

# OPT1-ANT-4GS-21

CELLULAR / LTE  
Screw Mount Antenna

## Key Features

### Cable 1: CELLULAR / LTE

- 698-960 MHz

- 1710-2170 MHz

- 2500-2700 MHz

Screw Mount

Anti-Rotation Mechanism

Ground Plane Independent

Customizable Cable and Connector

Dimensions: Ø 50 x 50.8 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>	~-10.1	~-11.5	~-7.5
<b>VSWR</b>	~2.1:1	~1.8:1	~2.5:1
<b>Efficiency (%)</b>	~56.4	~56.1	~37.8
<b>Peak Gain (dBi)</b>	~2.6	~3.2	~1.4
<b>Average Gain (dB)</b>	~-2.5	~-2.5	~-4.2
<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>	200 cm Standard (Any Cable Length Available)		
<b>Cable Type</b>	DACAR100 Standard (Other Cables Available)		

### Antenna Measurement Conditions:

Mounted on 30 x 30 cm Ground Plane

DACAR100 200 cm Cable Length

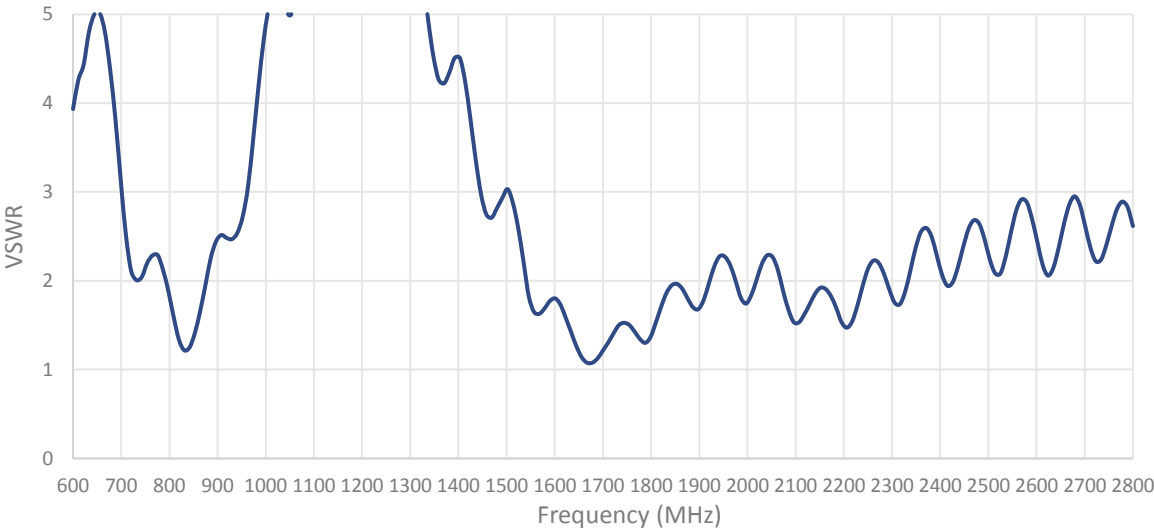
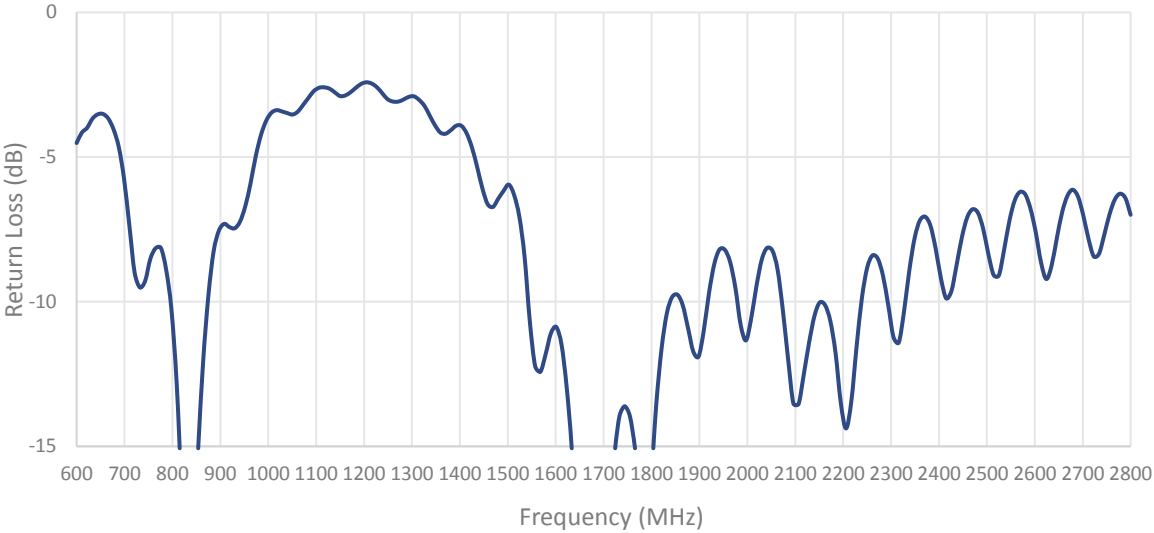
Measured in Certified CTIA 3D Anechoic Chamber

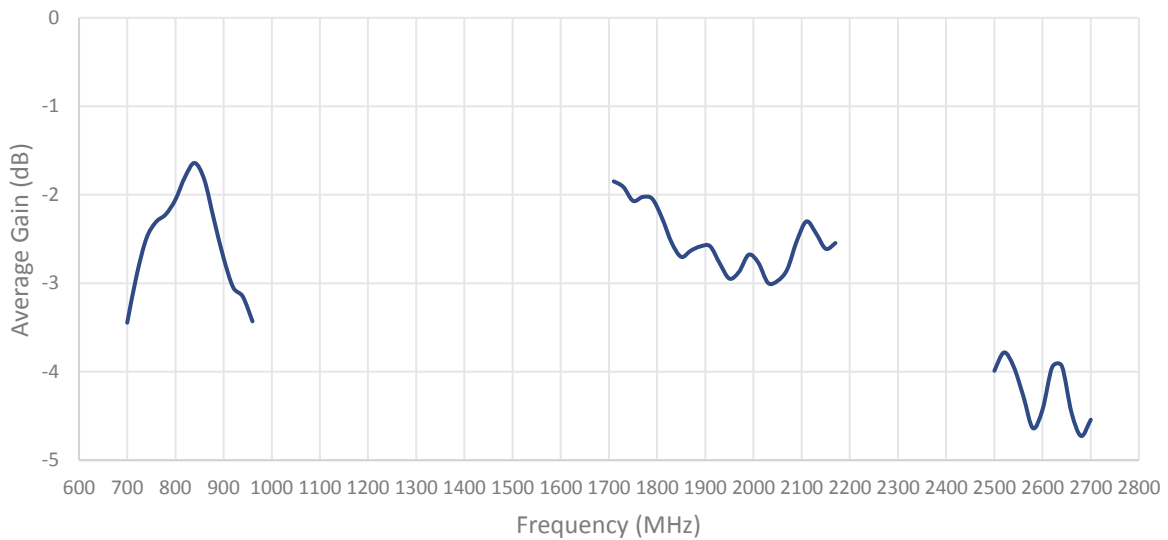
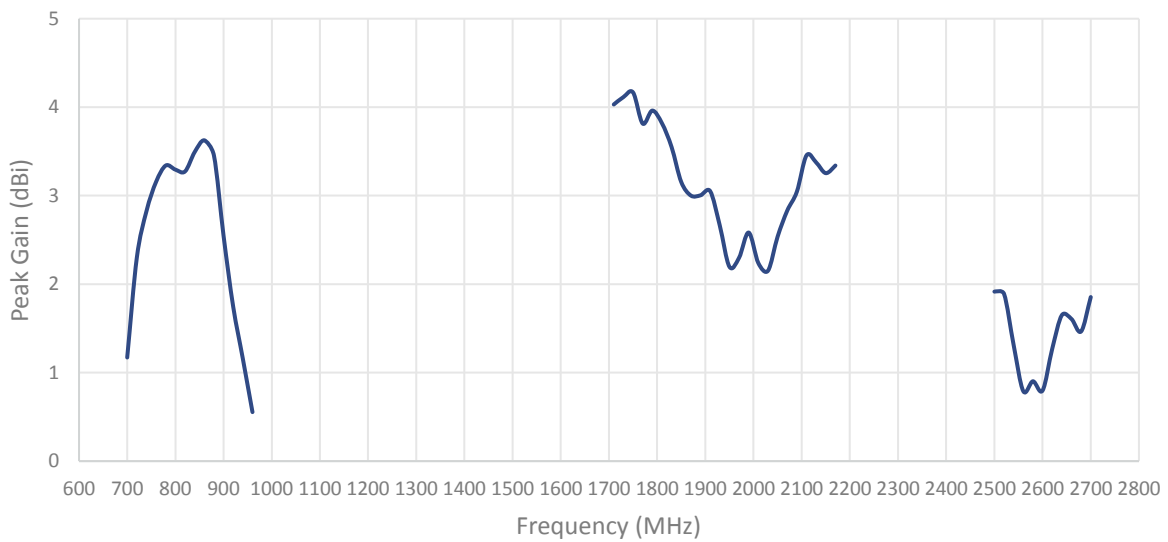
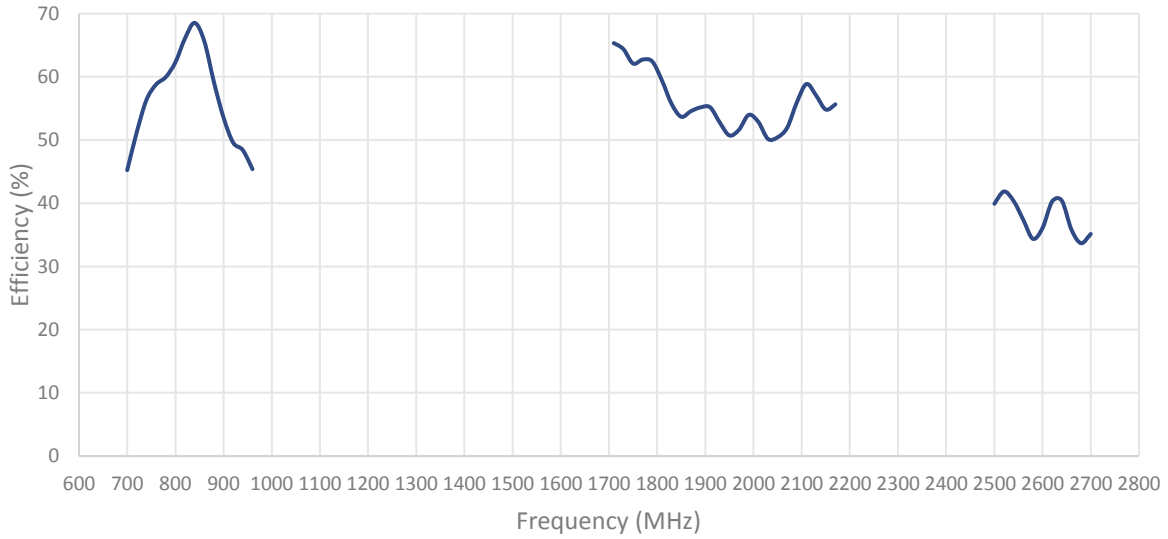
## 2. Mechanical and environmental specifications

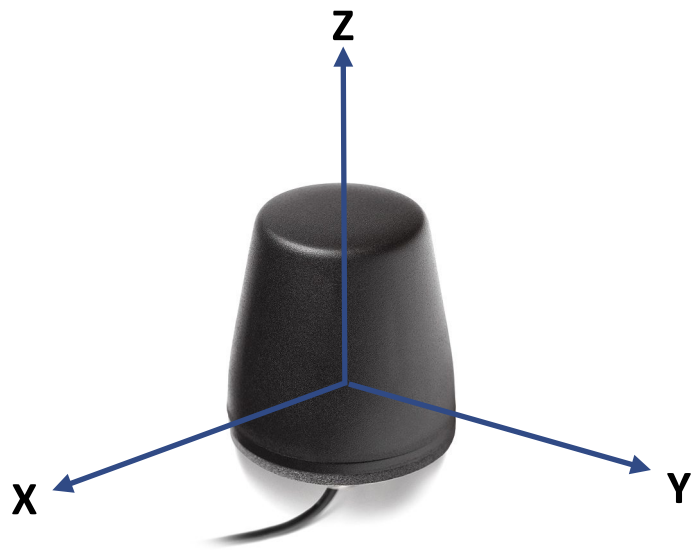
Specifications	OPT1-ANT-4GS-21
<b>Mounting Type</b>	Screw Mount
<b>Dimensions (mm)</b>	Ø 50 x 50.8
<b>Rec. Tighten Torque (Nm)</b>	3 Nm
<b>Radome Type</b>	ASA
<b>Radome Color</b>	Black
<b>Gasket</b>	Double Sided Foam
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS
<b>Certificates</b>	IP67, IP69

## 3. Antenna parameters

Cable 1: CELLULAR/LTE

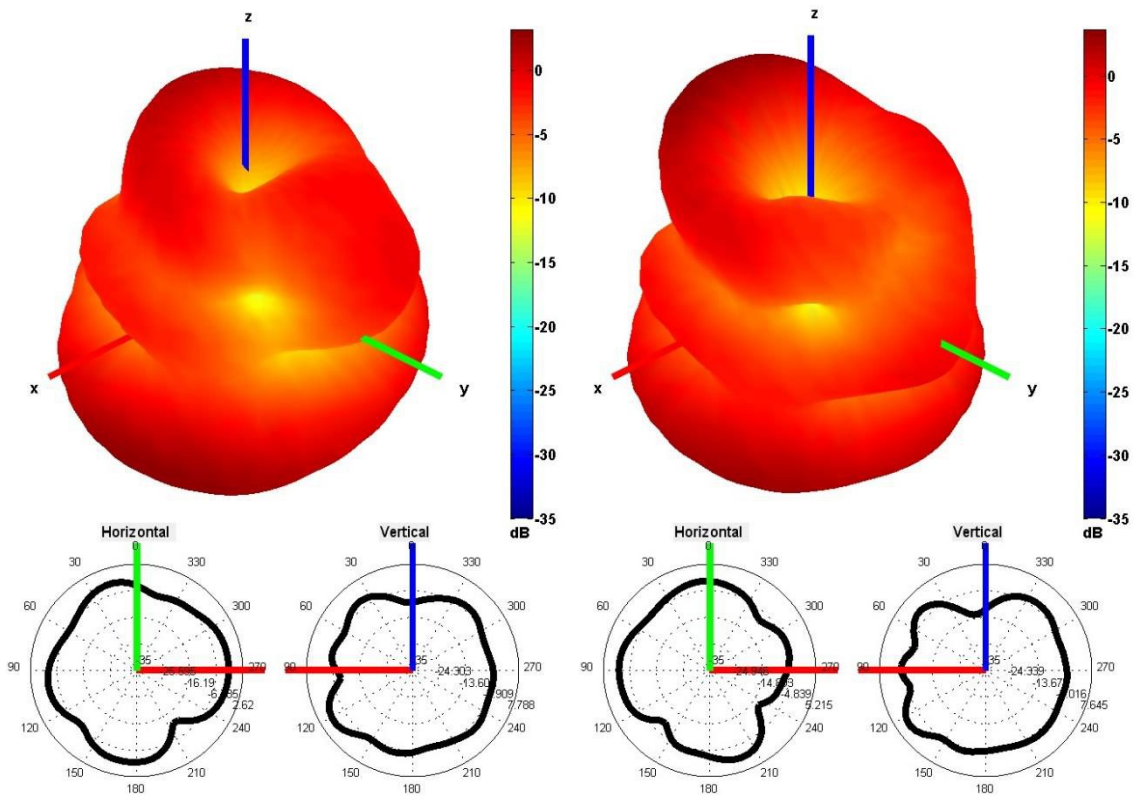




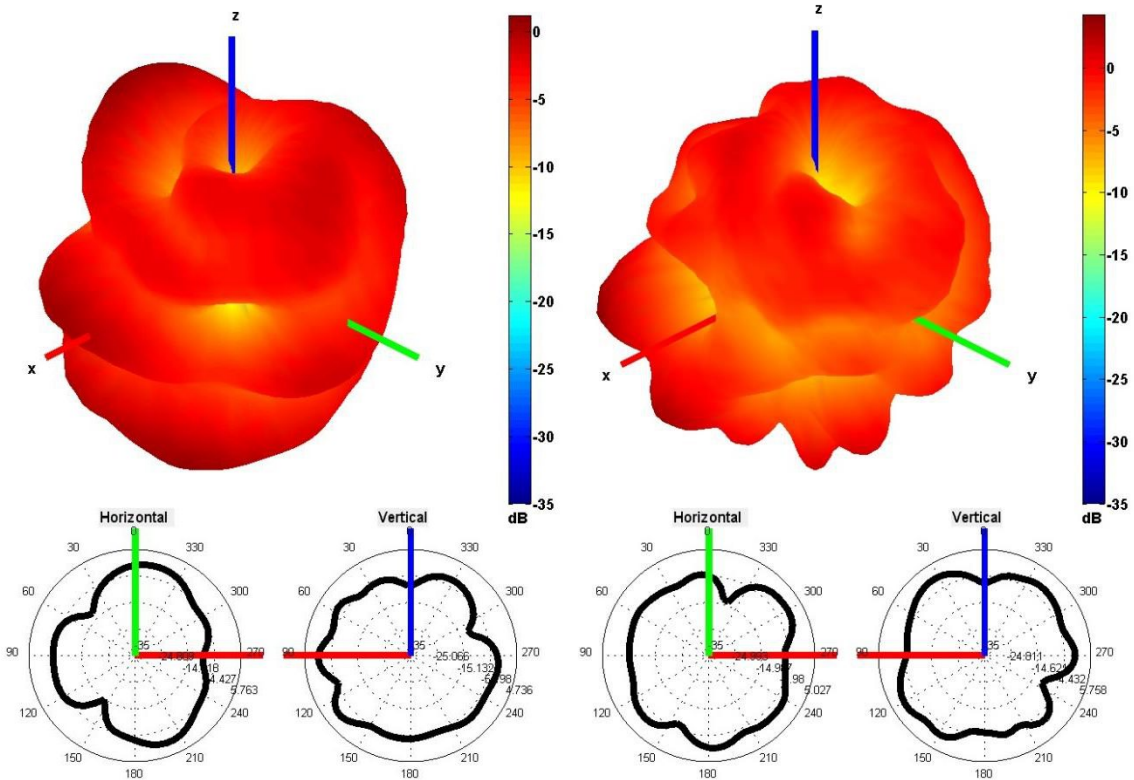


Radiation pattern reference

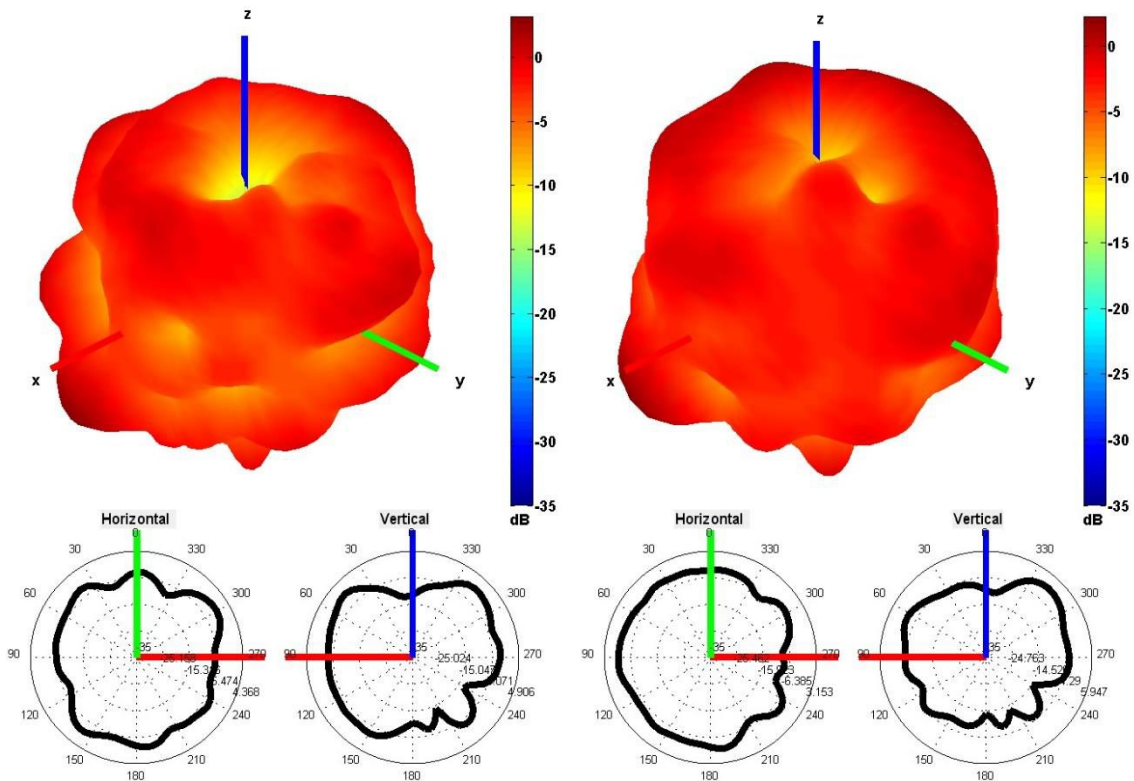
Table 1: CELLULAR/LTE



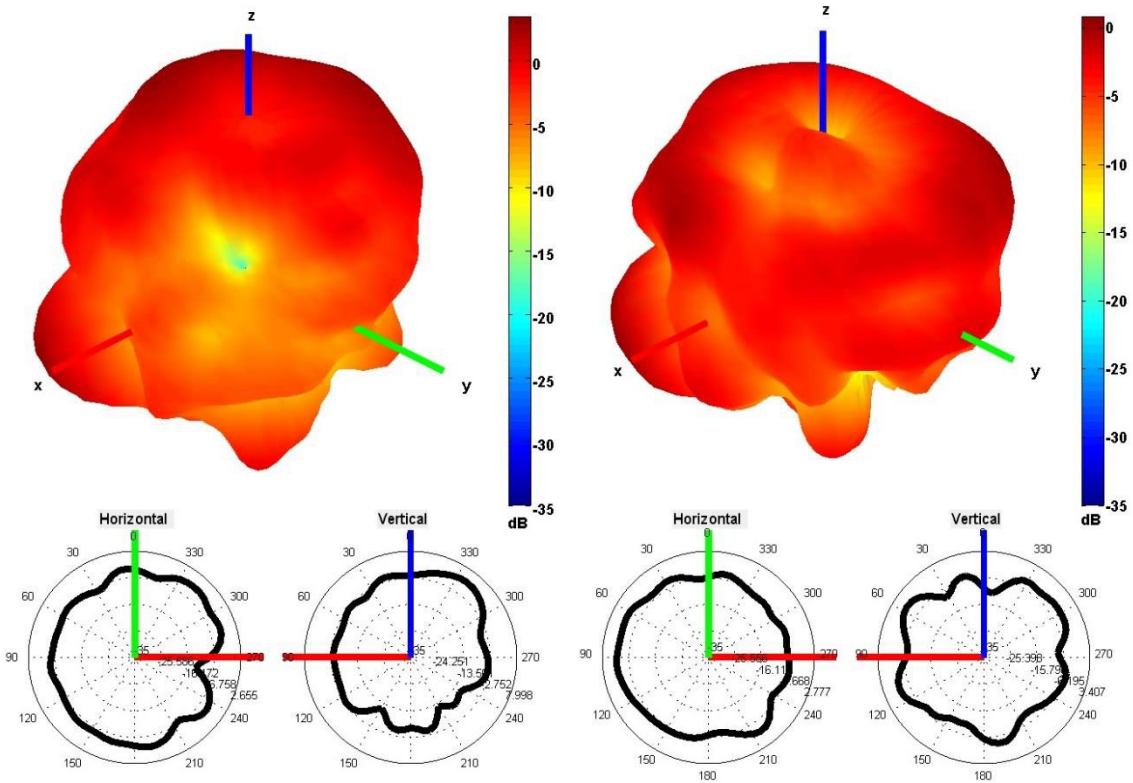
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

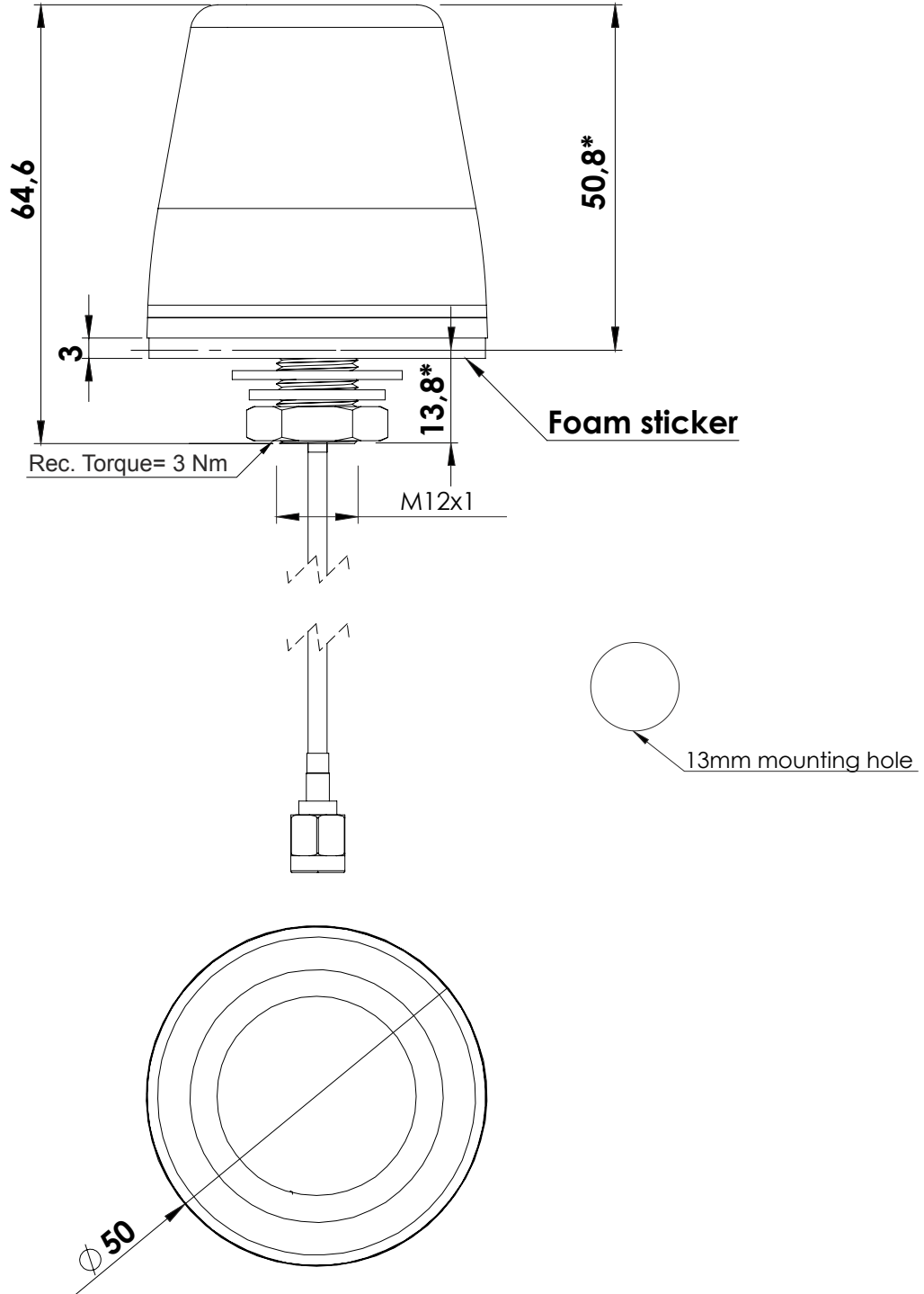


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

## 4. Antenna drawings



Note: Dimensions are in millimeters  
\*Dimensions are after mounting  
\*\*Reccomended Torque= 3 Nm

5. Antenna Images

