

# 2J6024Ba

## CELLULAR/LTE MIMO Screw Mount

### Key Features

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

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

Screw Mount

Ground Plane Independent

Customizable Cable and Connector

Dimensions 80 x 74 x 14.7 mm



**Note:** 19mm Thread is Default Option. See Drawing for other Thread Options 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>	~-9.4	~-7.8	~-19.4
<b>VSWR</b>	~2.1:1	~2.4:1	~1.3:1
<b>Efficiency (%)</b>	~31.5	~30.4	~43.8
<b>Peak Gain (dBi)</b>	~-0.7	~-2.7	~-4.3
<b>Average Gain (dB)</b>	~-5.0	~-5.2	~-3.6
<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	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>	~-9.9	~-8.1	~-19.5
<b>VSWR</b>	~2.0:1	~2.3:1	~1.3:1
<b>Efficiency (%)</b>	~33.0	~29.5	~43.1
<b>Peak Gain (dBi)</b>	~-1.4	~-2.2	~-4.4
<b>Average Gain (dB)</b>	~-4.8	~-5.5	~-3.7
<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:**

Mounted on 30 x 30 x 0.25 cm Metal Plate

200 cm of Cable LL100

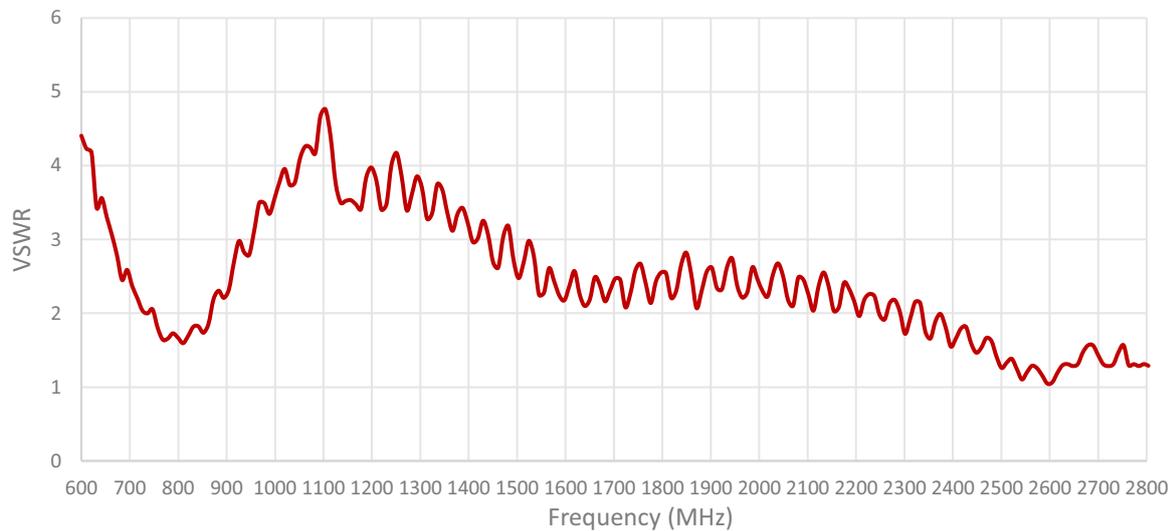
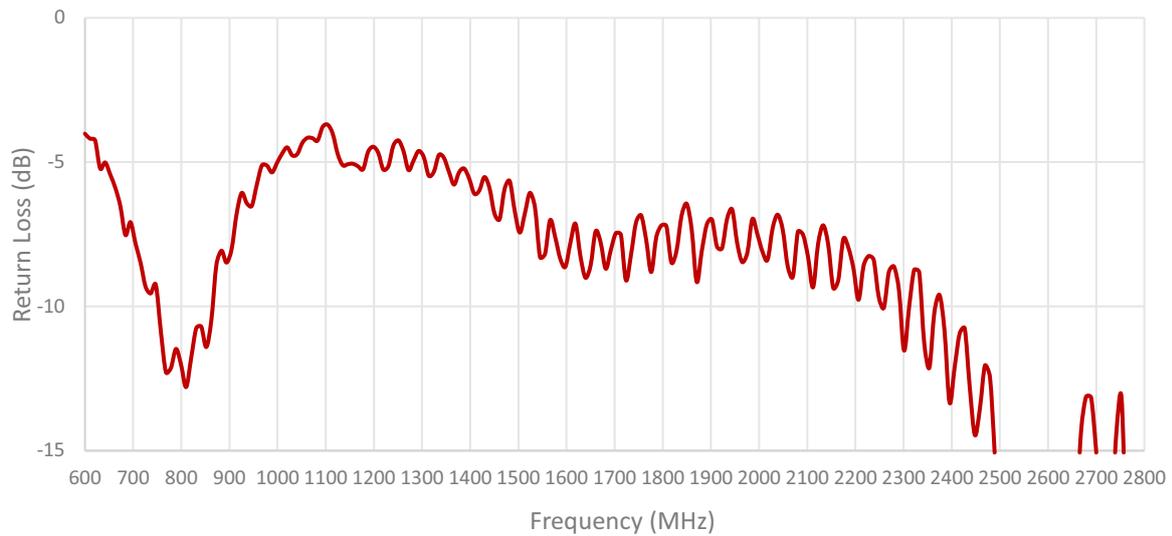
Measured in Certified CTIA 3D Anechoic Chamber

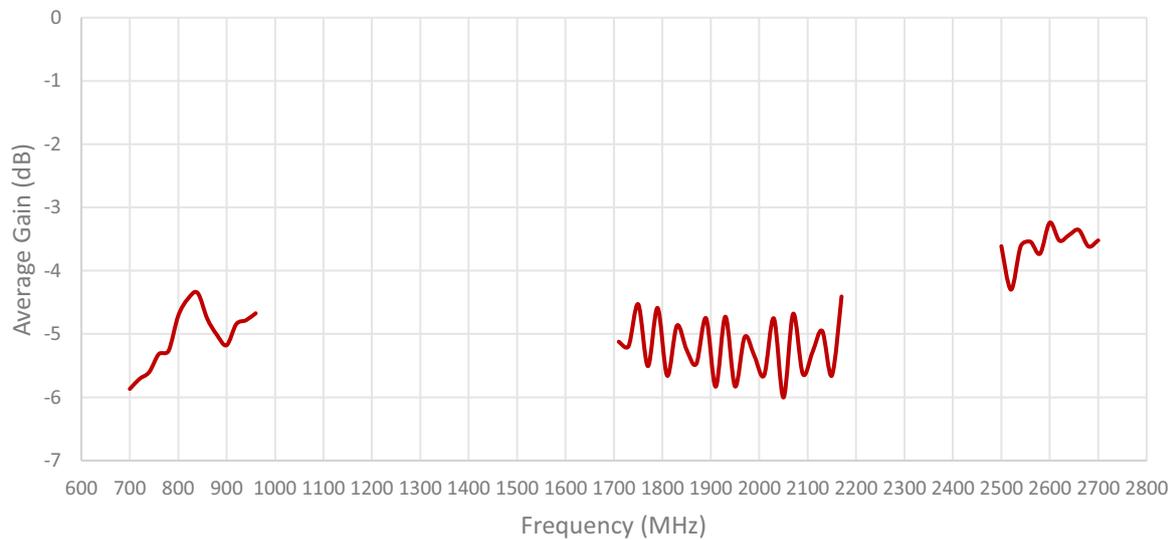
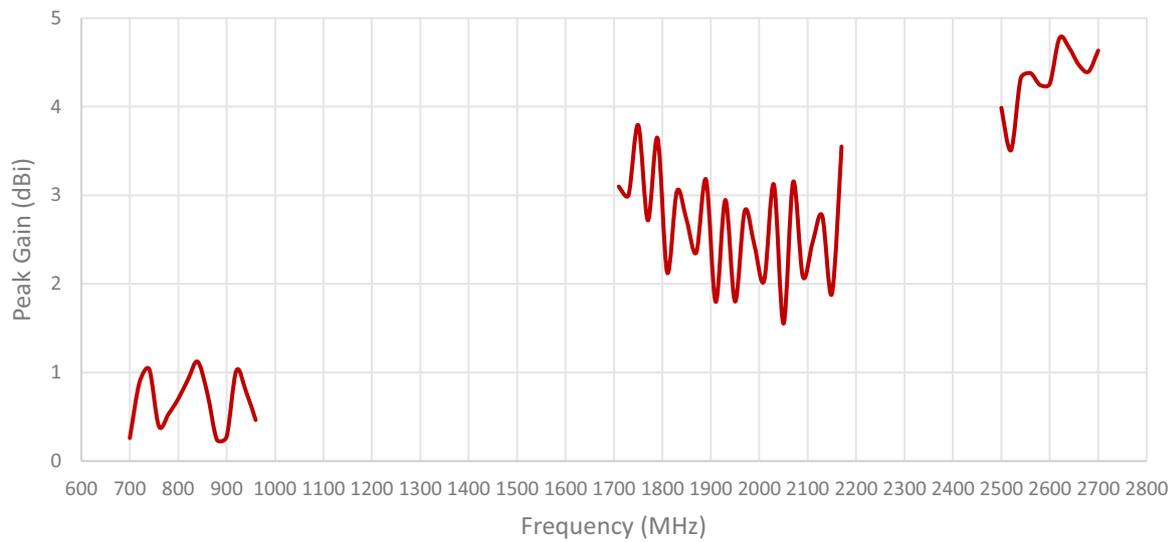
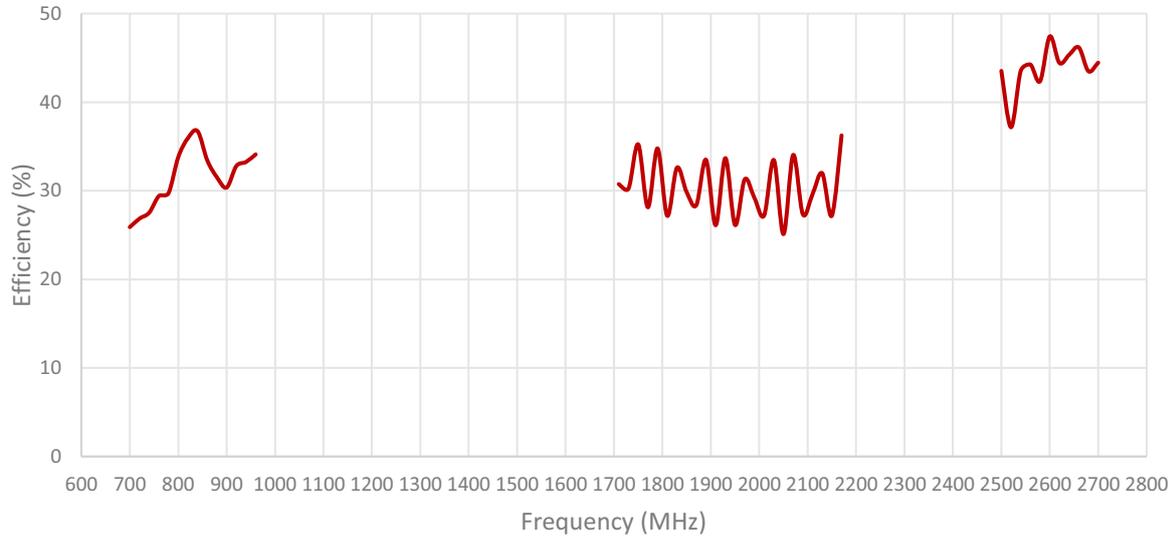
## 2. Mechanical and environmental specifications

Specifications	2J6024Ba
<b>Mounting Type</b>	Screw Mount
<b>Dimensions (mm)</b>	80 x 74 x 14.7
<b>Rec. Tighten Torque (Nm)</b>	5 Nm
<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

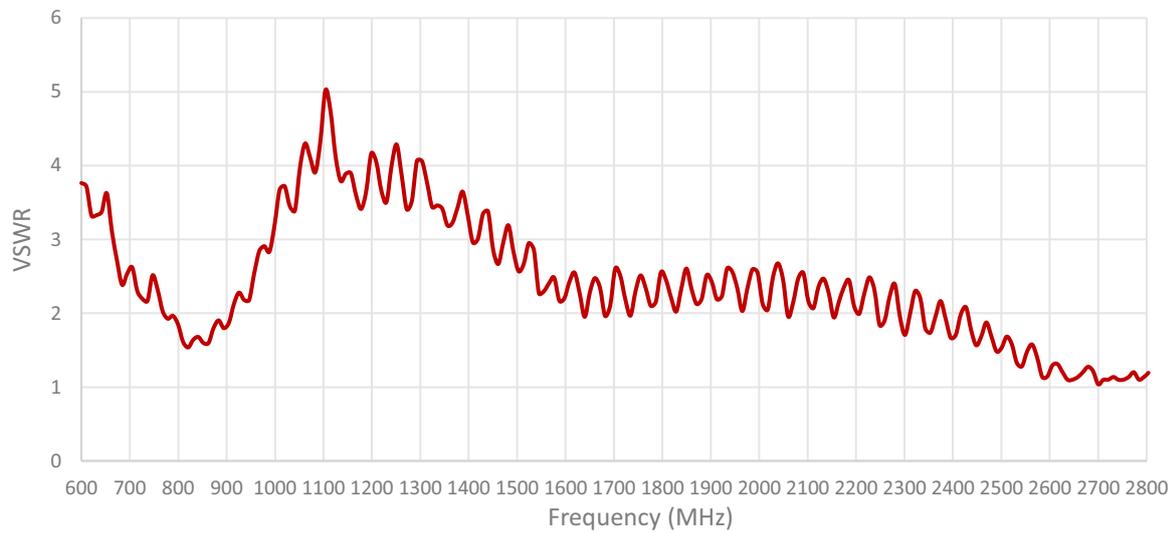
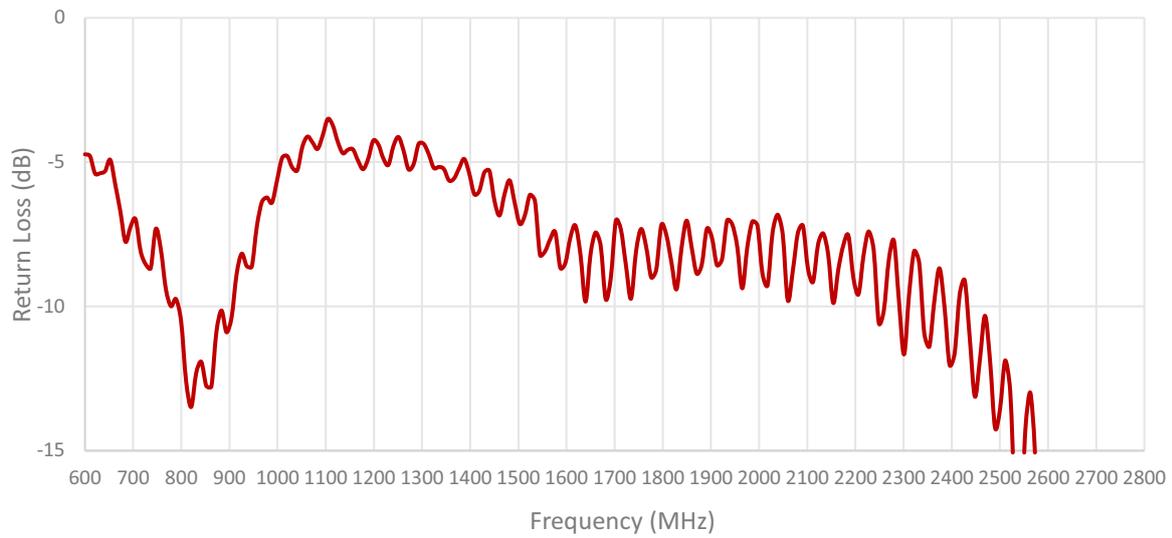
## 3. Antenna parameters

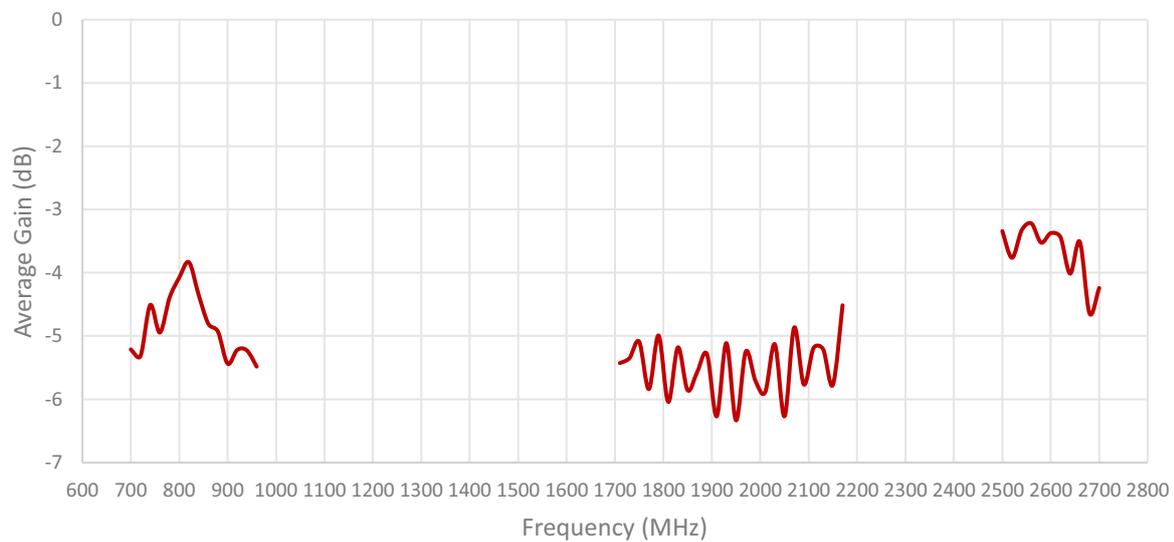
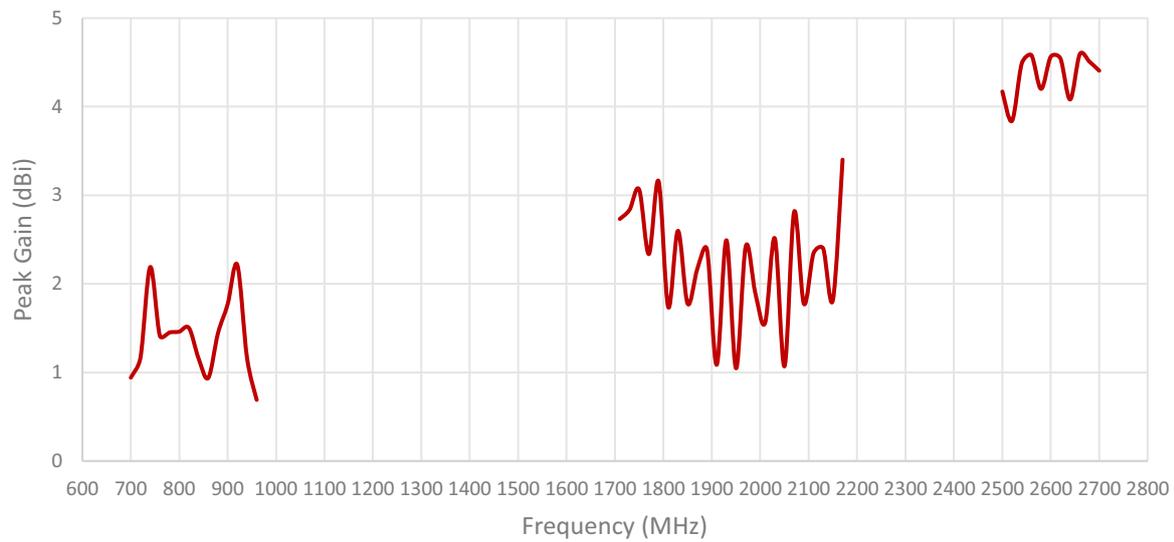
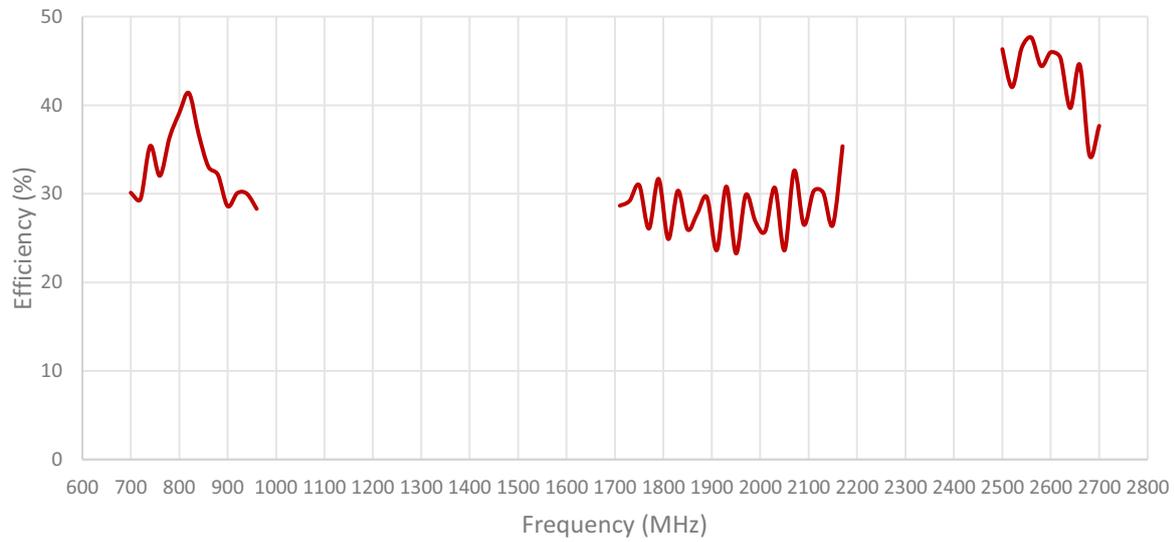
Cable 1: CELLULAR/LTE



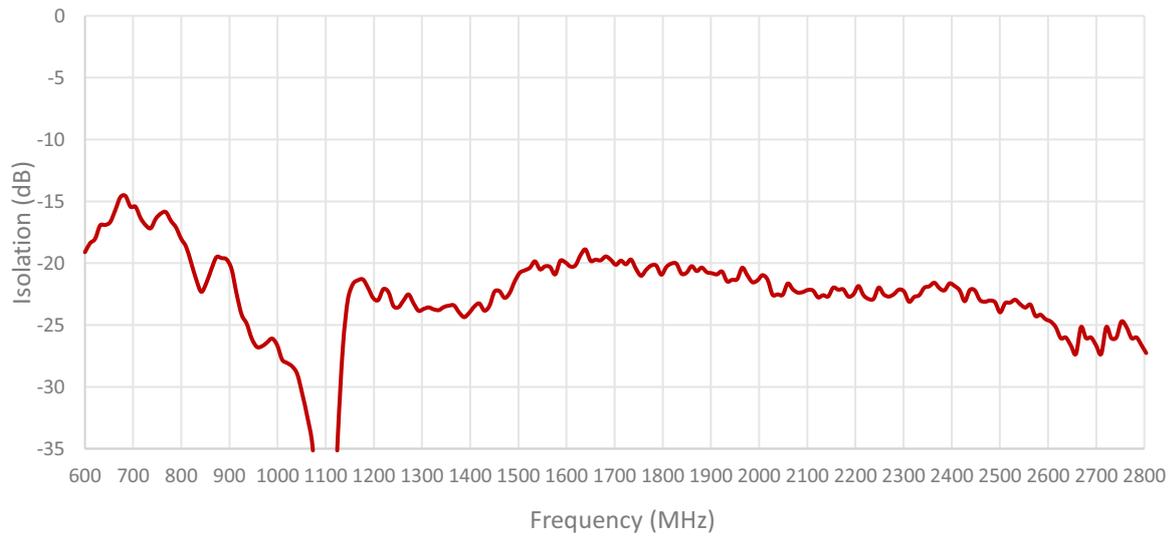


Cable 2: CELLULAR/LTE

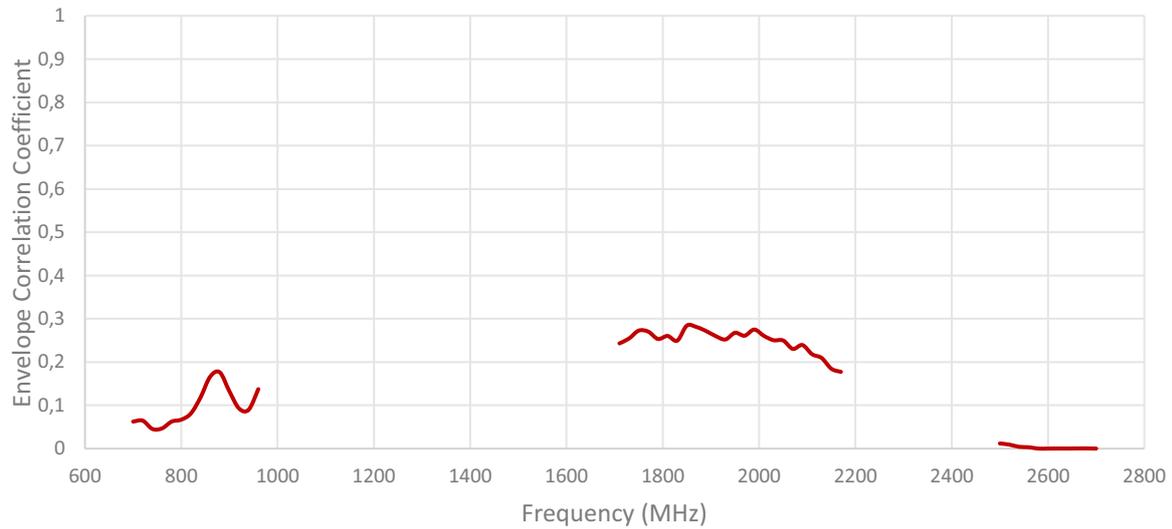


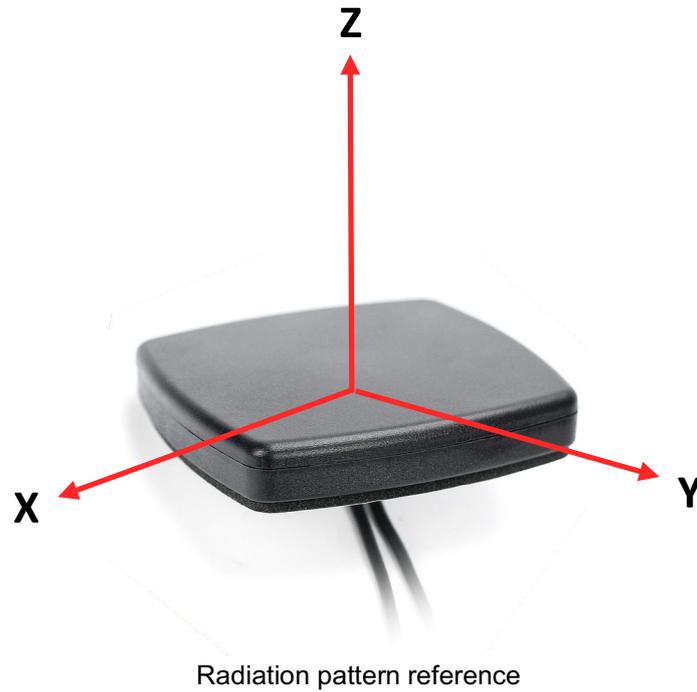


## ISOLATION FOR CABLES 1 AND 2

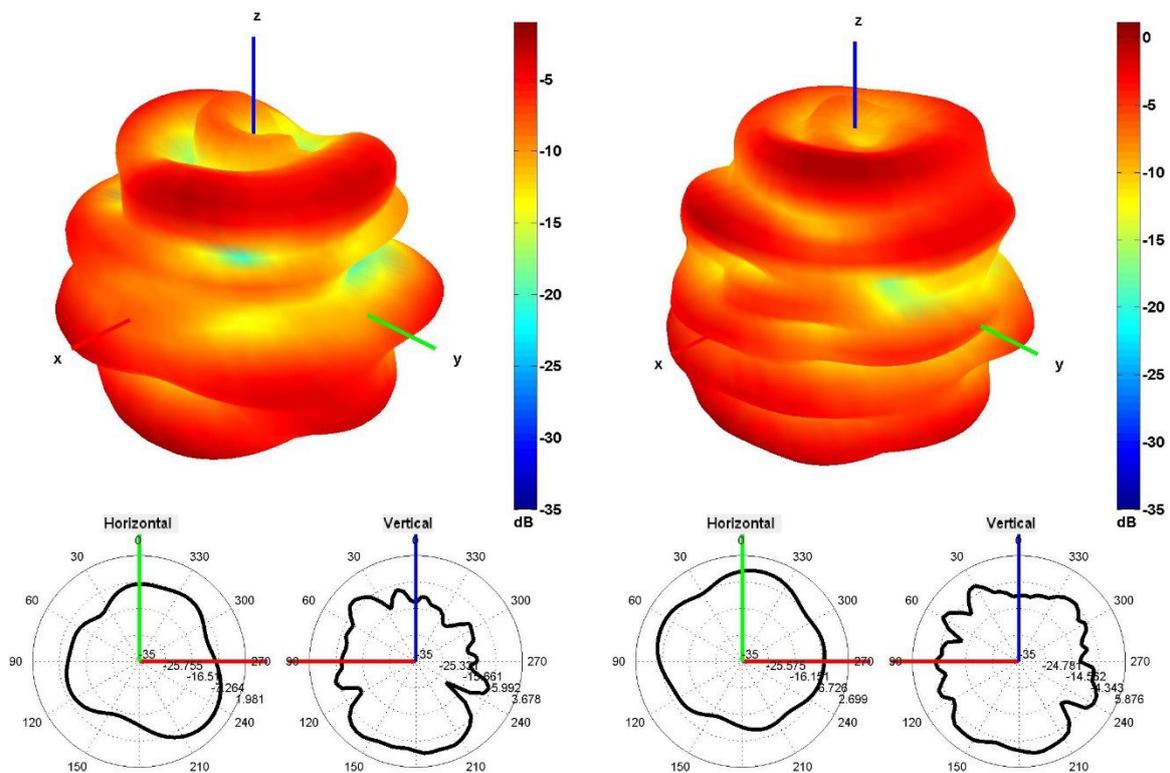


## ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2

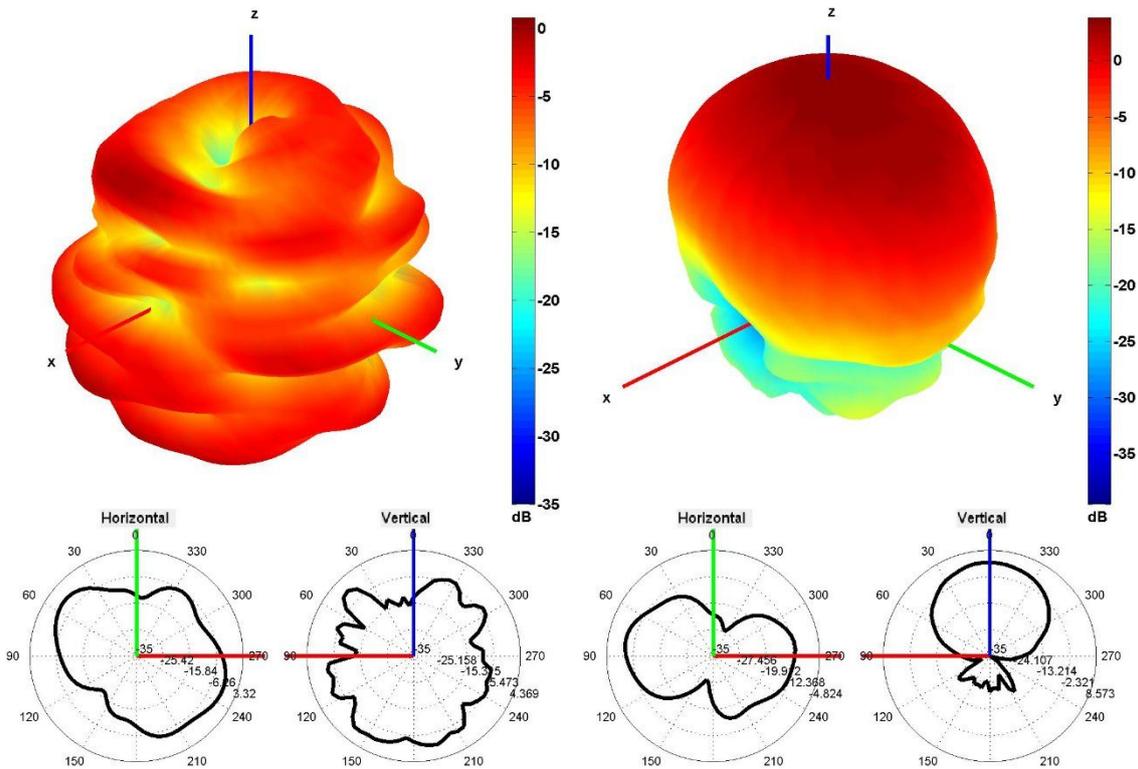




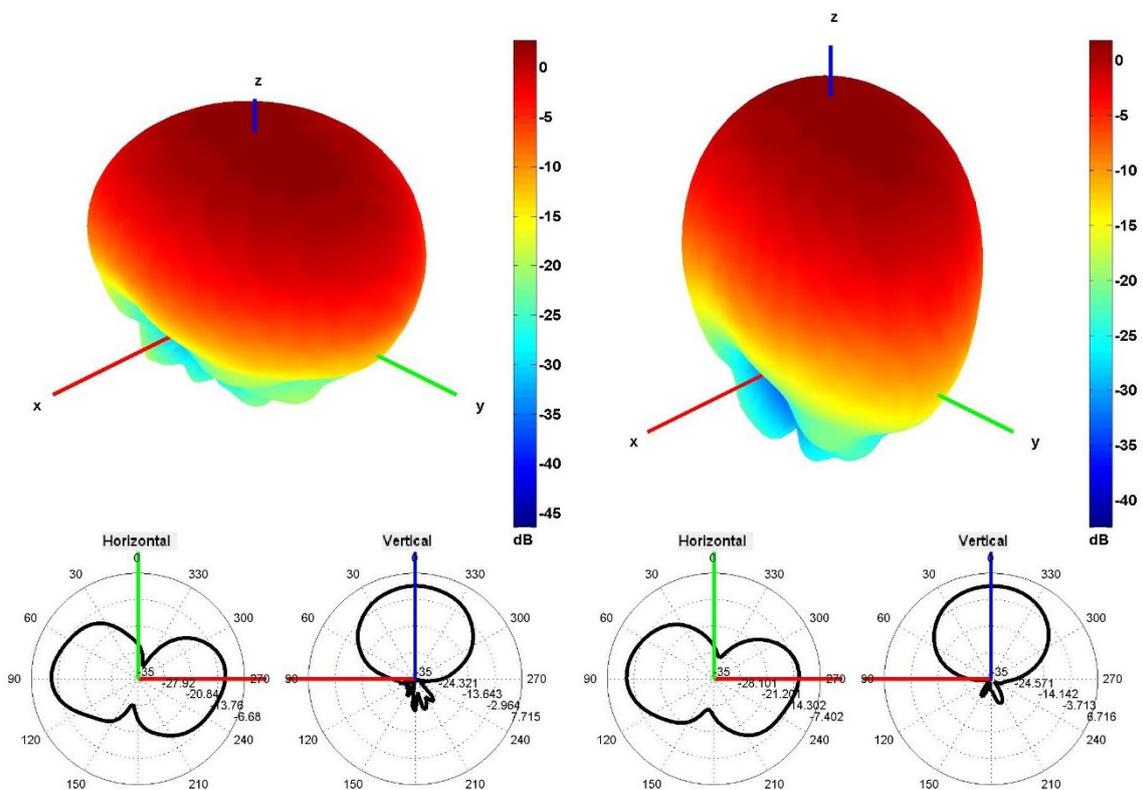
Cable 1: CELLULAR/LTE



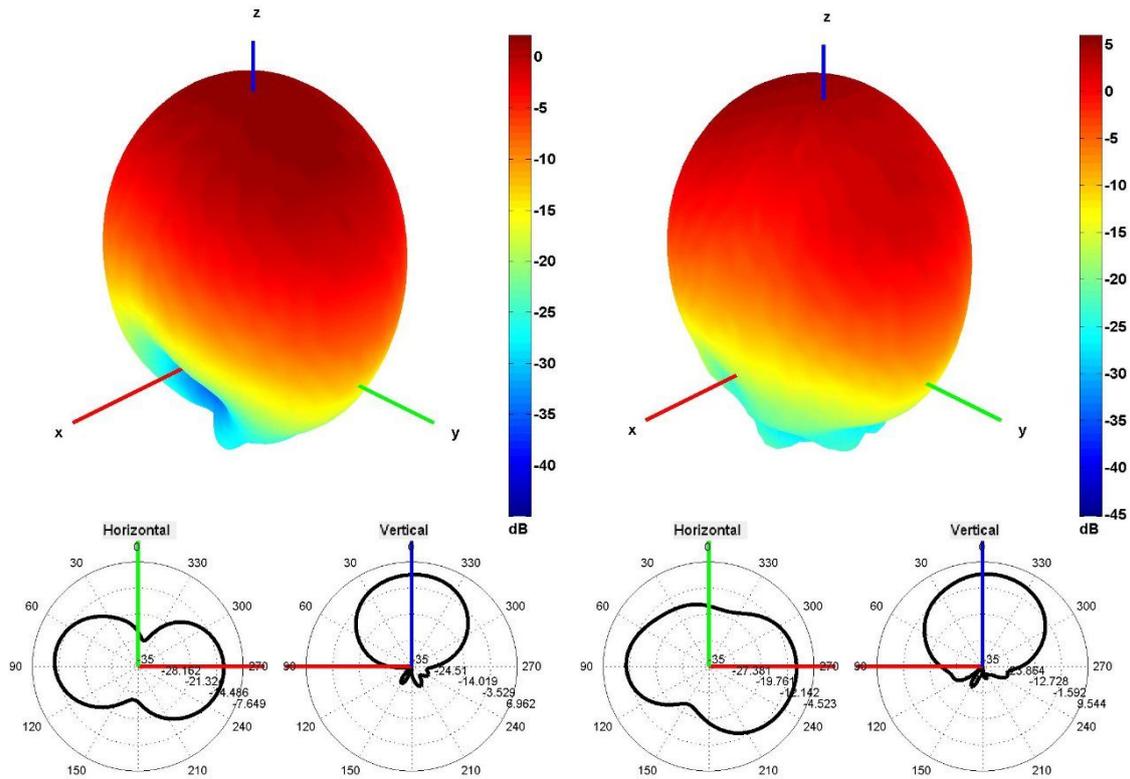
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

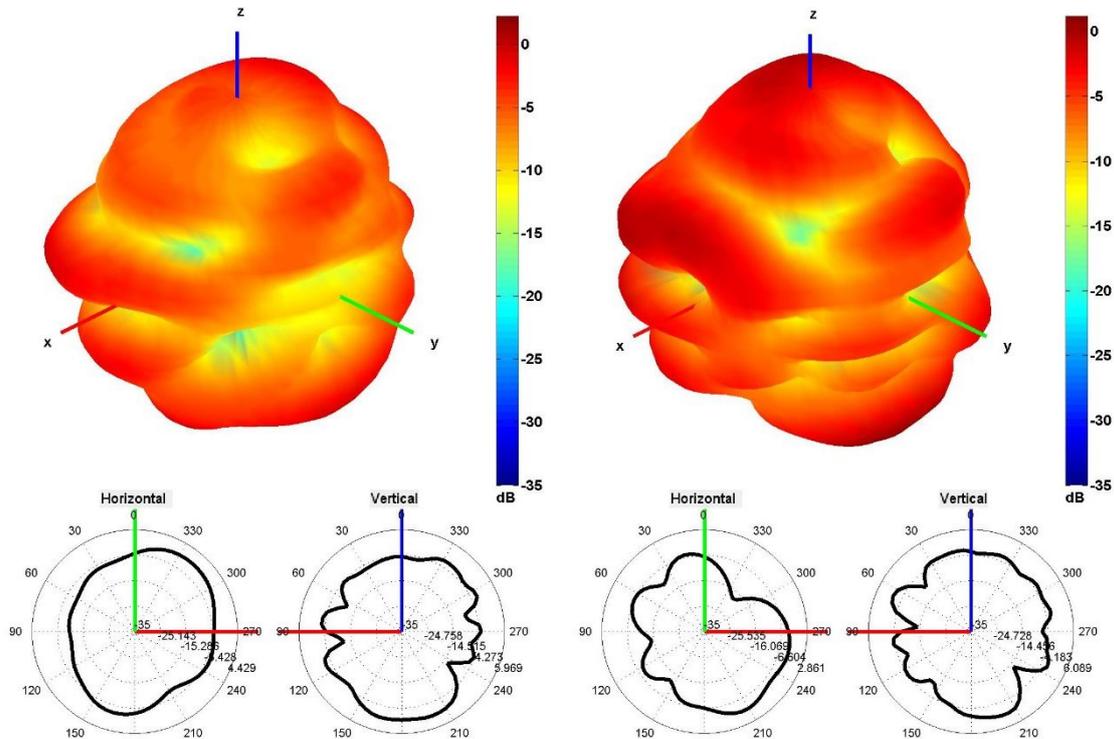


1850 and 1950 MHz Radiation pattern

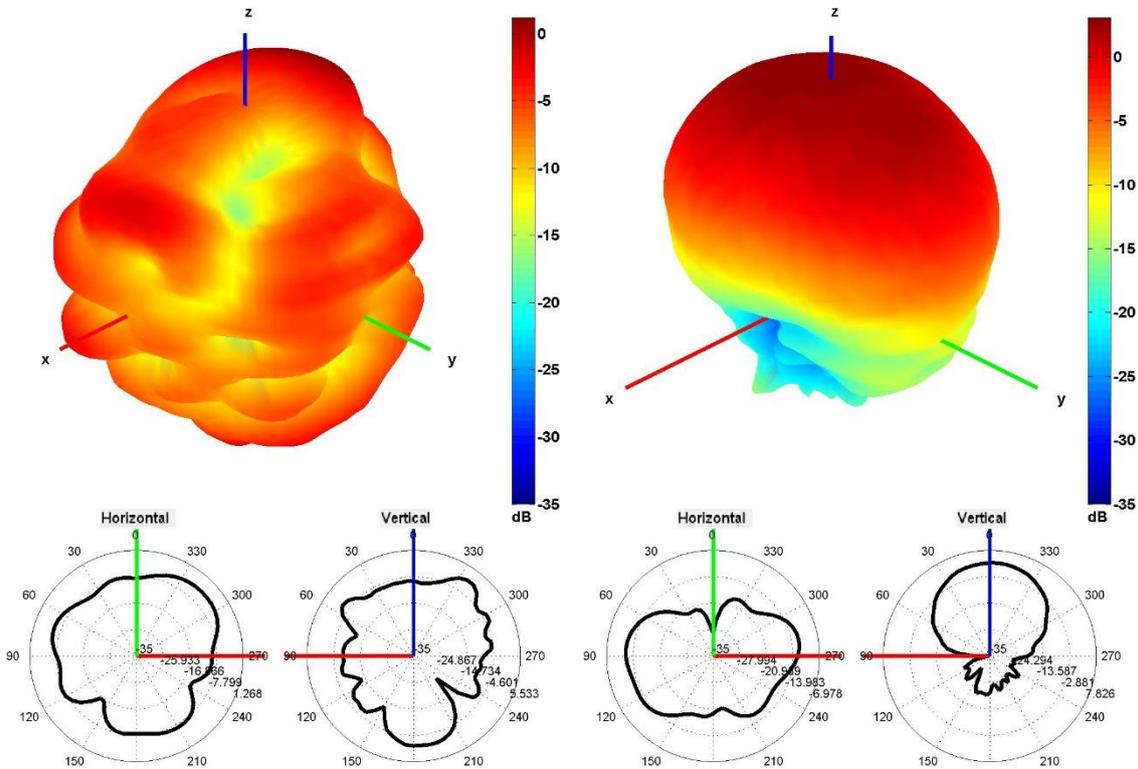


2100 and 2600 MHz Radiation pattern

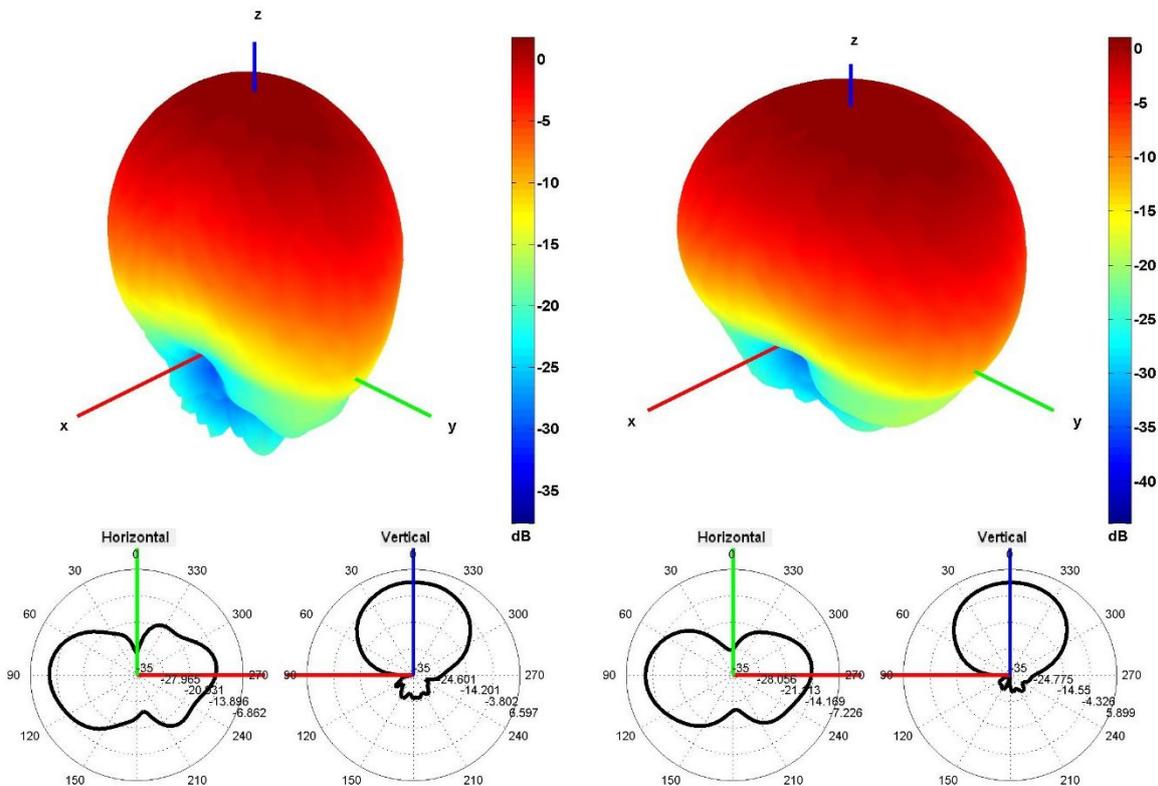
Cable 2: CELLULAR/LTE



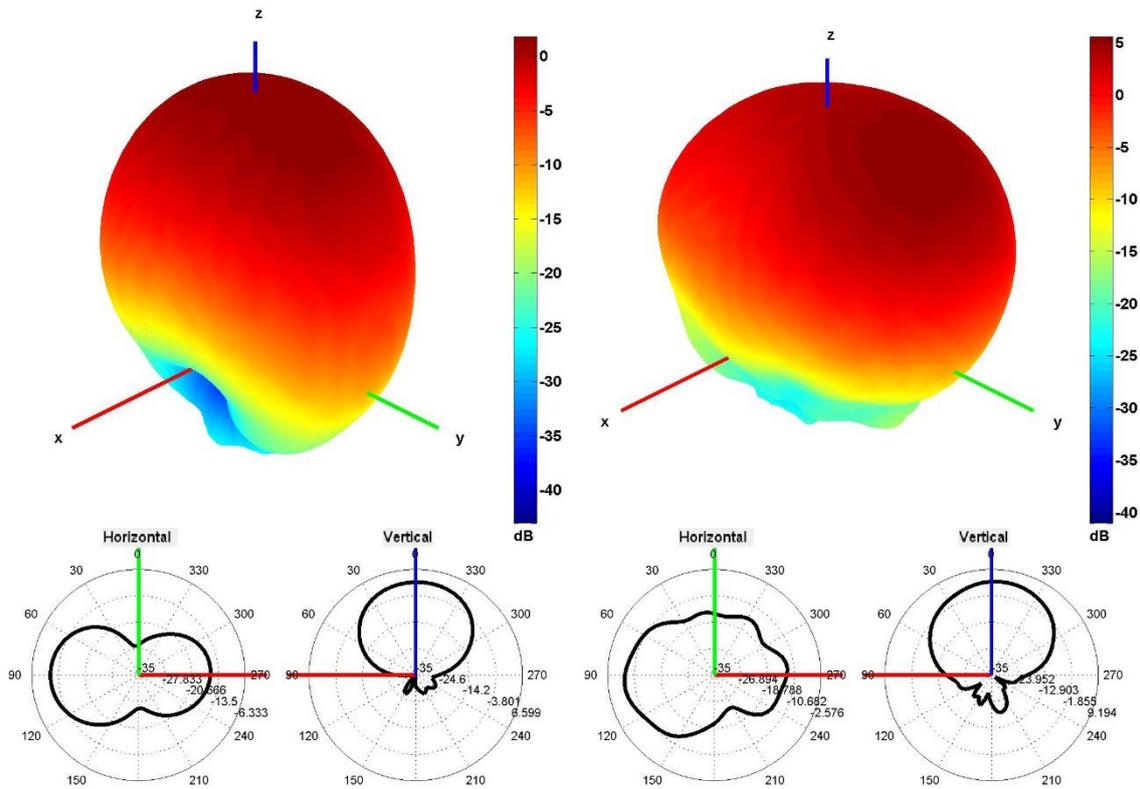
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern



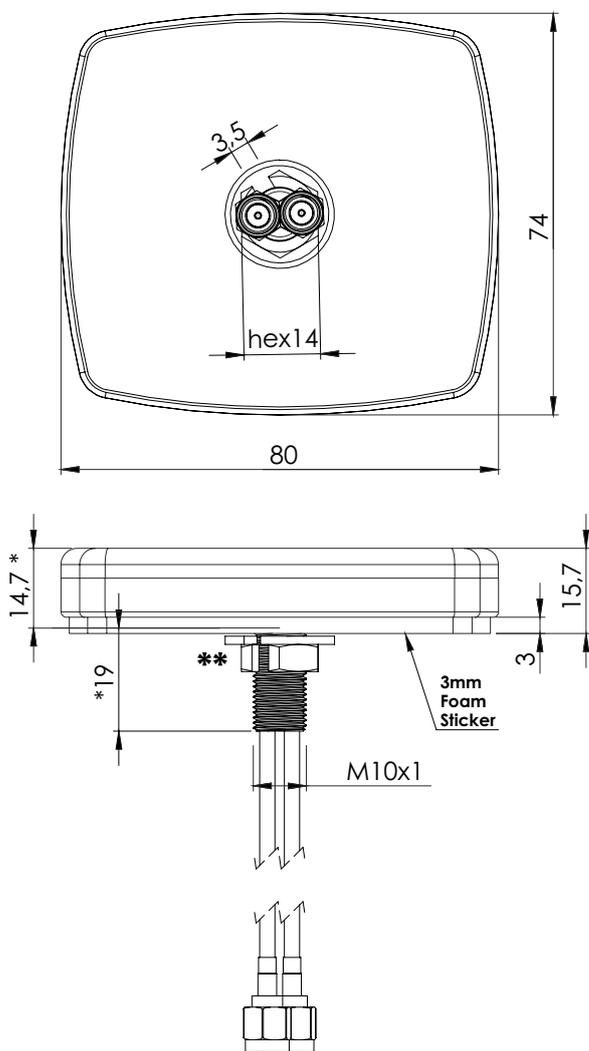
1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

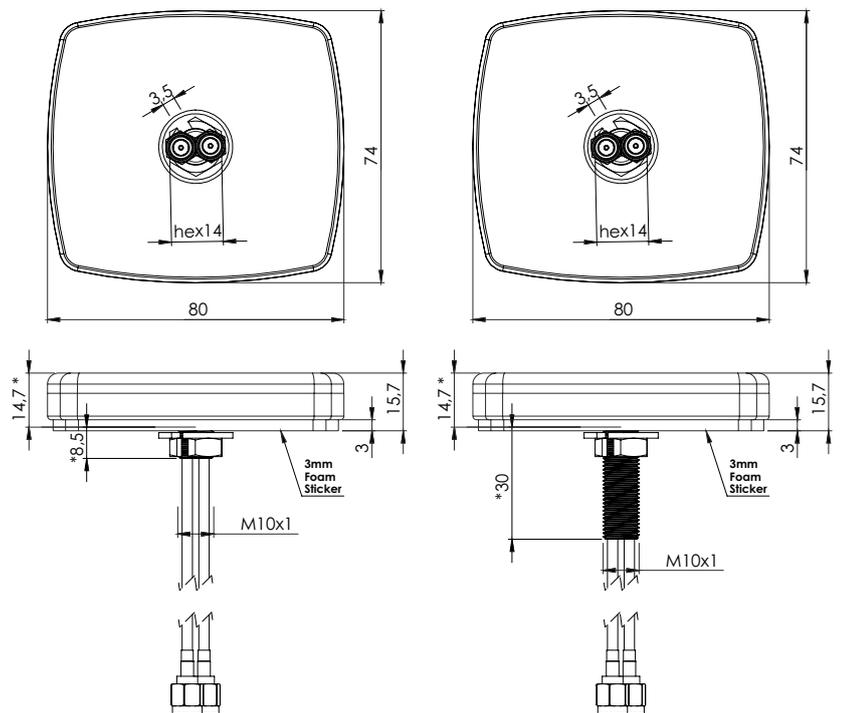
## 4. Antenna drawings

### Default Thread Option



**2J6024Ba-TH19**  
19 mm Thread  
Default Option

### Other Thread Options available



**2J6024Ba-TH8,5**  
8,5 mm Thread

**2J6024Ba-TH30**  
30 mm Thread

**\*Dimensions after mounting**  
**\*\*Rec. Torque= 5 Nm**

## 5. Antenna Images

