

2J9524a-B01

CELLULAR/LTE MIMO Screw Mount

Key Features

Cable 1 and 2: CELLULAR / LTE

- 698-960 MHz

- 1710-2170 MHz

- 2500-2700 MHz

Screw Mount

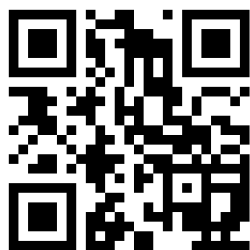
High Performance

Ground Plane Independent

Customizable Cable and Connector

Dimensions 280 x 280 x 150 mm

Certificates: IP69 for antenna



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)	~-13.3	~-18.5	~-19.5
VSWR	~1.7:1	~1.3:1	~1.3:1
Efficiency (%)	~72	~71	~72
Peak Gain (dBi)	~3.5	~4.6	~3.9
Average Gain (dB)	~-1.4	~-1.5	~-1.5
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	Most RF Connectors (SMA-Male Standard)		
Cable Length	Any Cable Length (300 cm Standard)		
Cable Type	Other Cables Available (LMR195 Standard)		

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)	~-13.0	~-19.2	~-20.9
VSWR	~1.7:1	~1.3:1	~1.2:1
Efficiency (%)	~74	~72	~70
Peak Gain (dBi)	~3.8	~5.8	~4.0
Average Gain (dB)	~-1.3	~-1.4	~-1.6
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	Most RF Connectors (SMA-Male Standard)		
Cable Length	Any Cable Length (300 cm Standard)		
Cable Type	Other Cables Available (LMR195 Standard)		

Antenna Measurement Conditions:

Free Space

200 cm of LMR195 Cable

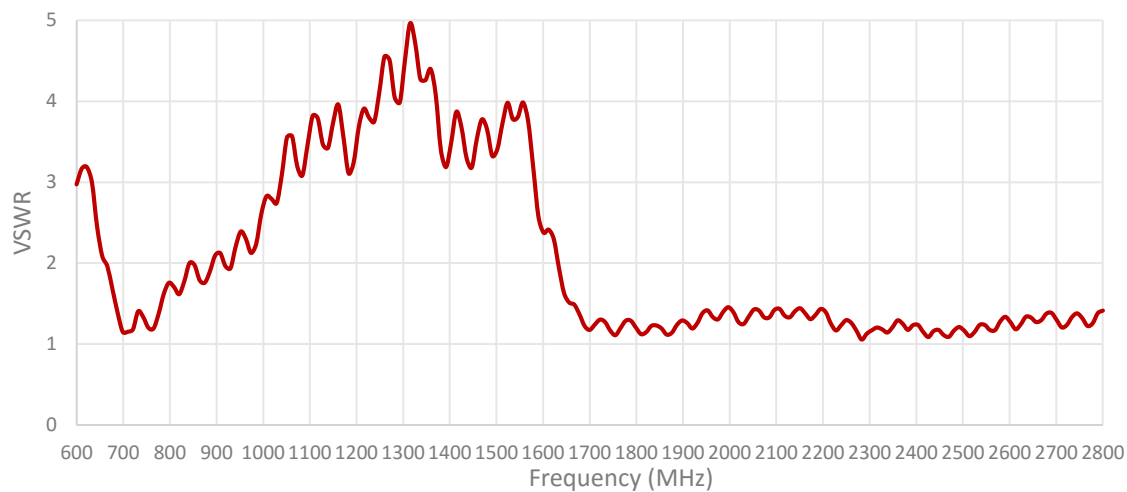
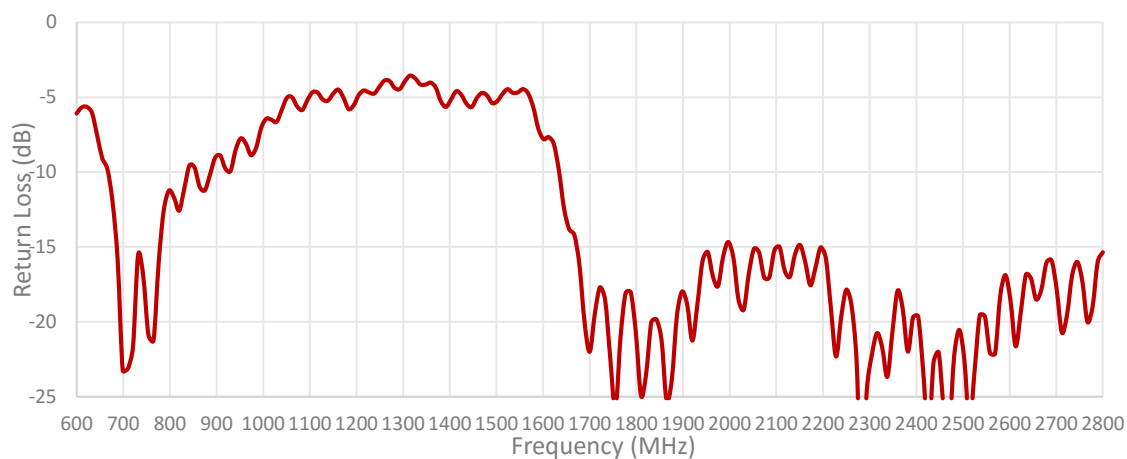
Measured in Certified CTIA 3D Anechoic Chamber

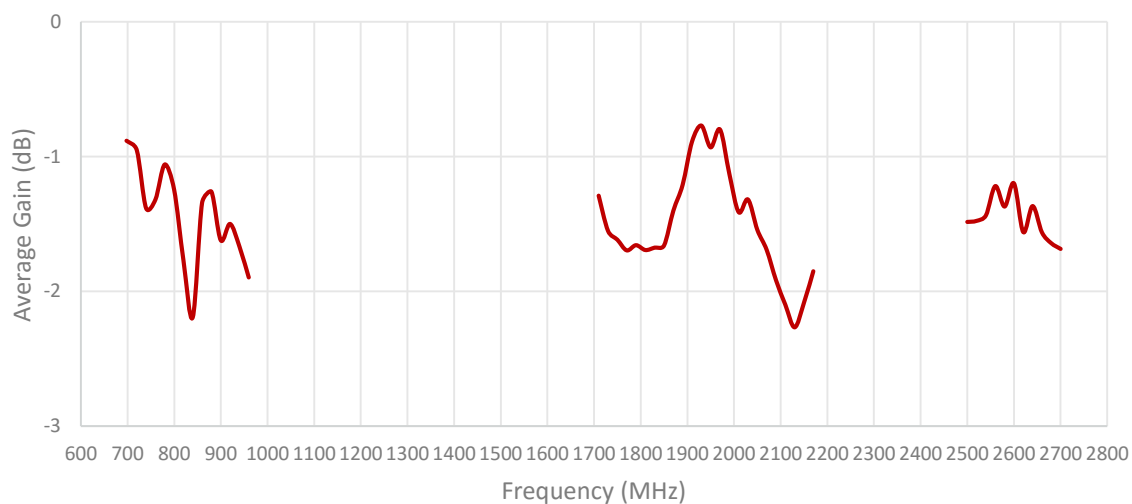
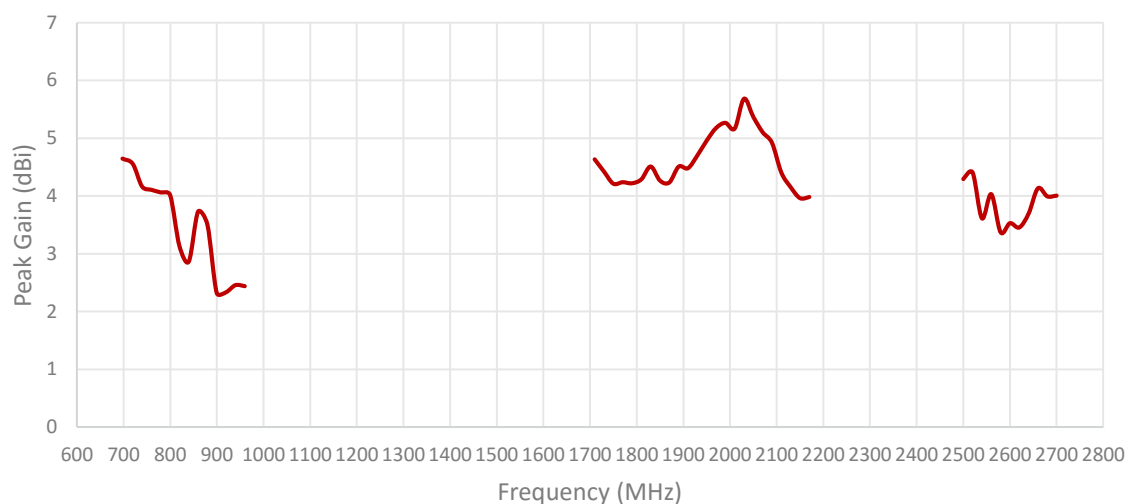
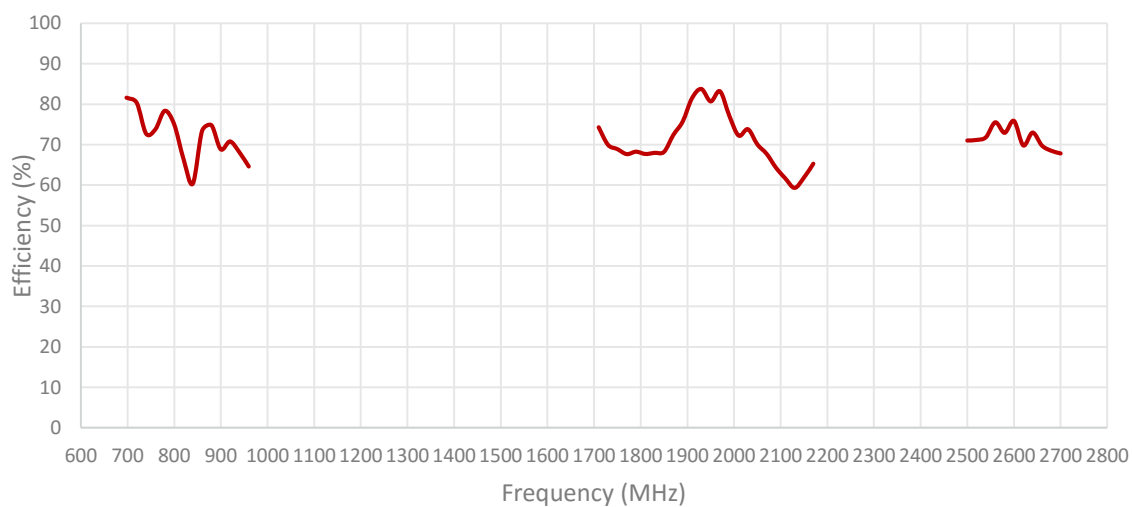
2. Mechanical and environmental specifications

Specifications	2J9524a-B01
Mounting Type	Screw Mount
Dimensions (mm)	280 x 280 x 150
Radome	ASA
Radome color	White, Black
Antenna Base	ASA
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP69 for antenna

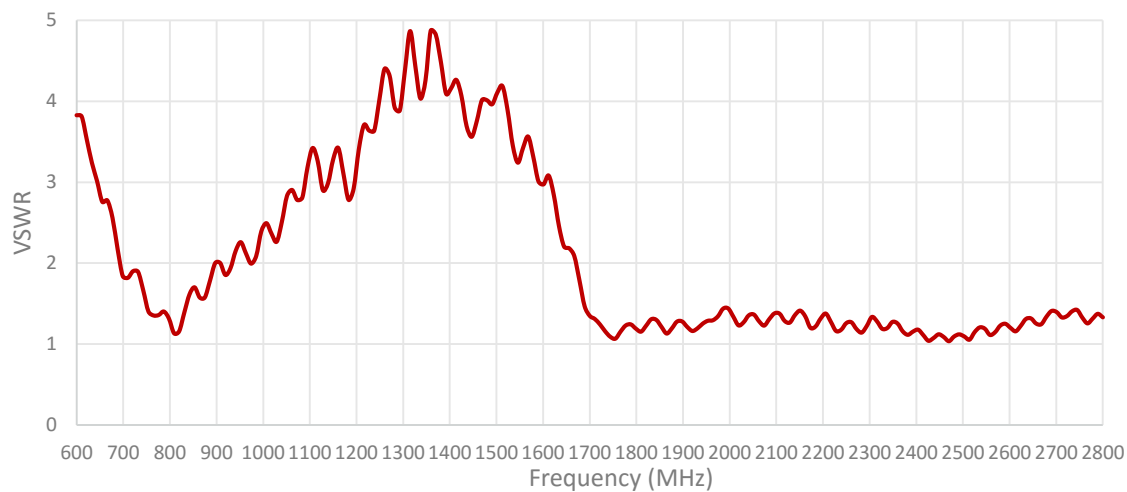
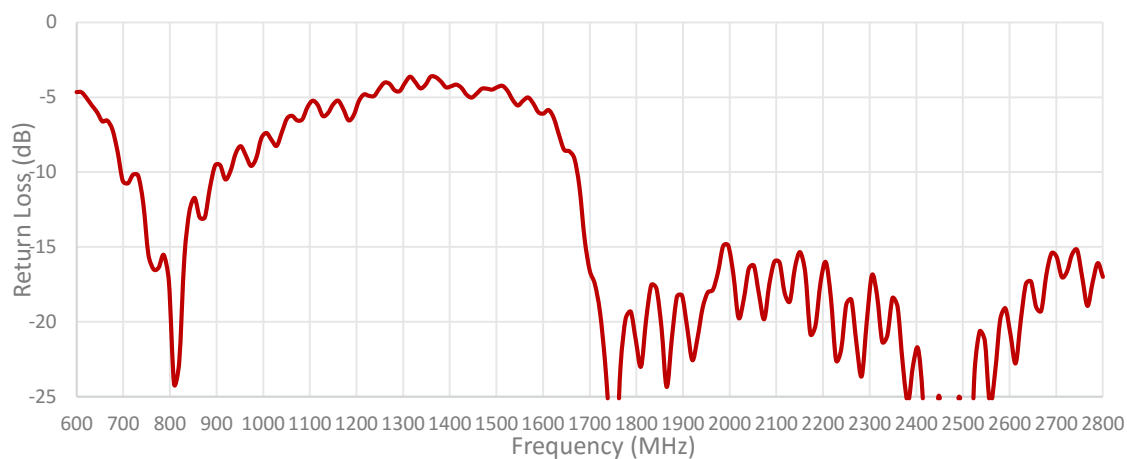
3. Antenna parameters

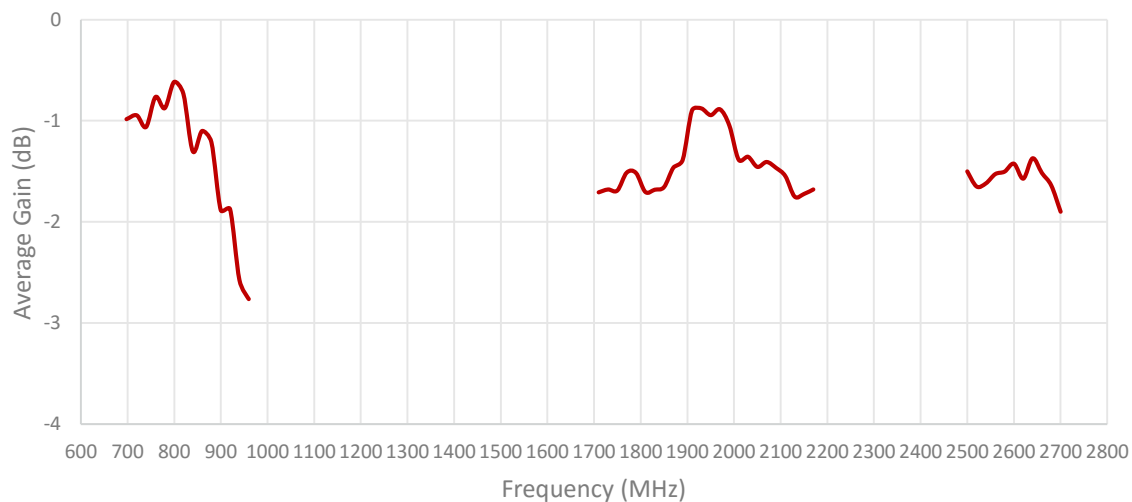
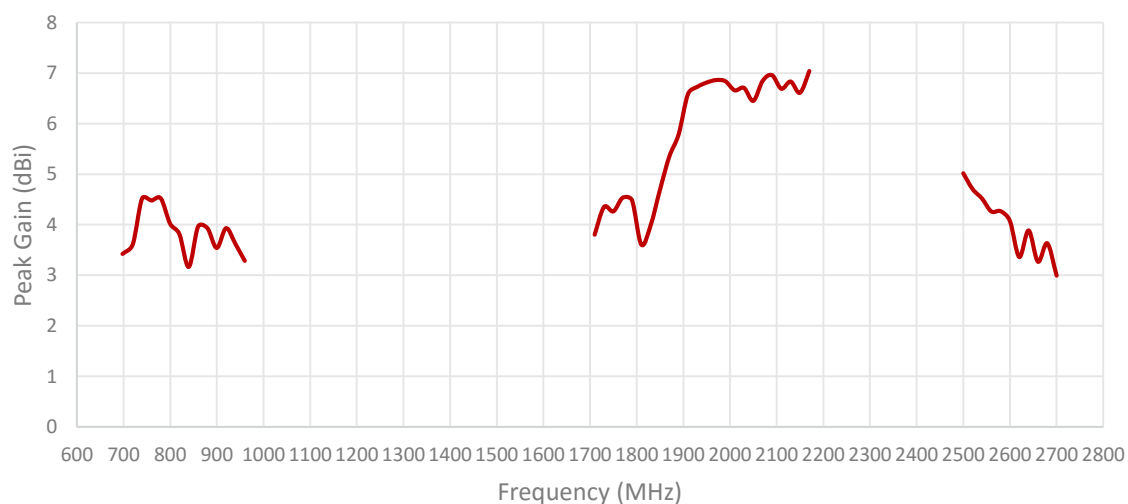
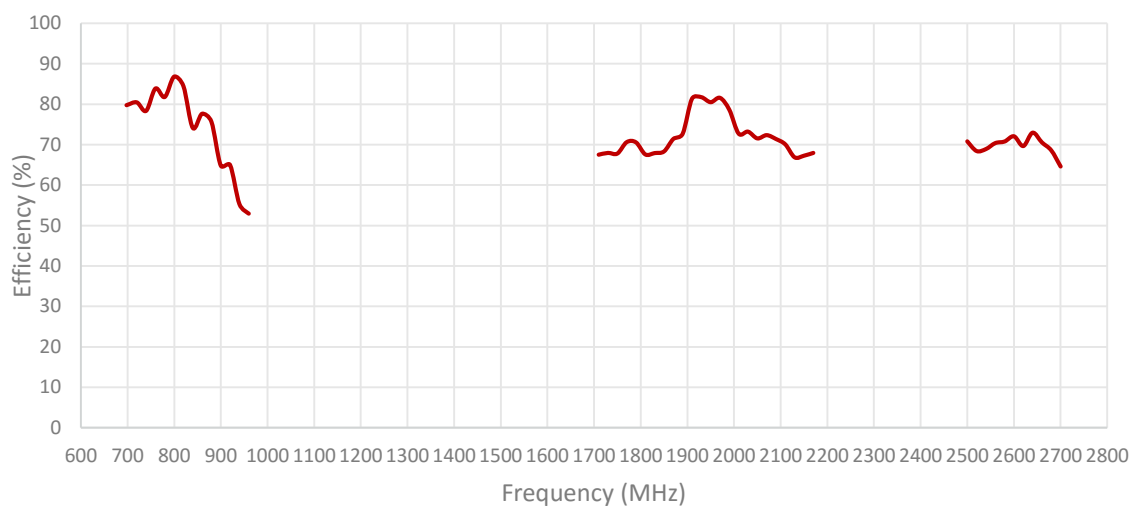
Cable 1: CELLULAR/LTE



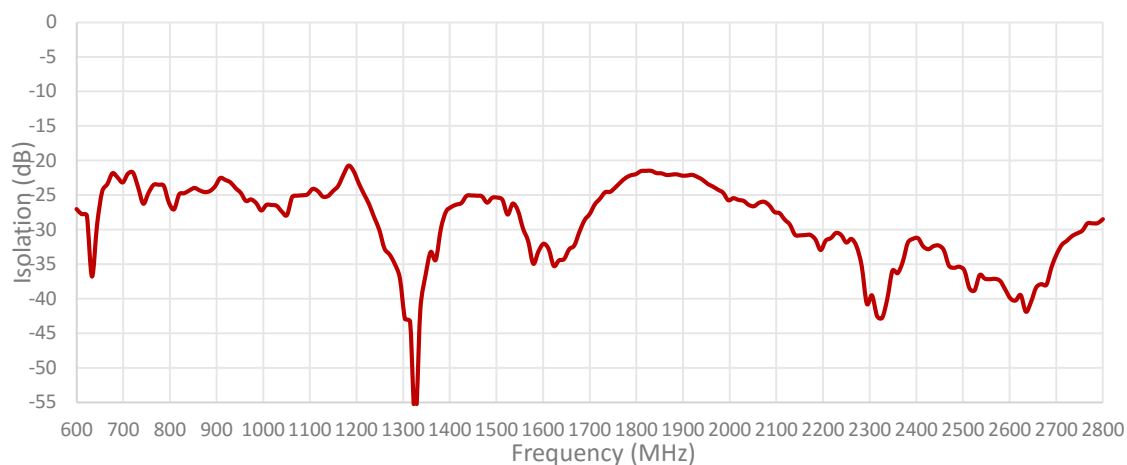


Cable 2: CELLULAR/LTE

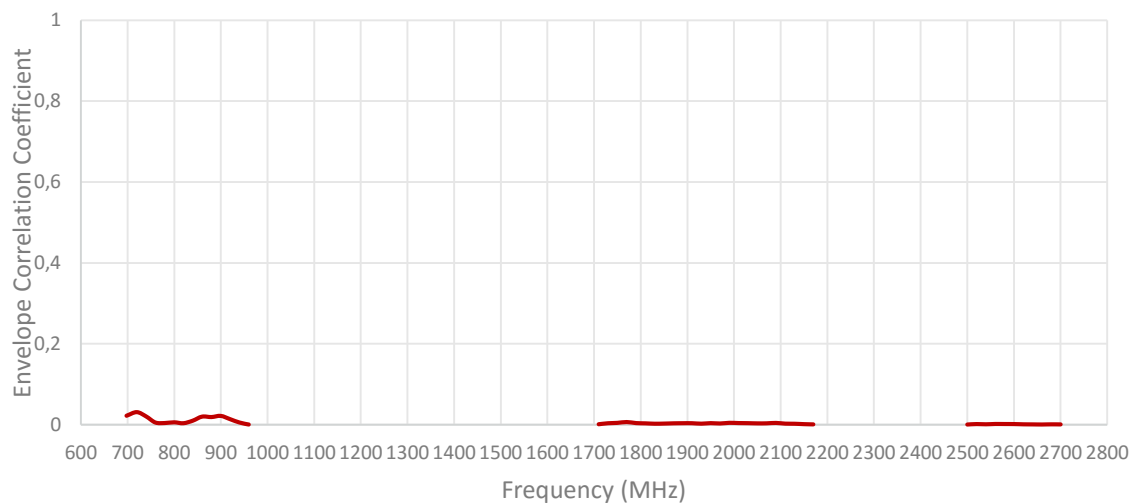


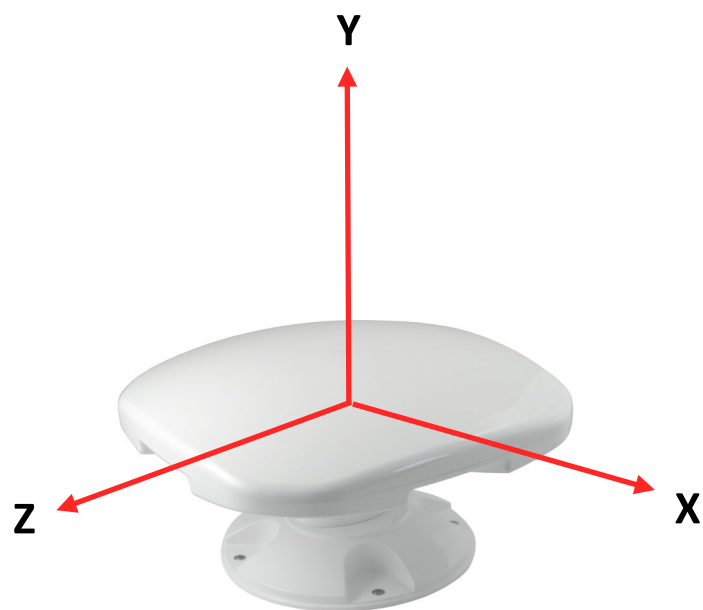


ISOLATION FOR CABLES 1 AND 2



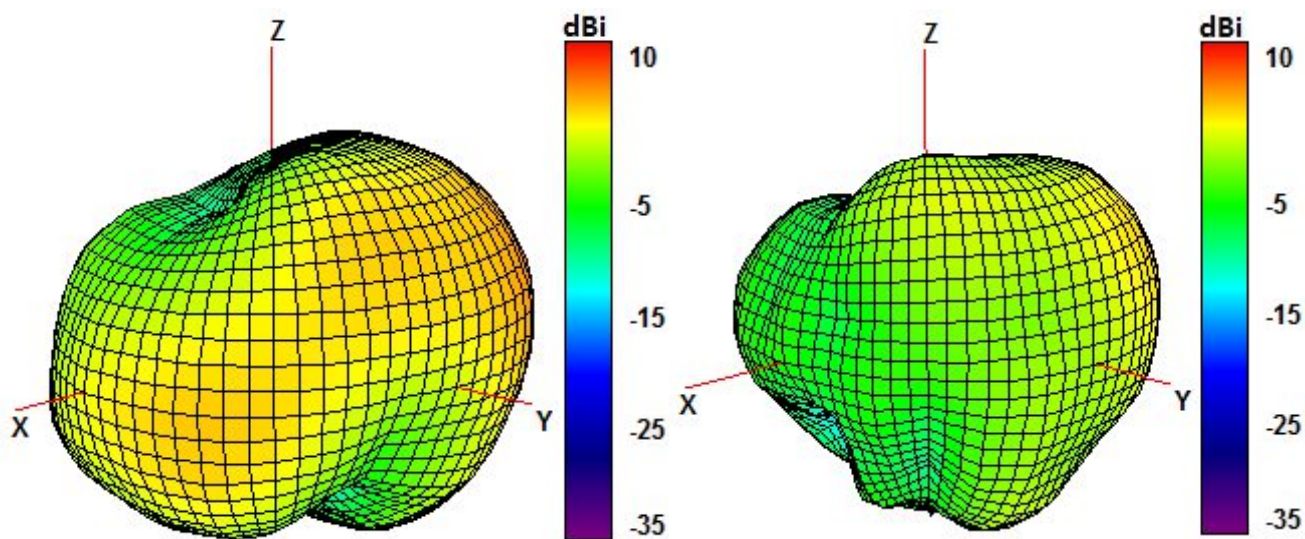
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2



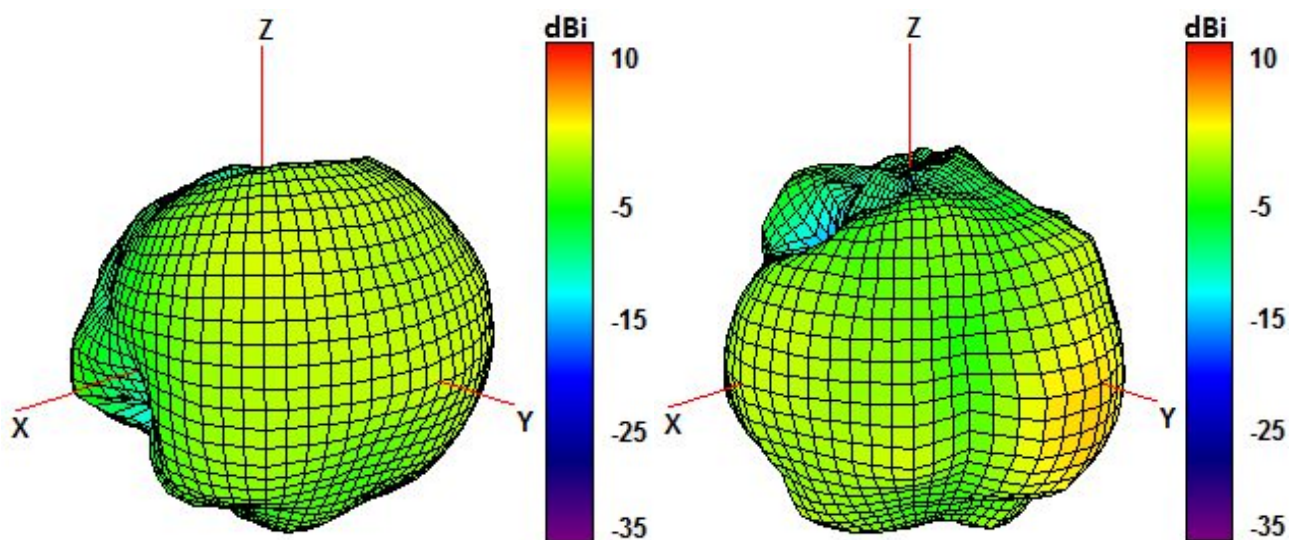


Radiation pattern reference

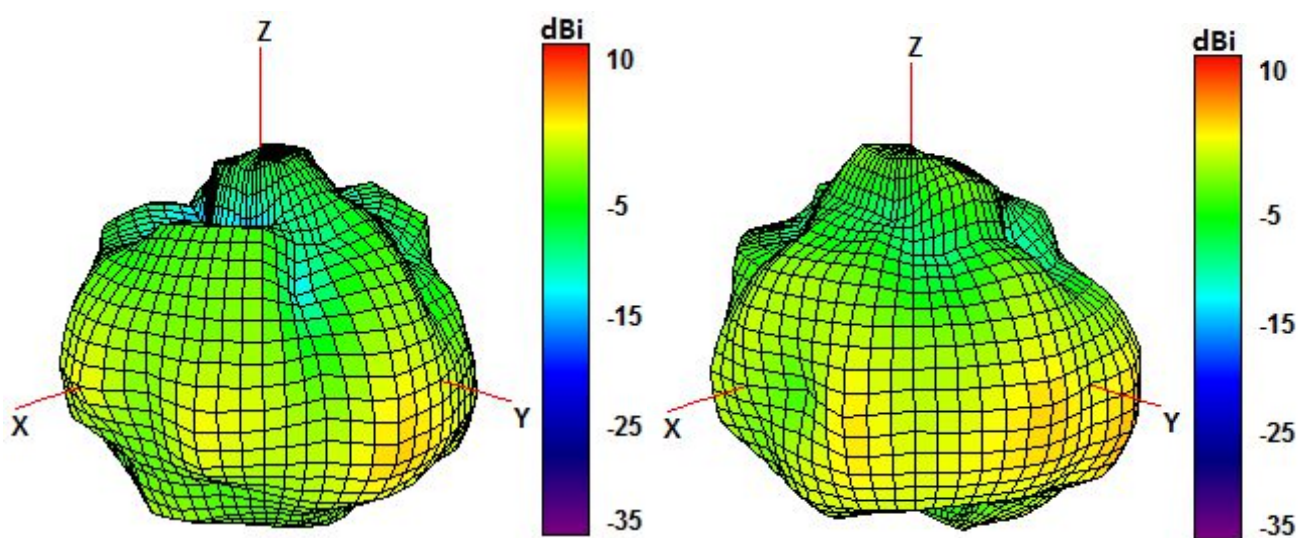
Cable 1: CELLULAR/LTE



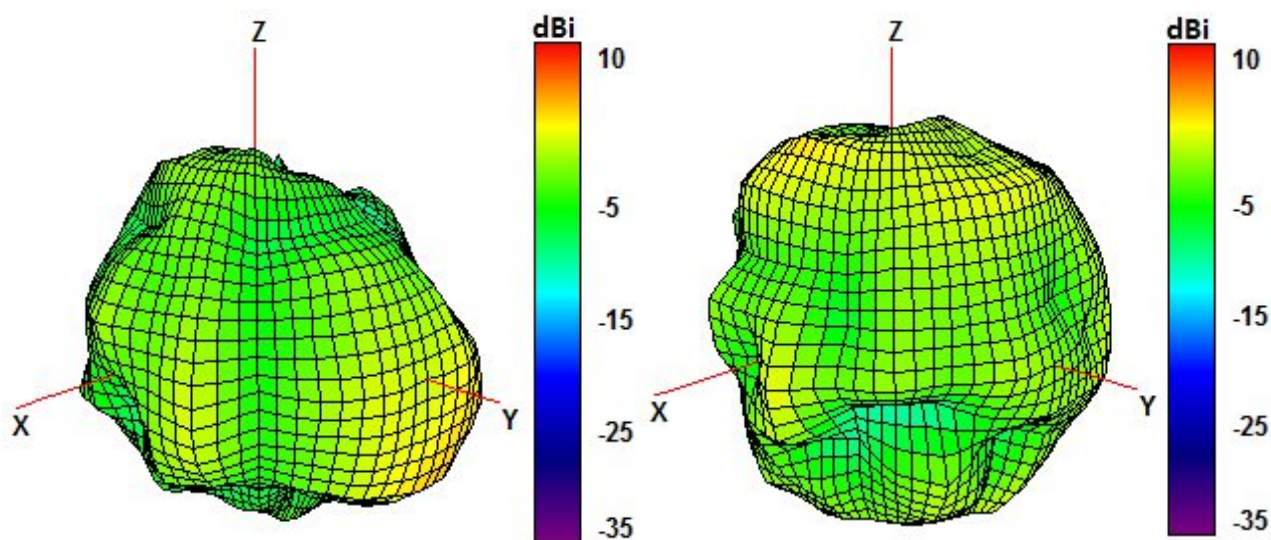
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

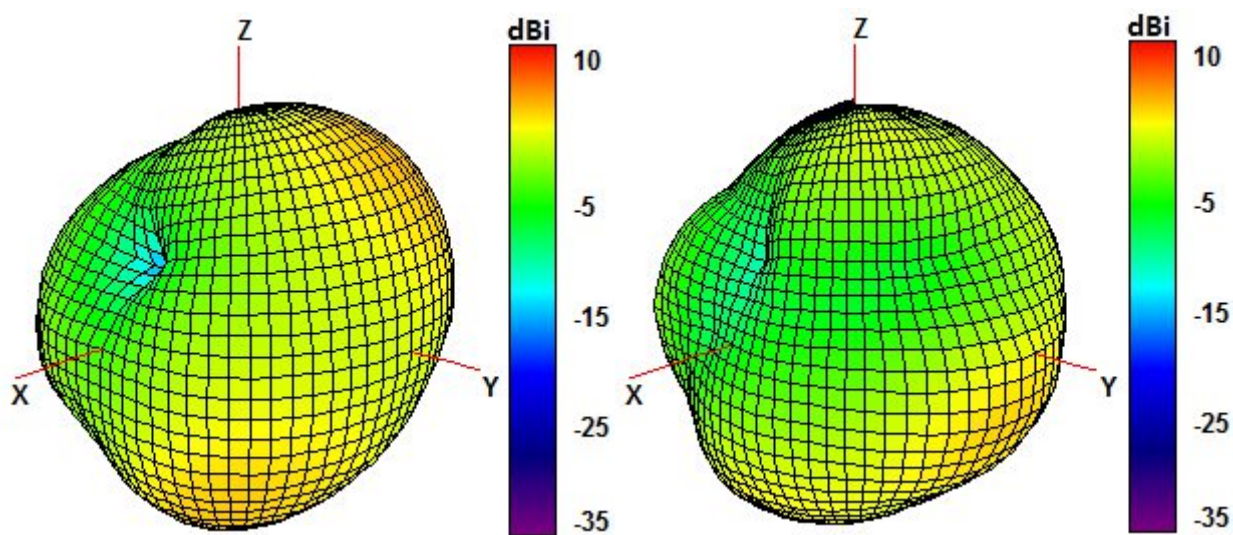


1850 and 1950 MHz Radiation pattern

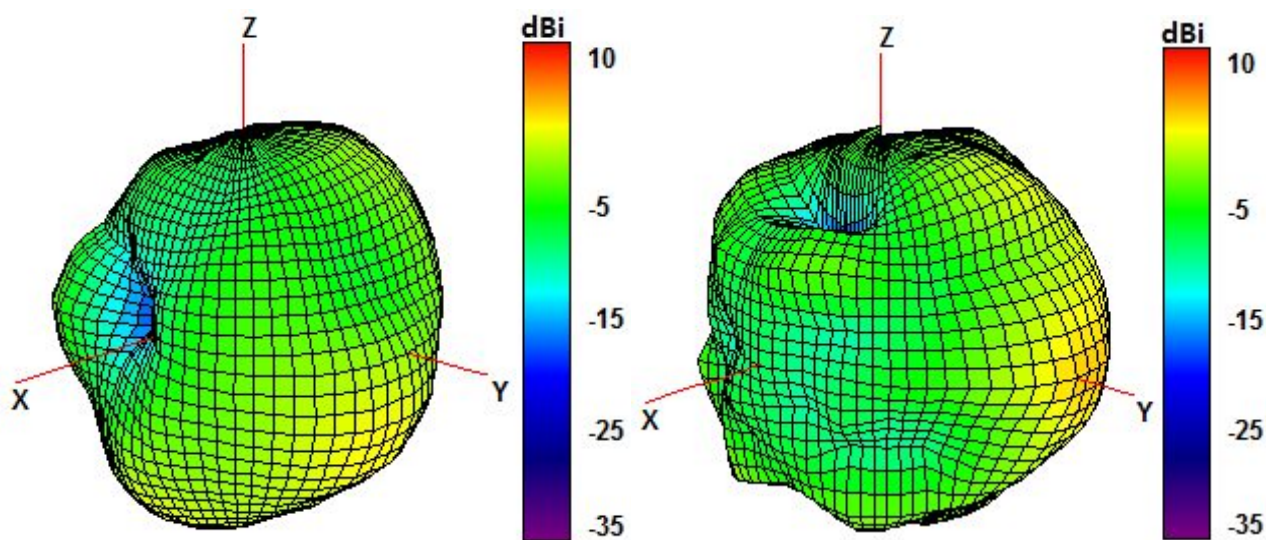


2100 and 2600 MHz Radiation pattern

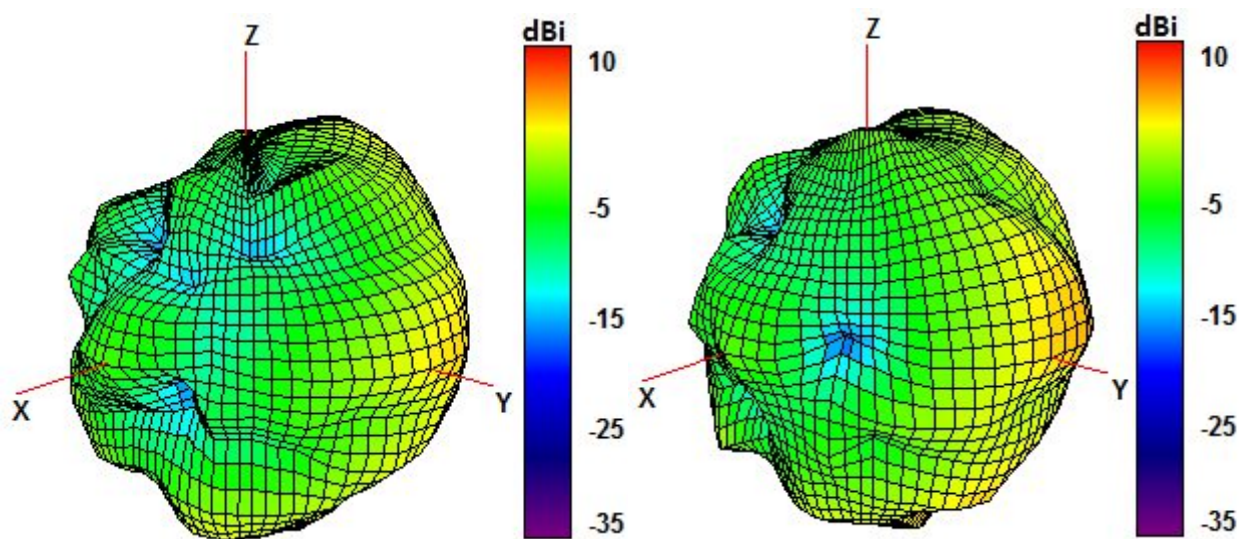
Cable 2: CELLULAR/LTE



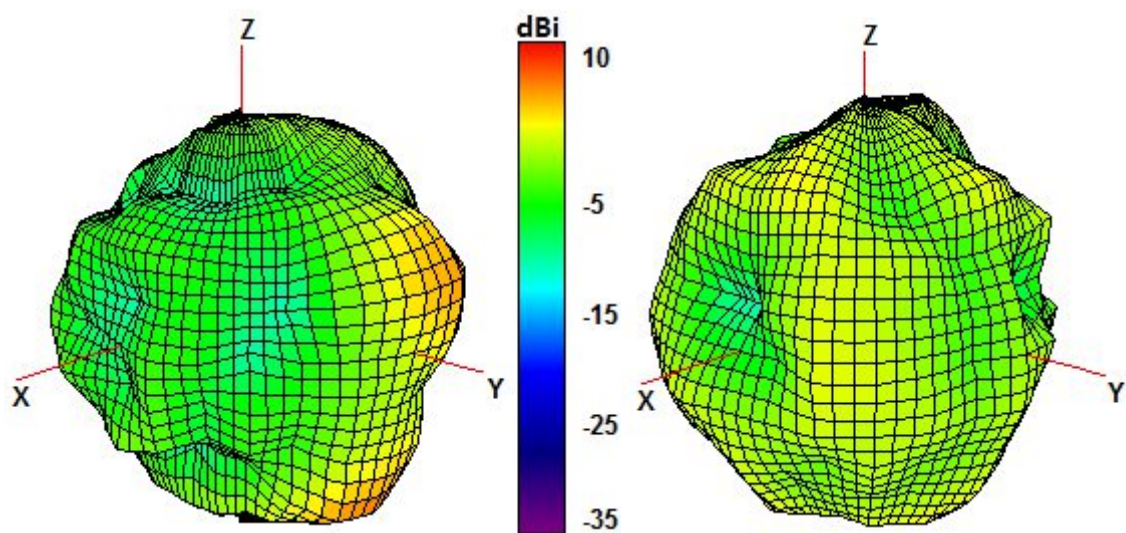
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

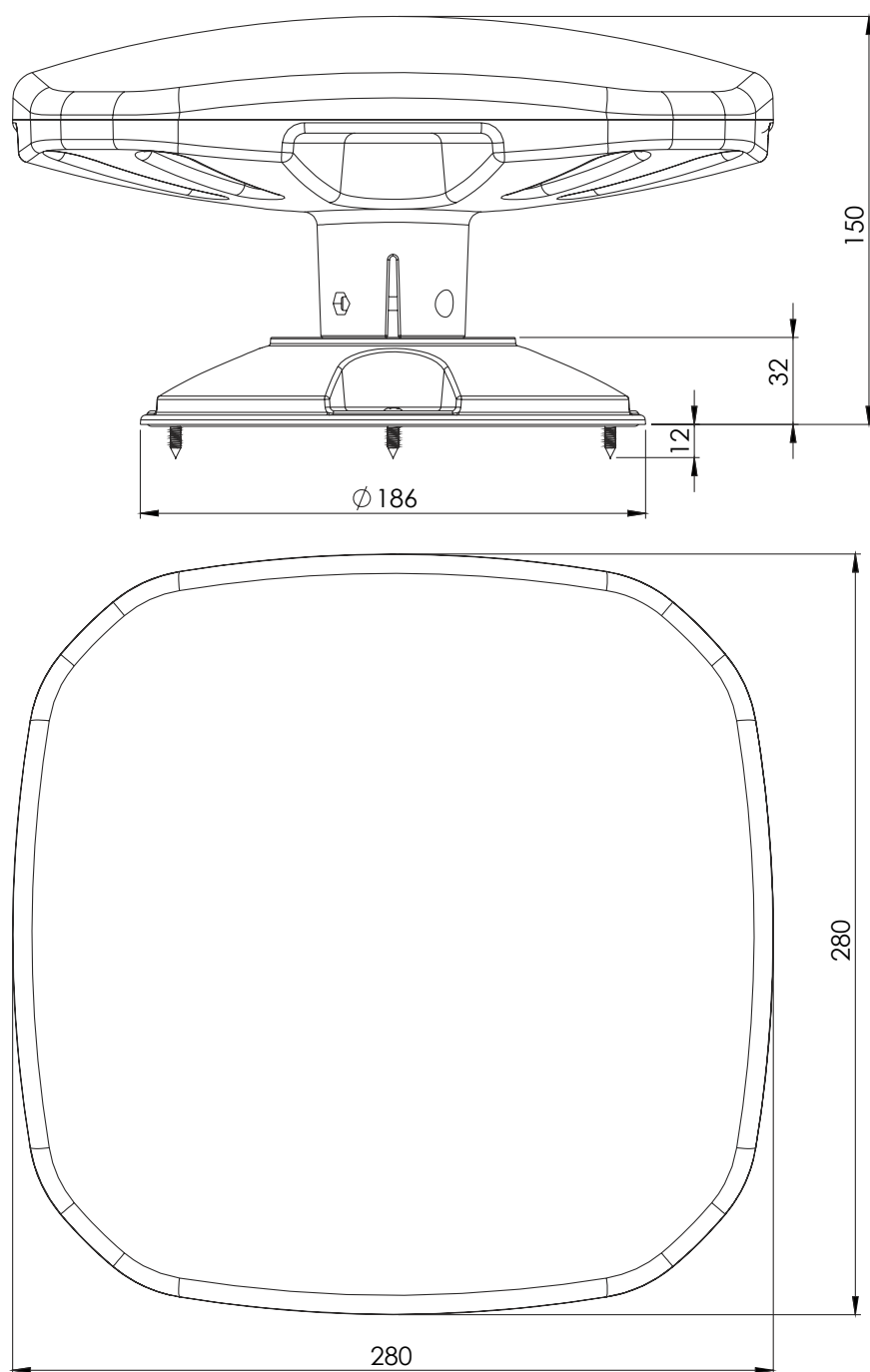


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

