

2J7724Ma

CELLULAR/LTE MIMO Magnetic Mount

Key Features

Cable 1 - 2: CELLULAR / LTE

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

Magnetic Mount

High Performance

Ground Plane Dependent

Customizable Cable and Connector

Dimensions: Ø 54 x 68.2 mm

Certificates: IP67, IP69, IK09



1. Antenna and electrical specifications

Cable 1

Parameters	CELLULAR / LTE Antenna		
Standards	2G,3G and 4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698-960	1710-2170	2500-2700
Return Loss (dB)	~-7.2	~-15.4	~-15.7
VSWR	~2.7:1	~1.5:1	~1.4:1
Efficiency (%)	~39	~52	~50
Peak Gain (dBi)	~-0.1	~2.9	~3.5
Average Gain (dB)	~-4.2	~-2.9	~-3.0
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	LL100 Standard (Other Cables Available)		

Cable 2

Parameters	CELLULAR / LTE Antenna		
Standards	2G,3G and 4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698-960	1710-2170	2500-2700
Return Loss (dB)	~-6.9	~-15.6	~-15.3
VSWR	~2.7:1	~1.5:1	~1.5:1
Efficiency (%)	~38	~52	~53
Peak Gain (dBi)	~-0.1	~3.1	~2.7
Average Gain (dB)	~-4.3	~-2.9	~-2.8
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	LL100 Standard (Other Cables Available)		

Antenna Measurement Conditions:

Mounted on 30 x 30 cm Ground Plane

200 cm of Cable LL100

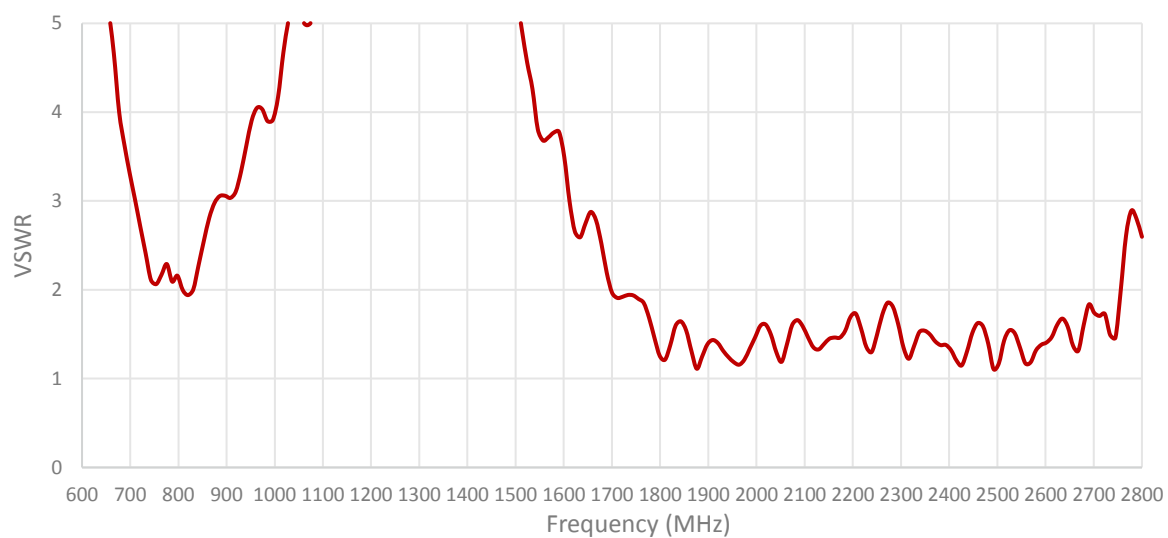
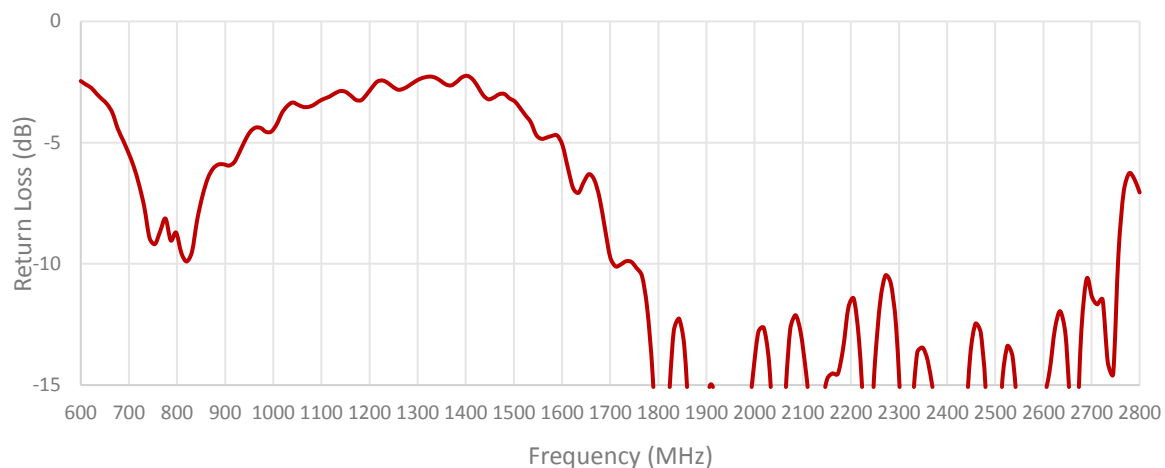
Measured in Certified CTIA 3D Anechoic Chamber

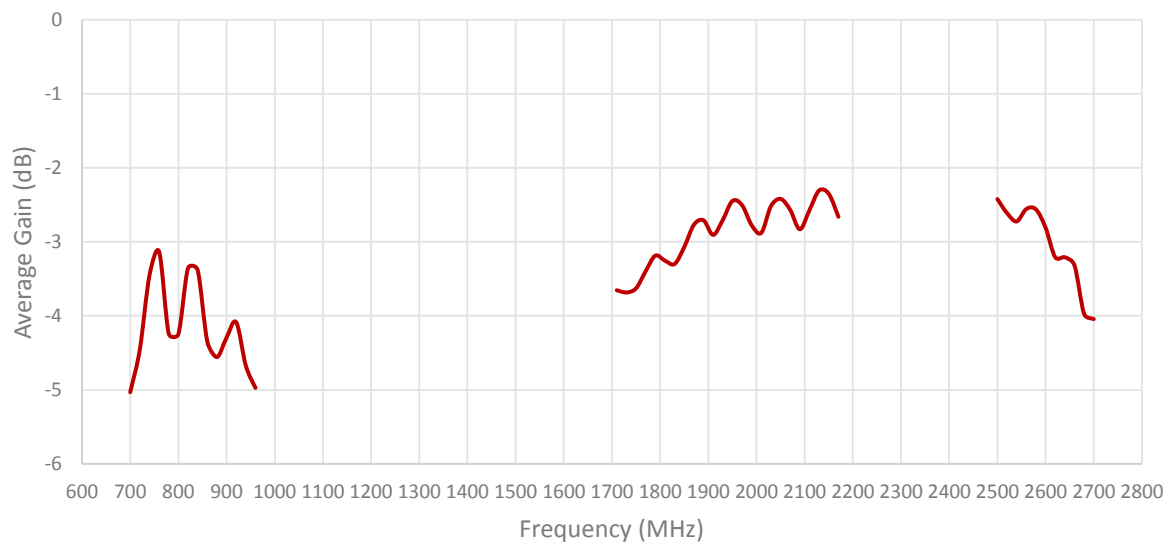
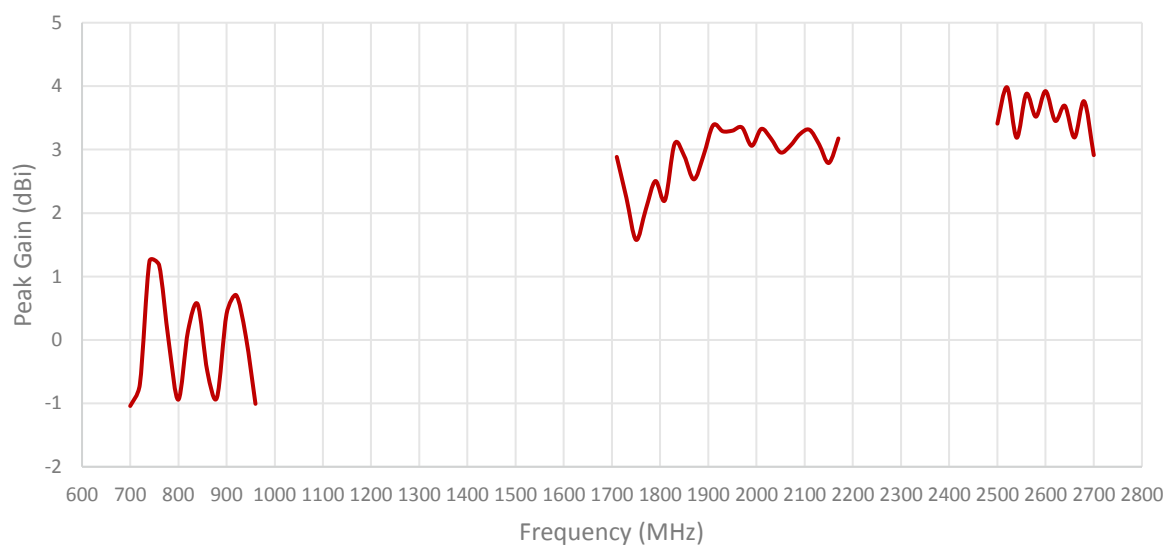
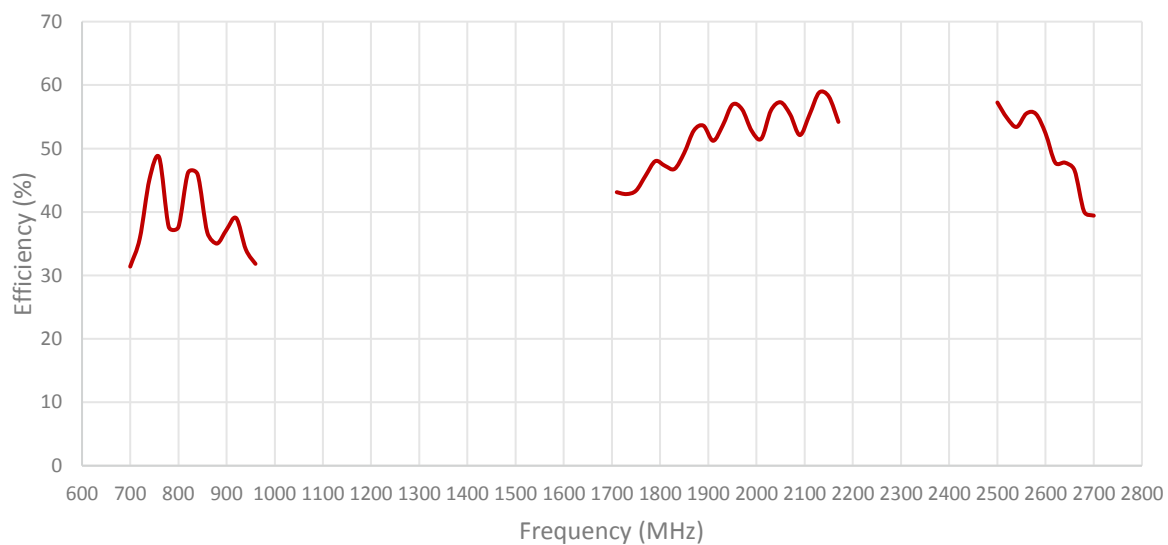
2. Mechanical and environmental specifications

Specifications	2J7724Ma
Mounting Type	Magnetic Mount
Dimensions (mm)	Ø 54 x 68.2
Radome Type	ASA
Radome Color	Black
Antenna Base	Zamak
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69, IK09

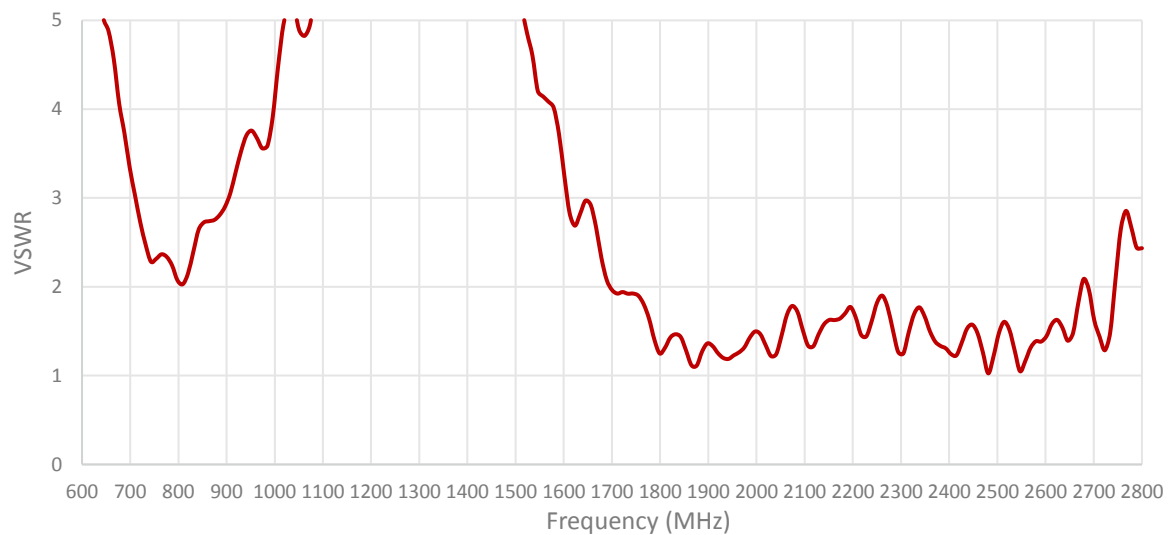
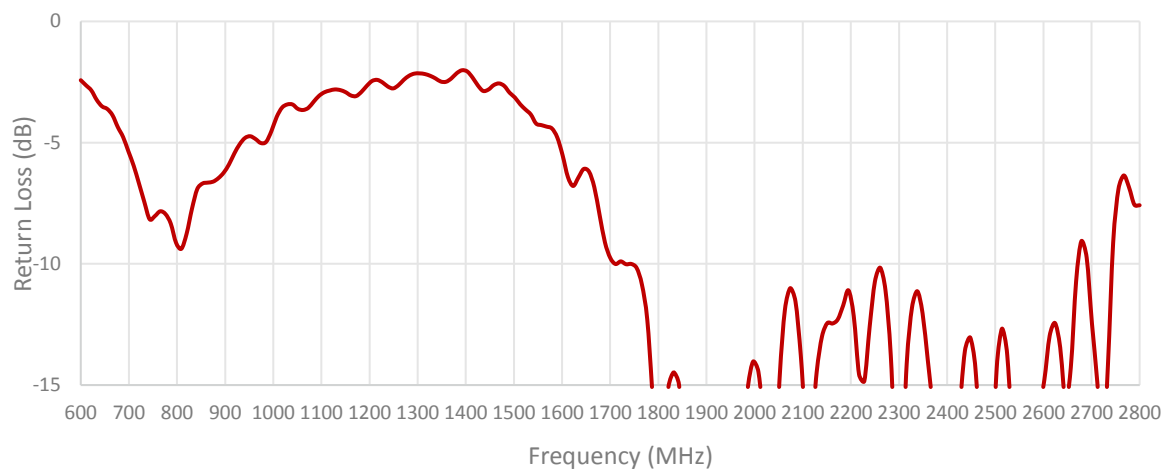
3. Antenna parameters

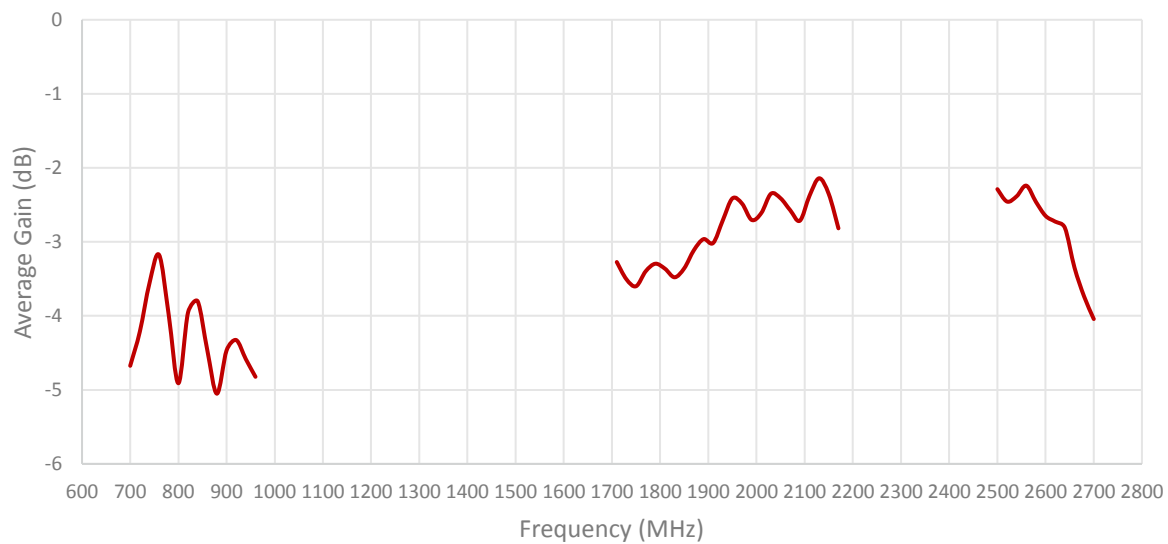
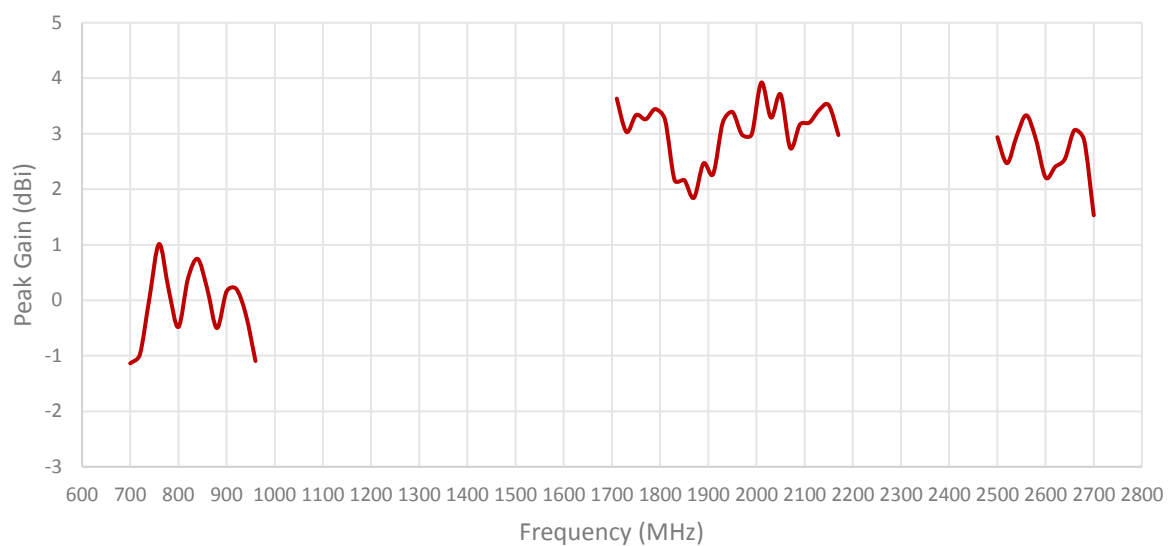
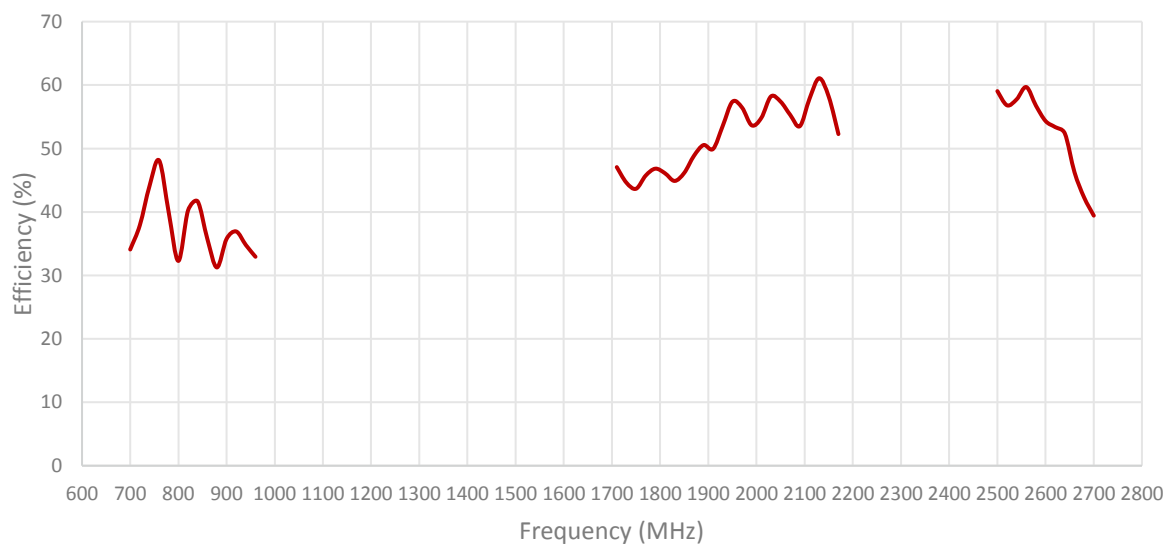
Cable 1: CELLULAR/LTE



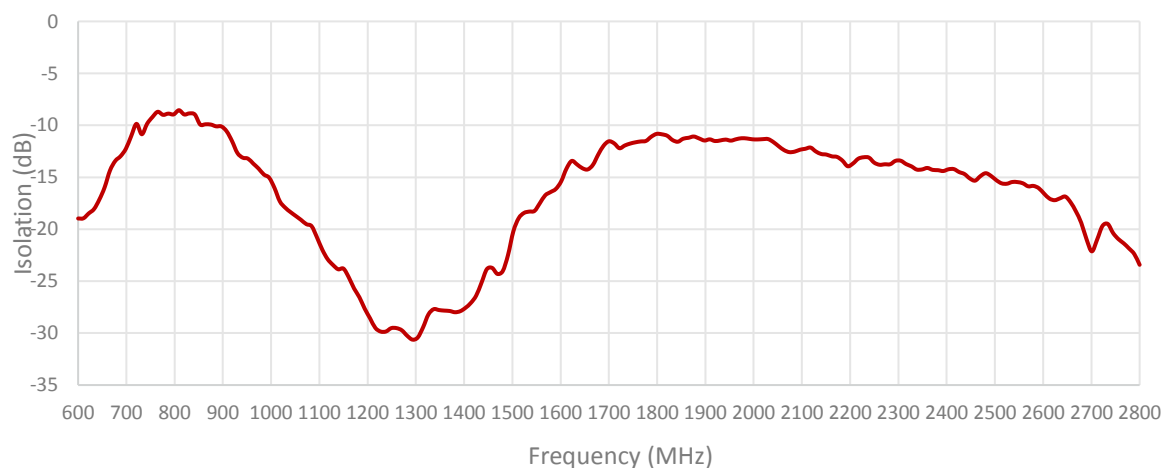


Cable 2: CELLULAR/LTE

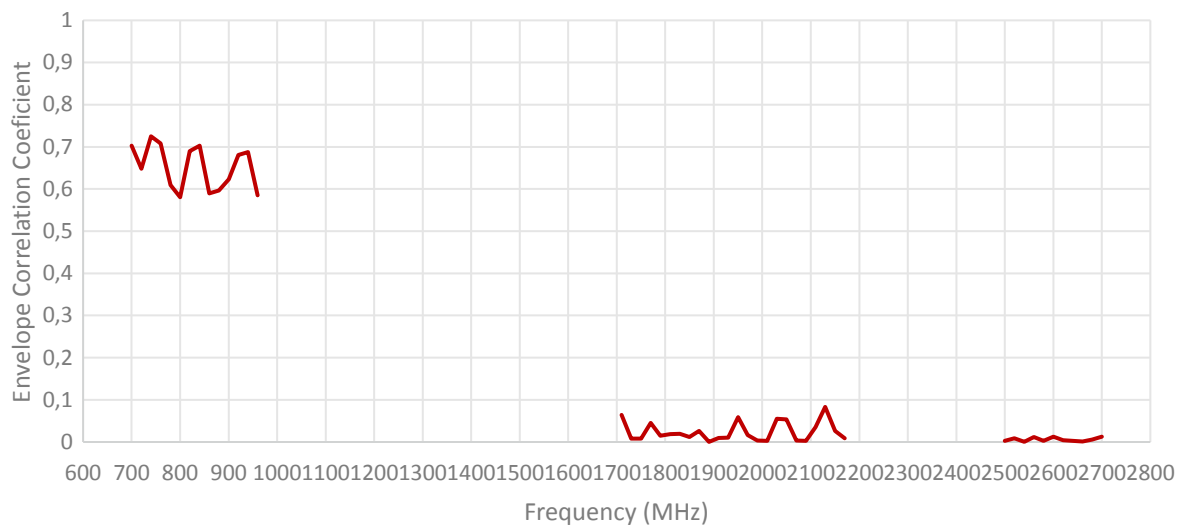


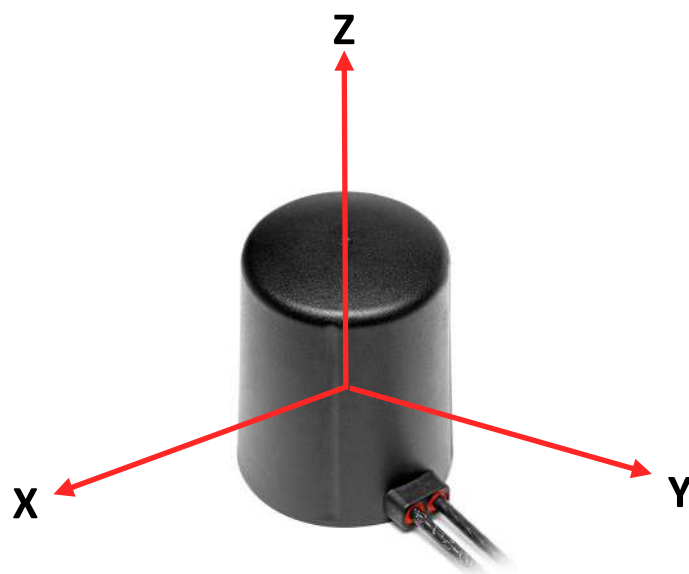


ISOLATION FOR CABLES 1 AND 2



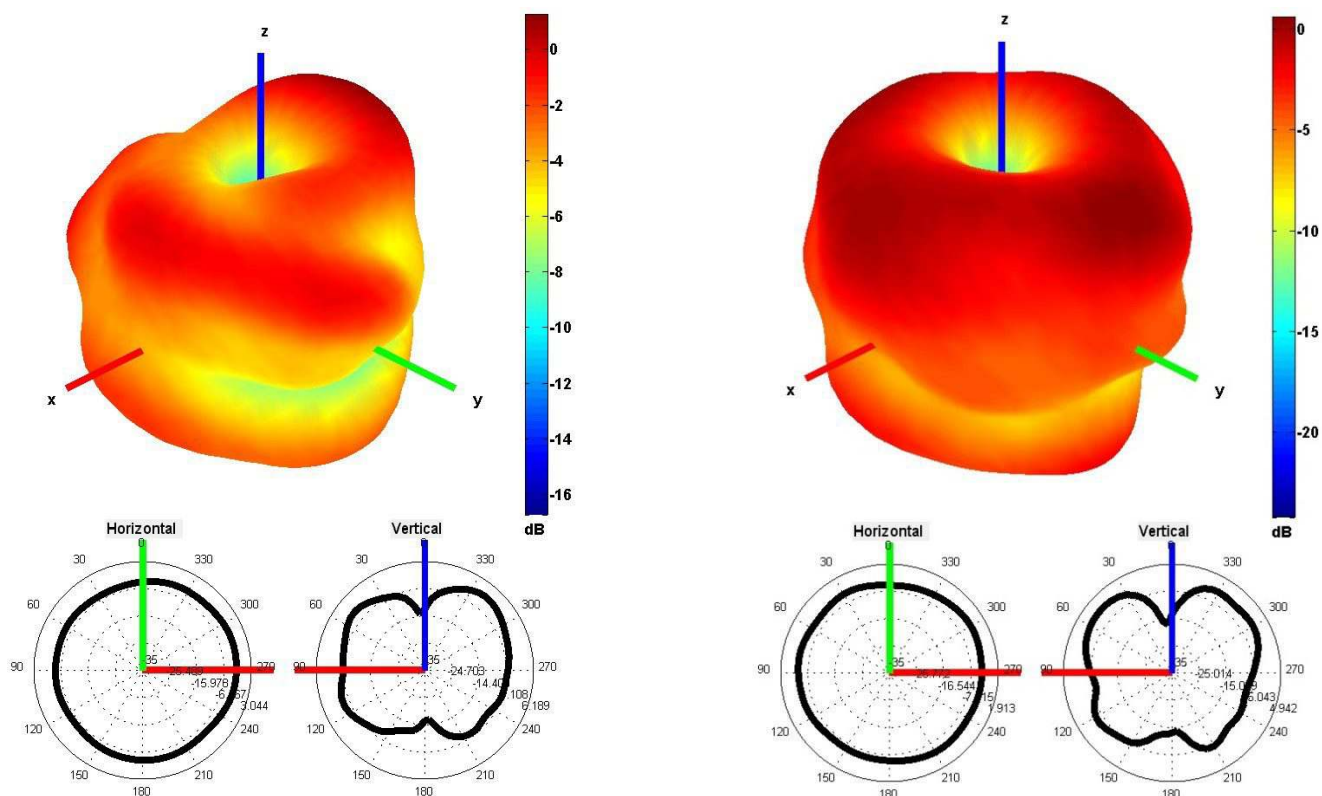
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2



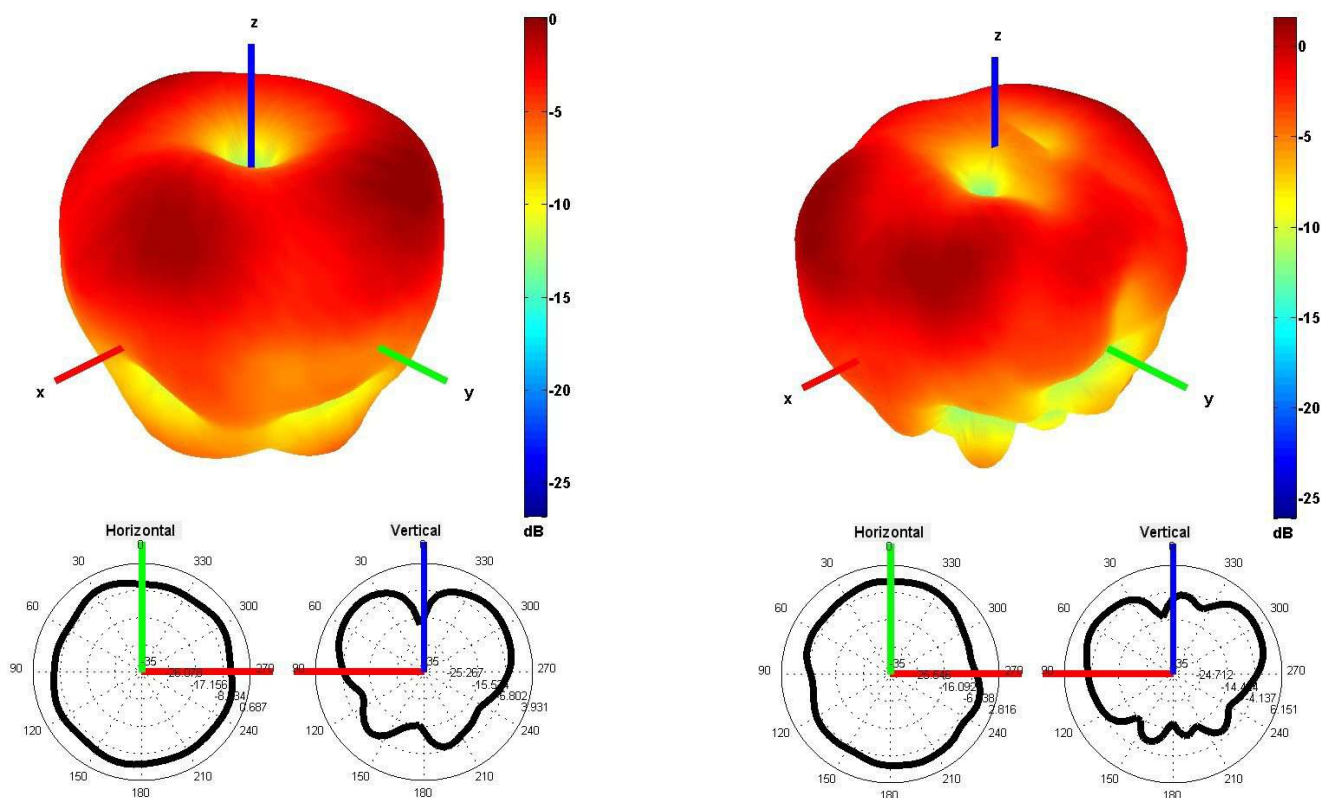


Radiation pattern reference

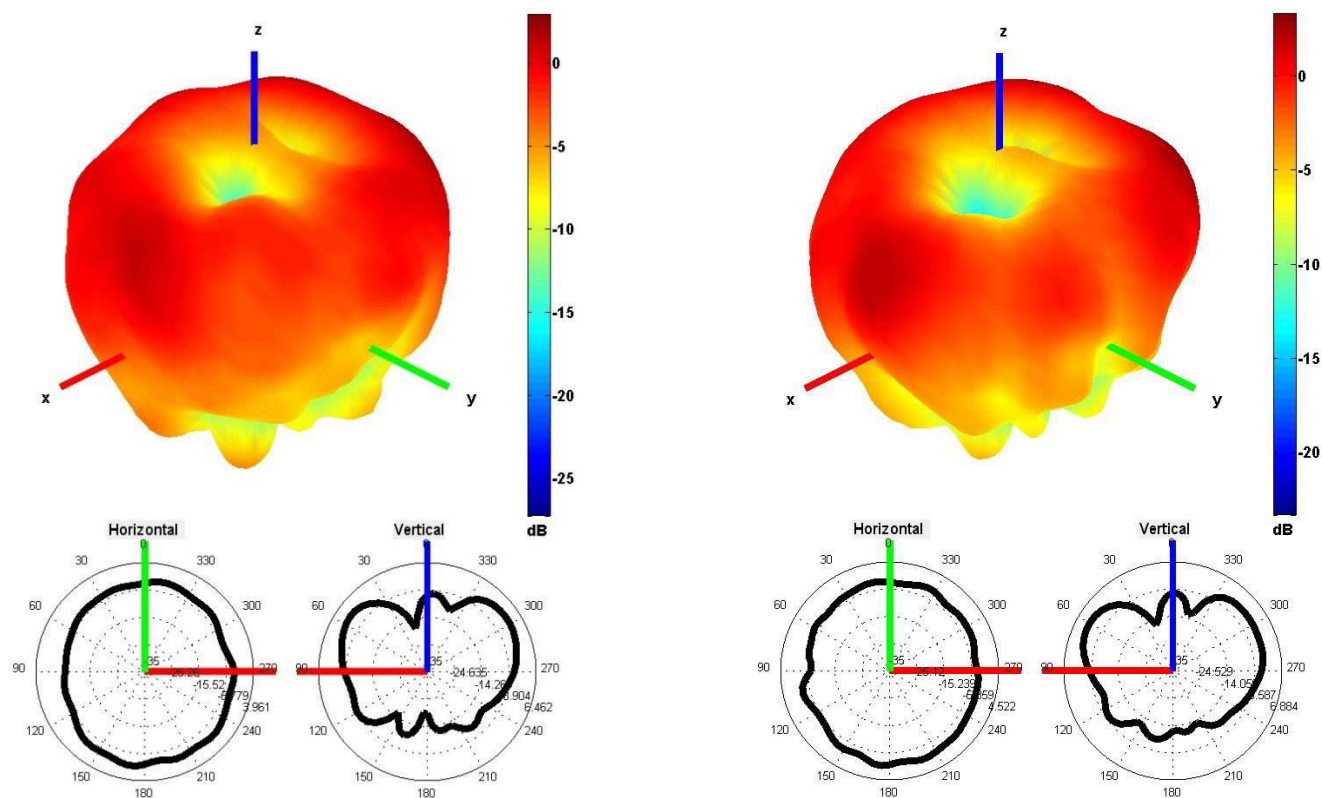
Cable 1: CELLULAR/LTE



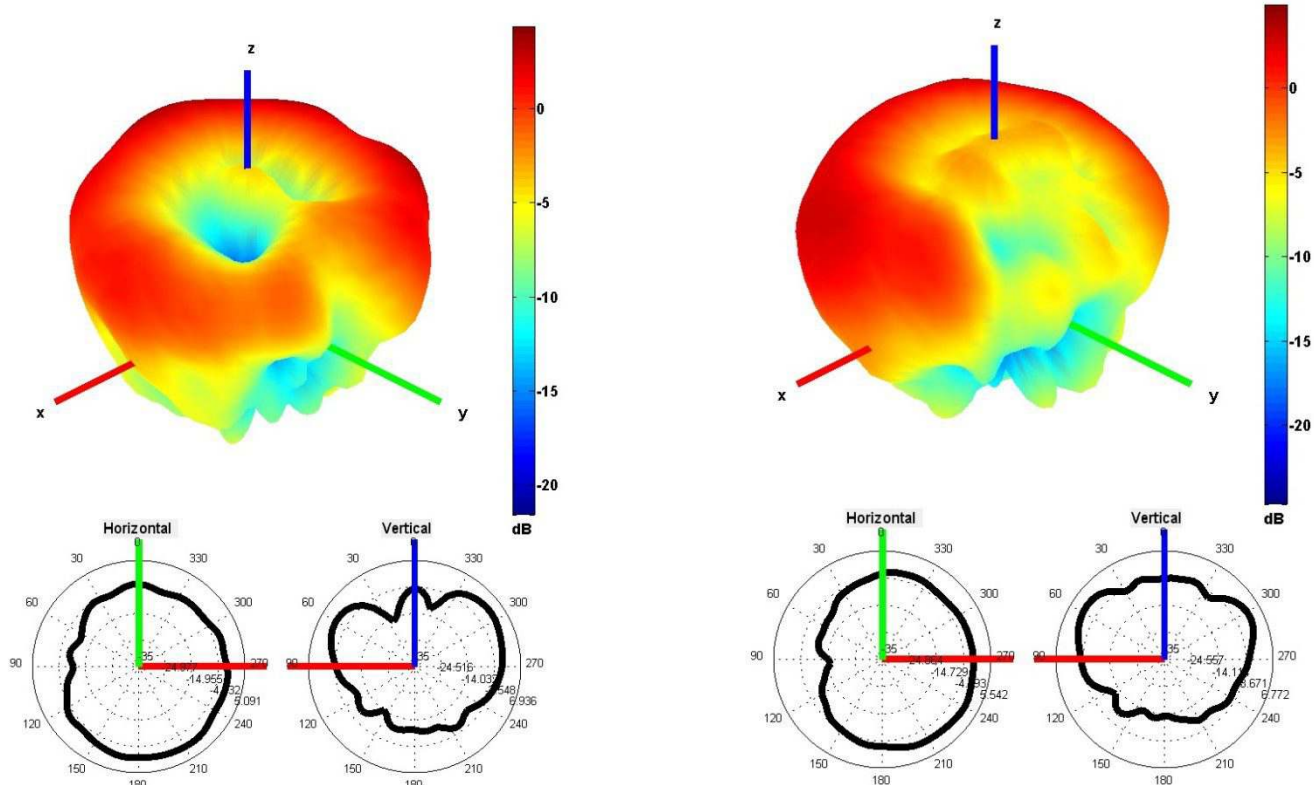
750 and 850 MHz Radiation pattern



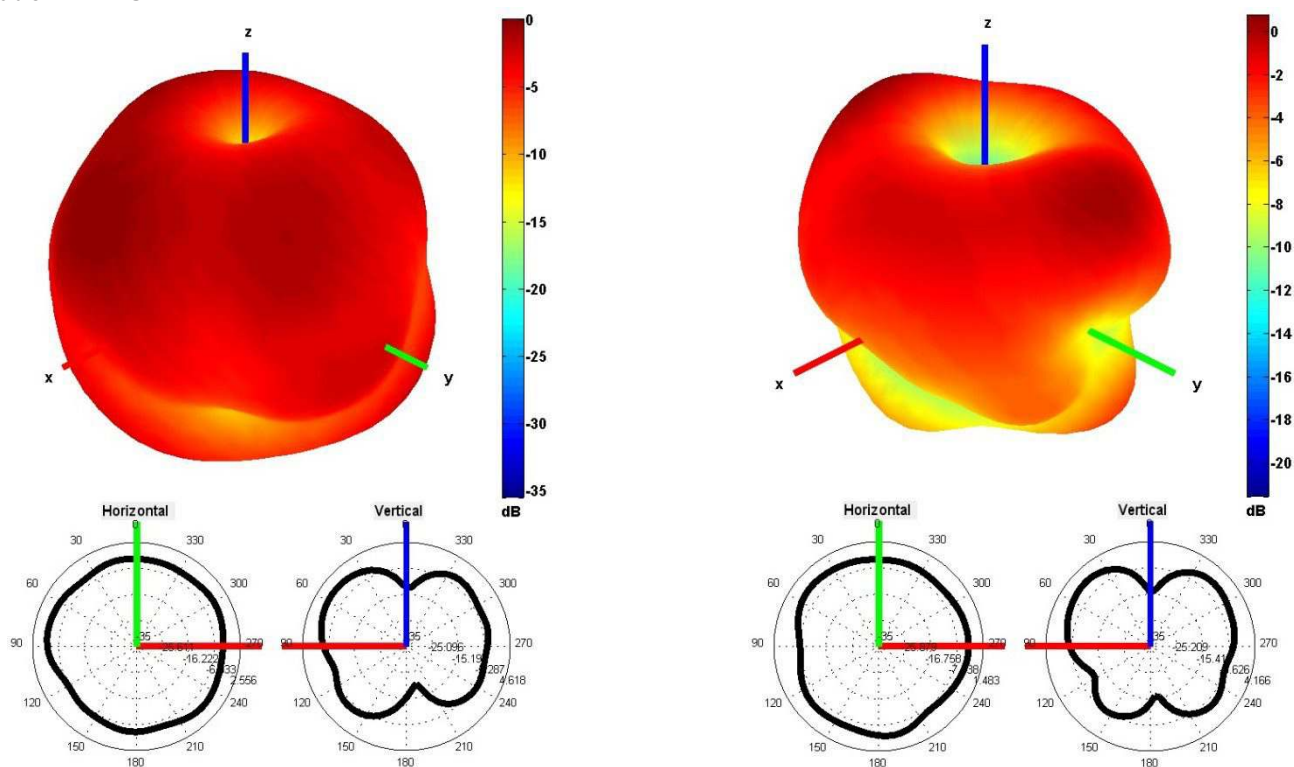
940 and 1750 MHz Radiation pattern

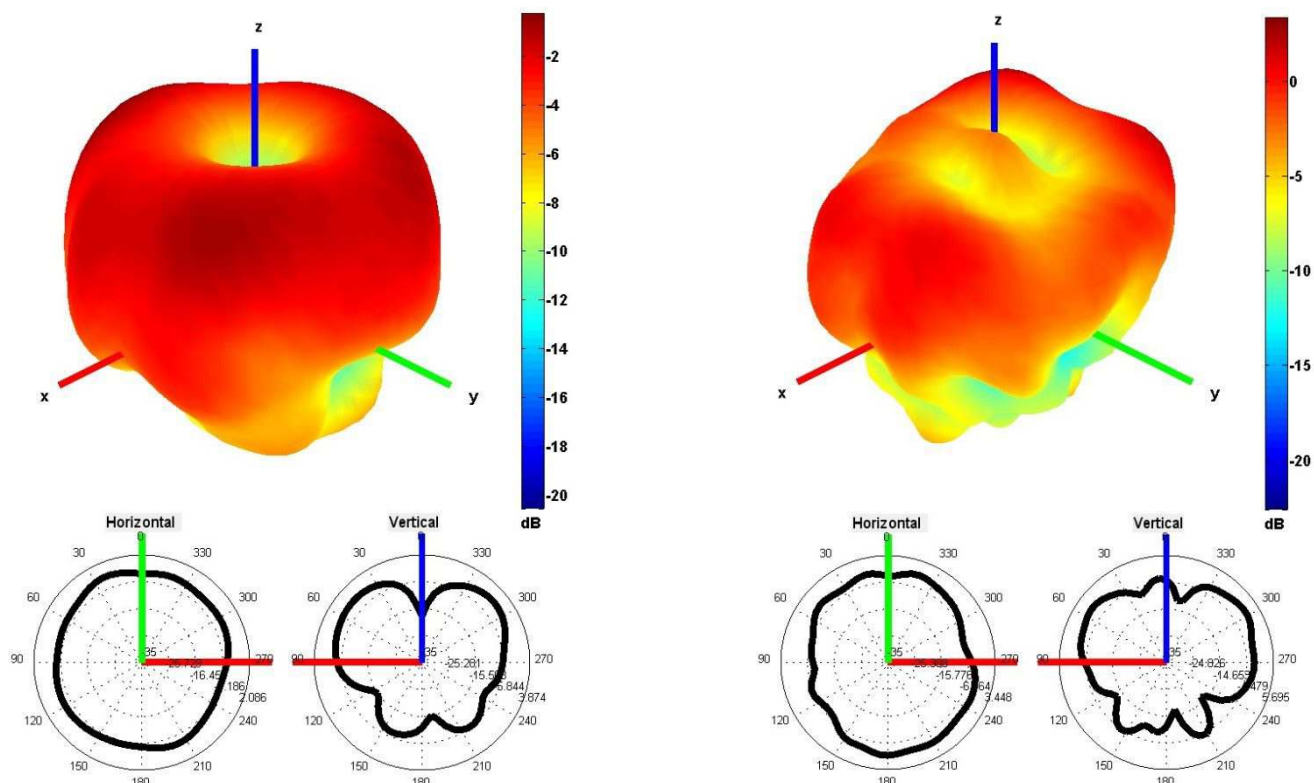


1850 and 1950 MHz Radiation pattern

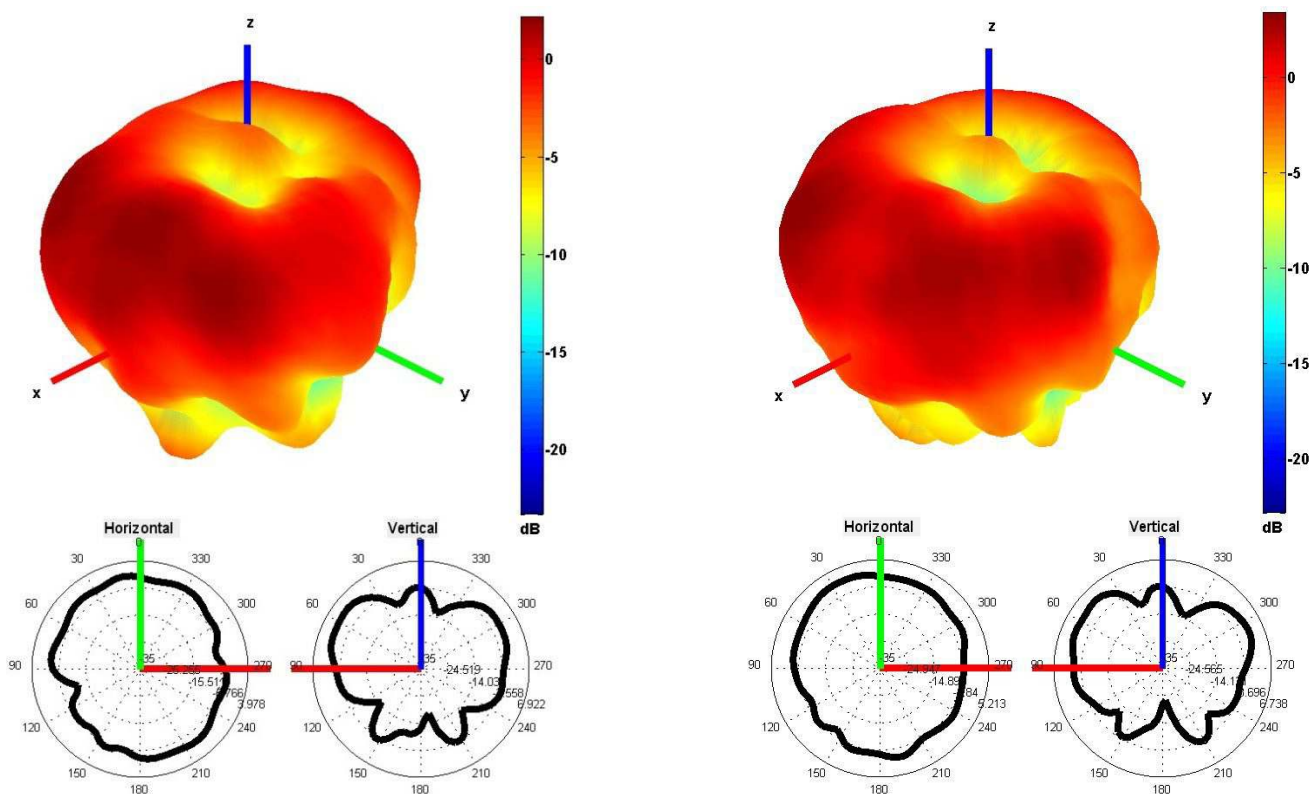


Cable 2: CELLULAR/LTE

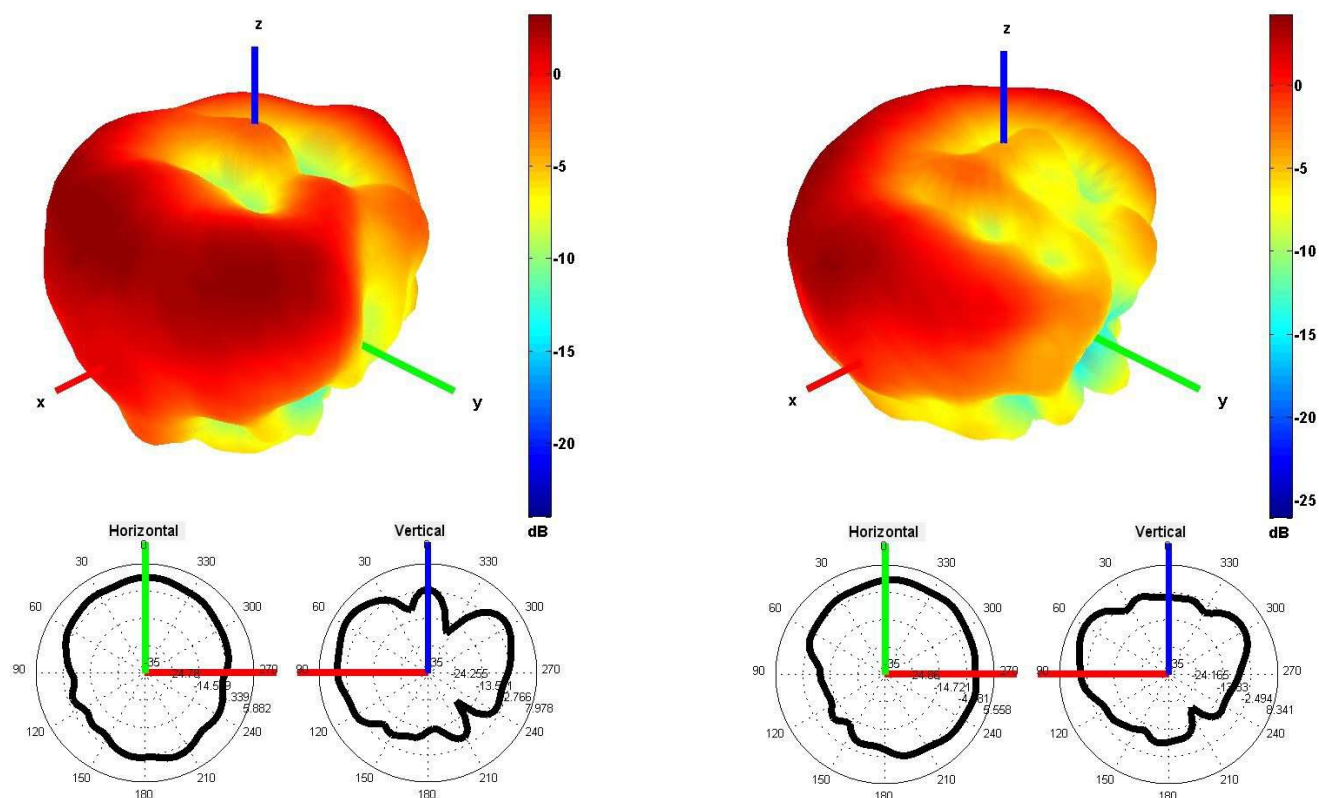




940 and 1750 MHz Radiation pattern

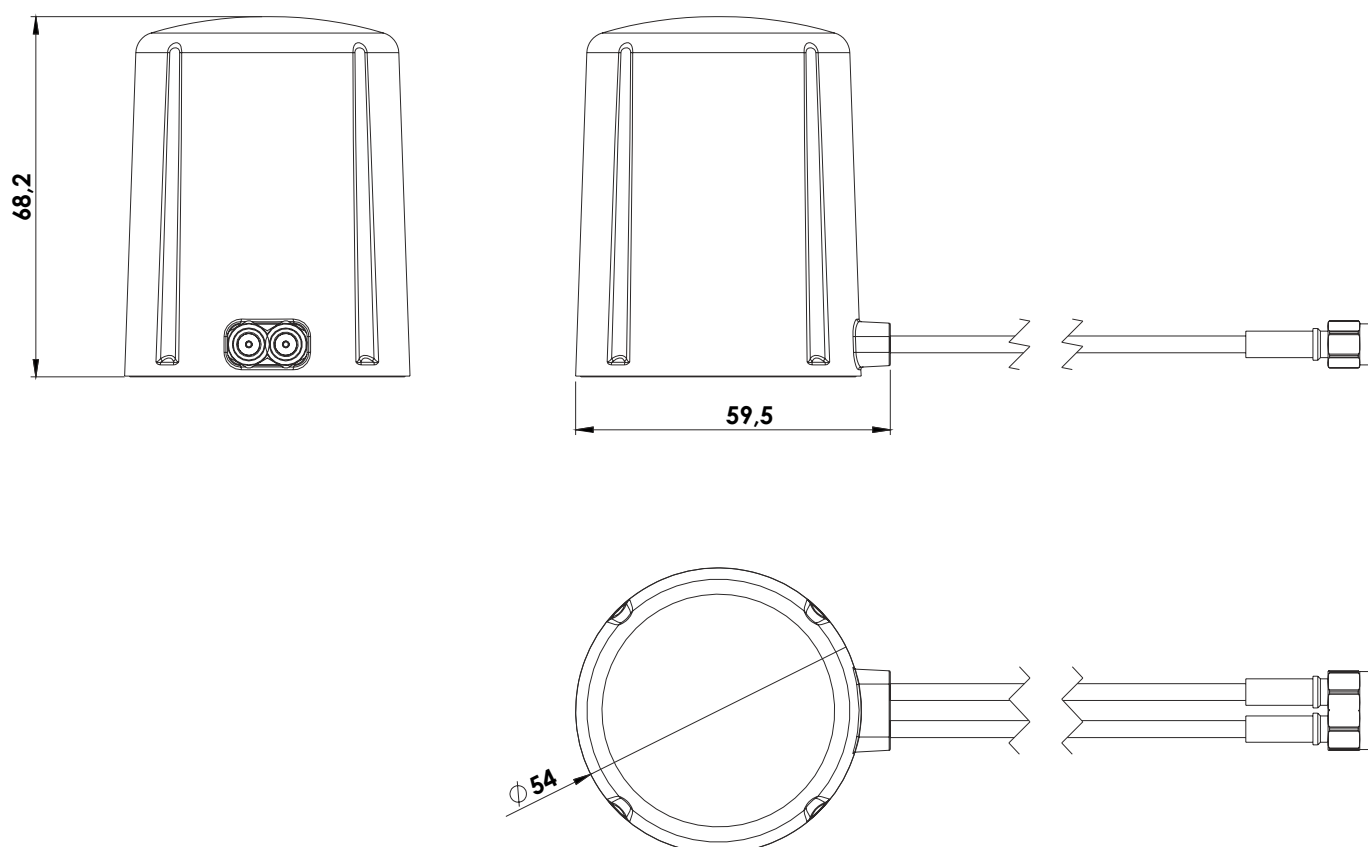


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

