

## 2J4847P

Cellular/LTE and 2.4/5.0/6.0 GHZ ISM Adhesive Mount

### Key Features

#### Cable 1: CELLULAR/LTE

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

#### Cable 2: 2.4/5.0/6.0 GHz ISM

- 2410-2490 MHz
- 4920-5925 MHz
- 5925-7125 MHz

Adhesive Mount

Ground Plane Independent

Customizable Cable and Connector

Dimensions 83 x 35 x 13.3 mm

Certificates: IP67, IP69



**Note:** Antenna 2J4847PR equipped with 10K resistor for antenna detection is available.



## 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>	~-13.1	~-16.7	~-11.6
<b>VSWR</b>	~1.9:1	~1.4:1	~1.8:1
<b>Efficiency (%)</b>	~50	~47	~27
<b>Peak Gain (dBi)</b>	~-2.0	~-1.0	~-0.6
<b>Average Gain (dB)</b>	~-3.0	~-3.2	~-5.6
<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	2.4/5.0/6.0 GHz ISM Antenna		
<b>Standards</b>	WiFi, BT, ZigBee, ISM		
<b>Band (MHz)</b>	2.4 GHz	5.0 GHz	6.0 GHz
<b>Frequency (MHz)</b>	2410-2490	4920-5925	5925-7125
<b>Return Loss (dB)</b>	~-11.3	~-9.8	~-14.7
<b>VSWR</b>	~2.0:1	~2.2:1	~1.5:1
<b>Efficiency (%)</b>	~29.1	~27.2	~28.8
<b>Peak Gain (dBi)</b>	~-3.9	~-4.4	~-4.1
<b>Average Gain (dB)</b>	~-5.4	~-5.7	~-5.4
<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>	RP-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:**

Mounted on 30 x 30 x 0.25 cm ABS Plate

200 cm of Cable LL100

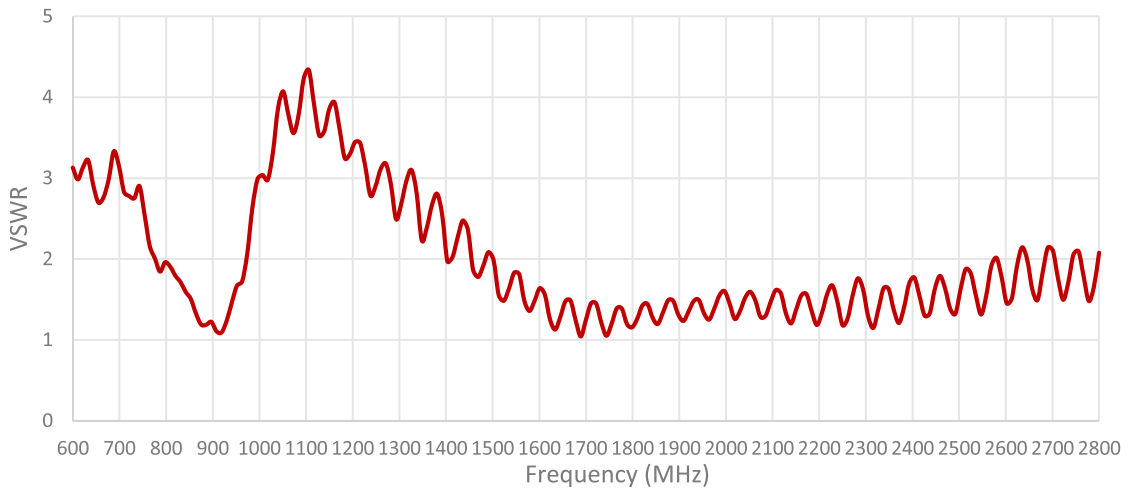
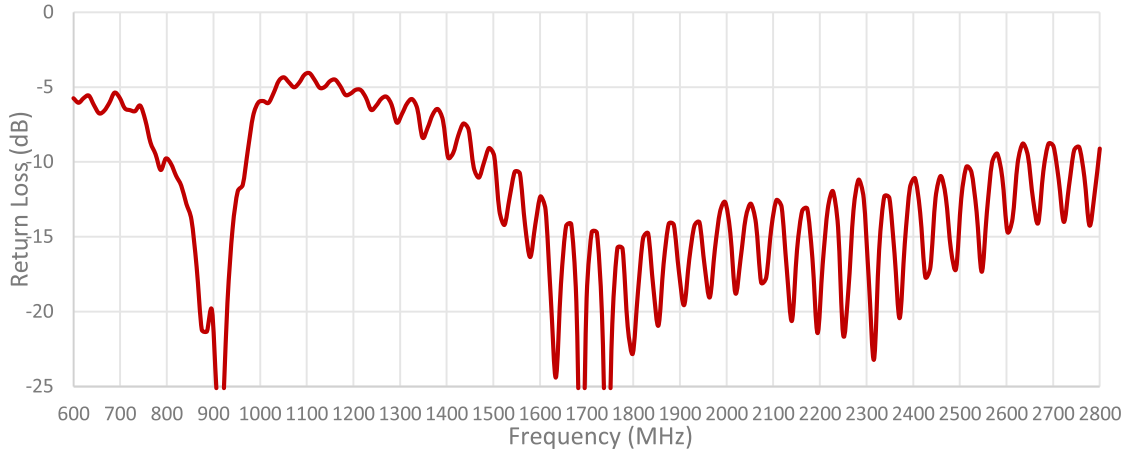
Measured in Certified CTIA 3D Anechoic Chamber

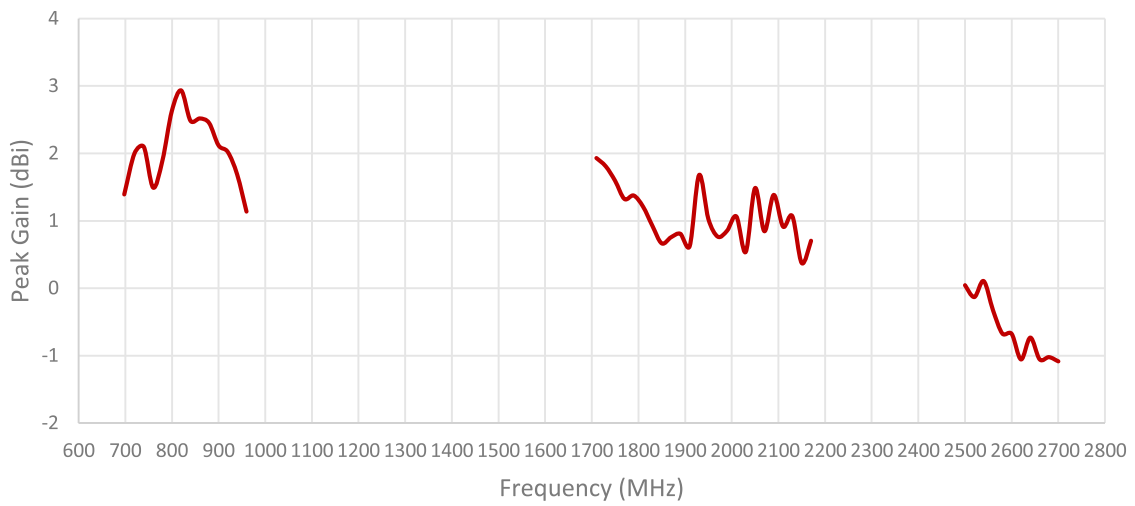
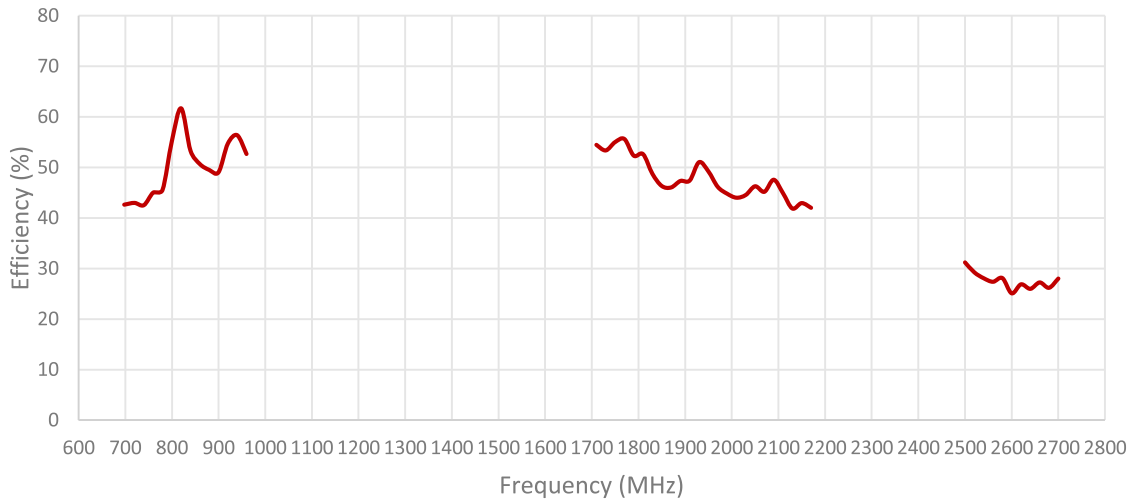
## 2. Mechanical and environmental specifications

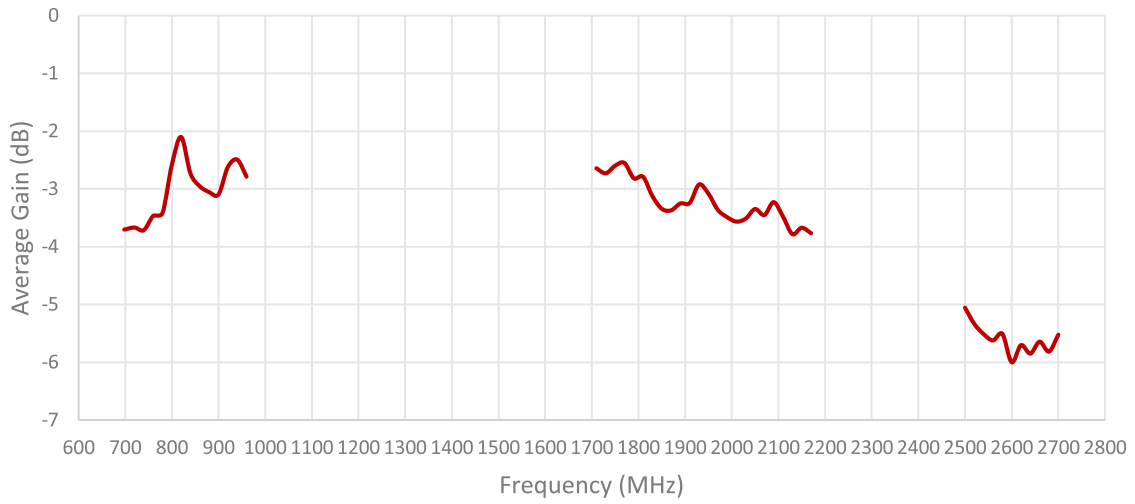
Specifications	2J4847P
<b>Mounting Type</b>	Adhesive Mount
<b>Dimensions (mm)</b>	83 x 35 x 13.3
<b>Radome</b>	ASA
<b>Radome color</b>	Black
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS
<b>Certificates</b>	IP67, IP69

### 3. Antenna parameters

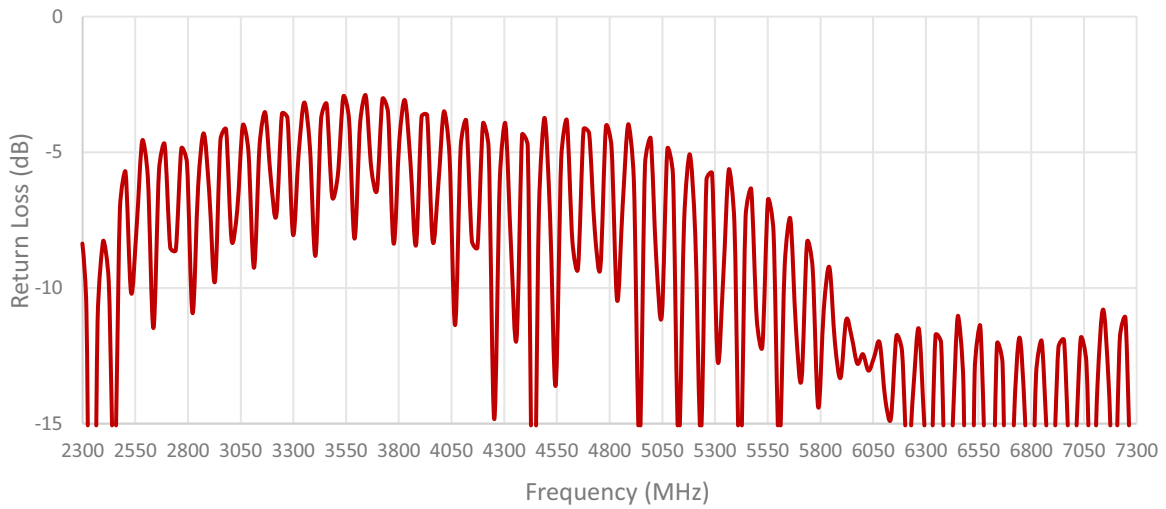
Cable 1: CELLULAR/LTE

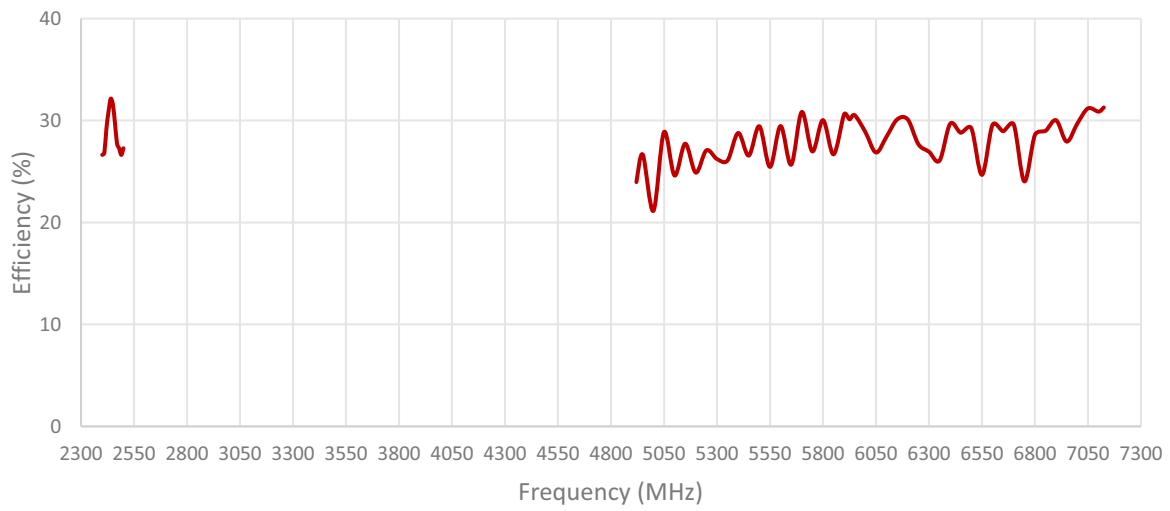
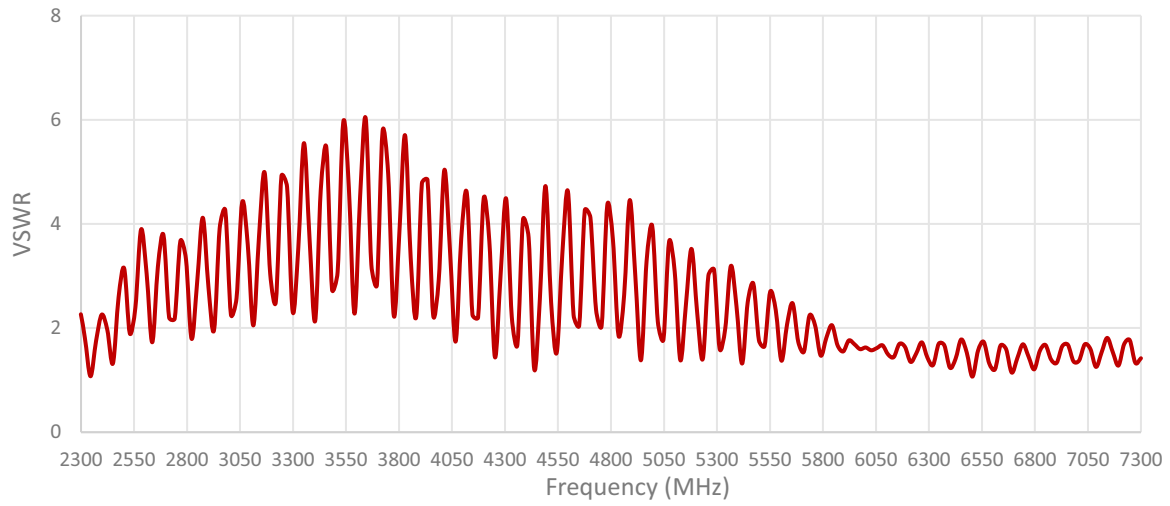


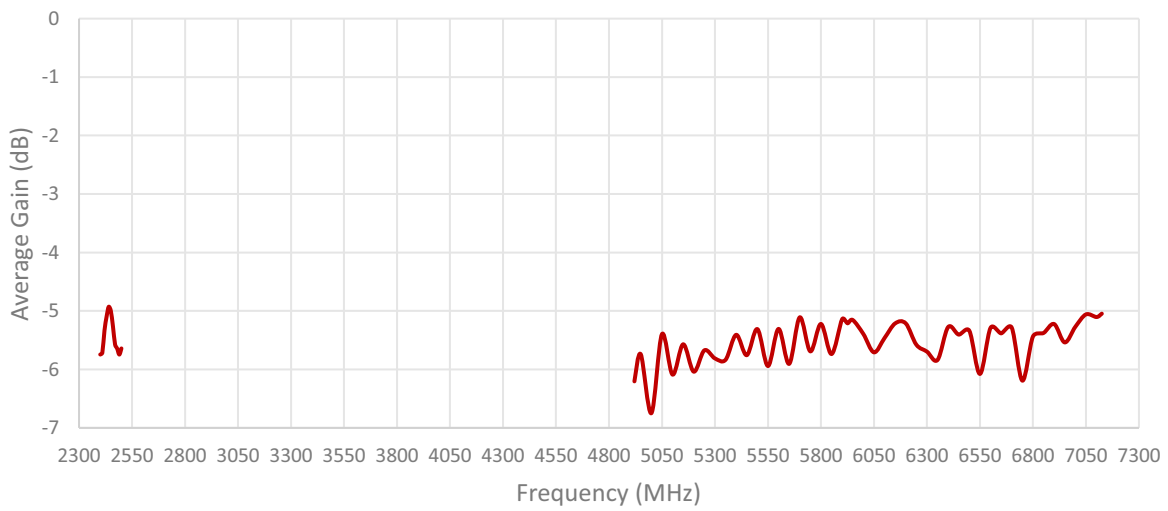
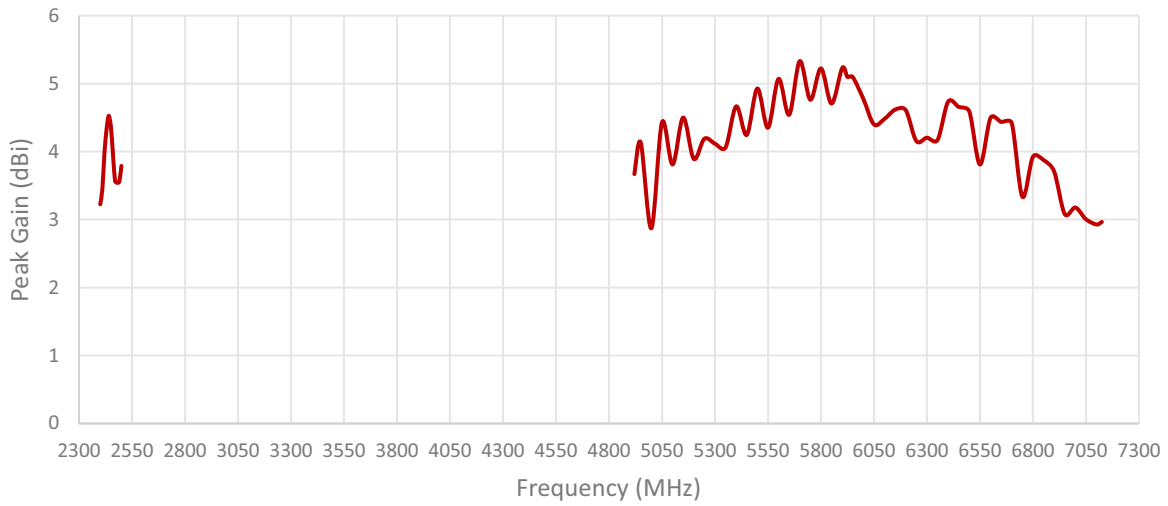




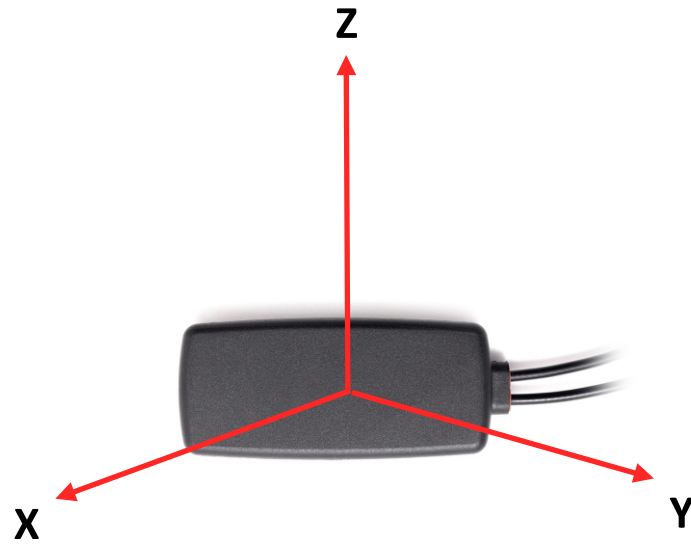
Cable 2: 2.4/5.0/6.0 GHz ISM





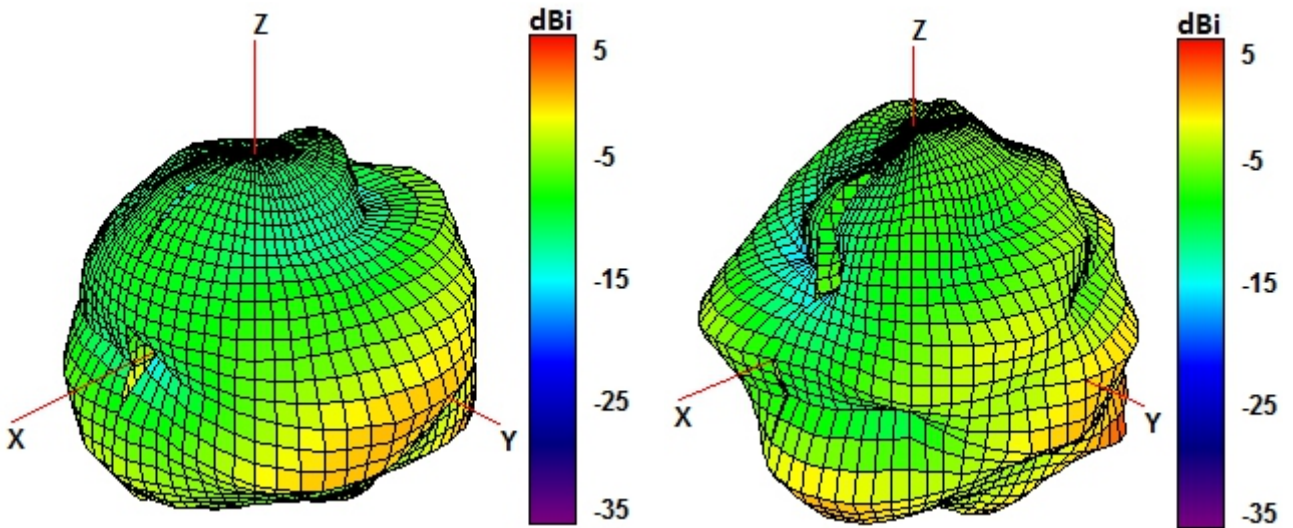




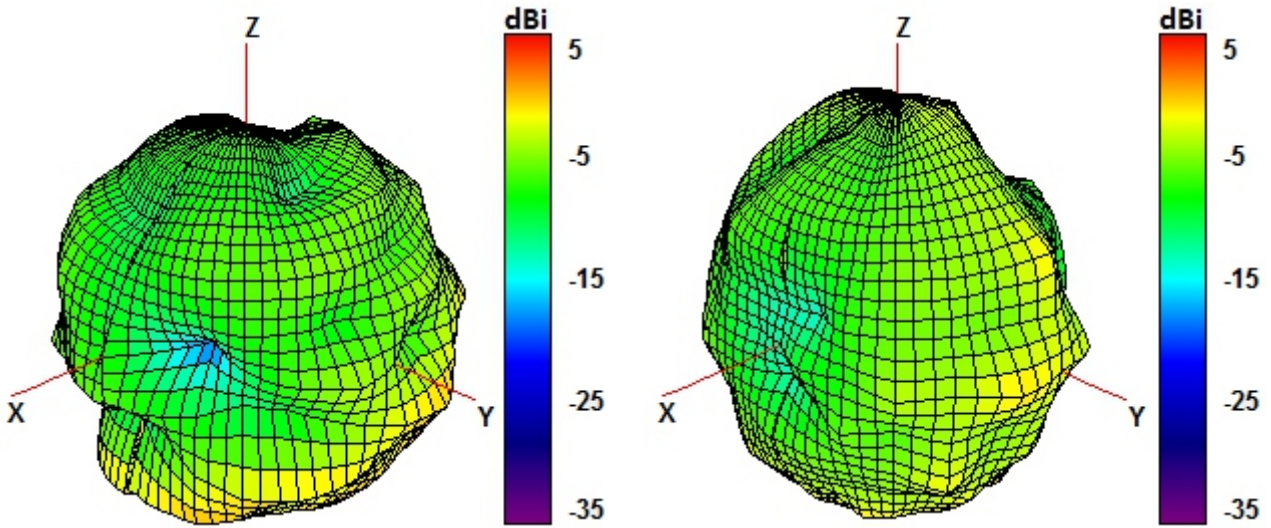


Radiation pattern reference

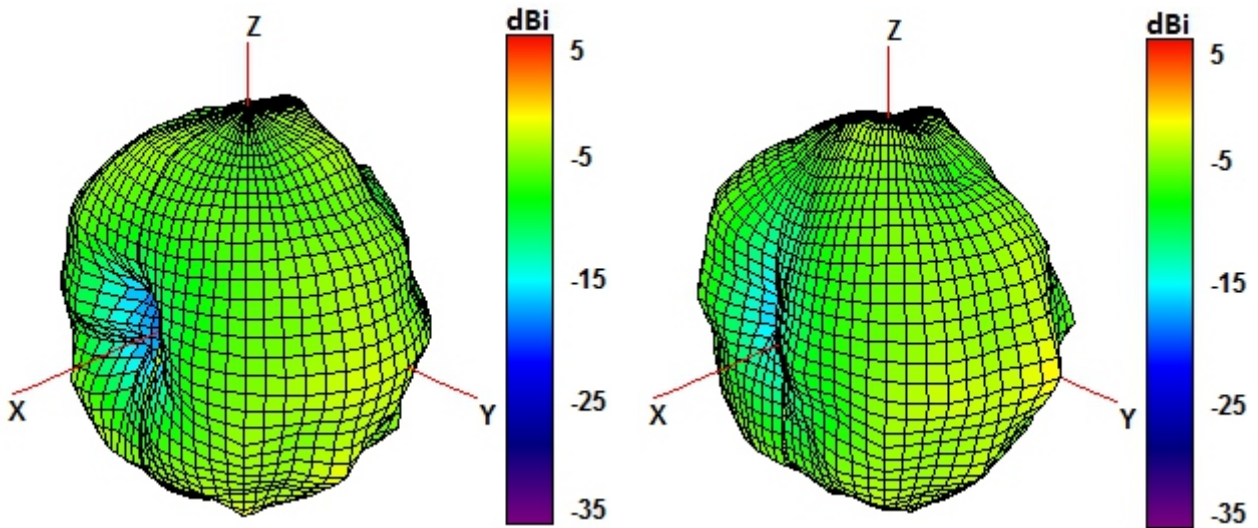
Cable 1: CELLULAR/LTE



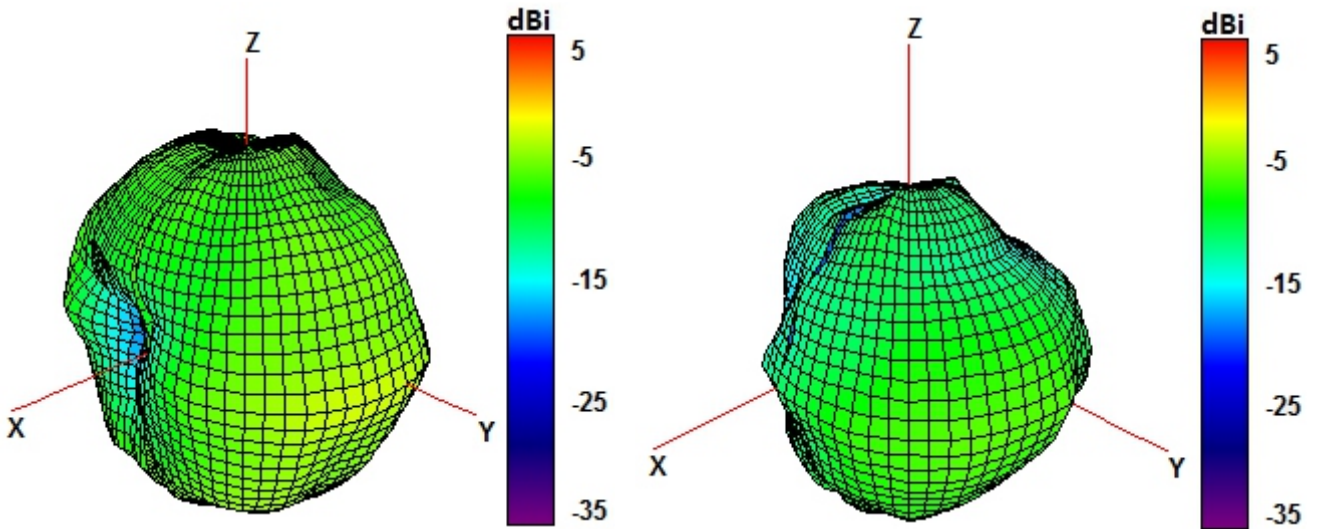
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

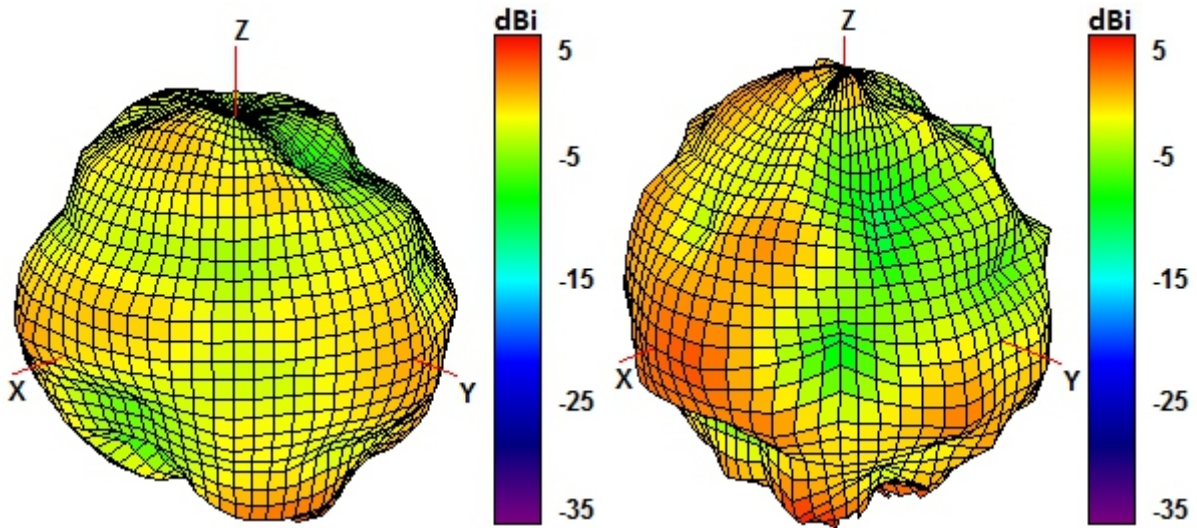


1850 and 1950 MHz Radiation pattern

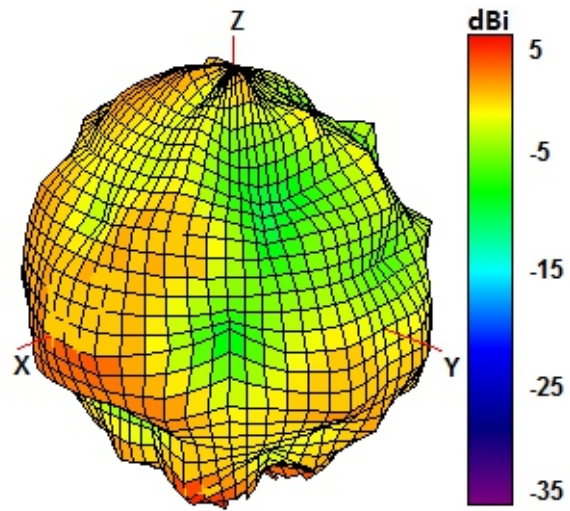


2100 and 2600 MHz Radiation pattern

Cable 2: 2.4/5.0/6.0

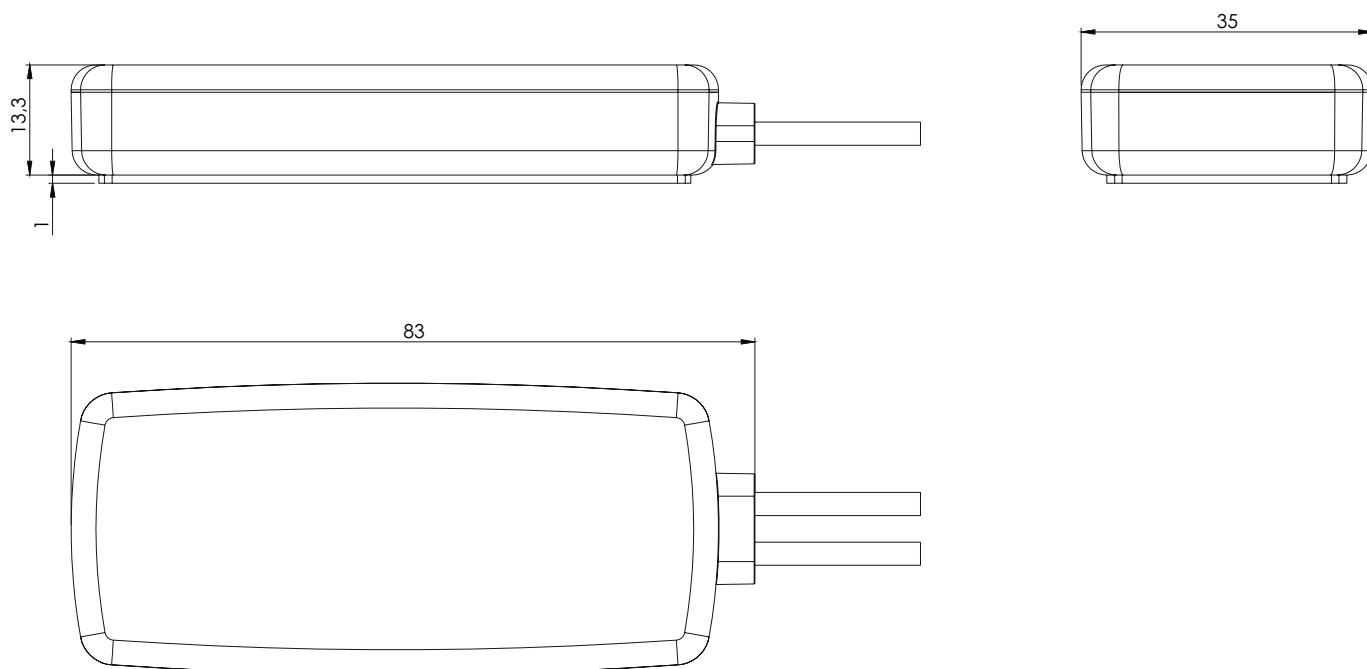


2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

## 4. Antenna drawings



## 5. Antenna Images

