHz Radiation pattern

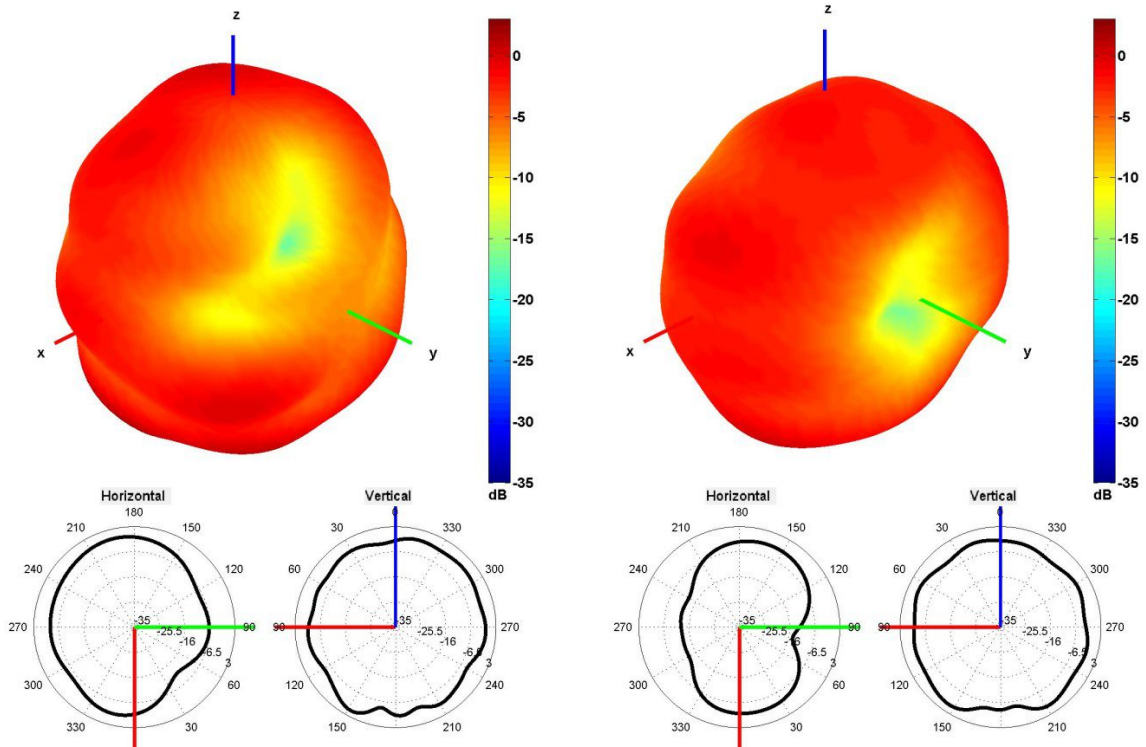




940 and 1750 MHz Radiation pattern

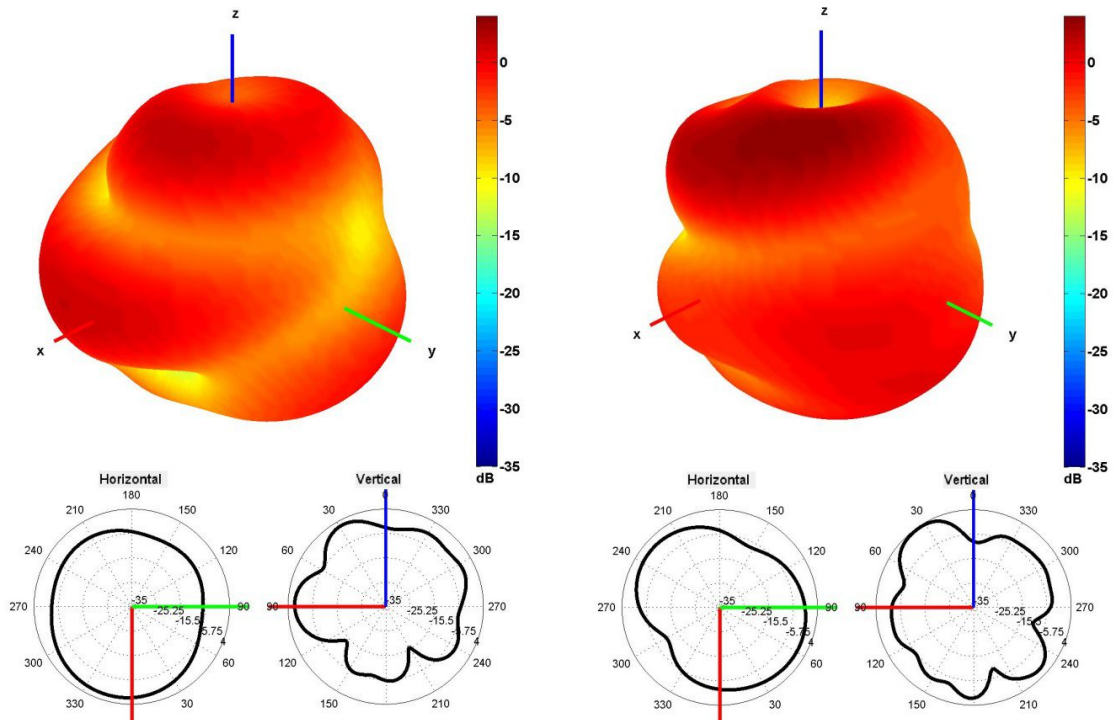


1850 and 1950 MHz Radiation pattern

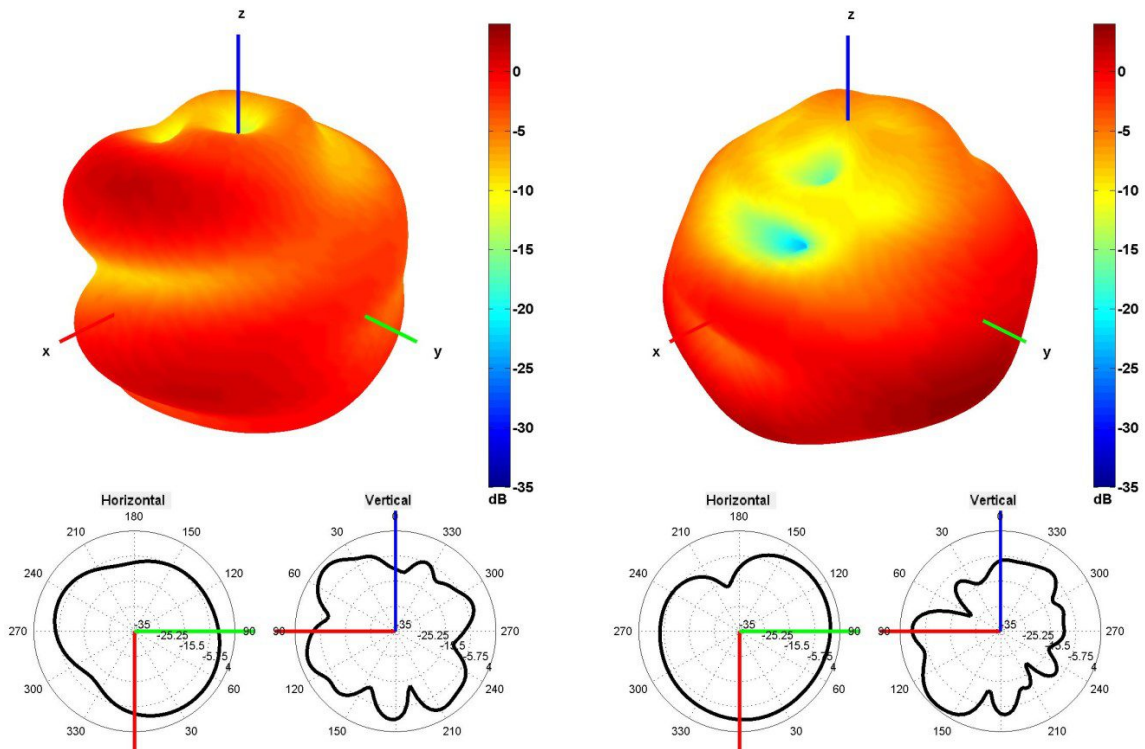


2100 and 2600 MHz Radiation pattern

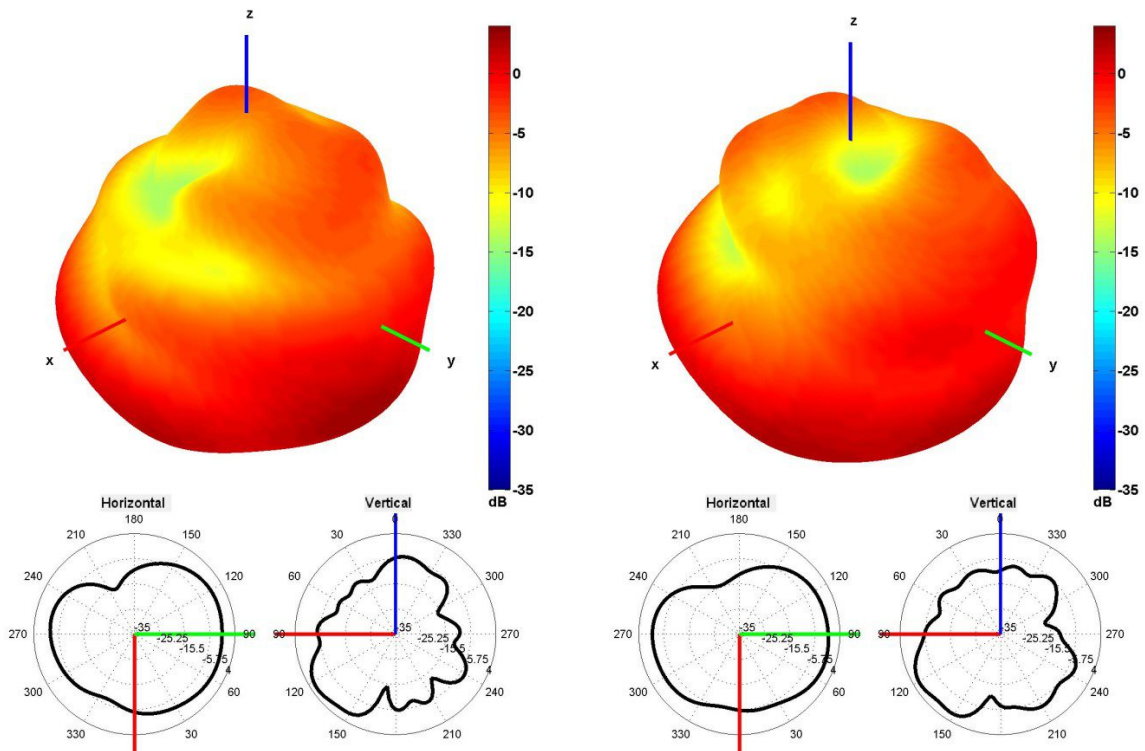
Table 2: CELLULAR/LTE



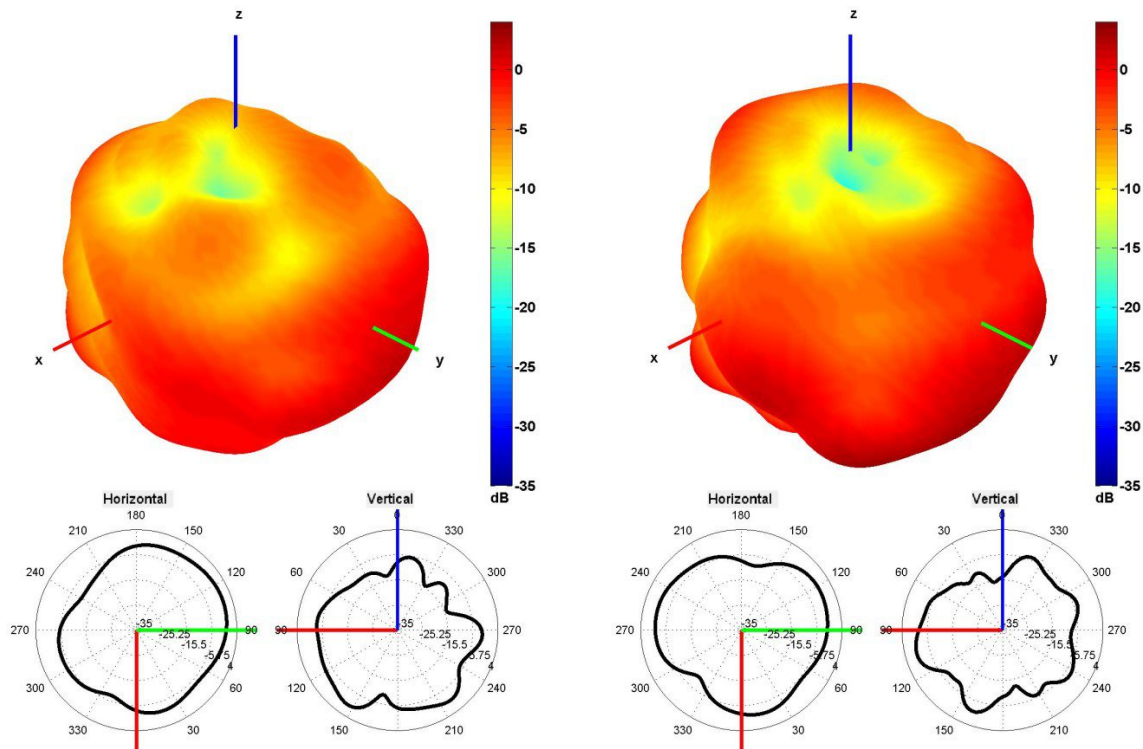
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

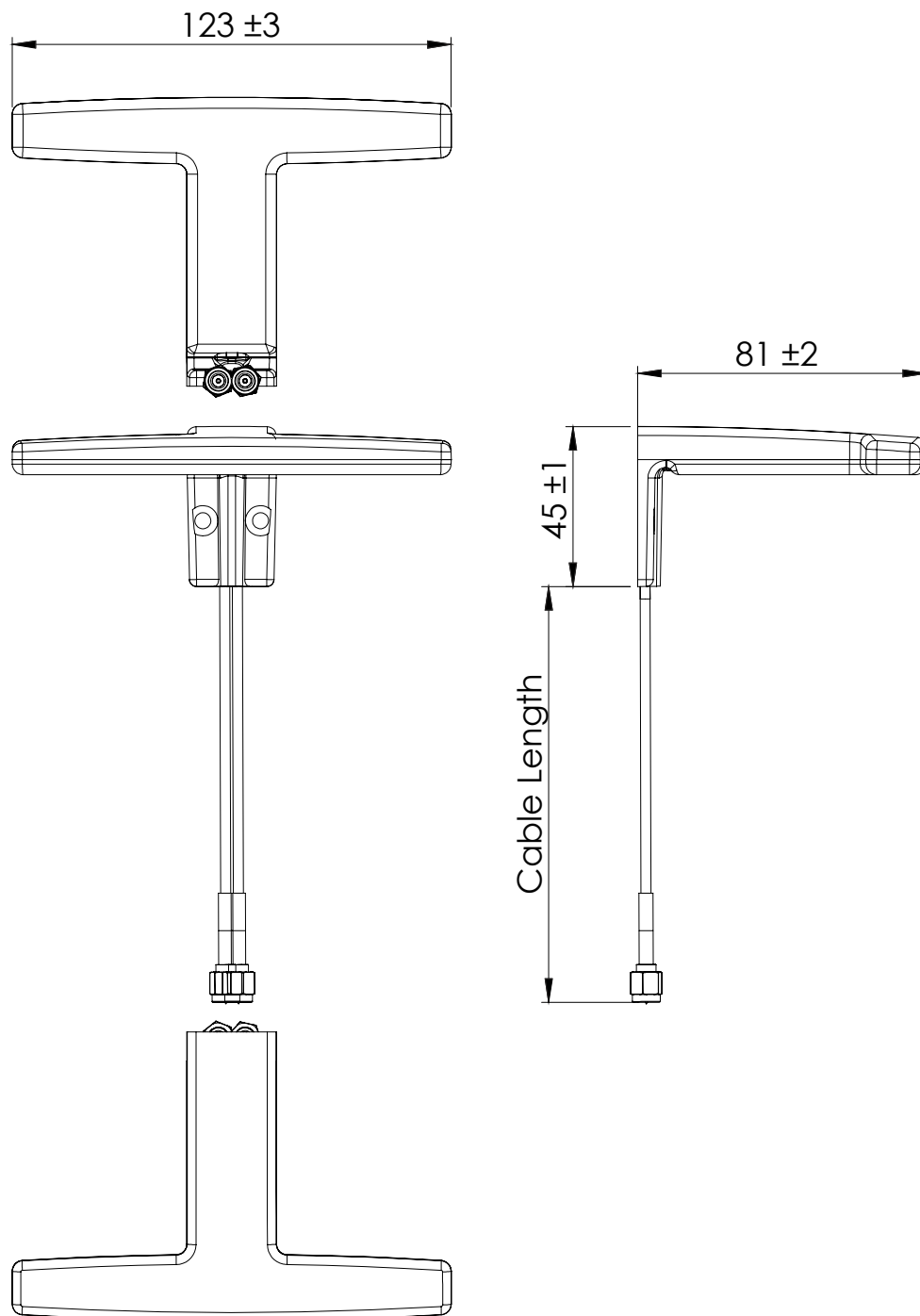


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

## 4. Antenna drawings



Note: Dimensions are in millimeters

## 5. Antenna Images

