

2J7702Ma

2.4/5.0 GHz ISM MIMO Magnetic Mount

Key Features

Cable 1 - 2: 2.4/5.0 GHz ISM

- 2410-2490 MHz

- 4920-5925 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	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)	~-15.5	~-9.1
VSWR	~1.5:1	~2.3:1
Efficiency (%)	~51.5	~33.6
Peak Gain (dBi)	~3.2	~2.9
Average Gain (dB)	~-2.9	~-4.8
Impedance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	SMA-Male-RP (Other connectors available)	
Cable Length	100 cm (Customizable length available)	
Cable Type	LL100 (Other cable type available)	

Cable 2

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)	~-13.4	~-9.9
VSWR	~1.6:1	~2.2:1
Efficiency (%)	~49.3	~30.0
Peak Gain (dBi)	~3.9	~2.4
Average Gain (dB)	~-3.1	~-5.4
Impedance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	SMA-Male-RP (Other connectors available)	
Cable Length	100 cm (Customizable length available)	
Cable Type	LL100 (Other cable type available)	

Antenna Measurement Conditions:

Mounted on 30 x 30 cm Ground Plane

LL100 100 cm Cable Length

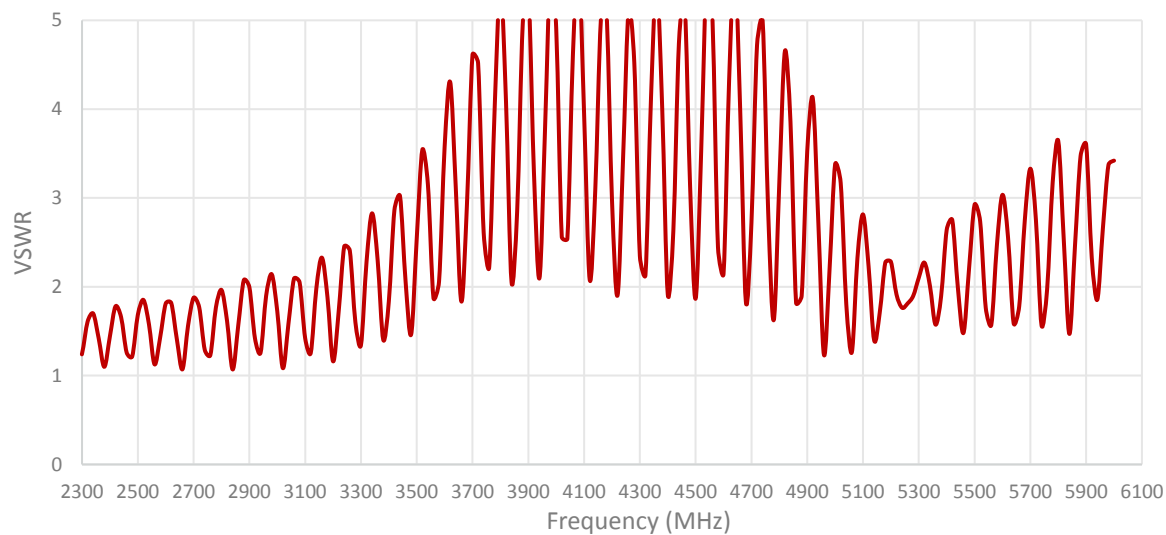
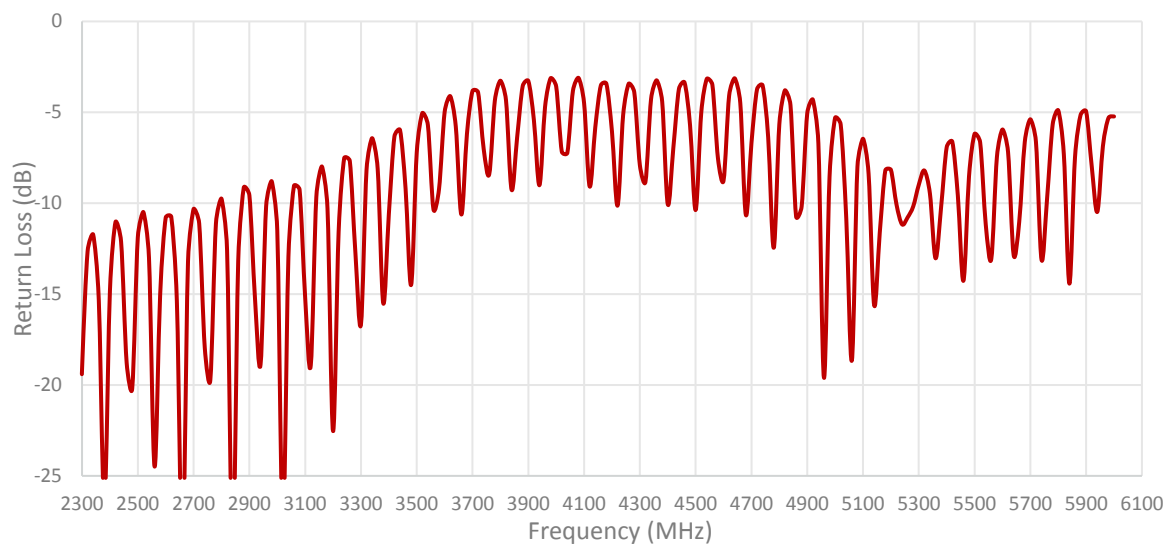
Measured in Certified CTIA 3D Anechoic Chamber

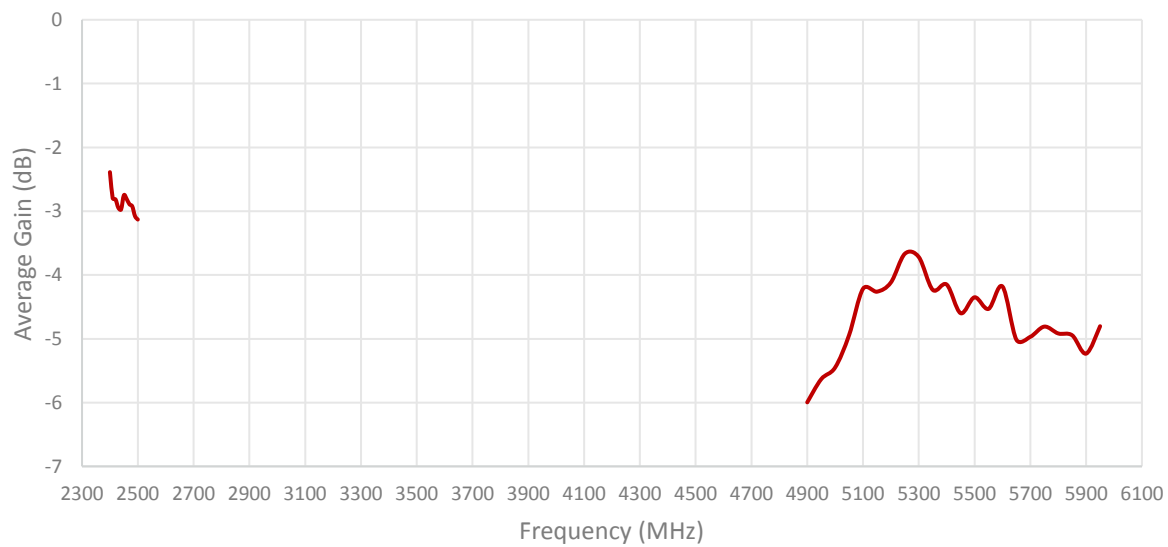
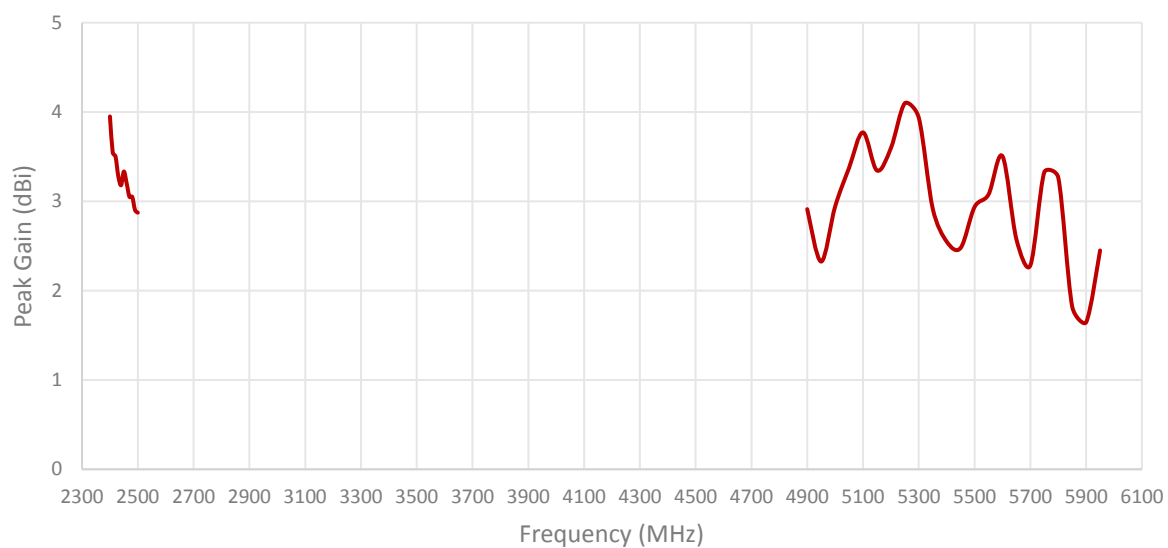
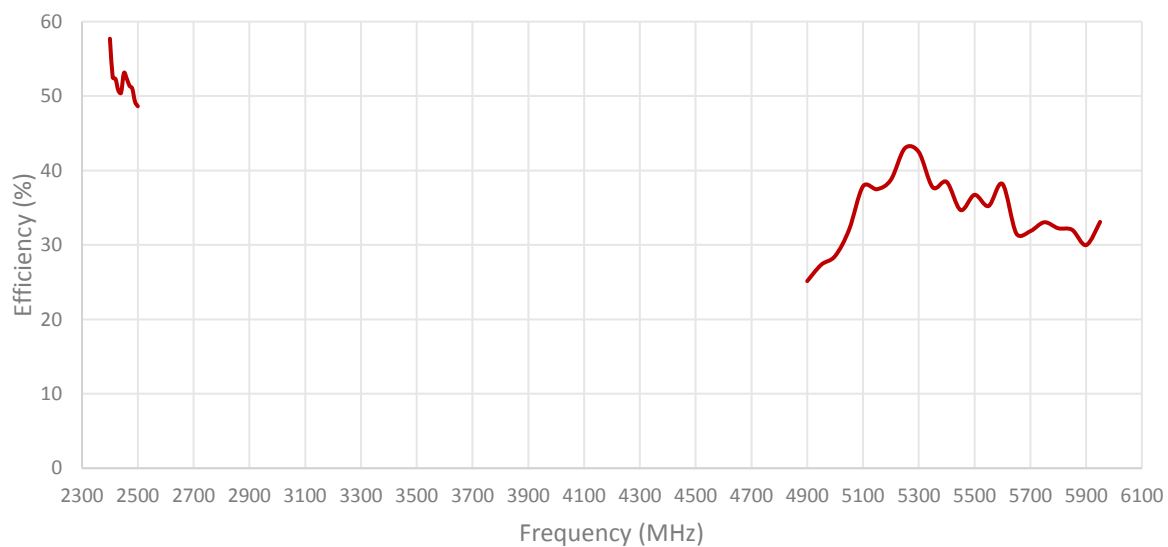
2. Mechanical and environmental specifications

Specifications	2J7702Ma
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

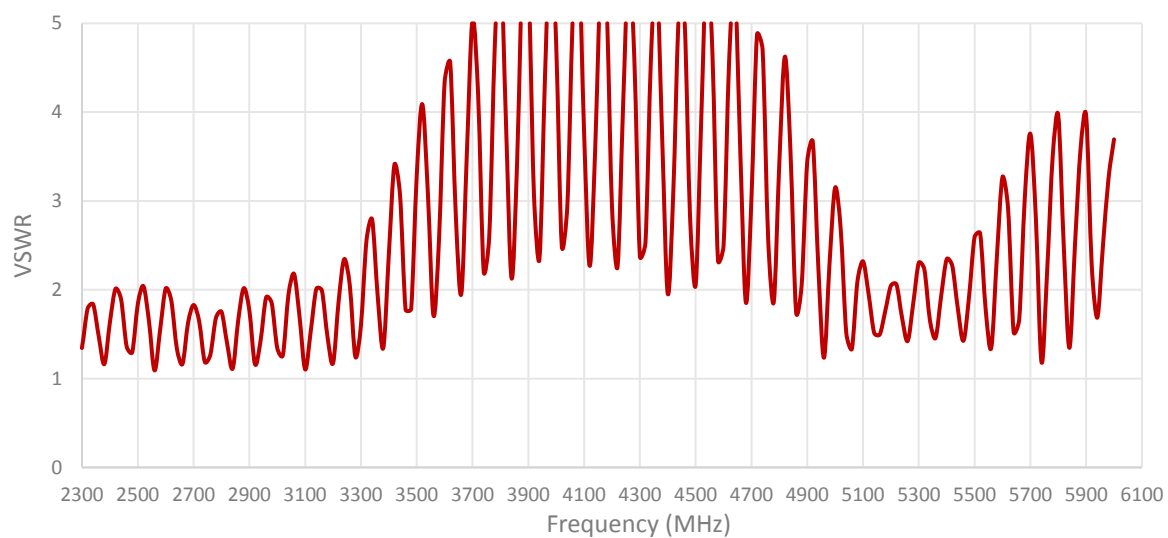
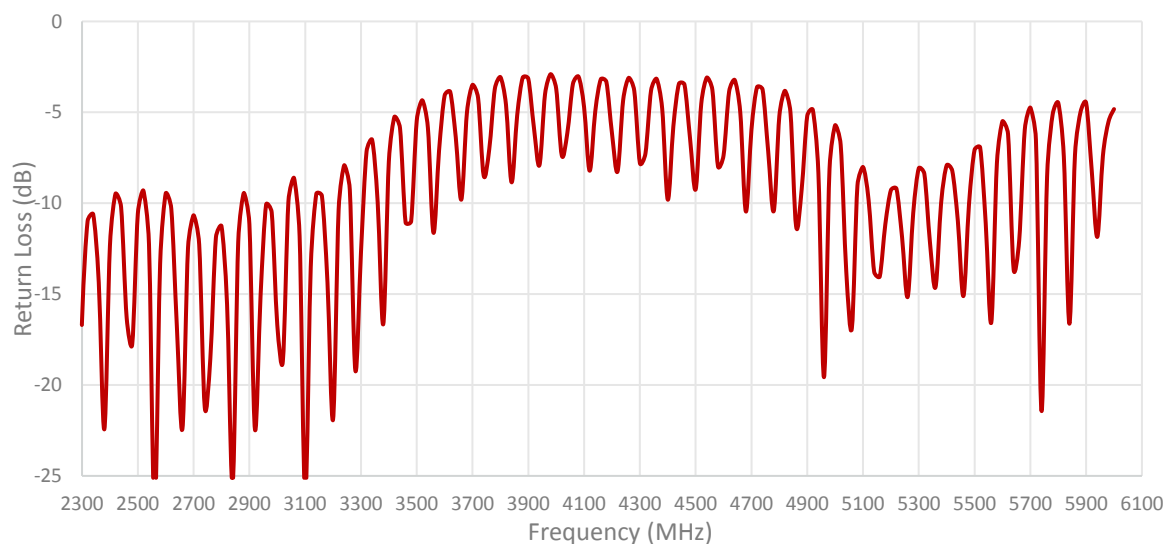
3. Antenna parameters

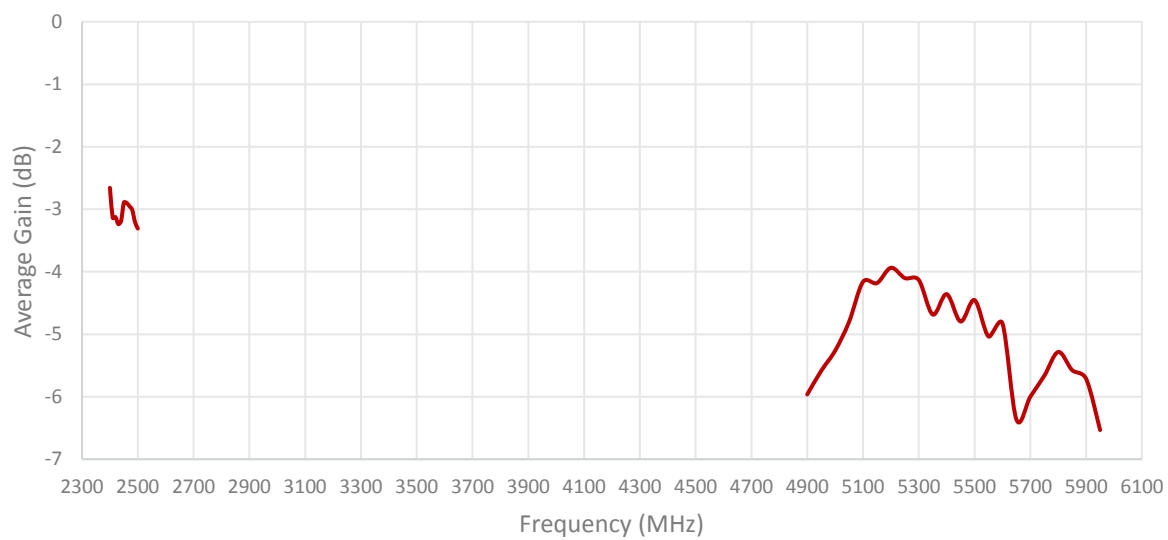
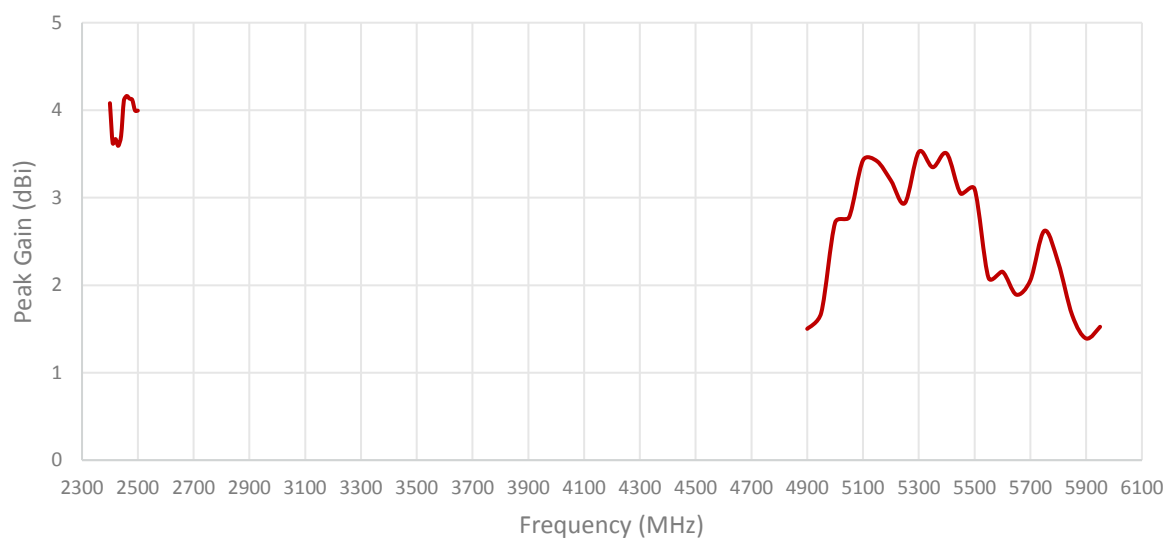
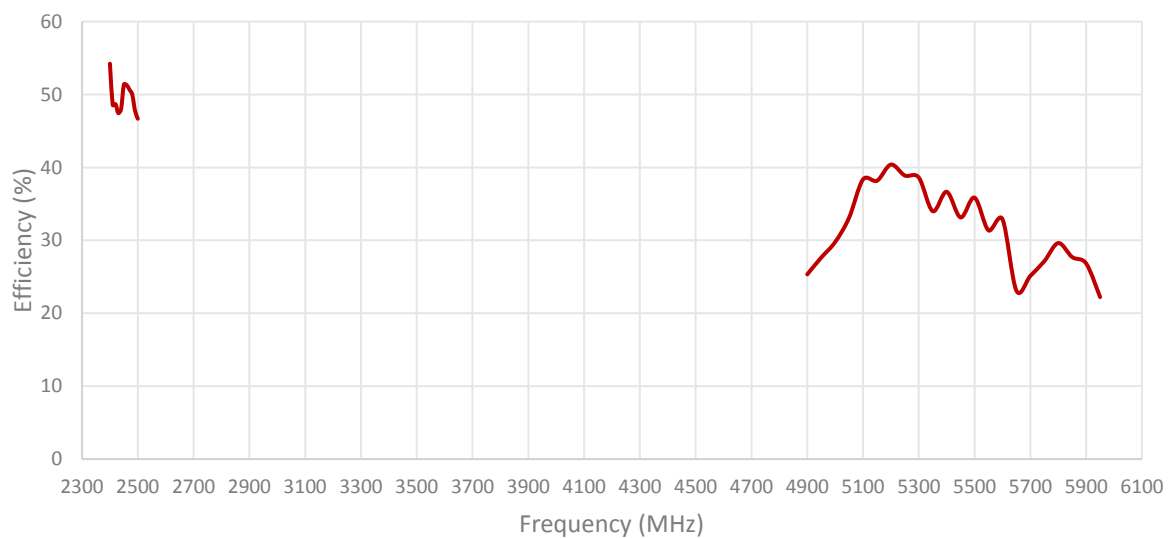
Cable 1: 2.4/5.0 GHz ISM



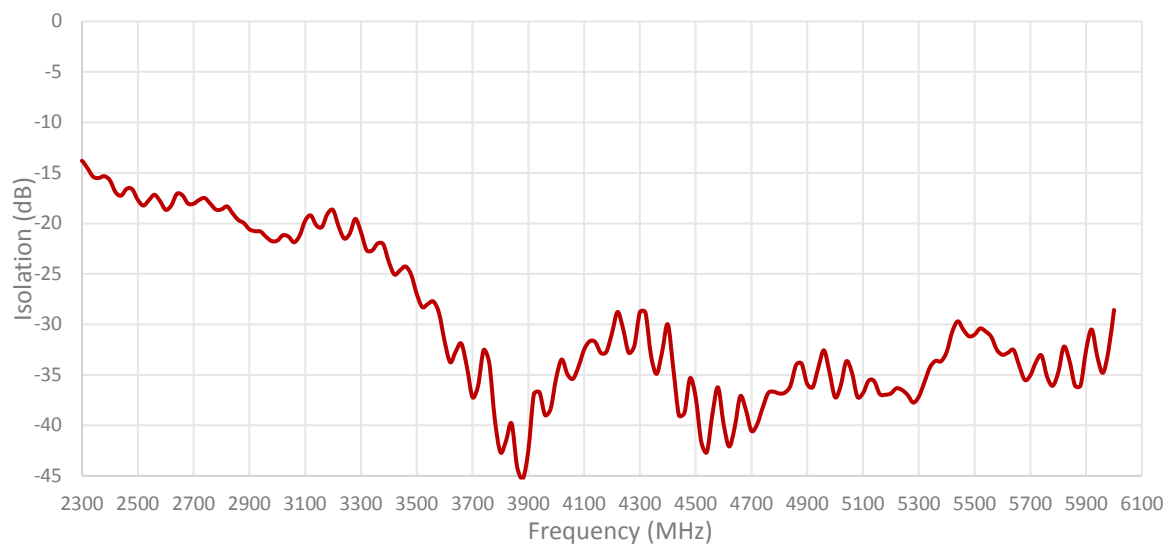


Cable 2: 2.4/5.0 GHz ISM

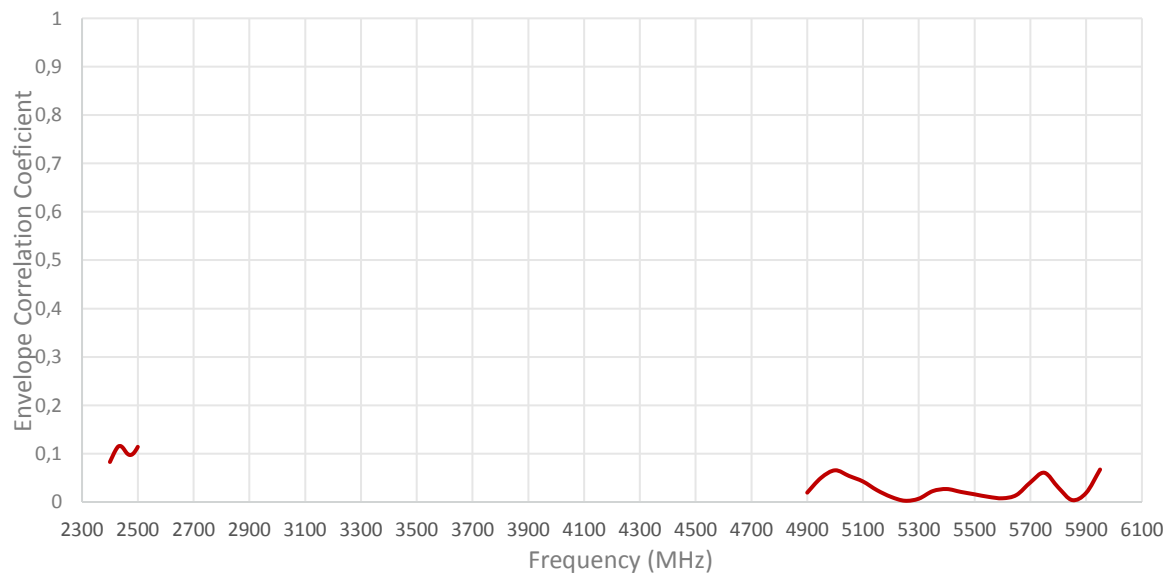


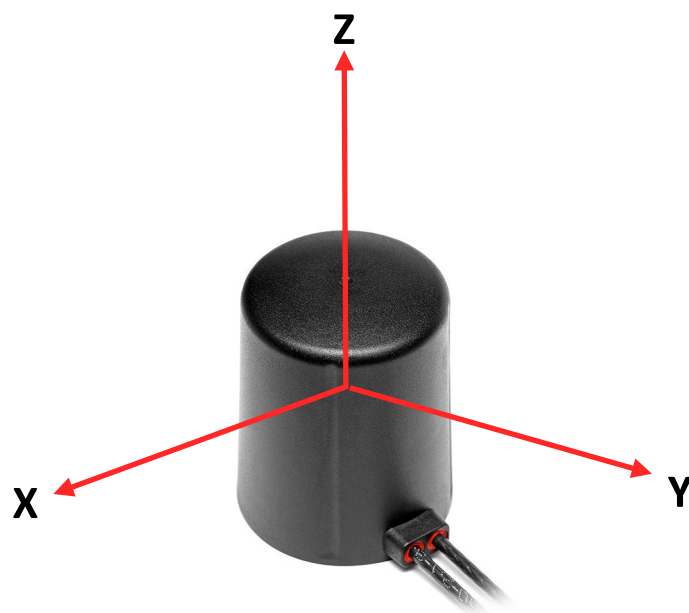


ISOLATION FOR CABLES 1 AND 2



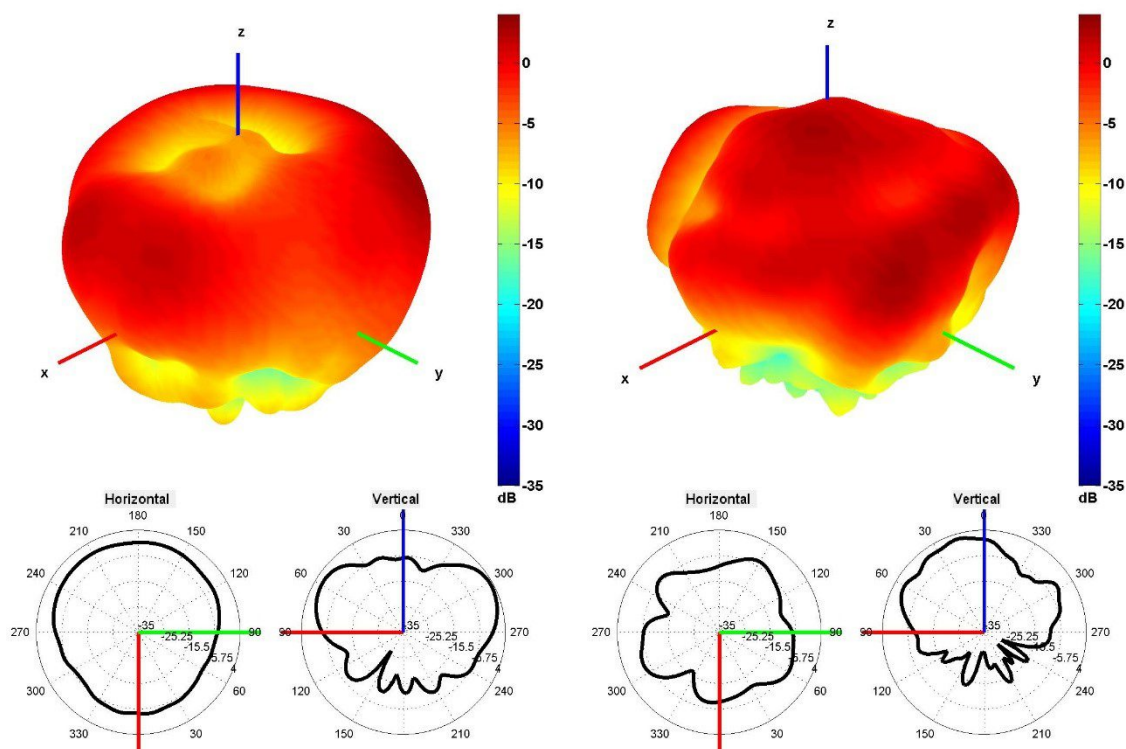
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2





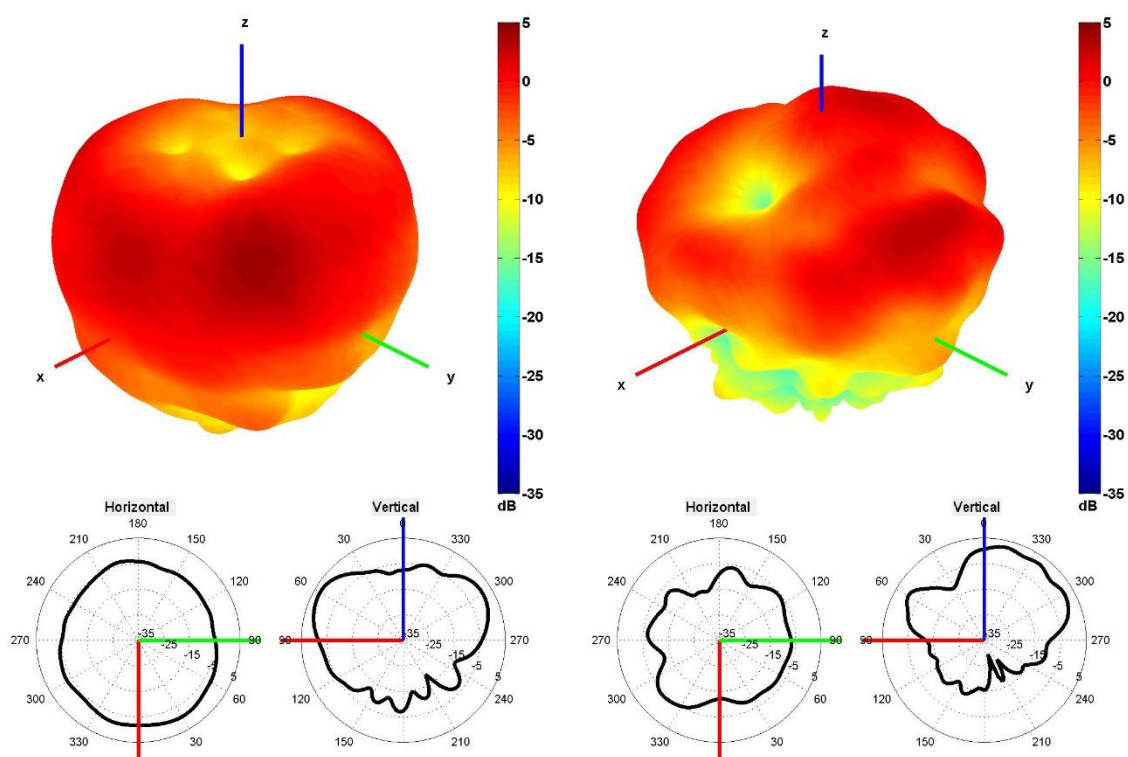
Radiation pattern reference

Cable 1: 2.4/5.0 GHz ISM



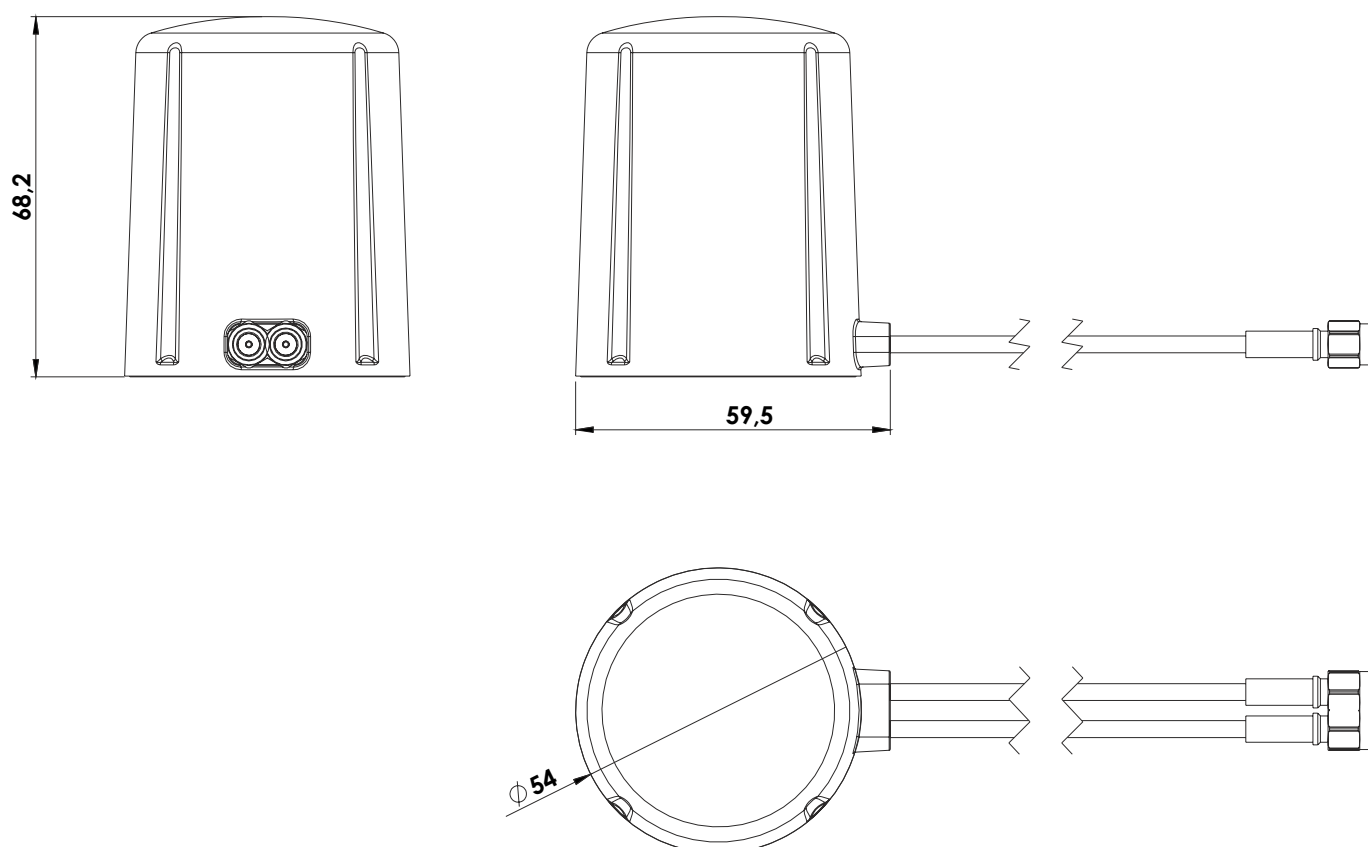
2450 and 5500 MHz Radiation pattern

Cable 2: 2.4/5.0 GHz ISM



2450 and 5500 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

