

2J9547JBWc-B01BW

CELLULAR/LTE MIMO and 2.4/5.0 GHz ISM MIMO Screw Mount

Key Features

Cable 1 and 2: CELLULAR / LTE

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

Cable 3 and 4: 2.4/5.0 GHz ISM

- 2410-2490 MHz
- 4920-5925 MHz

Screw Mount

High Performance

Ground Plane Independent

Customizable Cable and Connector

Dimensions 280 x 280 x 150 mm

Certificates: IP69K 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

1. Antenna and electrical specifications

Cable 3

Parameters	2.4/5.0 GHz ISM Antenna	
Standards	WiFi, BT, ZigBee, ISM	
Band (MHz)	2.4 GHz	5.0 GHz
Frequency (MHz)	2410-2490	4920-5925
Return Loss (dB)	~-12.1	~-9.3
VSWR	~1.8:1	~2.2:1
Efficiency (%)	~48	~44
Peak Gain (dBi)	~-2.9	~-2.7
Average Gain (dB)	~-3.1	~-3.6
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)	

Cable 4

Parameters	2.4/5.0 GHz ISM Antenna	
Standards	WiFi, BT, ZigBee, ISM	
Band (MHz)	2.4 GHz	5.0 GHz
Frequency (MHz)	2410-2490	4920-5925
Return Loss (dB)	~-10.1	~-9.7
VSWR	~2.0:1	~2.2:1
Efficiency (%)	~75	~50
Peak Gain (dBi)	~-5.2	~-3.3
Average Gain (dB)	~-1.2	~-3.1
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

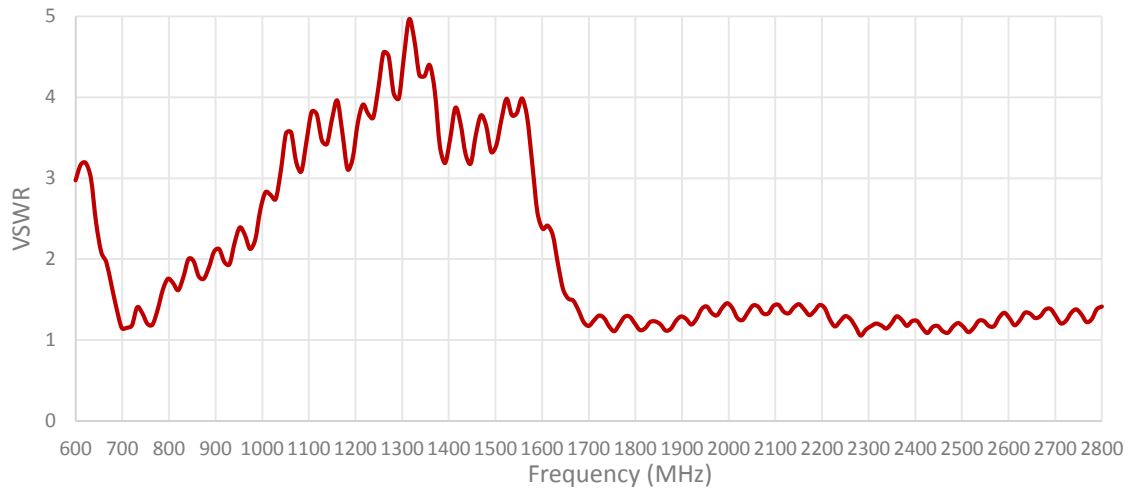
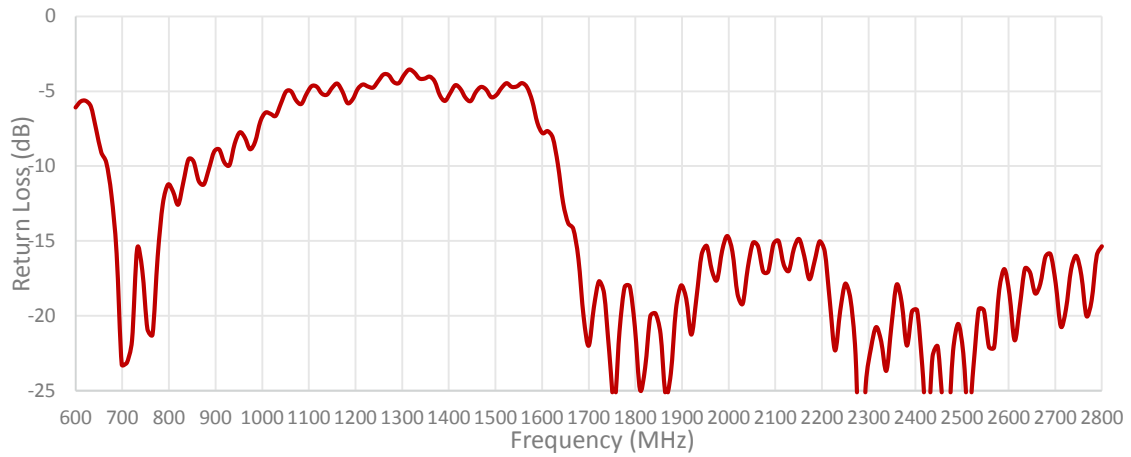
Measured in Certified CTIA 3D Anechoic Chamber

2. Mechanical and environmental specifications

Specifications	2J9547JBWc-B01BW
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	IP69K for antenna

3. Antenna parameters

Cable 1: CELLULAR/LTE



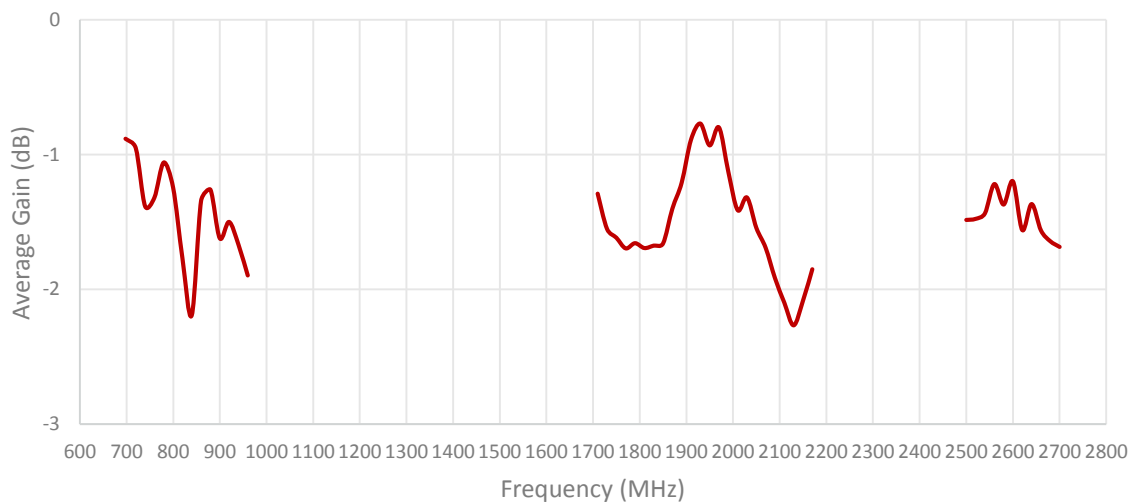
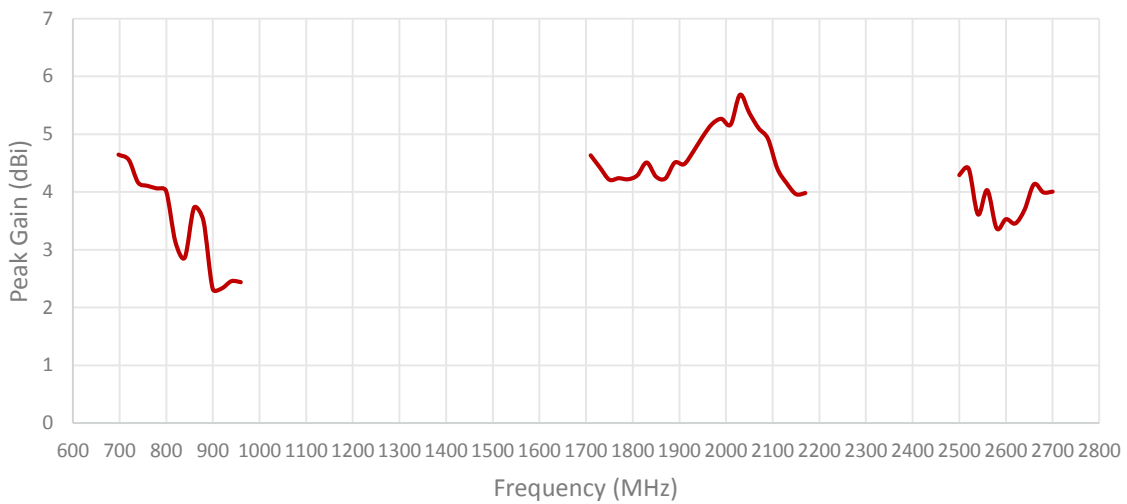
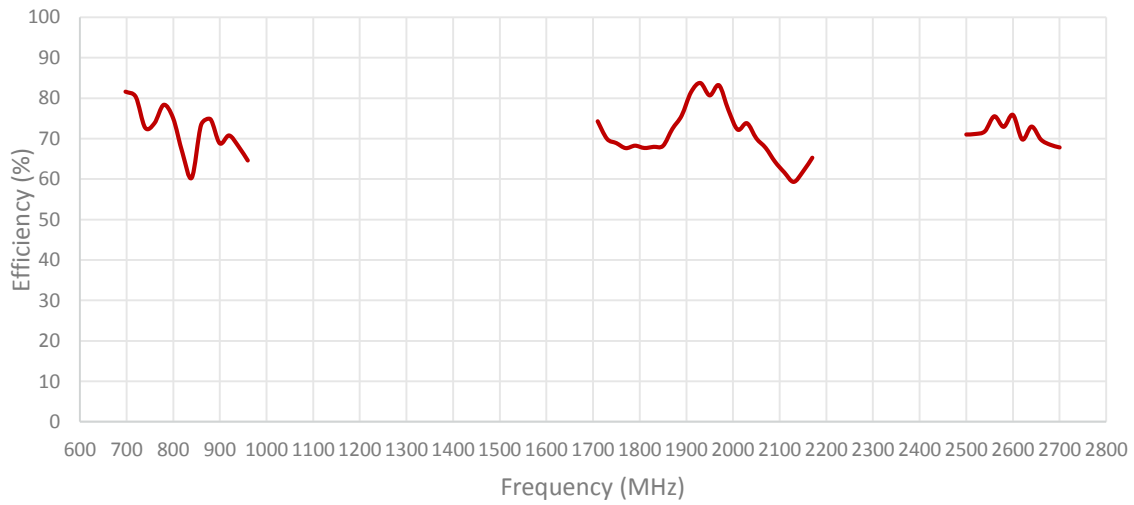
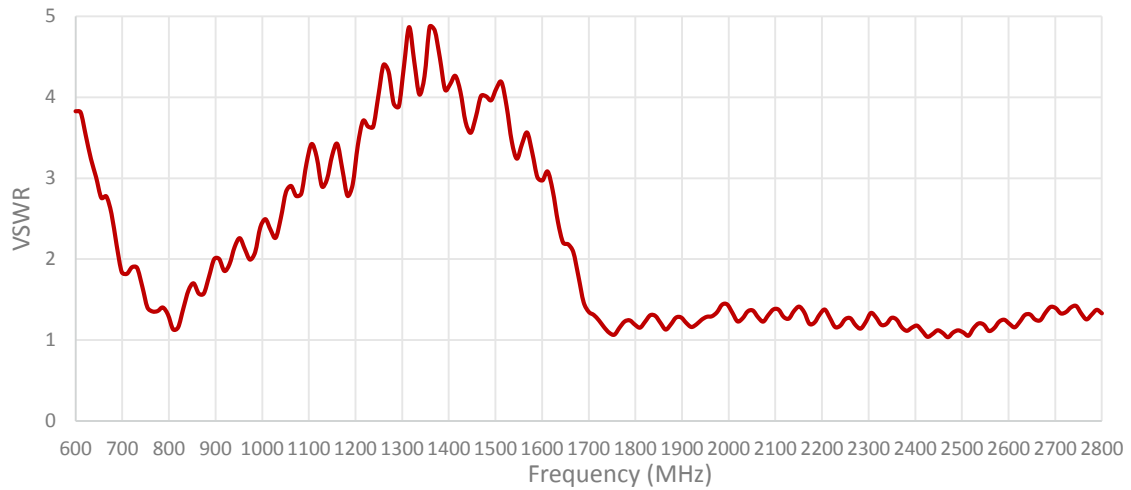
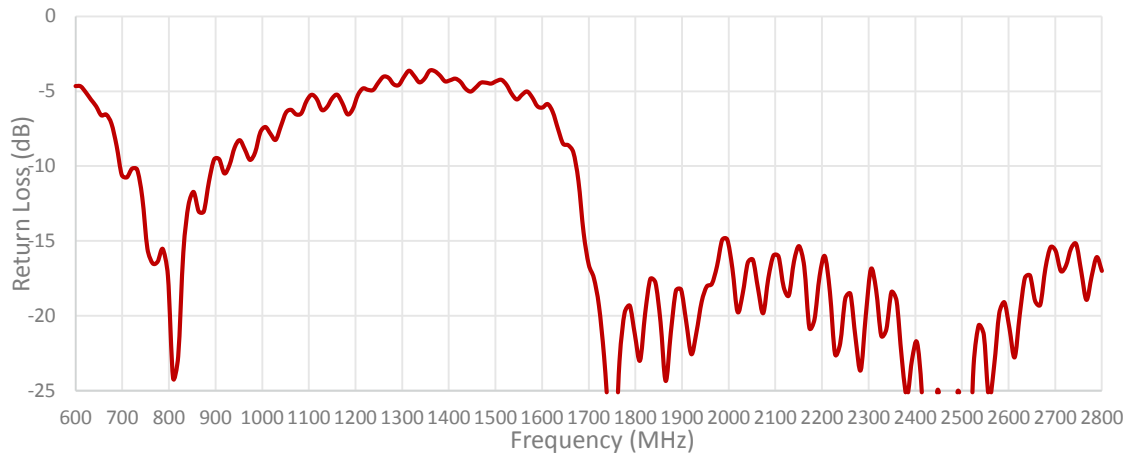
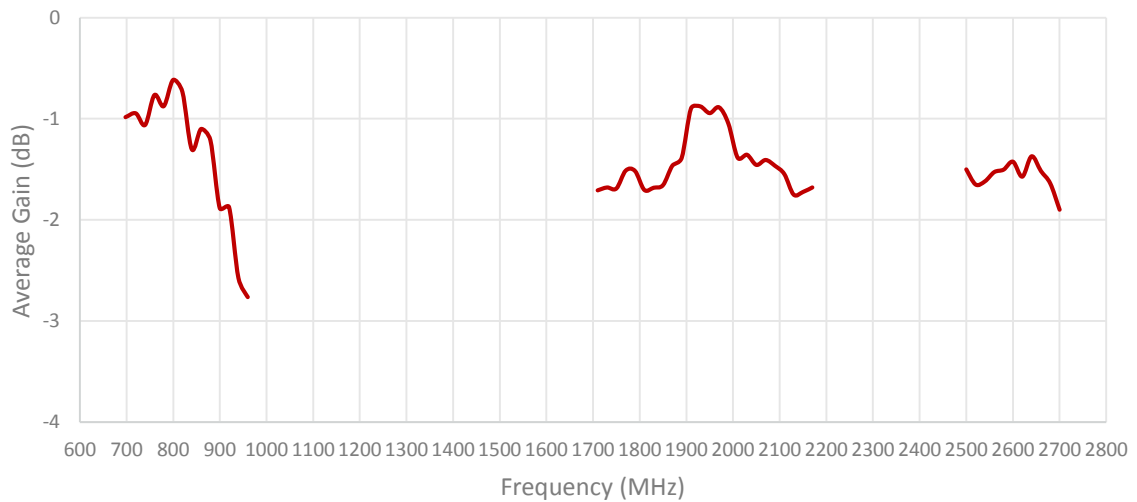
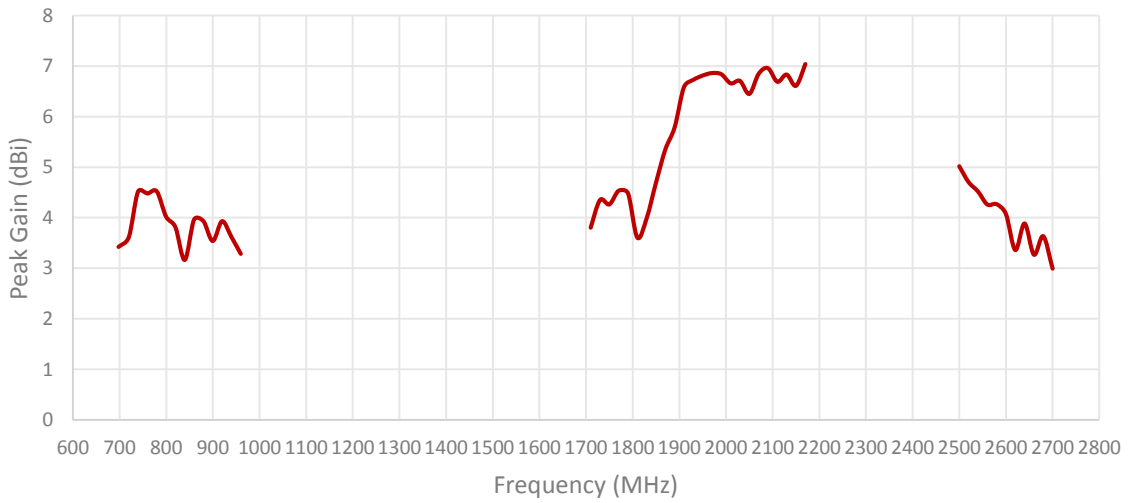
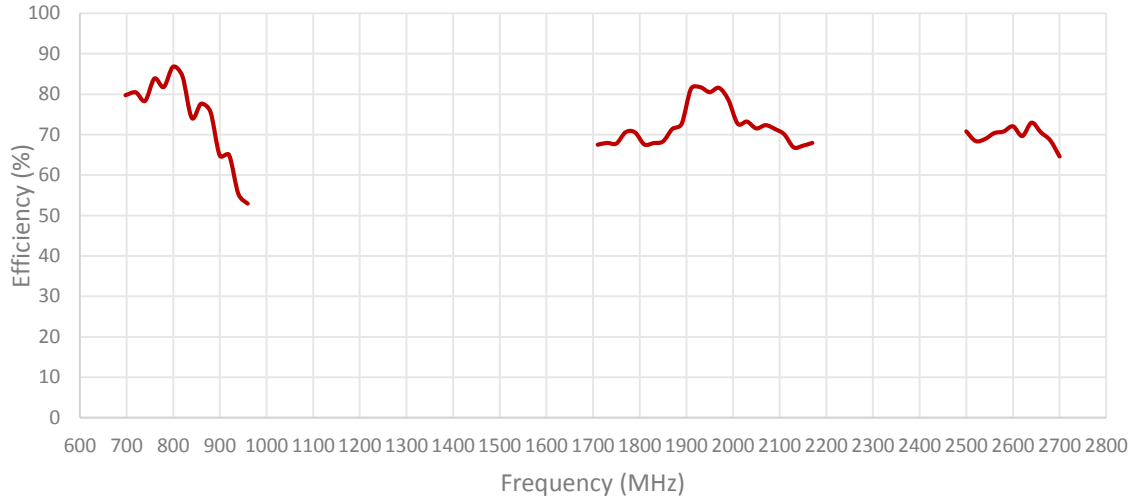
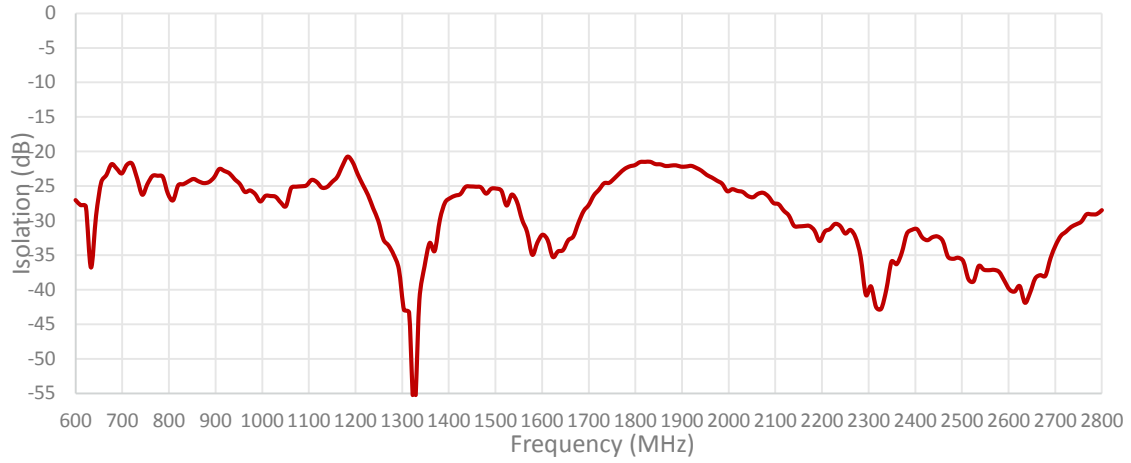


Table 2: CELLULAR/LTE

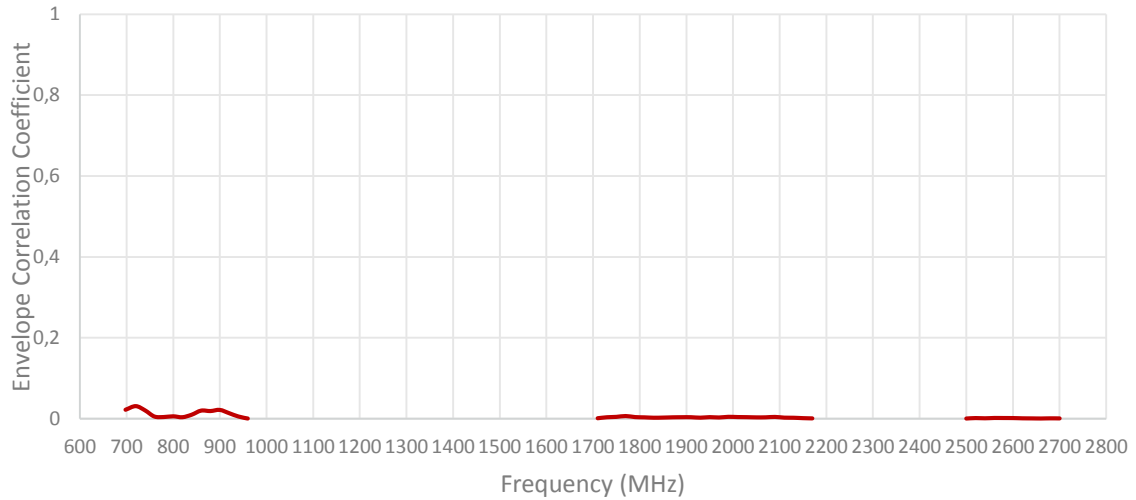




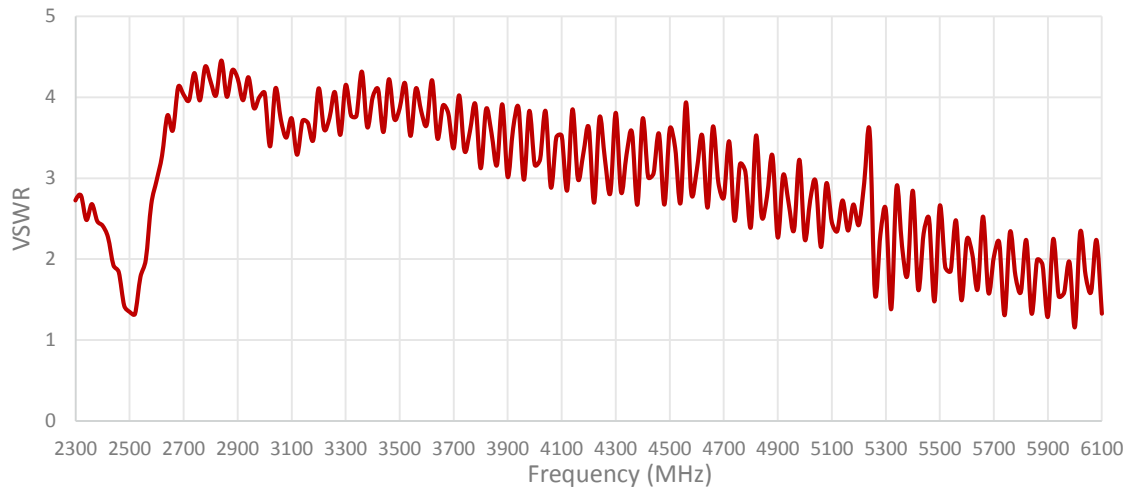
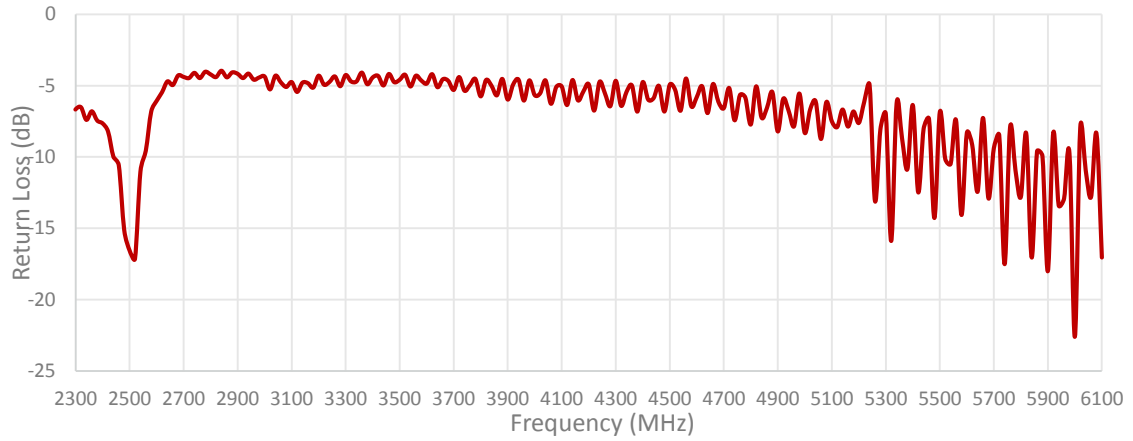
ISOLATION FOR CABLES 1 AND 2

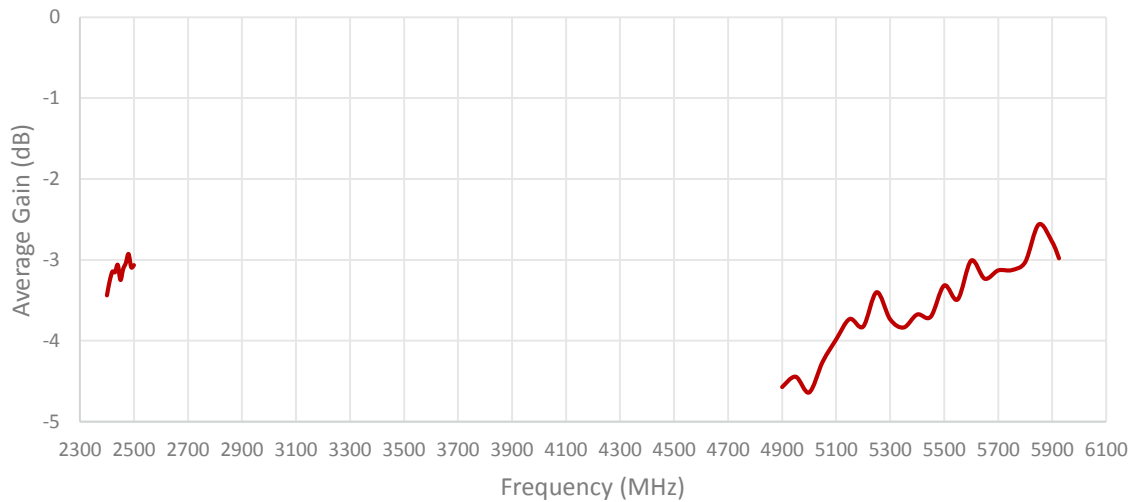
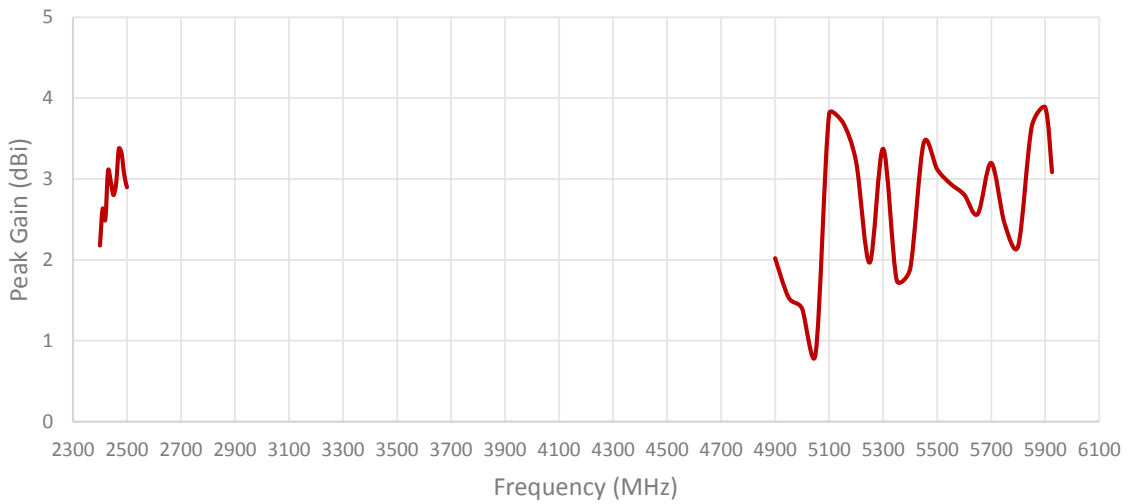
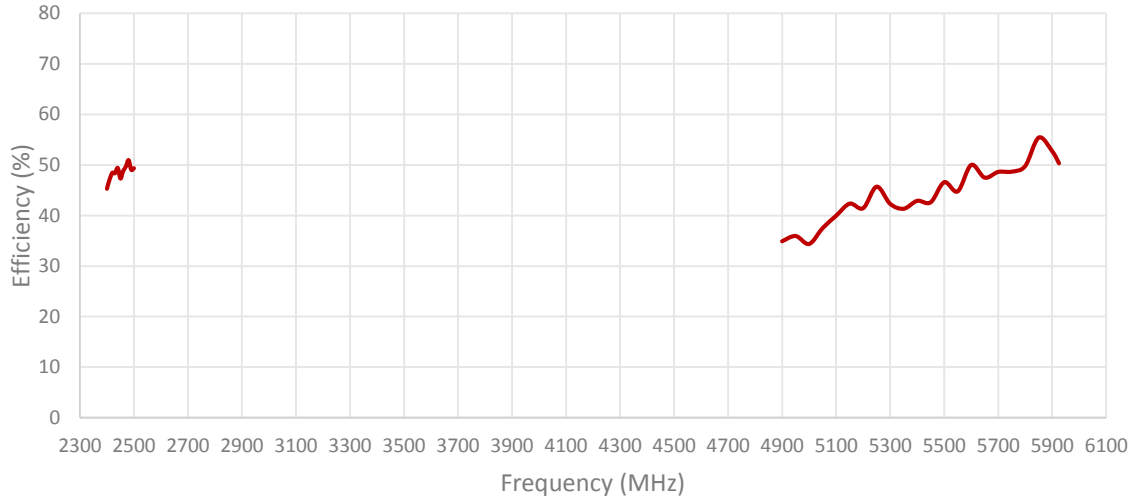


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2

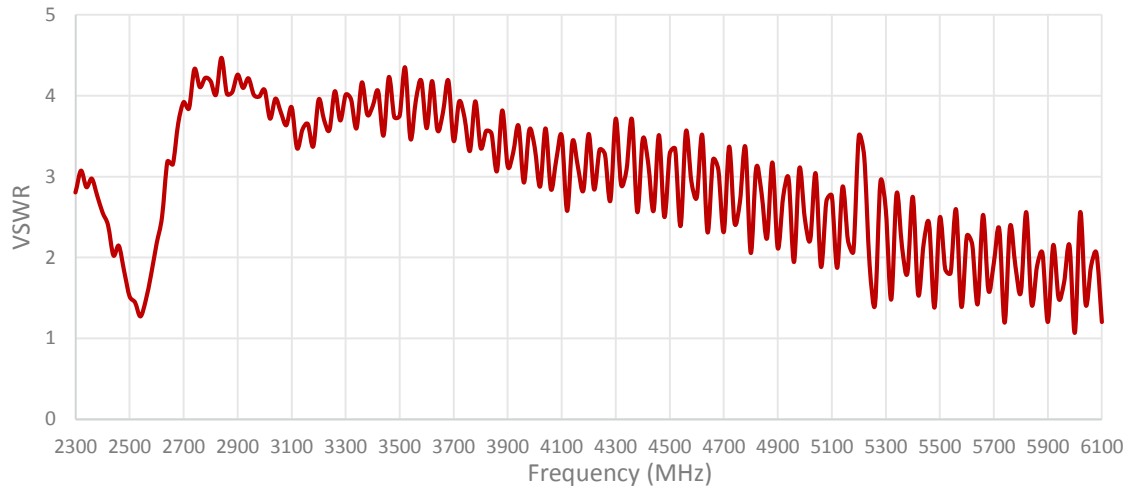
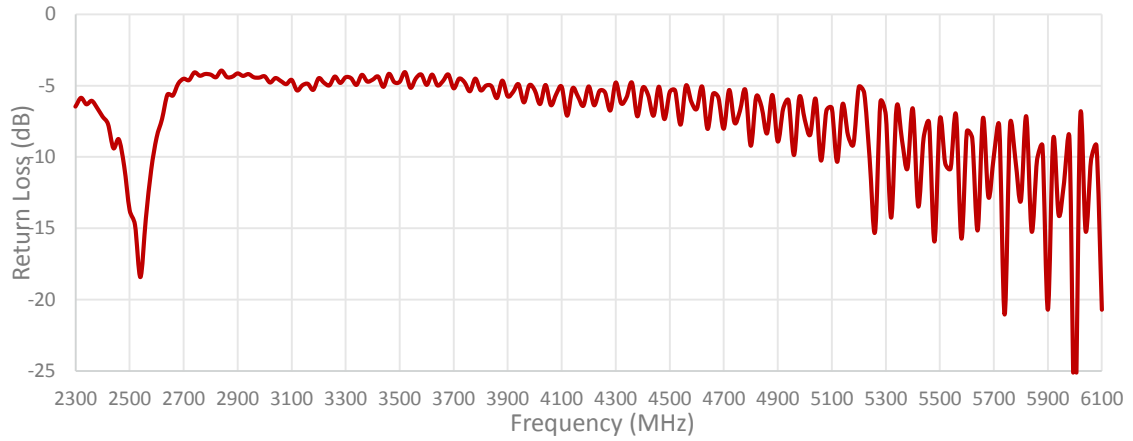


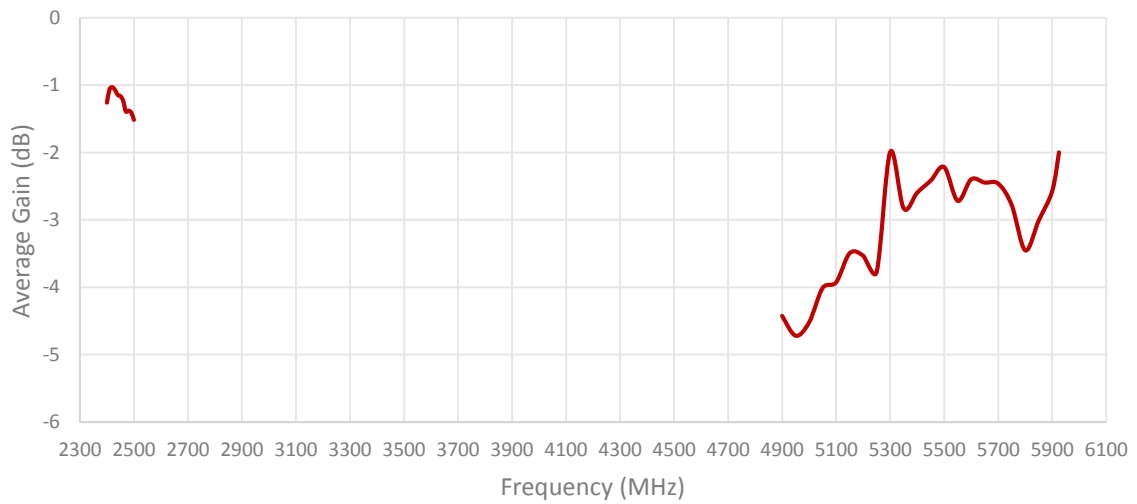
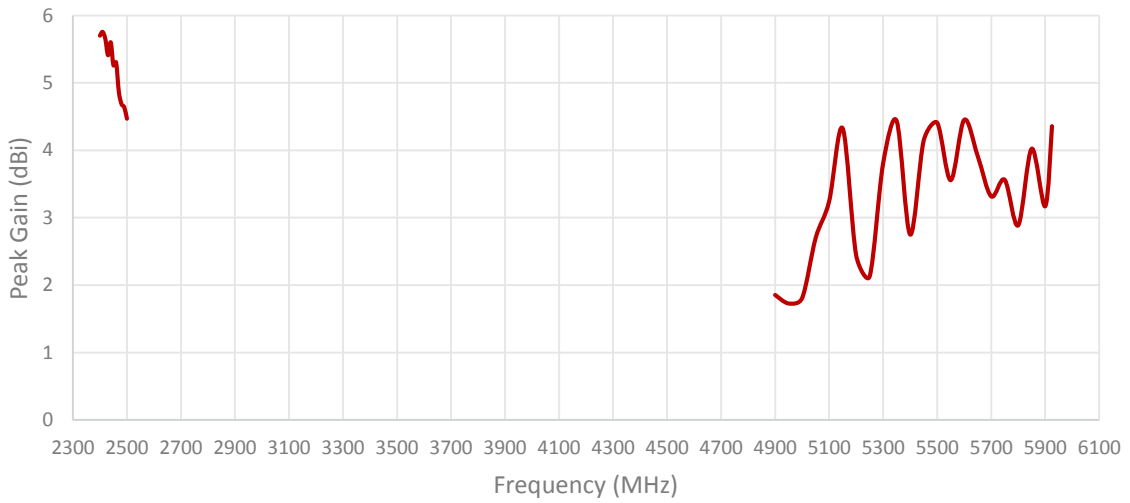
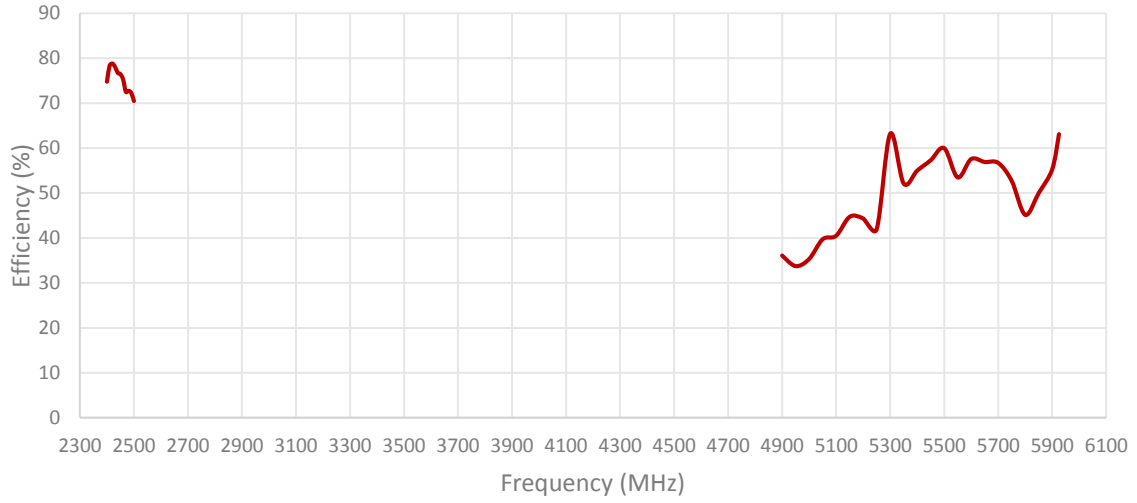
Cable 3: 2.4/5.0 GHz ISM



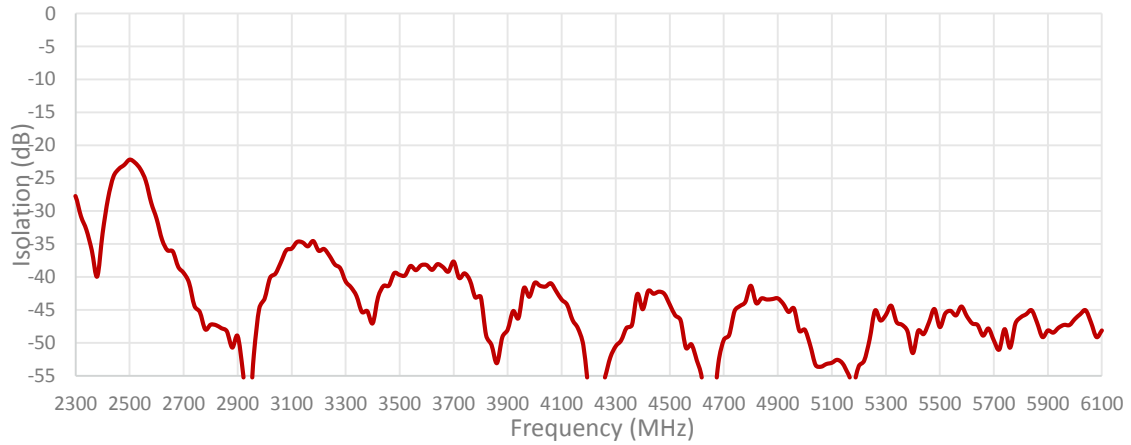


Cable 4: 2.4/5.0 GHz ISM

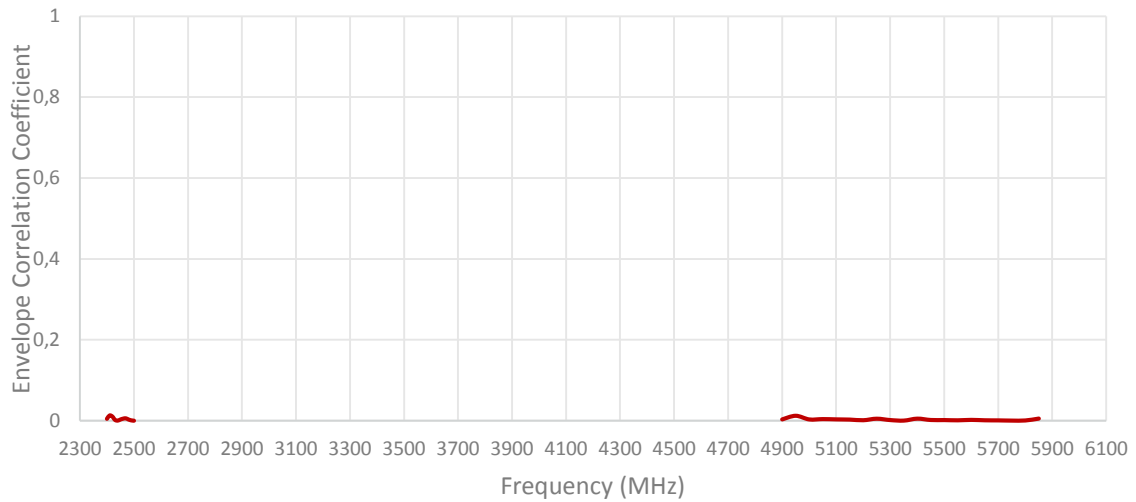


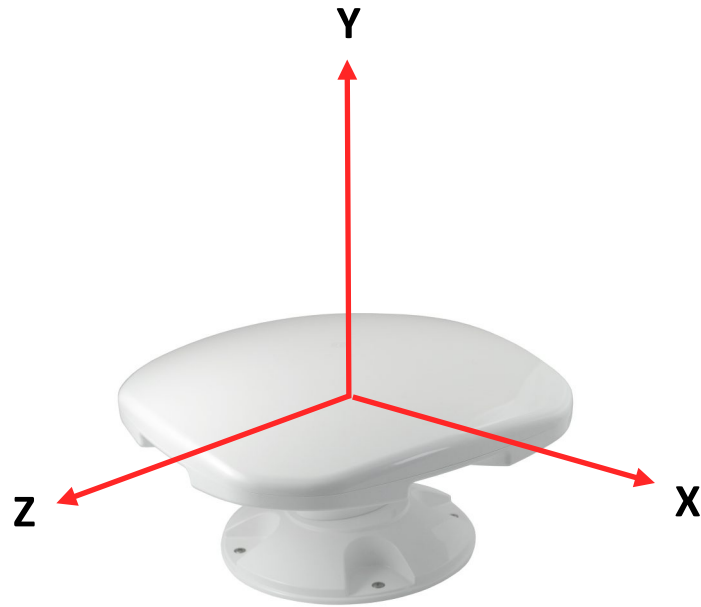


ISOLATION FOR CABLES 3 AND 4



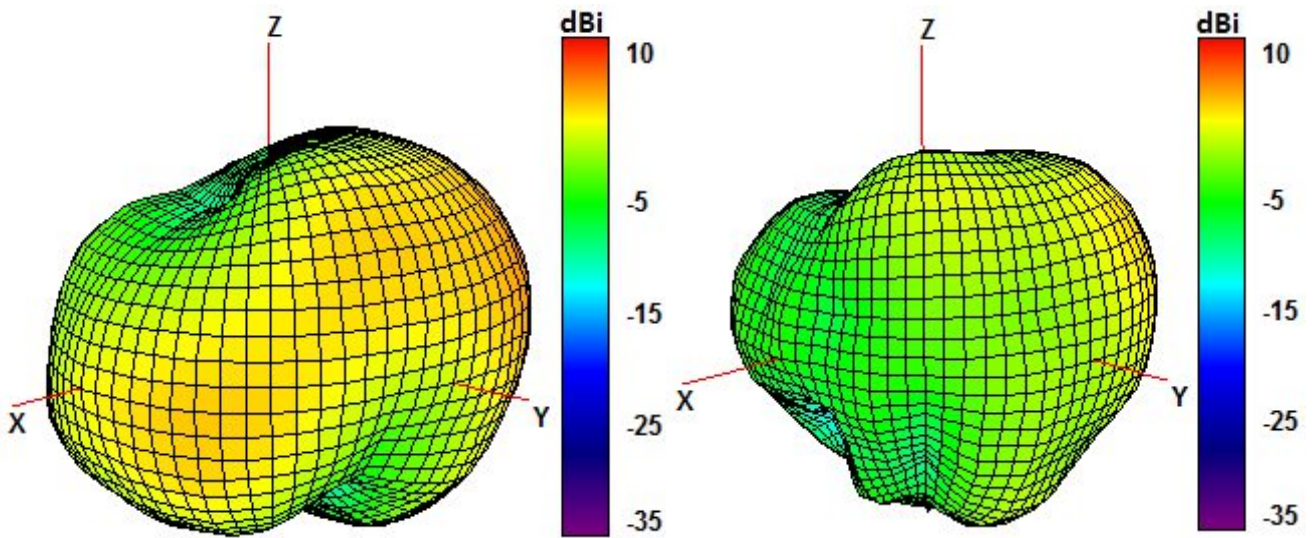
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 3 AND 4



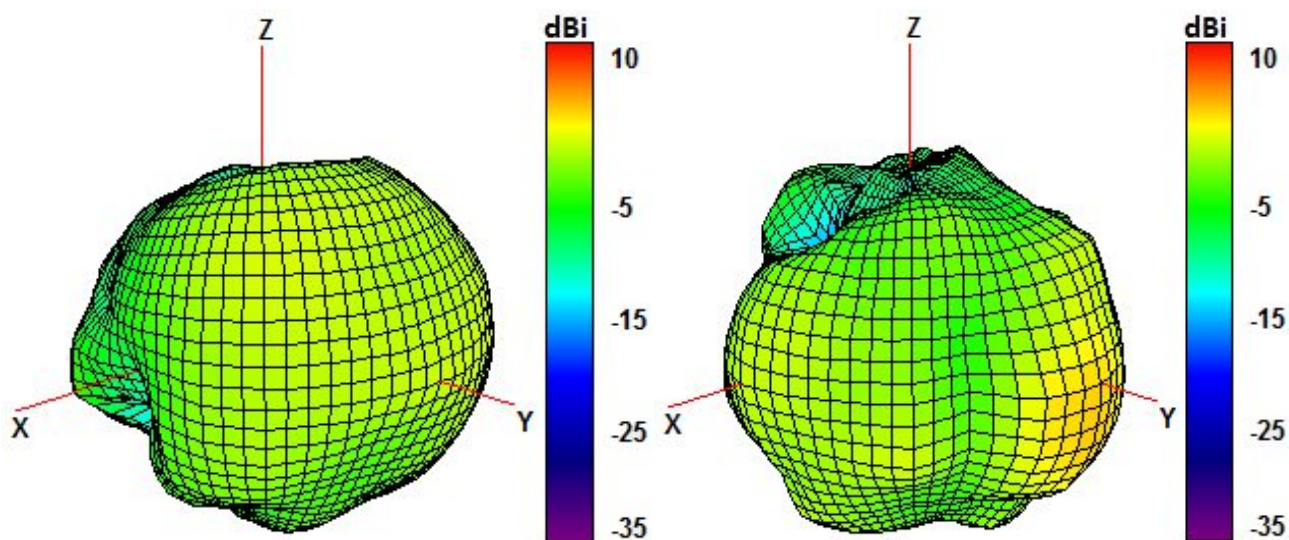


Radiation pattern reference

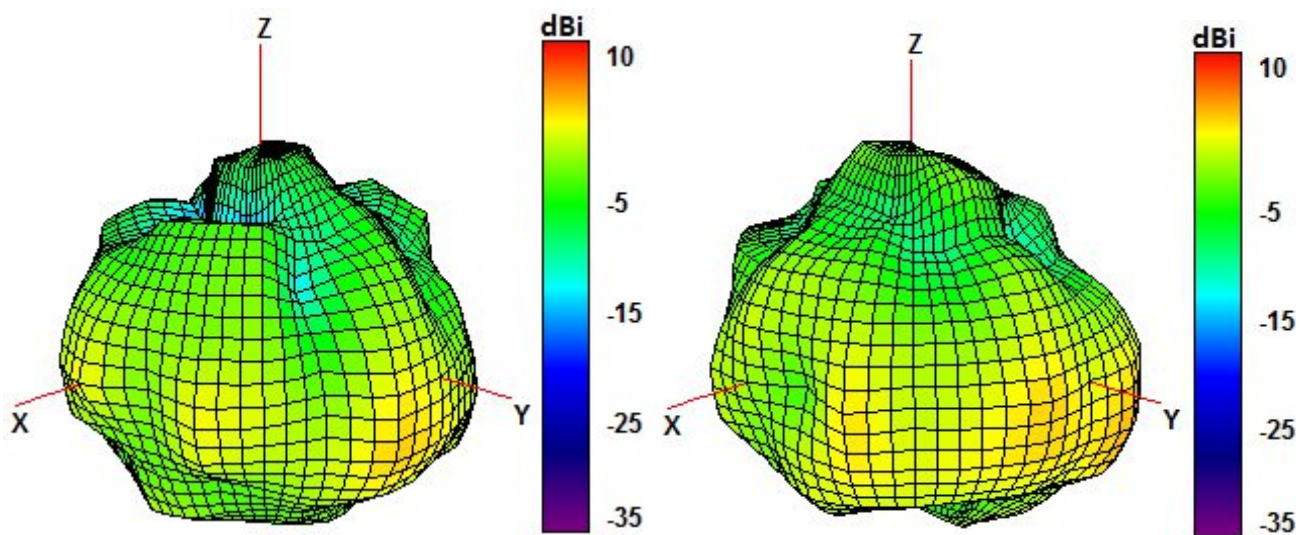
Cable 1: CELLULAR/LTE



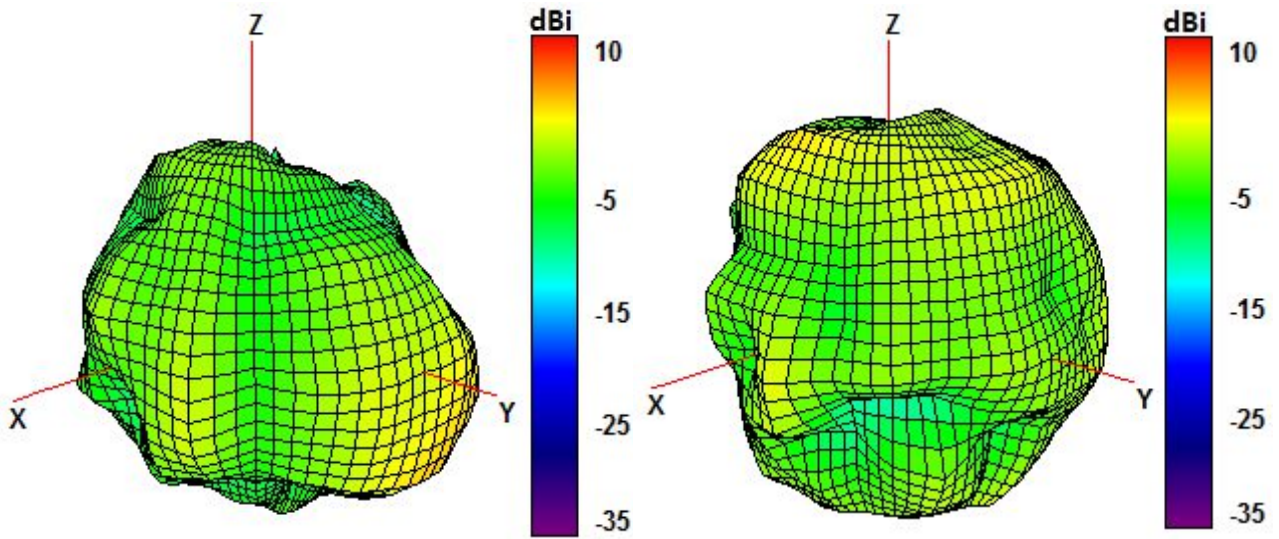
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

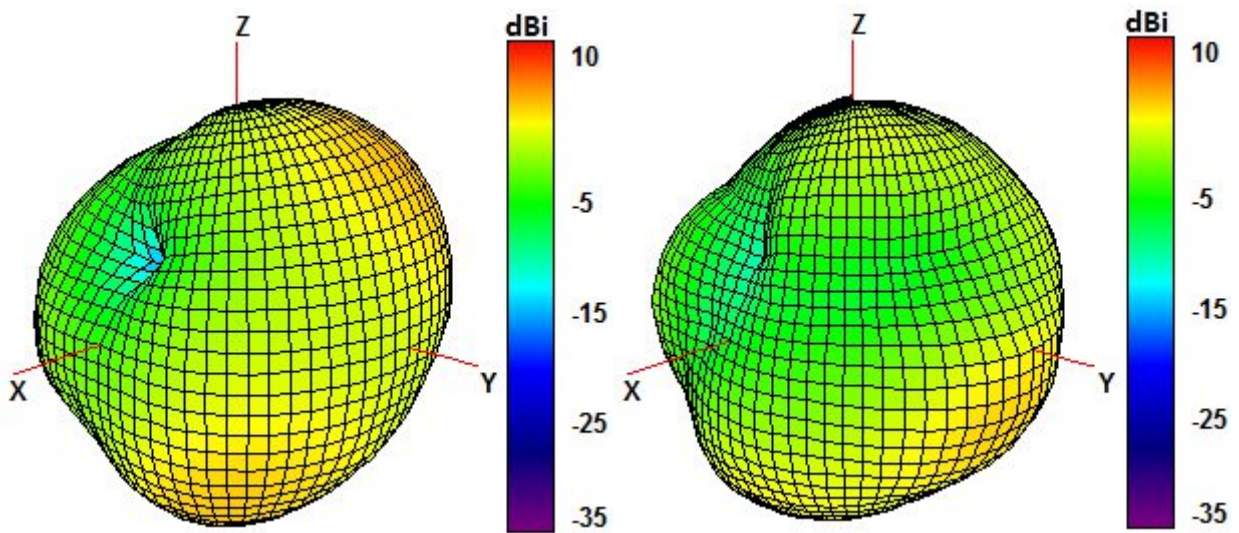


1850 and 1950 MHz Radiation pattern

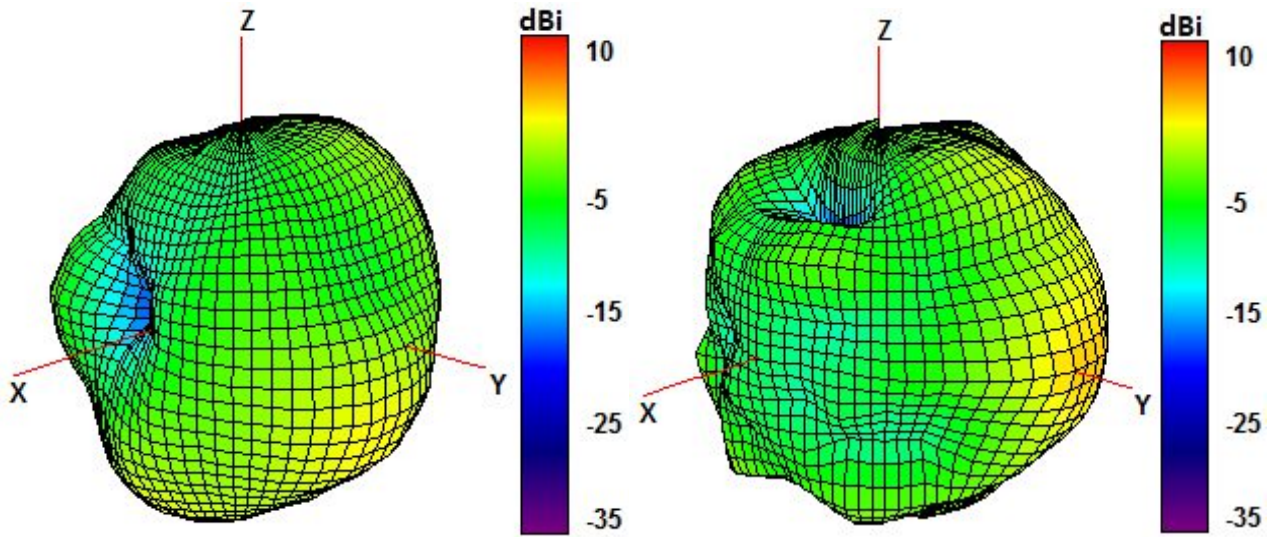


2100 and 2600 MHz Radiation pattern

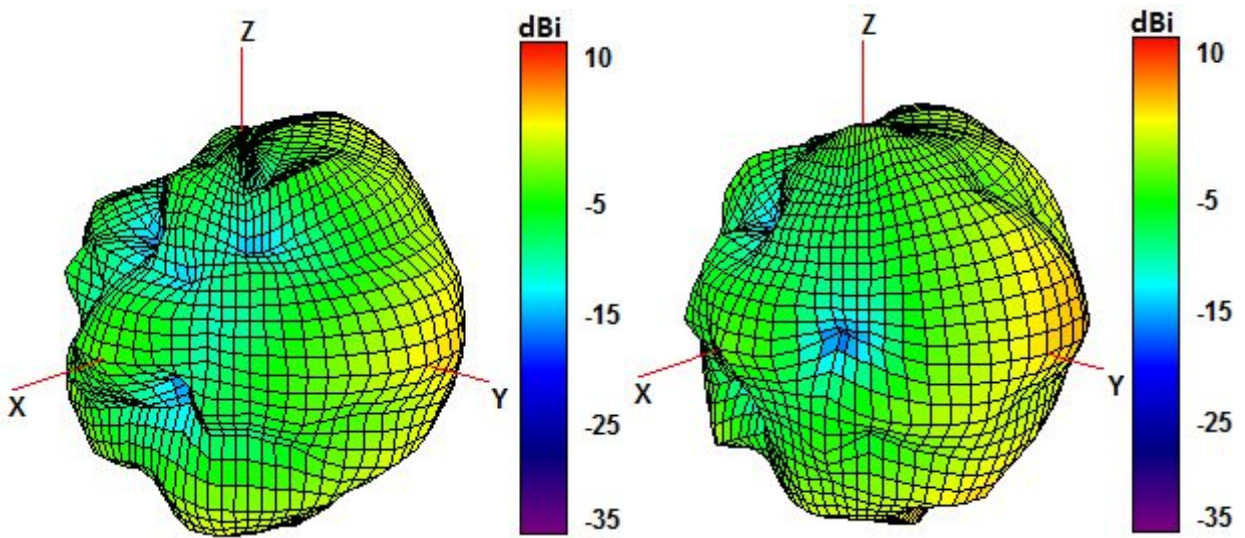
Cable 2: CELLULAR/LTE



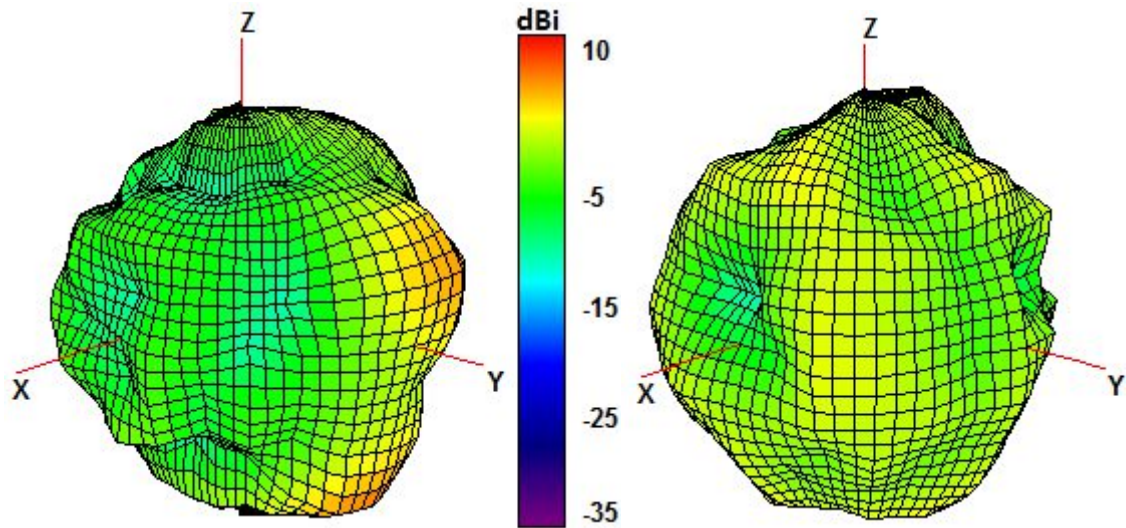
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

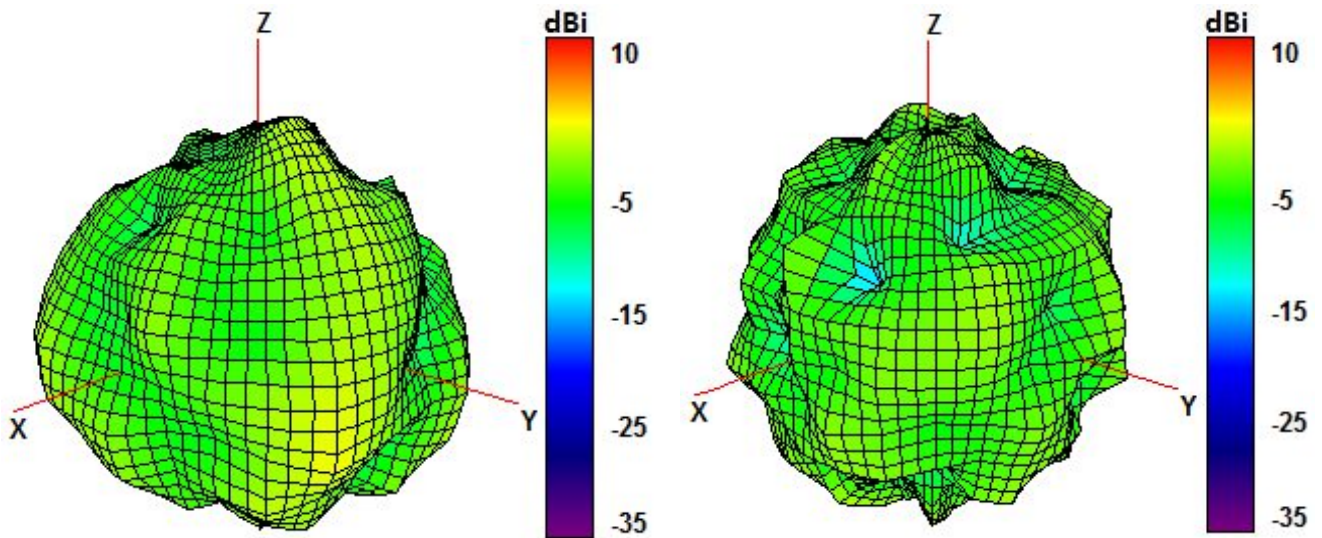


1850 and 1950 MHz Radiation pattern



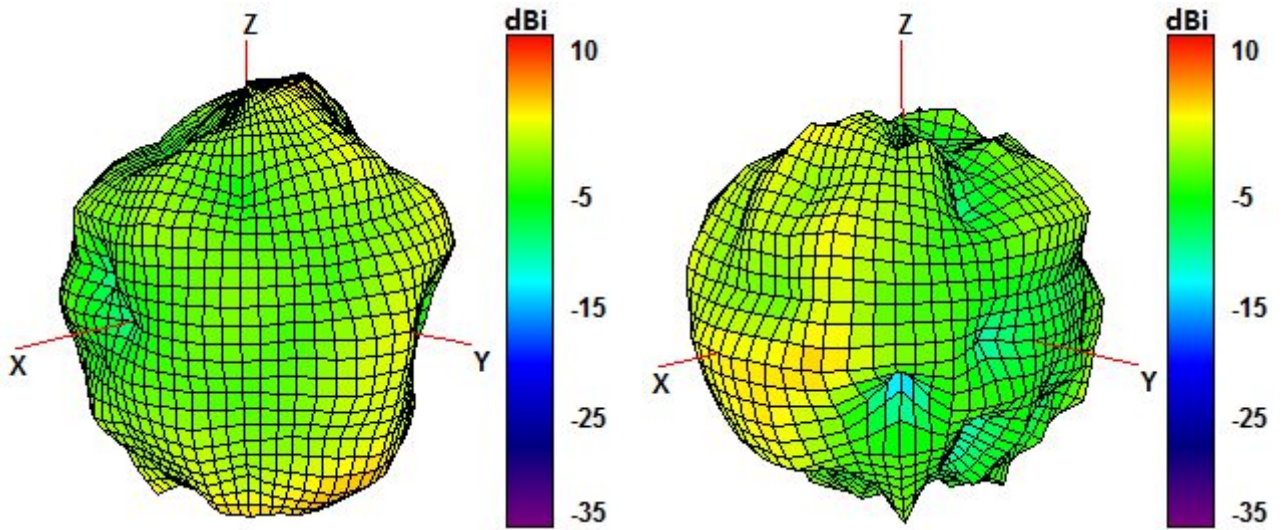
2100 and 2600 MHz Radiation pattern

Cable 3: 2.4/5.0 GHz ISM



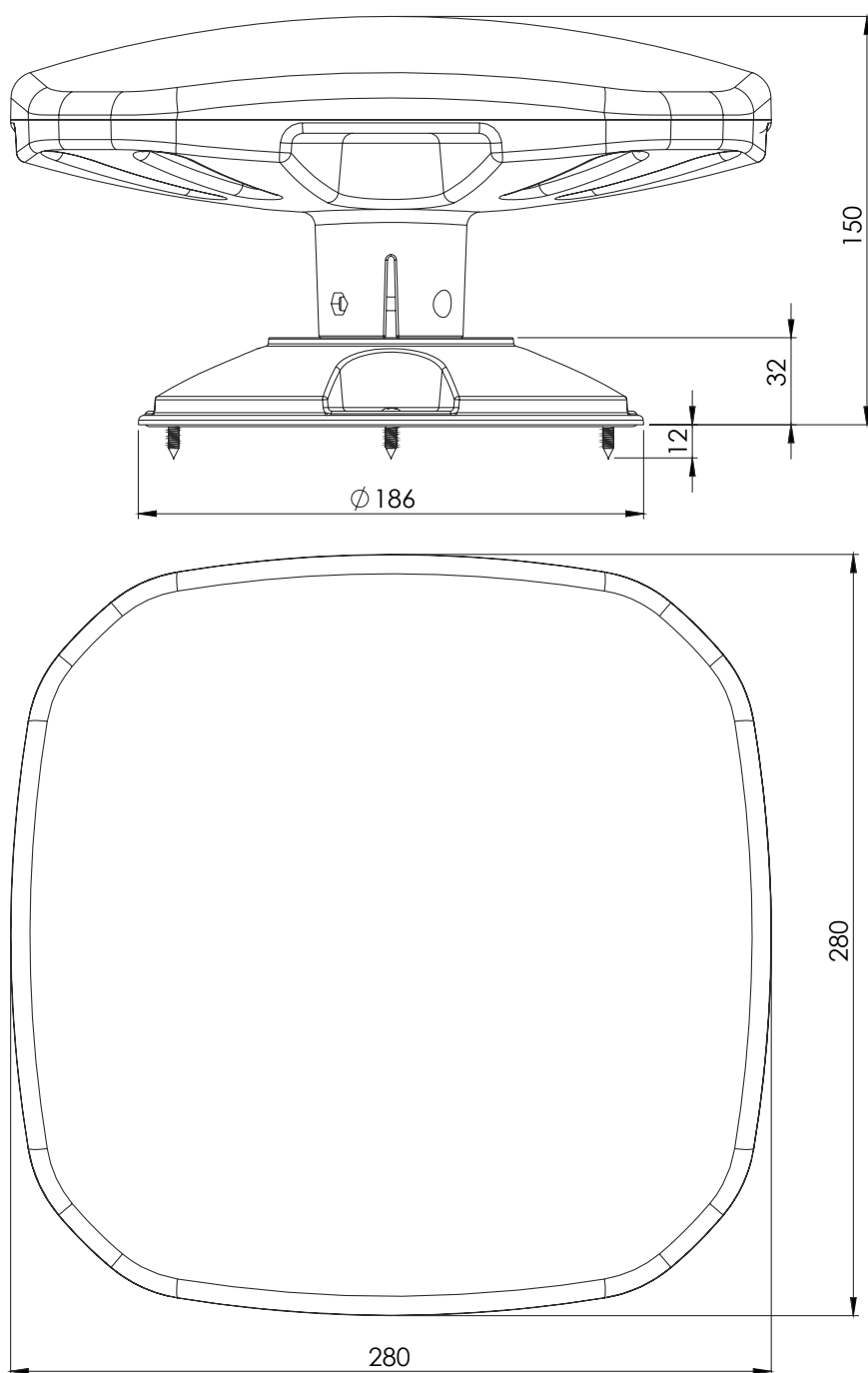
2450 and 5500 MHz Radiation pattern

Cable 4: 2.4/5.0 GHz ISM



2450 and 5500 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

