

2J6947Pa

CELLULAR/LTE MIMO and 2.4/5.0/6.0 GHz Adhesive Mount

Key Features

Cable 1 and 2: CELLULAR / LTE

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

Cable 3: 2.4/5.0/6.0 GHz ISM

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

Adhesive Mount

Low Profile

High Performance

Ground Plane Independent

Customizable Cable and Connector

Dimensions 89 × 76 × 30 mm

Certificates: IP67, IP69



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)	~-11.7	~-7.9	~-21.6
VSWR	~2.0:1	~2.4:1	~1.2:1
Efficiency (%)	~45.5	~26.2	~31.0
Peak Gain (dBi)	~3.5	~2.2	~4.2
Average Gain (dB)	~-3.7	~-5.9	~-5.0
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	D302 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)	~-12.0	~-7.9	~-20.7
VSWR	~1.9:1	~2.4:1	~1.2:1
Efficiency (%)	~34.3	~25.4	~40.0
Peak Gain (dBi)	~3.5	~2.3	~4.2
Average Gain (dB)	~-4.5	~-6.1	~-4.0
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	D302 Standard (Other Cables Available)		

Cable 3

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
Standards	WiFi, BT, ZigBee, ISM, Sigfox, LoRa		
Band (MHz)	2.4GHz	5.0 GHz	6.0GHz
Frequency (MHz)	2410-2490	4920-5925	5925-7125
Return Loss (dB)	~-11.4	~-18.0	~-18.5
VSWR	~2.0:1	~1.3:1	~1.3:1
Efficiency (%)	~24.7	~27.4	~25.4
Peak Gain (dBi)	~-0.2	~1.7	~1.6
Average Gain (dB)	~-6.1	~-5.6	~-5.8
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male-RP 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 Metal Plate of 30 x 30 cm

200 cm of Cable D302

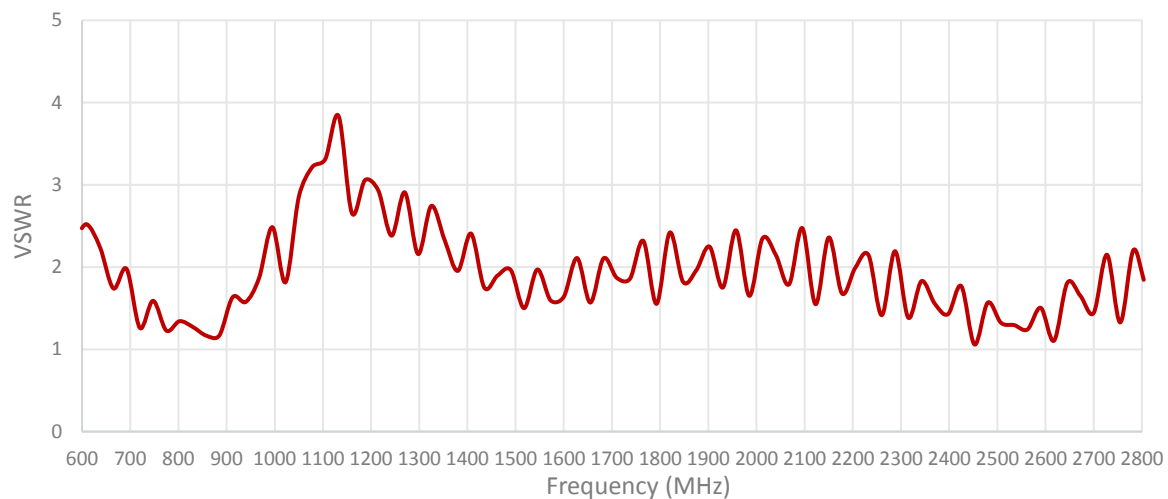
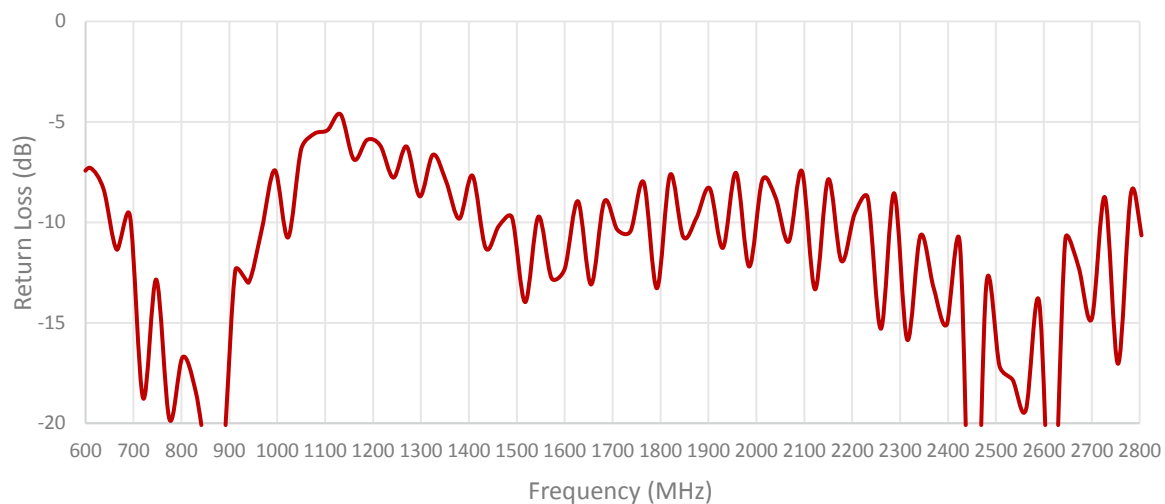
Measured in Certified CTIA 3D Anechoic Chamber

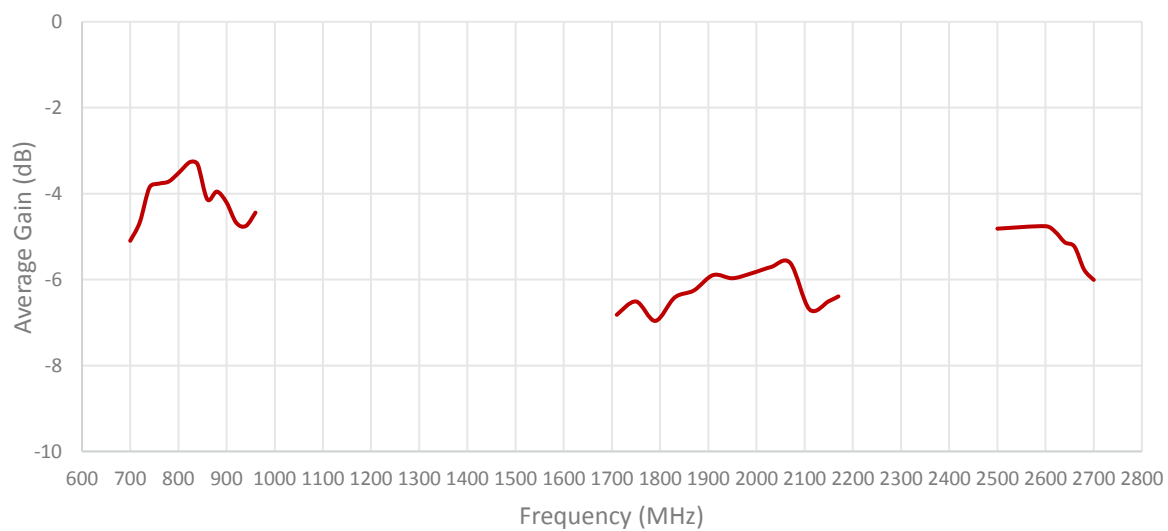
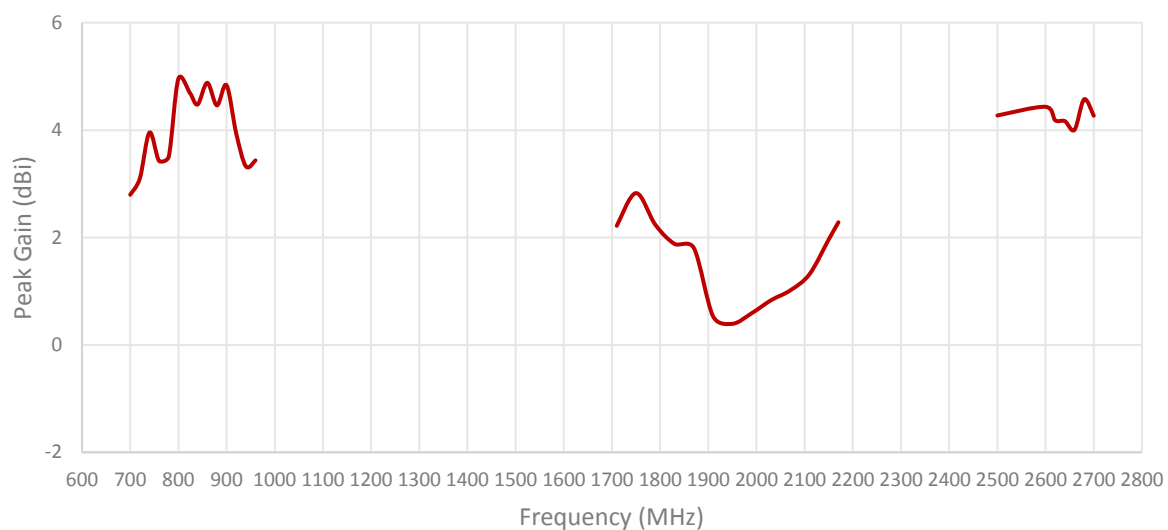
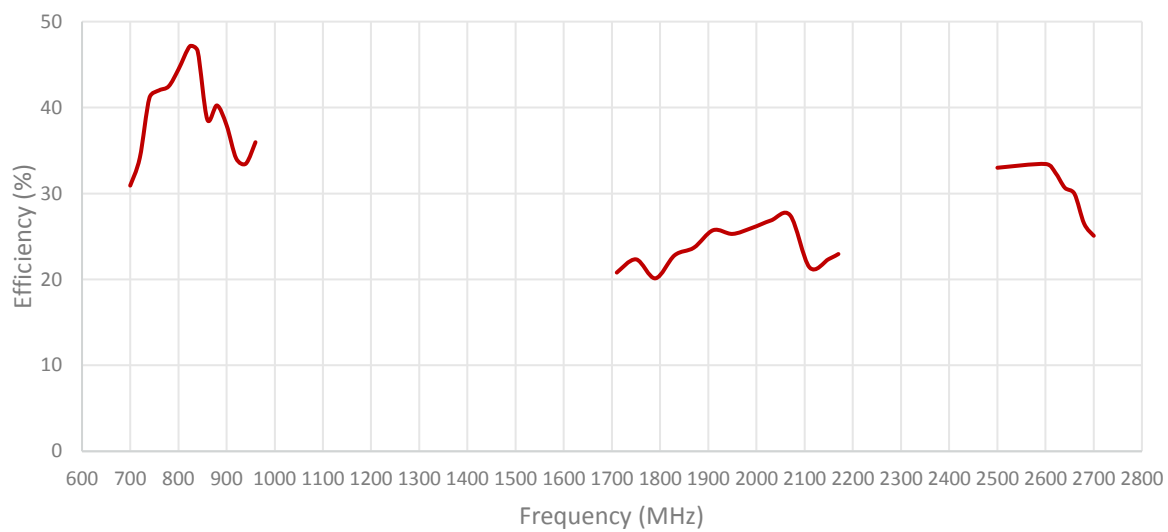
2. Mechanical and environmental specifications

Specifications	2J6947Pa
Mounting Type	Adhesive Mount
Dimensions (mm)	89 × 76 × 30
Radome Type	PC+ASA
Radome Color	Black, White
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69

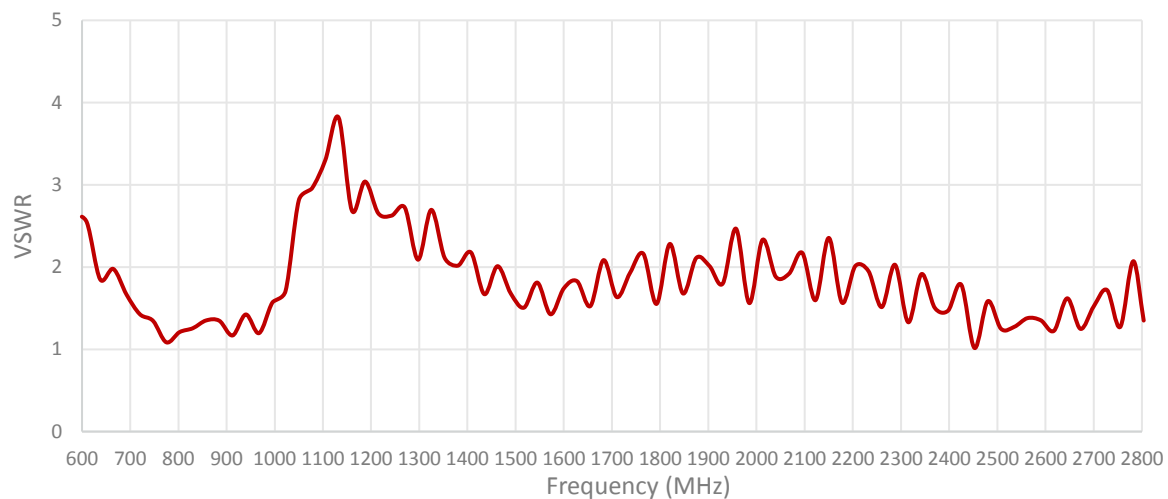
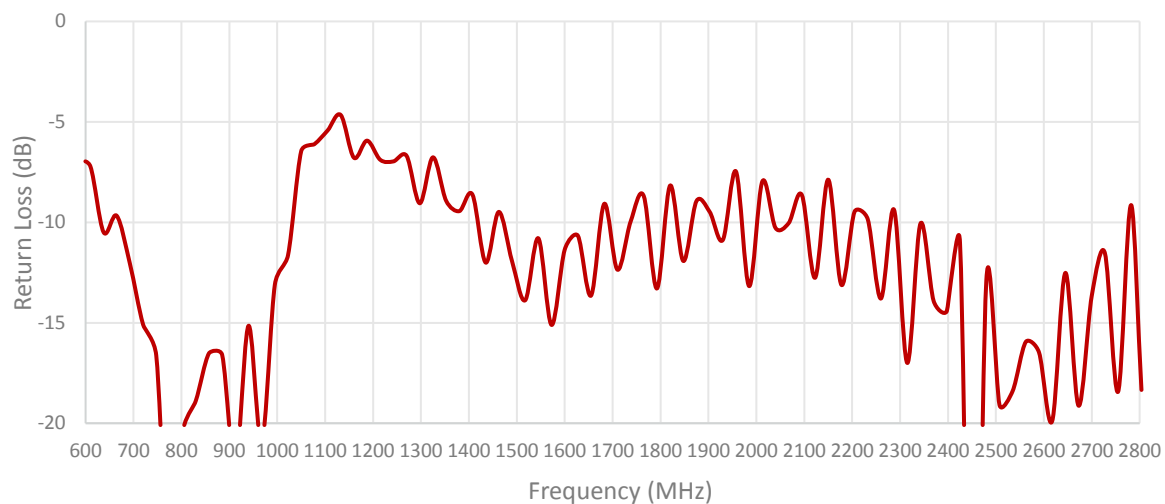
3. Antenna parameters

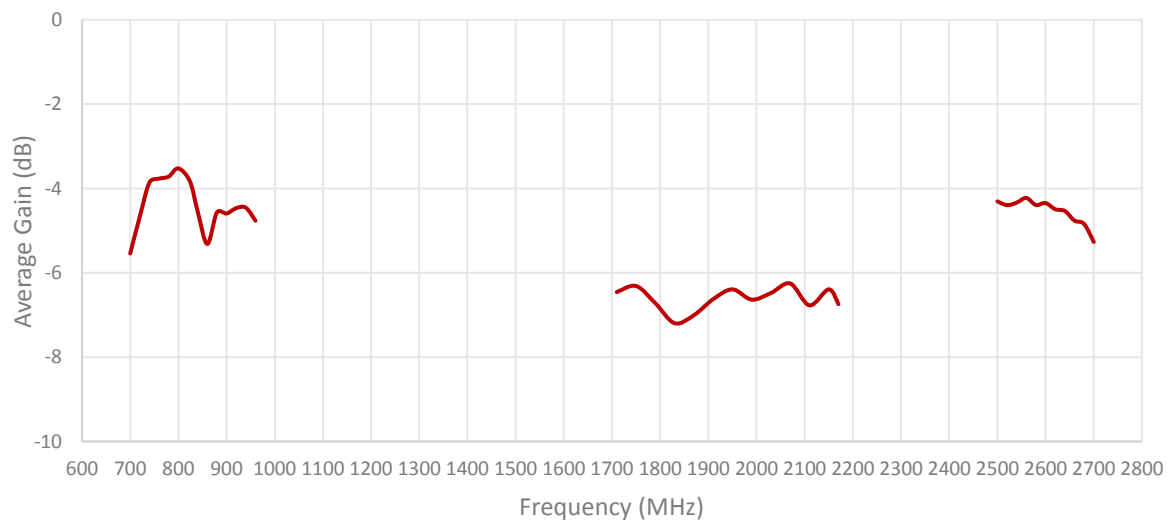
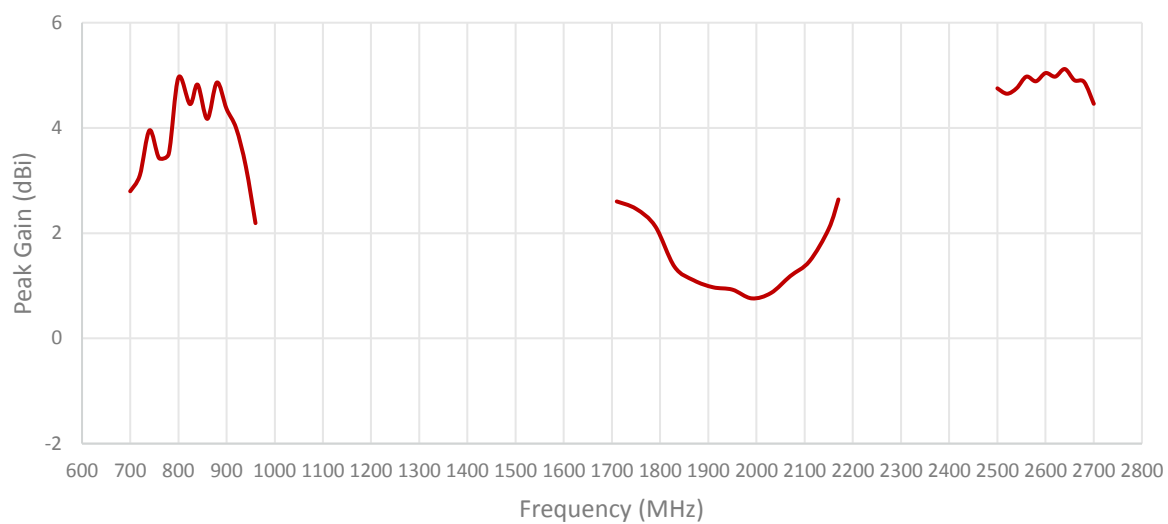
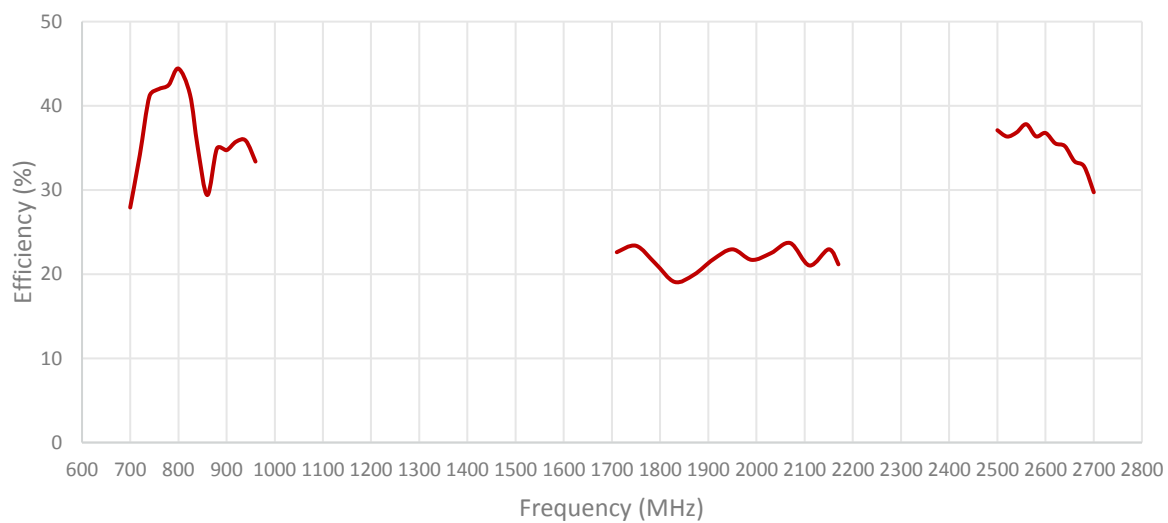
Cable 1: CELLULAR/LTE



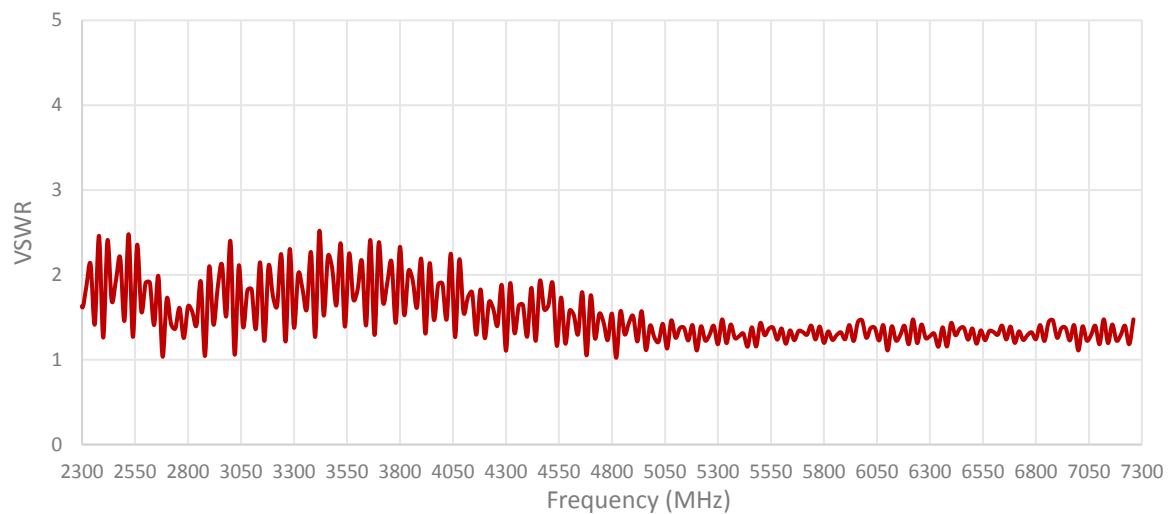
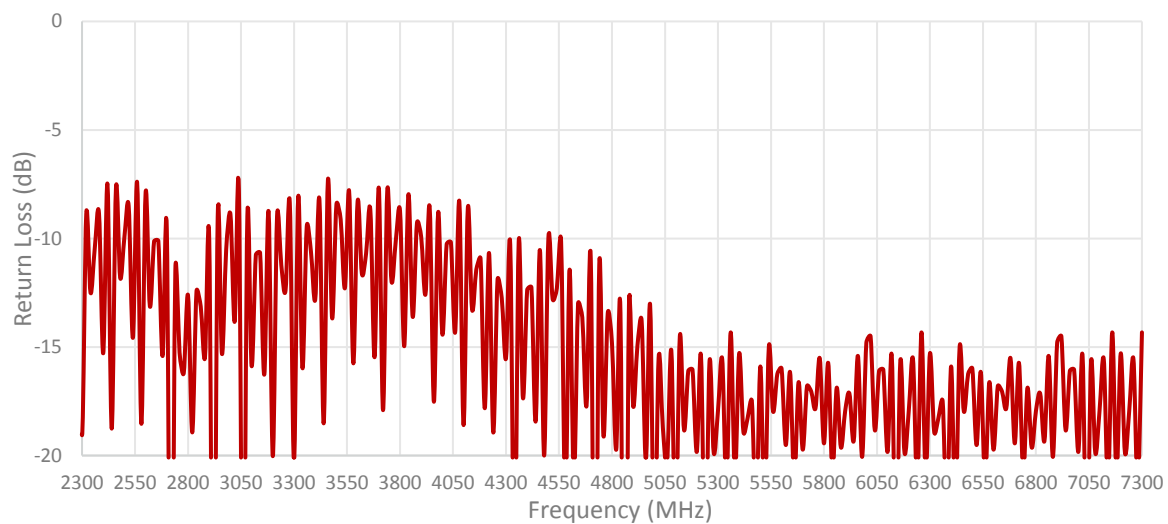


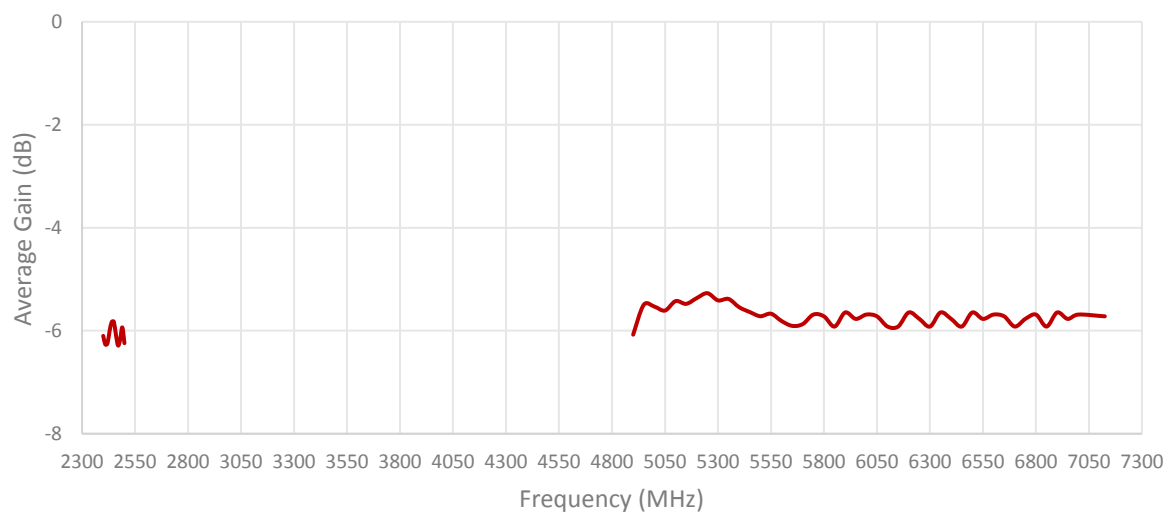
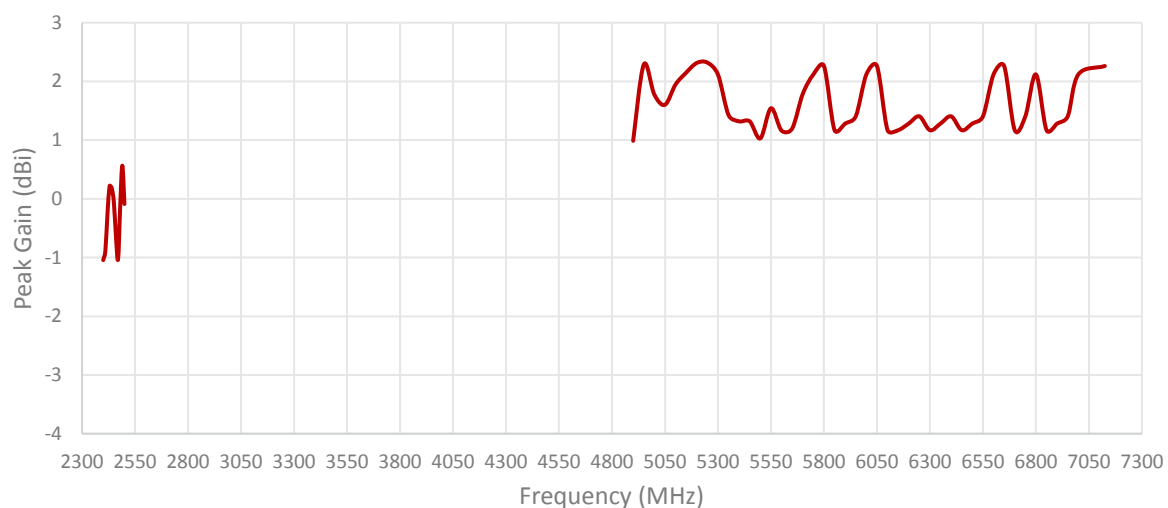
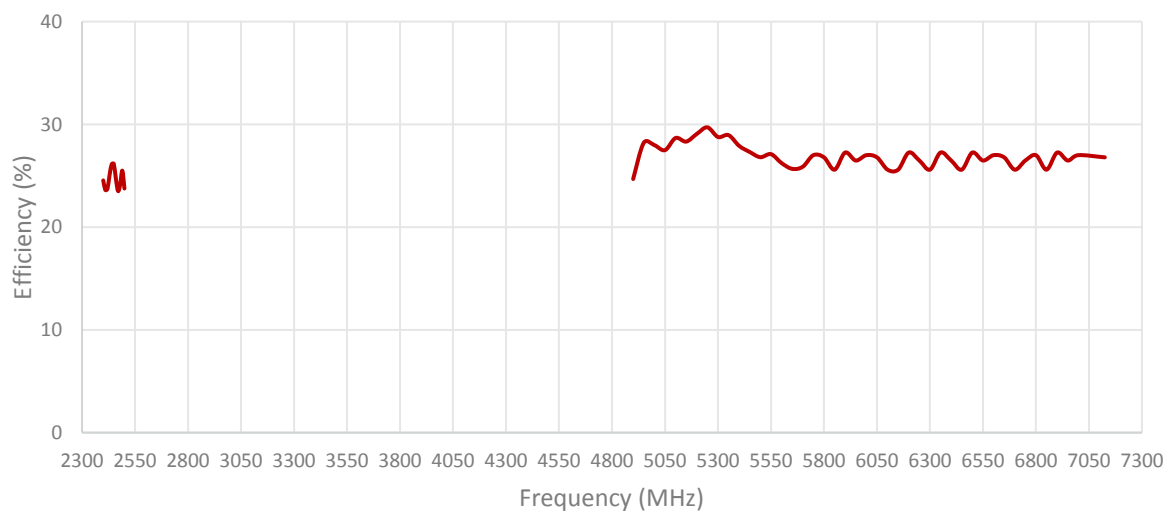
Cable 2: CELLULAR/LTE



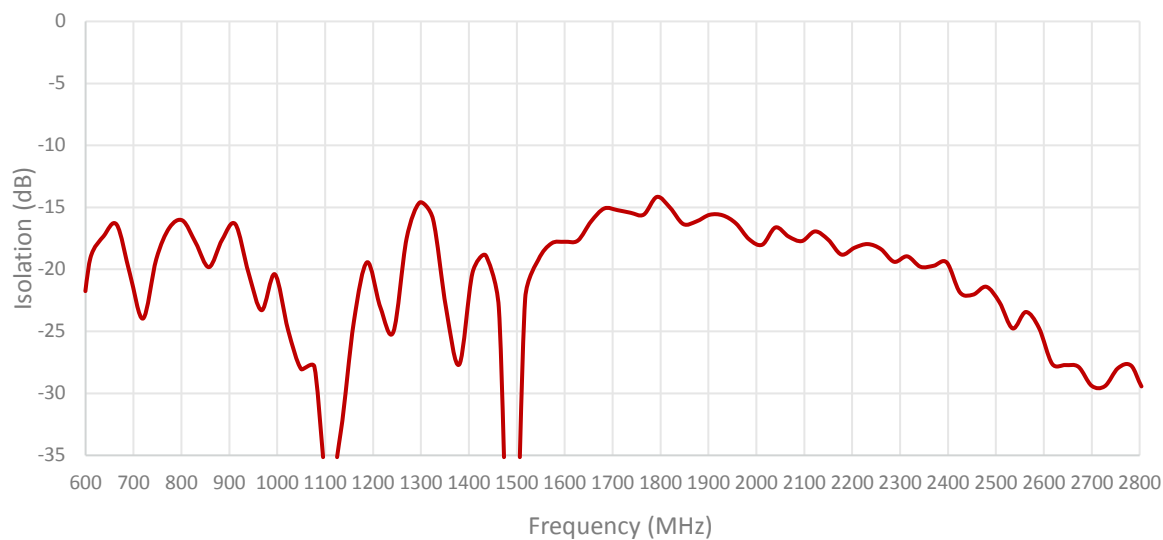


Cable 3: 2.4/5.0/6.0 GHz ISM

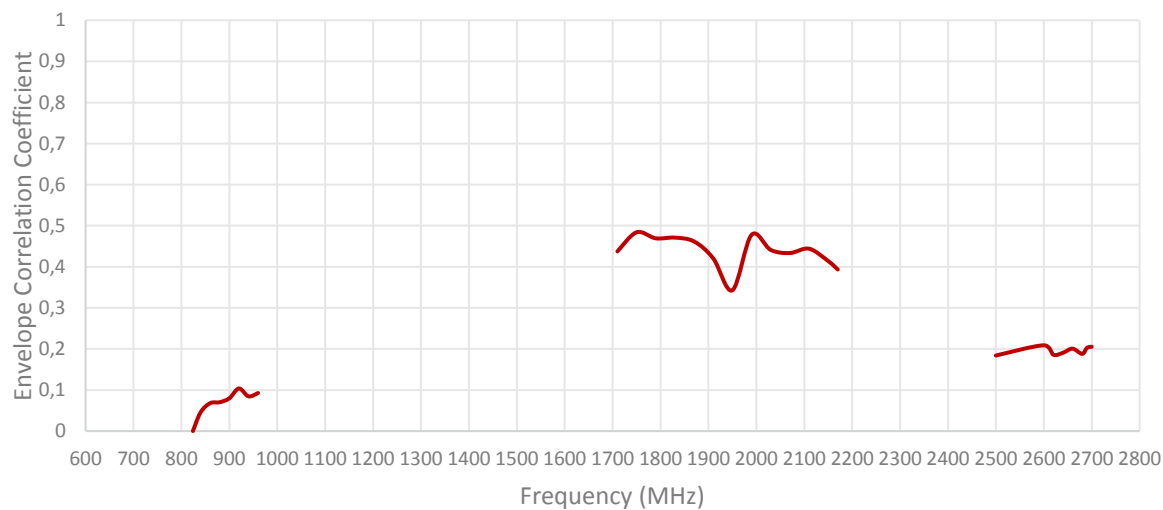


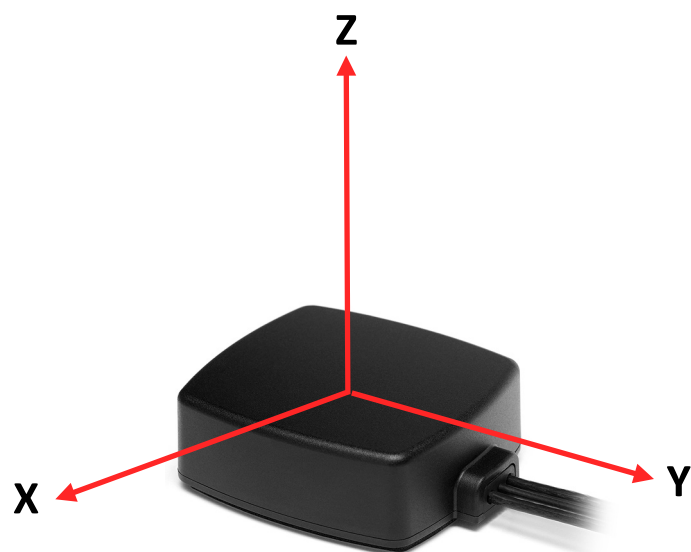


ISOLATION FOR CABLES 1 AND 2



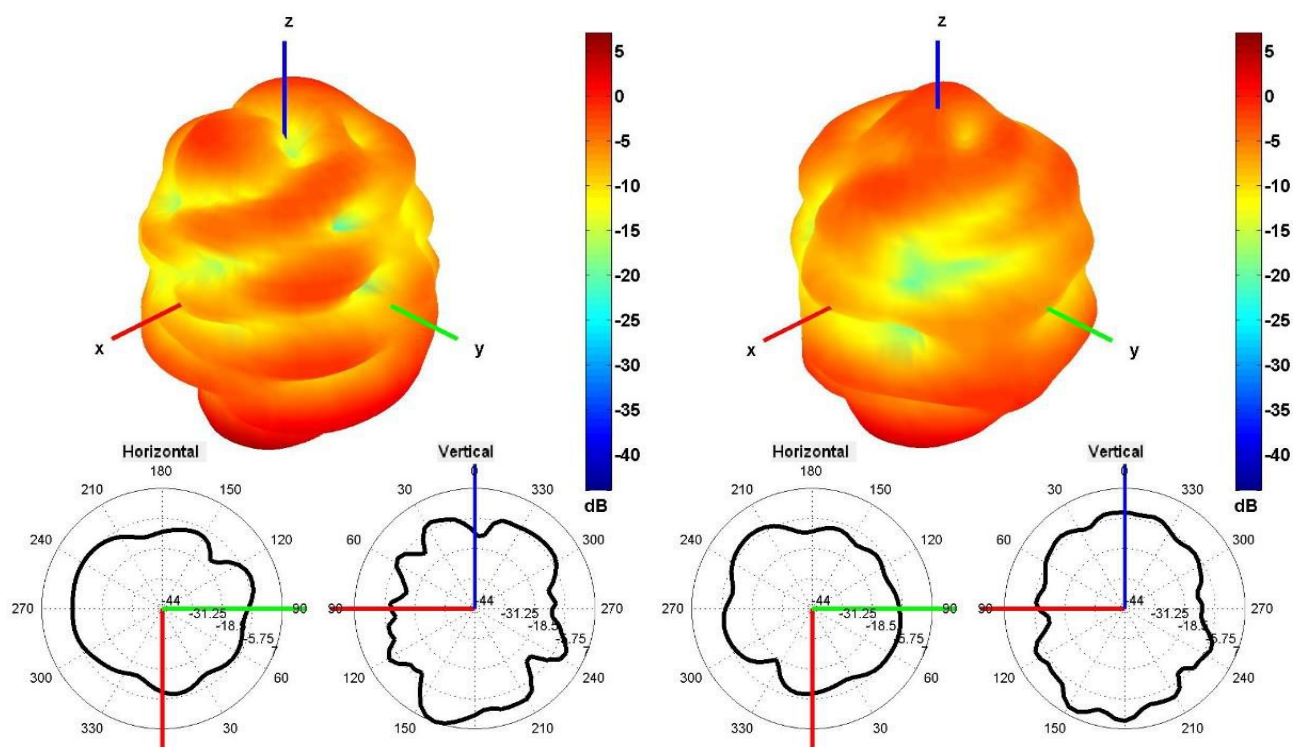
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2



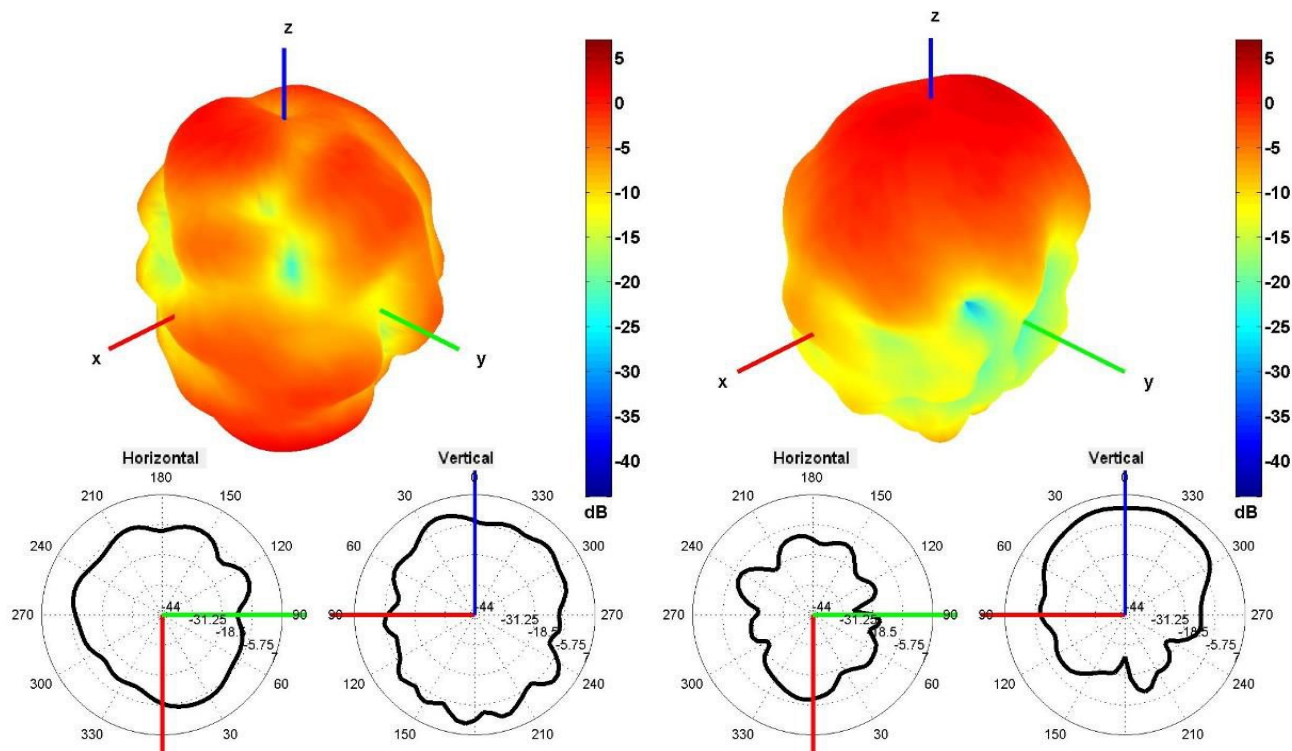


Radiation pattern reference

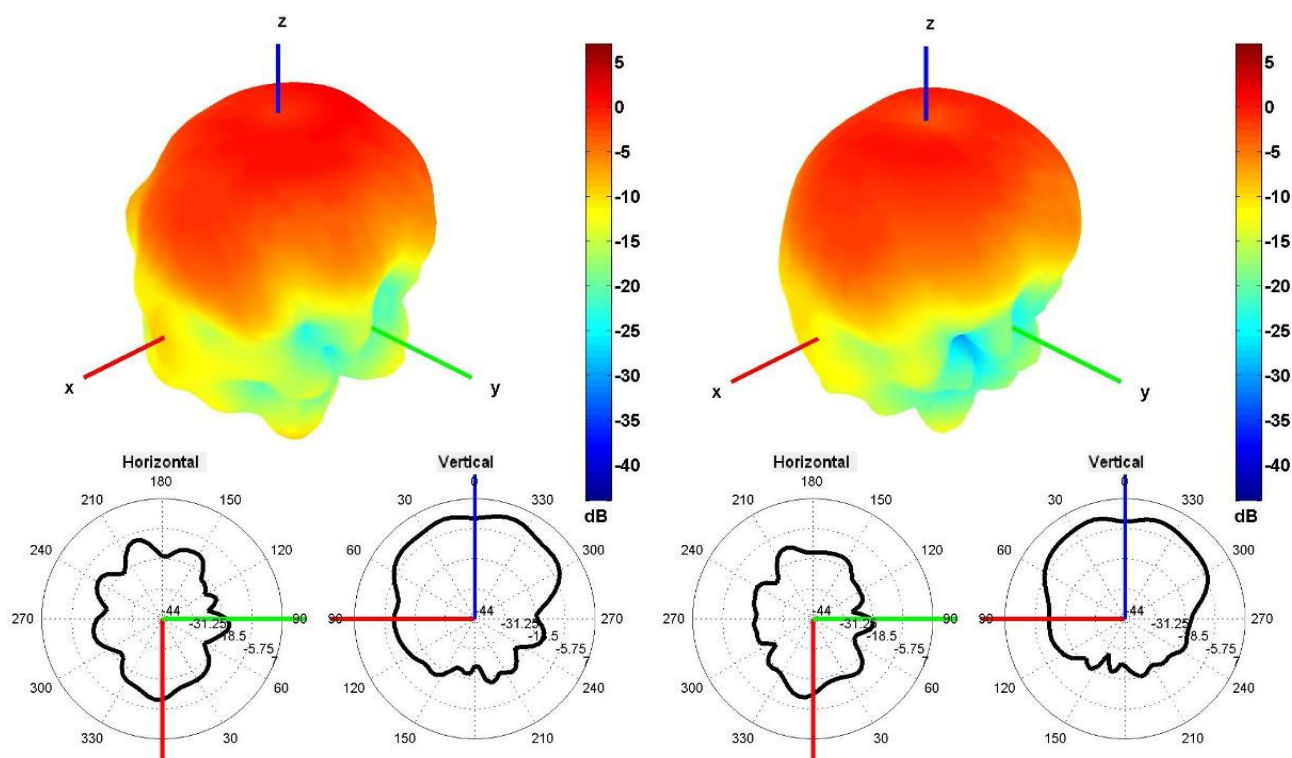
Cable 1: CELLULAR/LTE



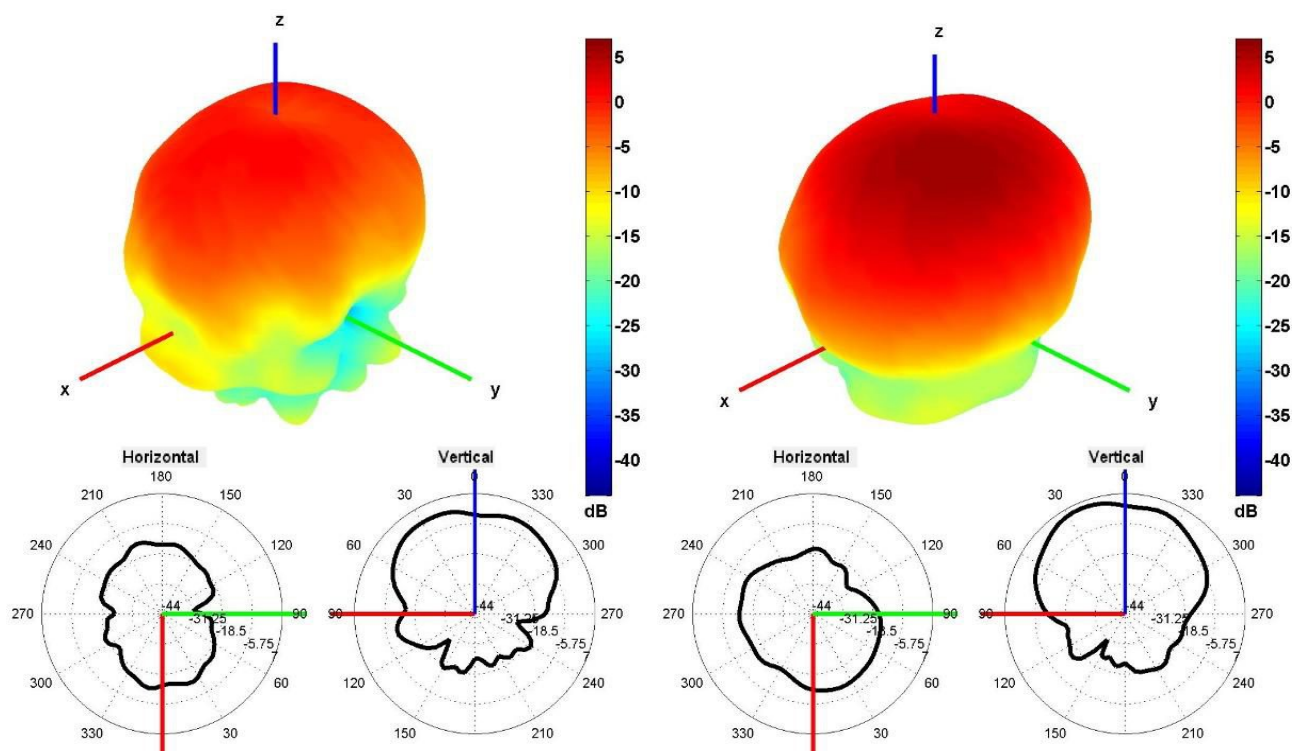
740 and 840 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

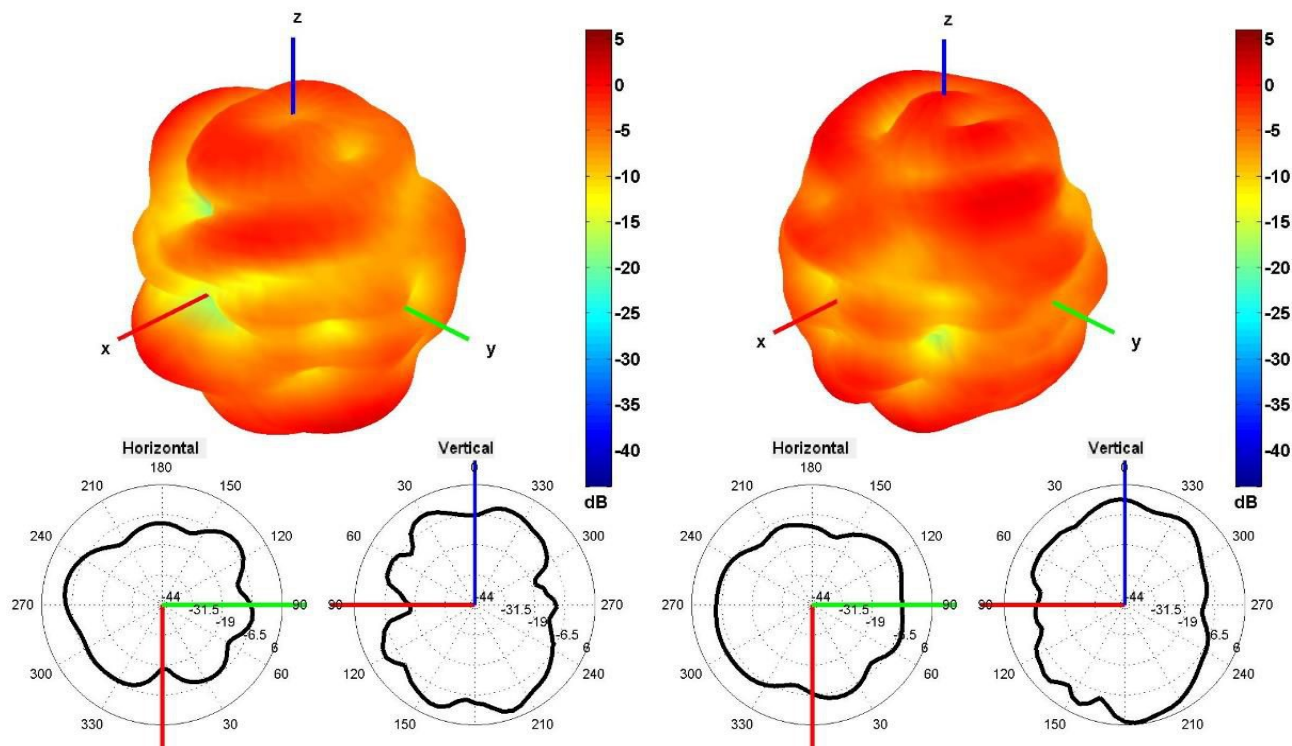


1850 and 1950 MHz Radiation pattern

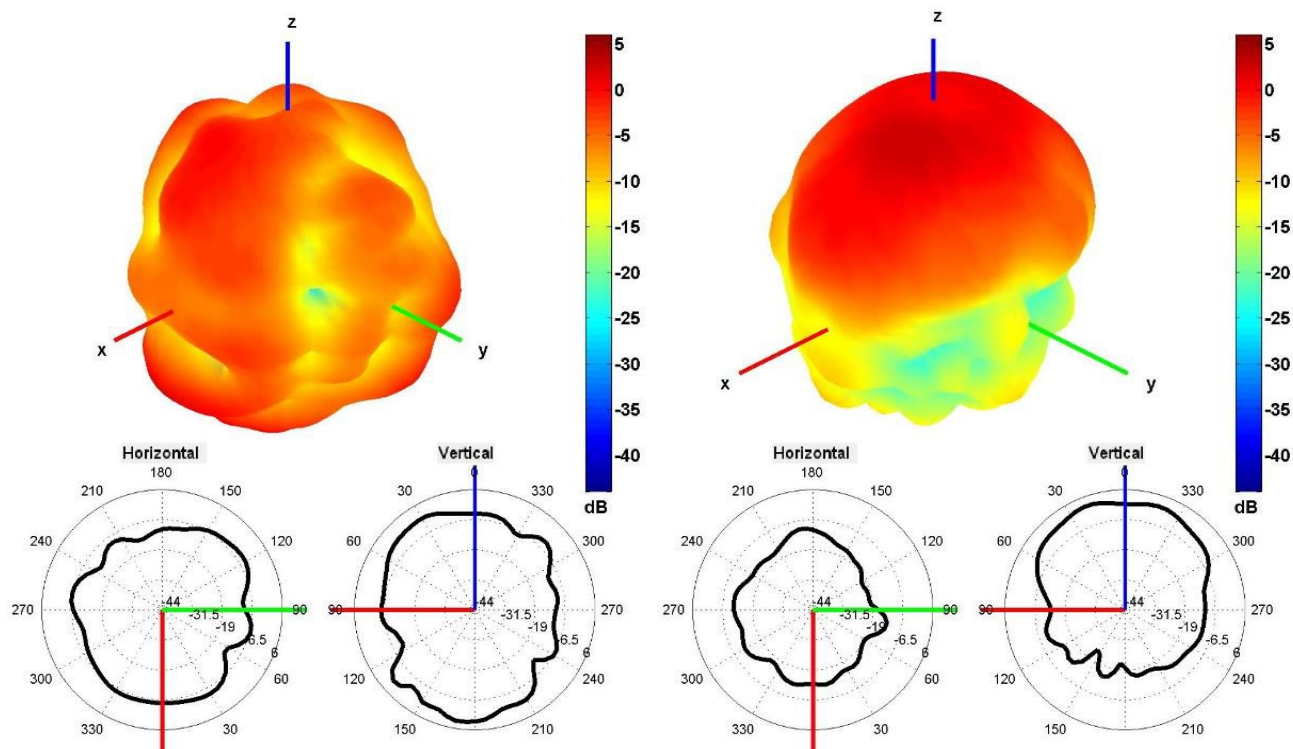


2100 and 2600 MHz Radiation pattern

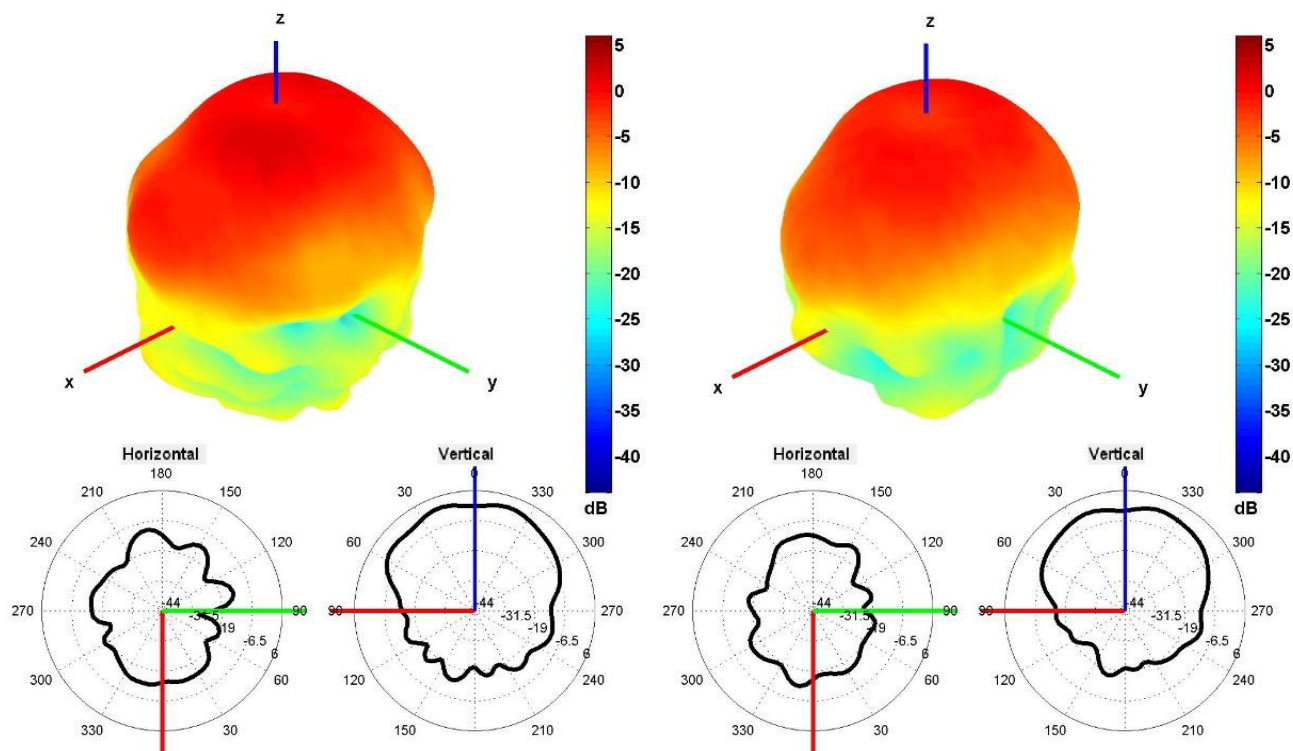
Cable 2: CELLULAR/LTE



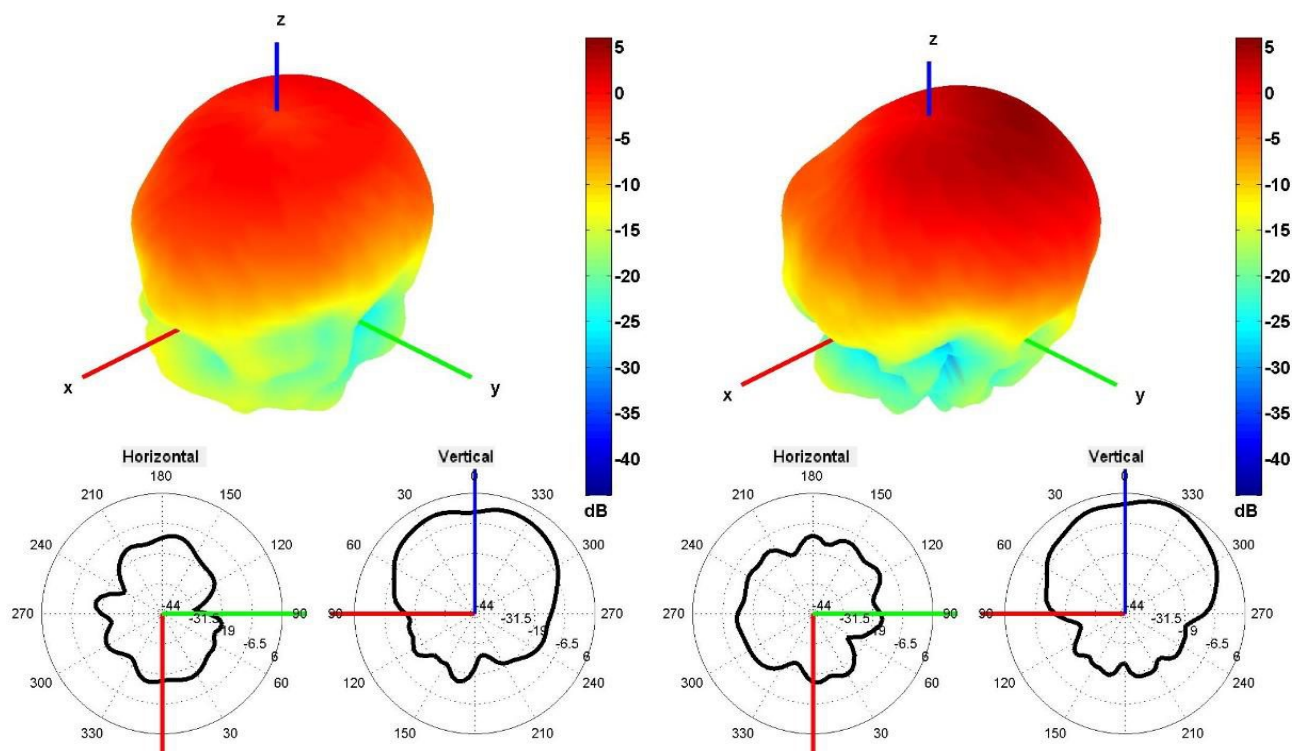
740 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

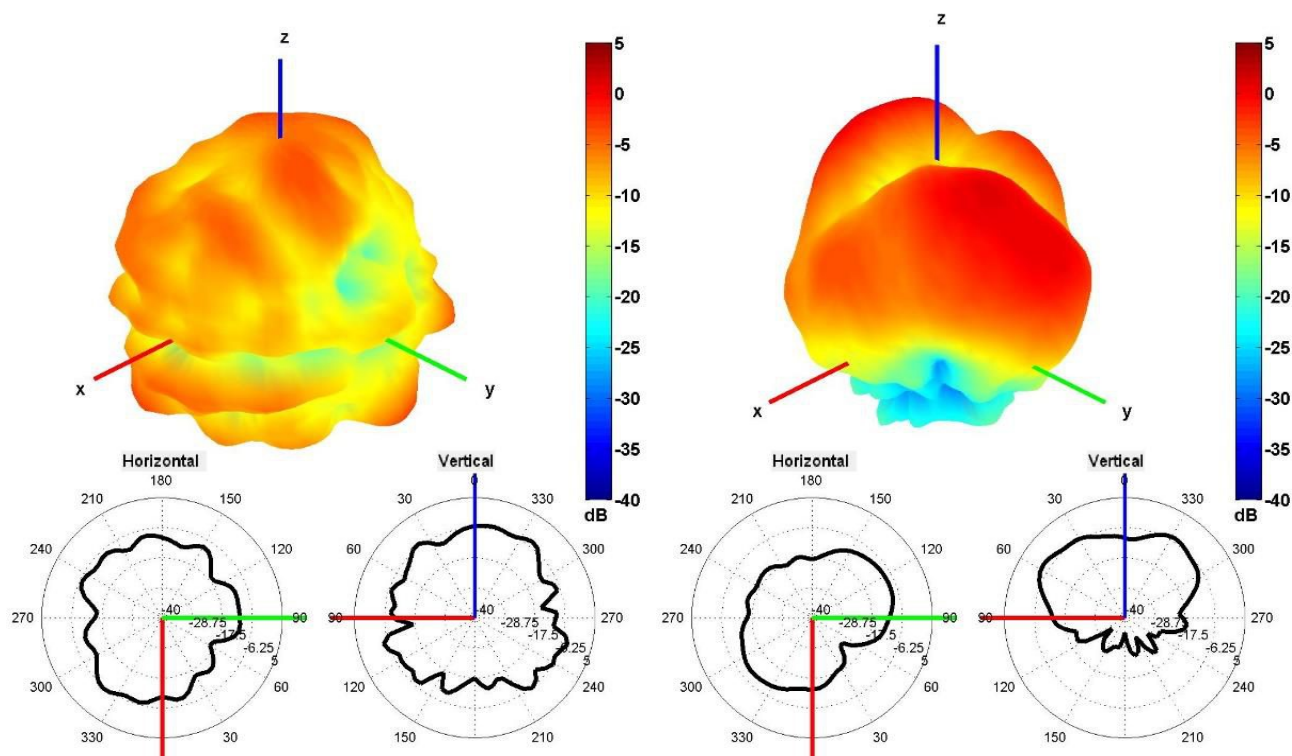


1850 and 1950 MHz Radiation pattern

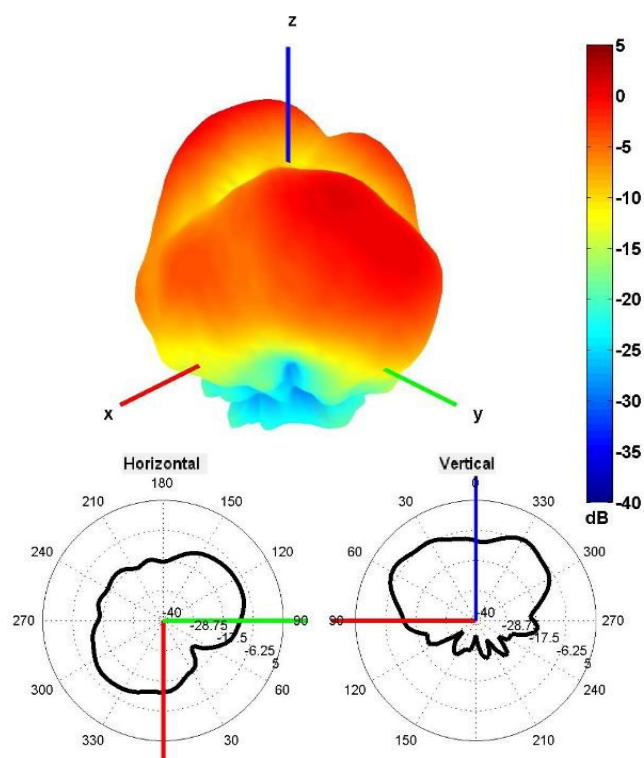


2100 and 2600 MHz Radiation pattern

Cable 3: 2.4/5.0/6.0 GHz ISM



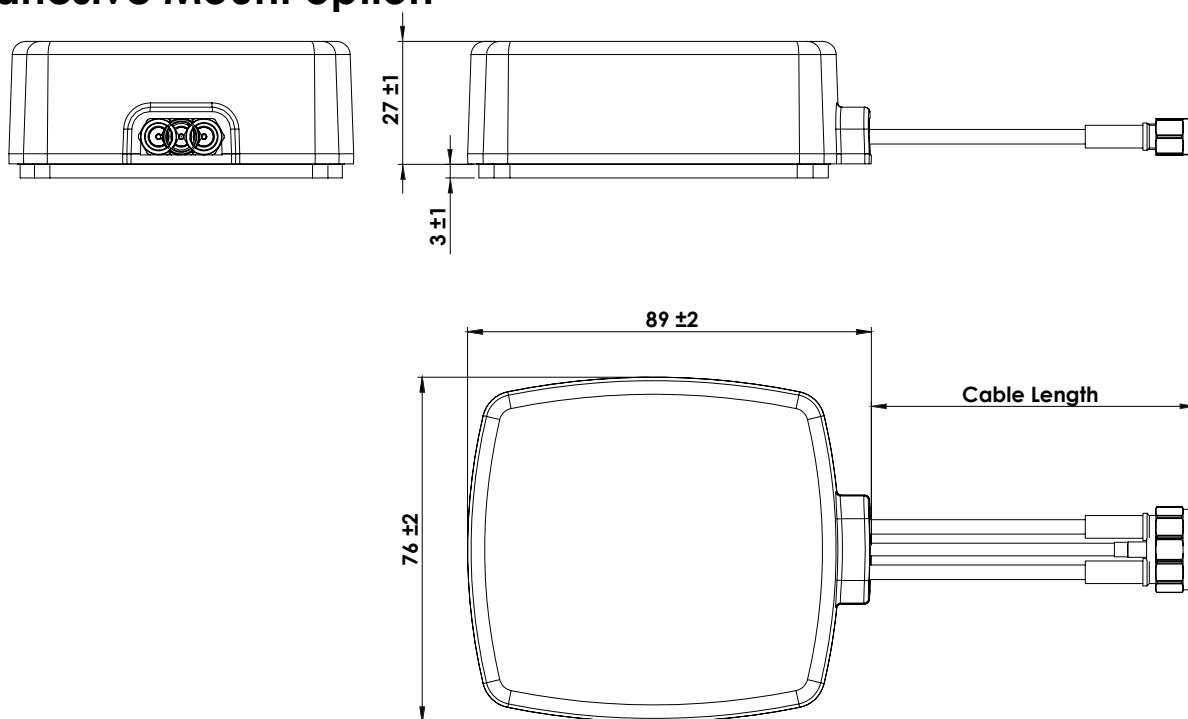
2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

4. Antenna drawings

Adhesive Mount option



5. Antenna Images

