

## 2J4A02Pb

3 × 2.4/5.0/6.0 GHz ISM Adhesive Mount

### Key Features

#### Cable 1 - 3: 2.4/5.0/6.0 GHz ISM

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

Adhesive Mount

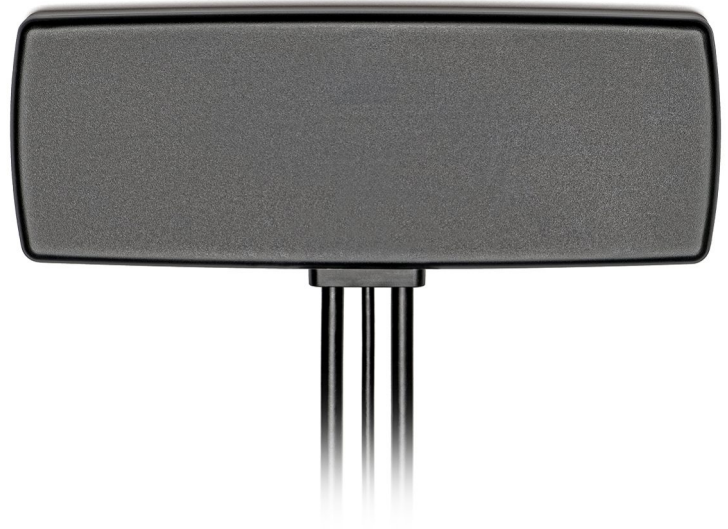
High Performance

Ground Plane Independent

Customizable Cable and Connector

Dimensions: 61.8 x 155.6 x 17.0 mm

Certificates: IP67, IP69



## 2. Antenna and electrical specifications

Cable 1

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
<b>Standards</b>	WiFi, BT, ZigBee, ISM		
<b>Band (MHz)</b>	2.4 GHz	5.0 GHz	6.0 GHz
<b>Frequency (MHz)</b>	2410-2490	4920-5925	5925-7125
<b>Return Loss (dB)</b>	~-10.9	~-14.7	~-10.2
<b>VSWR</b>	~1.8:1	~1.5:1	~2.0:1
<b>Efficiency (%)</b>	~52.1	~54.4	~50.0
<b>Peak Gain (dBi)</b>	~-2.4	~-3.9	~-4.1
<b>Average Gain (dB)</b>	~-2.8	~-2.7	~-3.1
<b>Impedance (Ohm)</b>	50		
<b>Polarisation</b>	Linear		
<b>Radiation Pattern</b>	Omni-Directional		
<b>Max. Input Power (W)</b>	25		
<b>Connector Type</b>	RP-SMA-Male Standard (Other Connectors Available)		
<b>Cable Length</b>	300 cm Standard (Any Cable Length Available)		
<b>Cable Type</b>	LL195 Standard (Other Cables Available)		

Cable 2

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
<b>Standards</b>	WiFi, BT, ZigBee, ISM		
<b>Band (MHz)</b>	2.4 GHz	5.0 GHz	6.0 GHz
<b>Frequency (MHz)</b>	2410-2490	4920-5925	5925-7125
<b>Return Loss (dB)</b>	~-10.8	~-12.4	~-9.4
<b>VSWR</b>	~1.9:1	~1.7:1	~2.1:1
<b>Efficiency (%)</b>	~48.6	~40.7	~33.8
<b>Peak Gain (dBi)</b>	~-1.7	~-3.5	~-5.1
<b>Average Gain (dB)</b>	~-3.2	~-4.1	~-4.9
<b>Impedance (Ohm)</b>	50		
<b>Polarisation</b>	Linear		
<b>Radiation Pattern</b>	Omni-Directional		
<b>Max. Input Power (W)</b>	25		
<b>Connector Type</b>	RP-SMA-Male Standard (Other Connectors Available)		
<b>Cable Length</b>	300 cm Standard (Any Cable Length Available)		
<b>Cable Type</b>	LL100 Standard (Other Cables Available)		

Cable 3

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
<b>Standards</b>	WiFi, BT, ZigBee, ISM		
<b>Band (MHz)</b>	2.4 GHz	5.0 GHz	6.0 GHz
<b>Frequency (MHz)</b>	2410-2490	4920-5925	5925-7125
<b>Return Loss (dB)</b>	~-11.1	~-15.7	~-7.4
<b>VSWR</b>	~1.8:1	~1.5:1	~2.6:1
<b>Efficiency (%)</b>	~65.8	~60.6	~41.3
<b>Peak Gain (dBi)</b>	~2.4	~4.6	~4.7
<b>Average Gain (dB)</b>	~-1.9	~-2.3	~-3.9
<b>Impedance (Ohm)</b>	50		
<b>Polarisation</b>	Linear		
<b>Radiation Pattern</b>	Omni-Directional		
<b>Max. Input Power (W)</b>	25		
<b>Connector Type</b>	RP-SMA-Male Standard (Other Connectors Available)		
<b>Cable Length</b>	300 cm Standard (Any Cable Length Available)		
<b>Cable Type</b>	LL195 Standard (Other Cables Available)		

**Antenna Measurement Conditions:**

Mounted on Plastic Plate of 30 x 30 cm

100 cm of Cable LL195, LL100

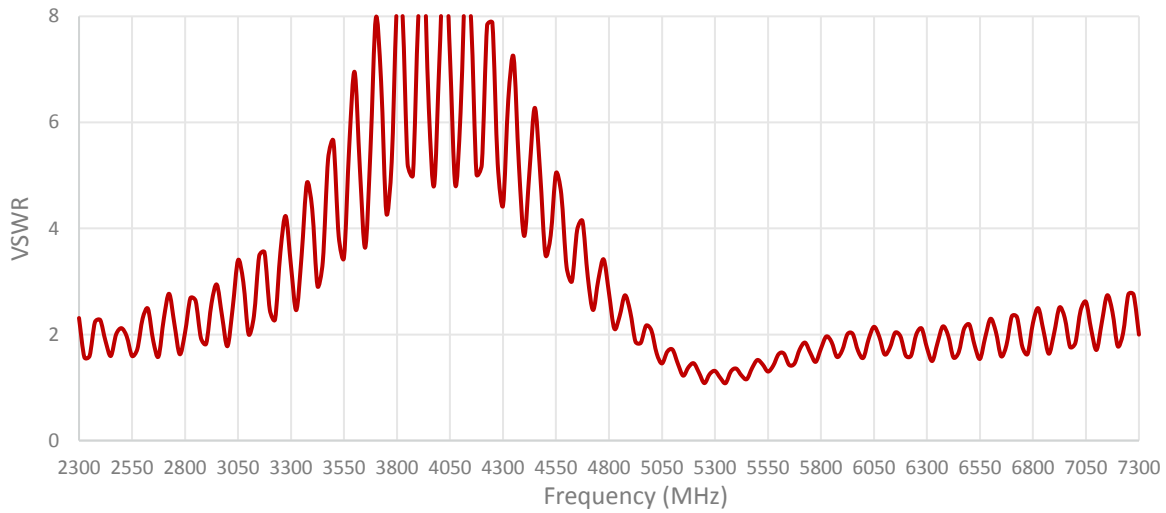
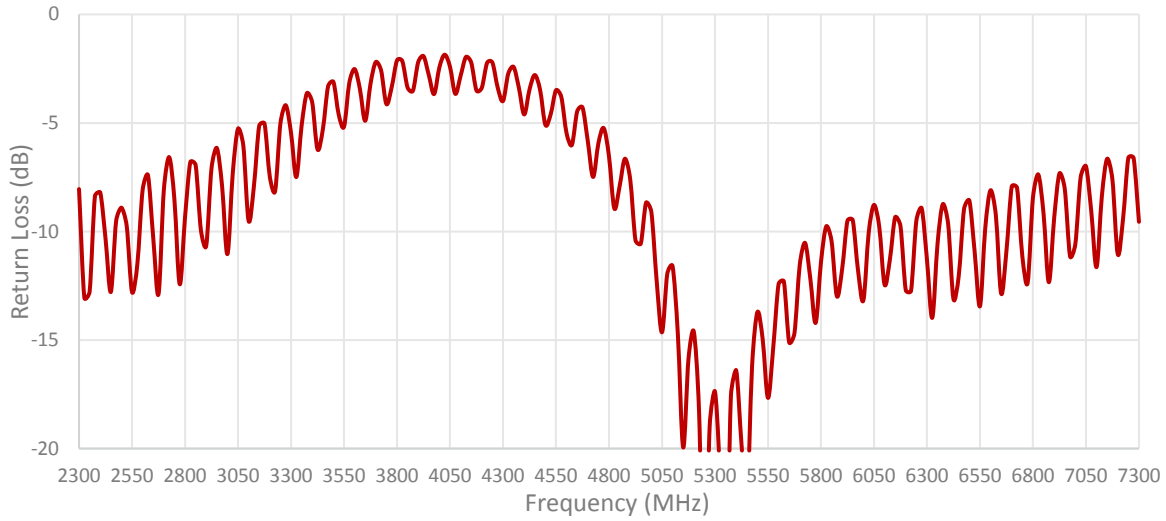
Measured in Certified CTIA 3D Anechoic Chamber

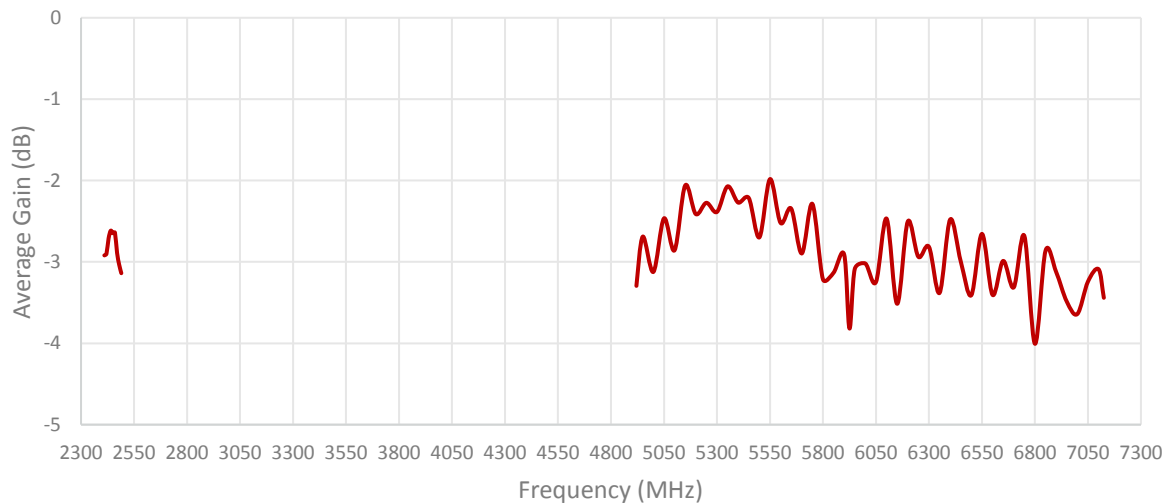
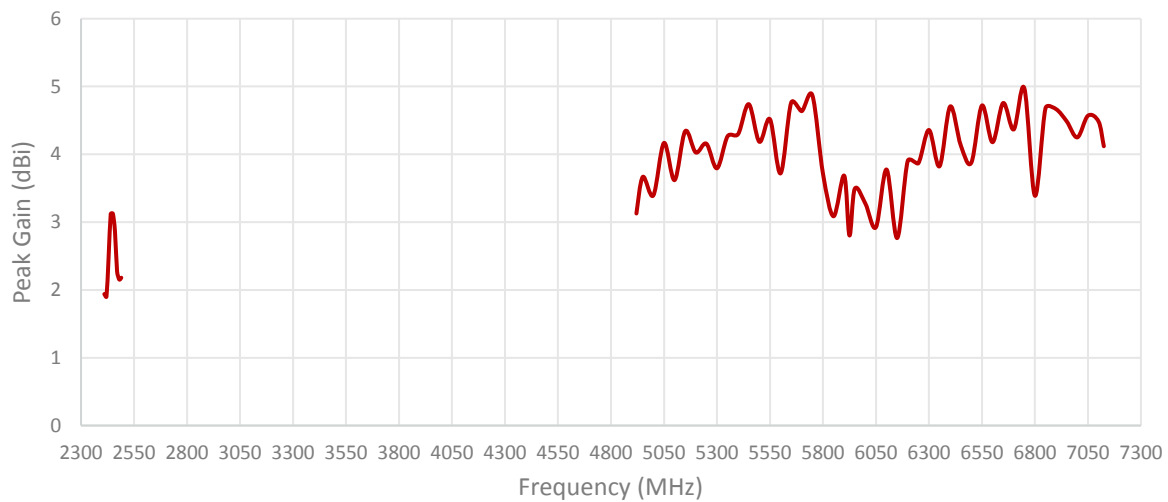
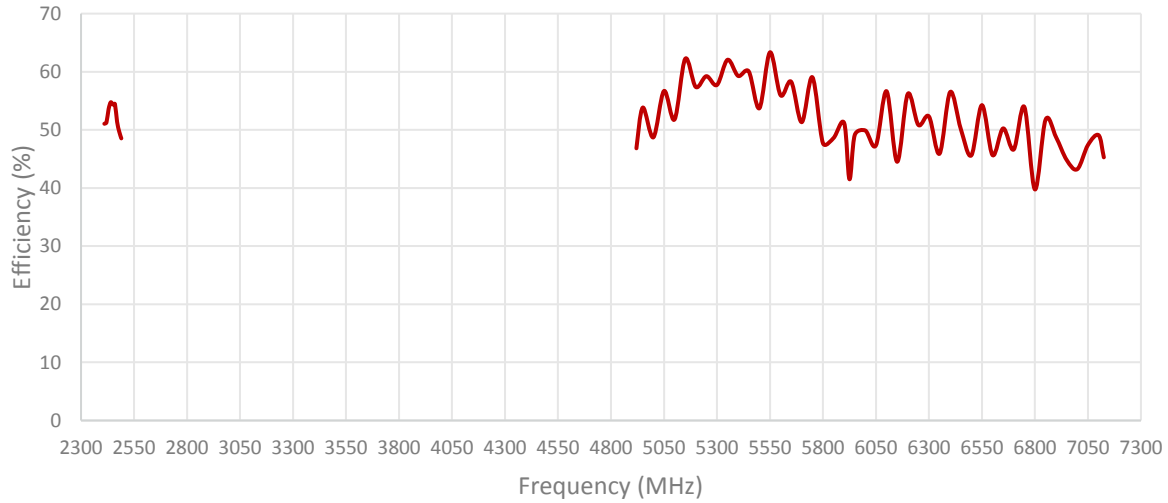
### 3. Mechanical and environmental specifications

Specifications	2J4A02Pb
<b>Mounting Type</b>	Adhesive Mount
<b>Dimensions (mm)</b>	61.8 x 155.6 x 17.0
<b>Radome Type</b>	ASA UV Stable
<b>Radome color</b>	Black
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS
<b>Certificates</b>	IP67, IP69

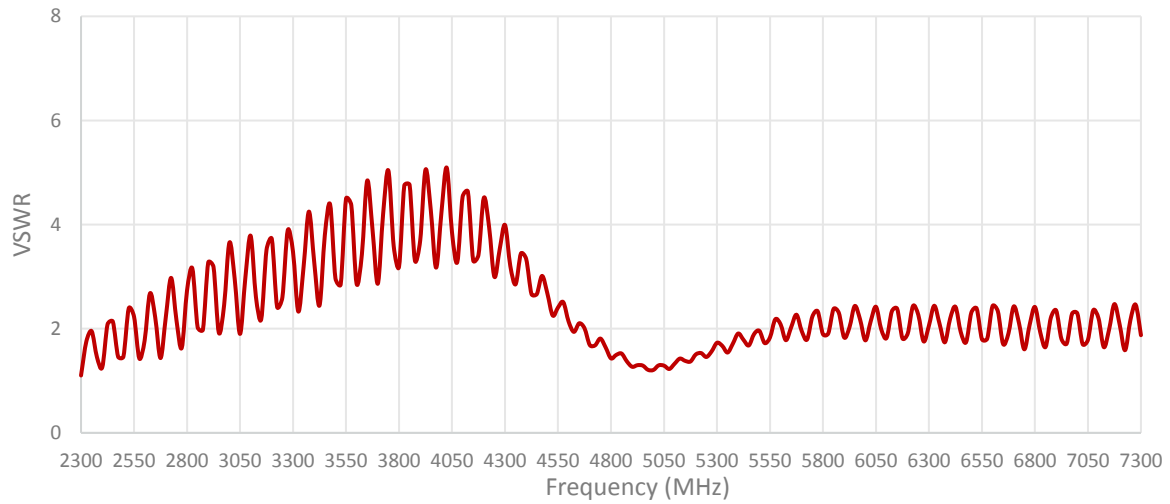
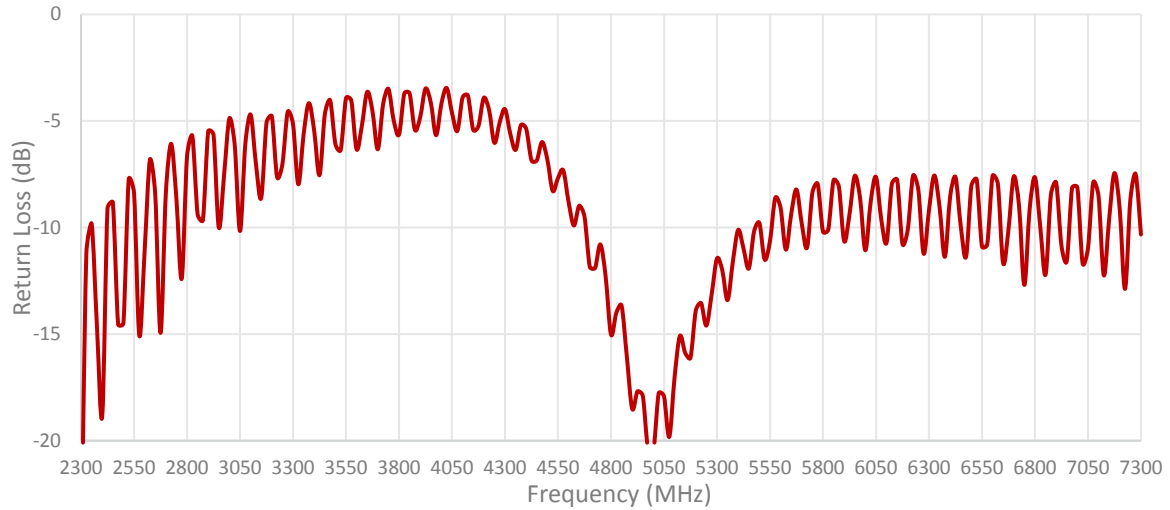
## 4. Antenna parameters

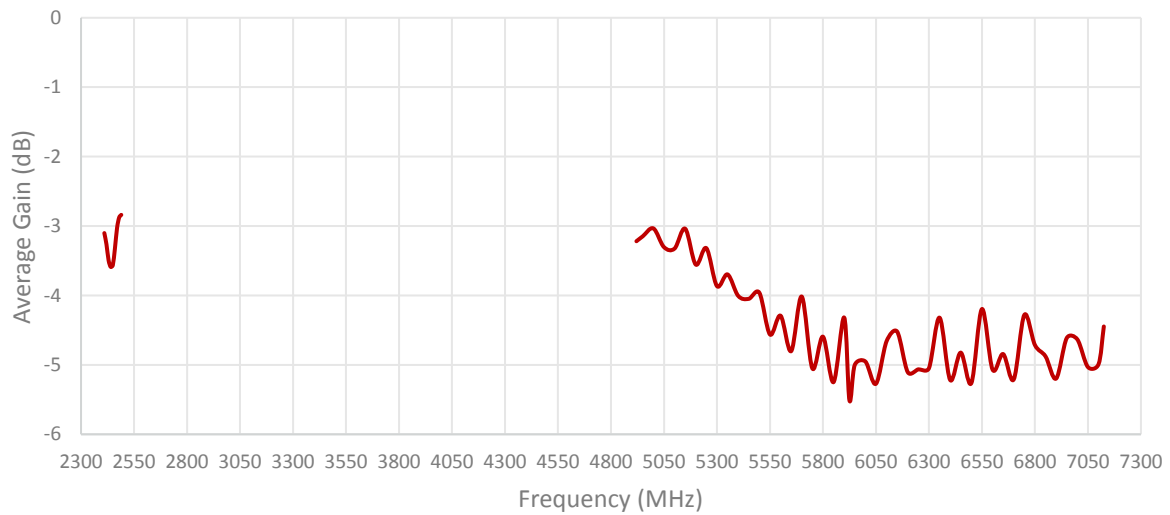
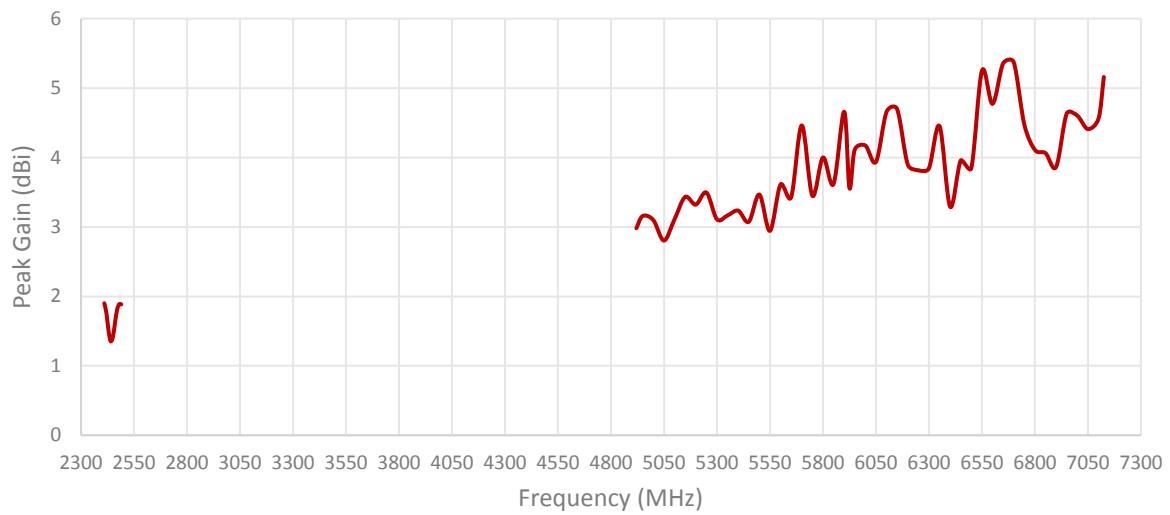
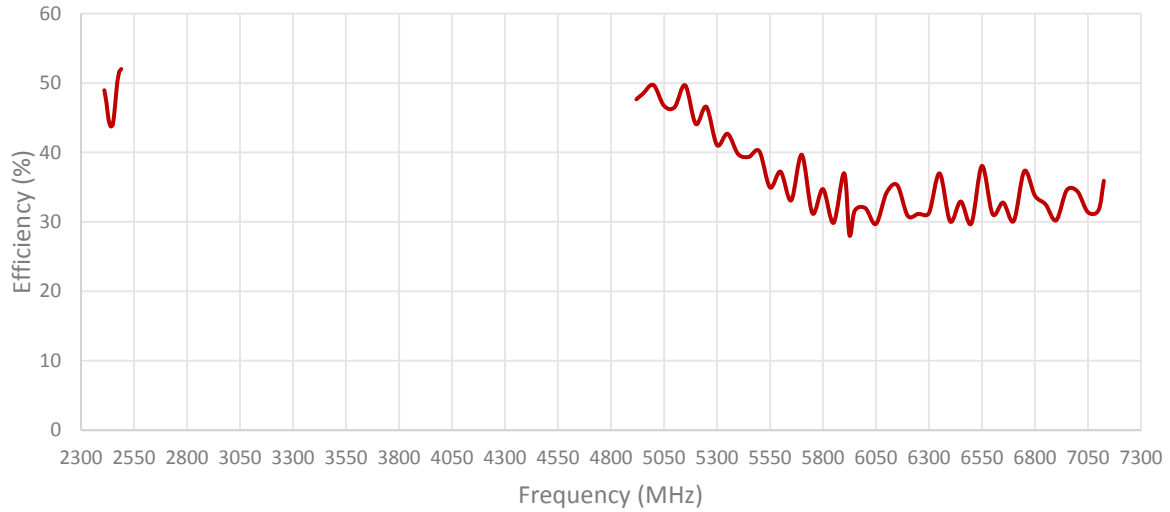
**Table 1: 2.4/5.0/6.0 GHz ISM**



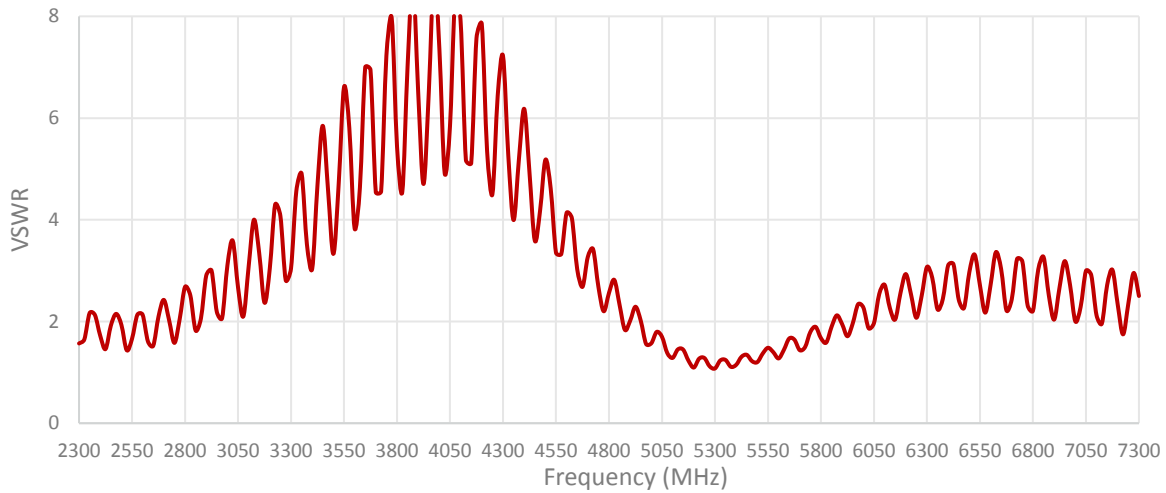
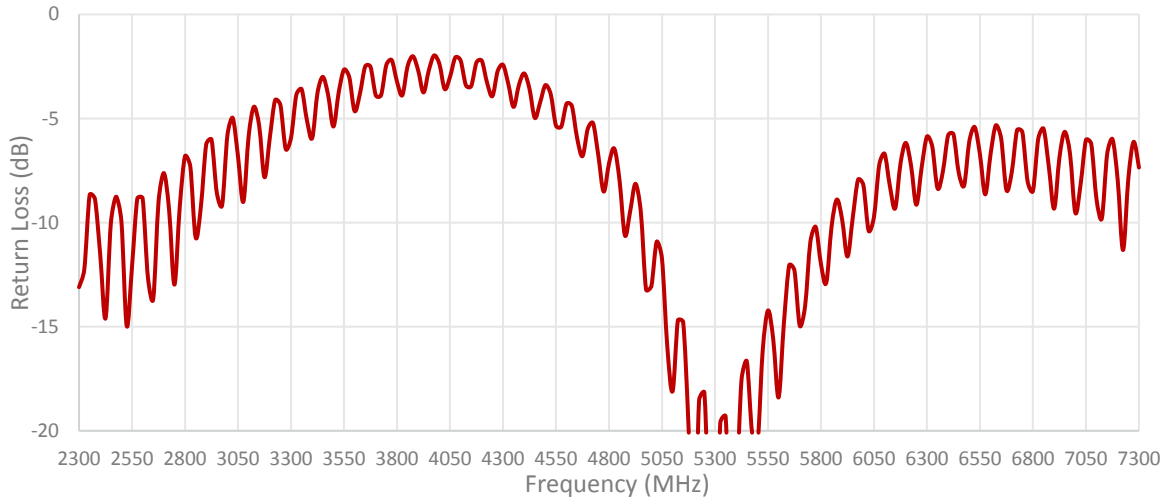


**Table 2: 2.4/5.0/6.0 GHz ISM**

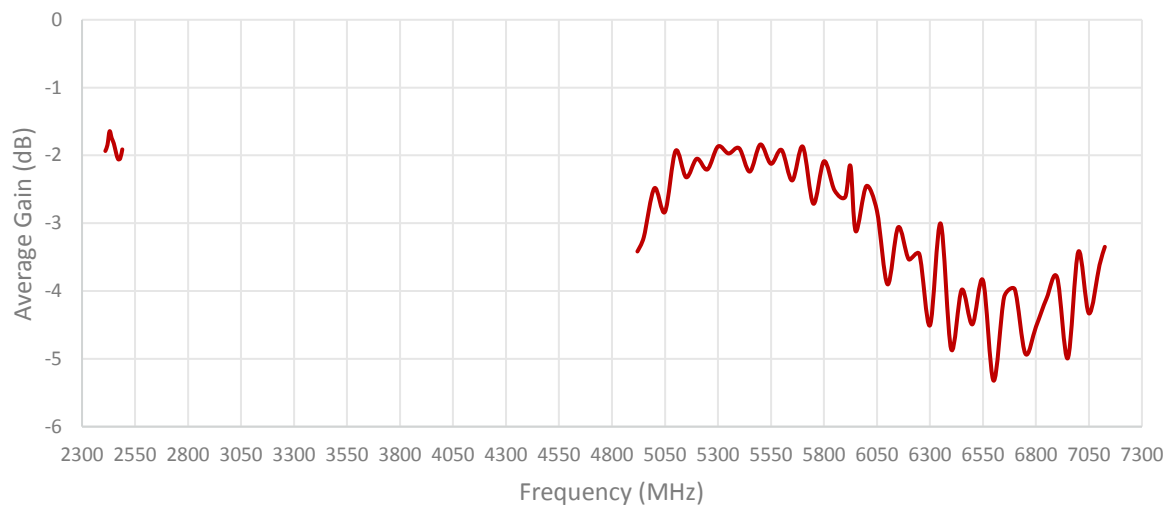
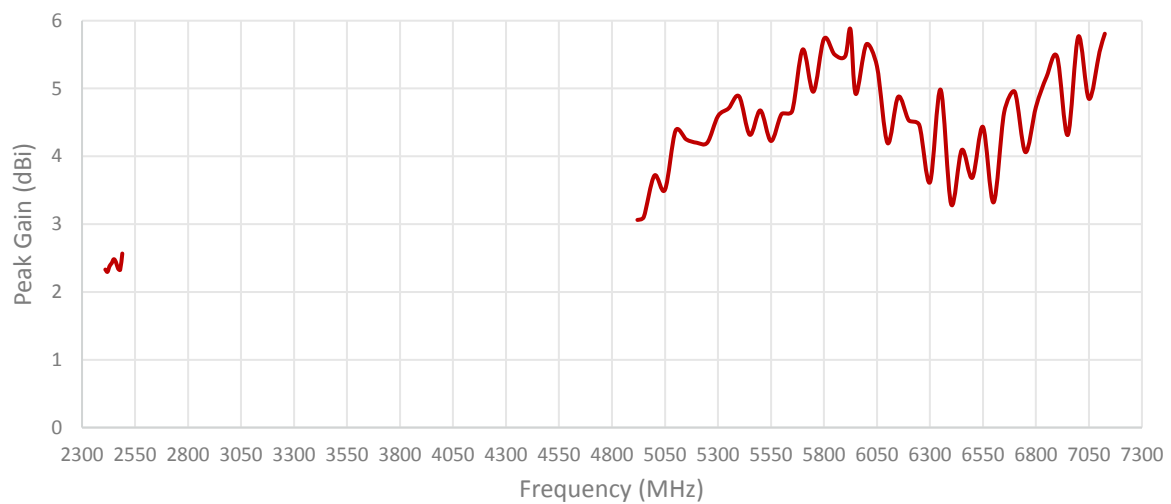
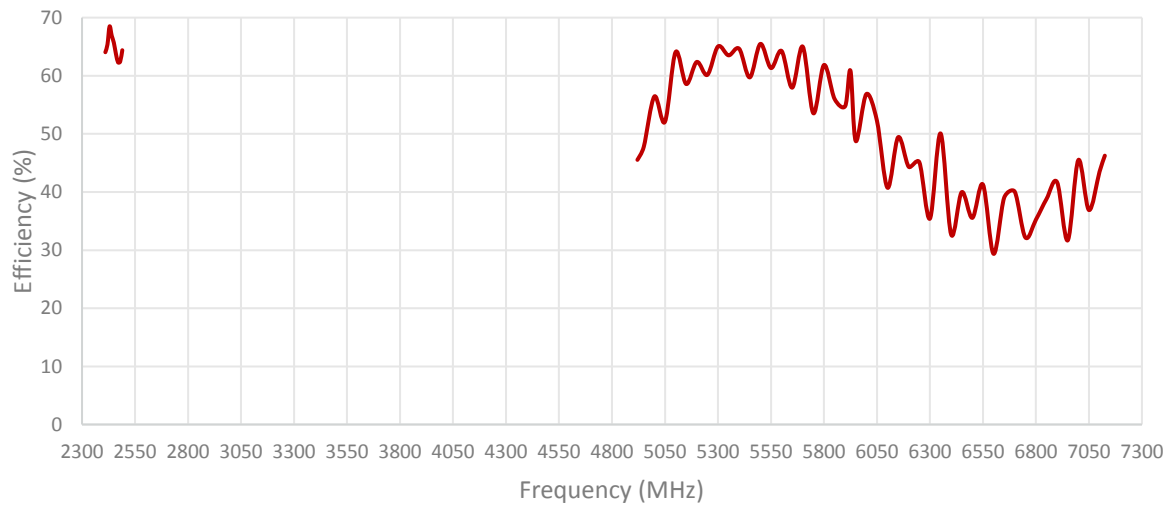




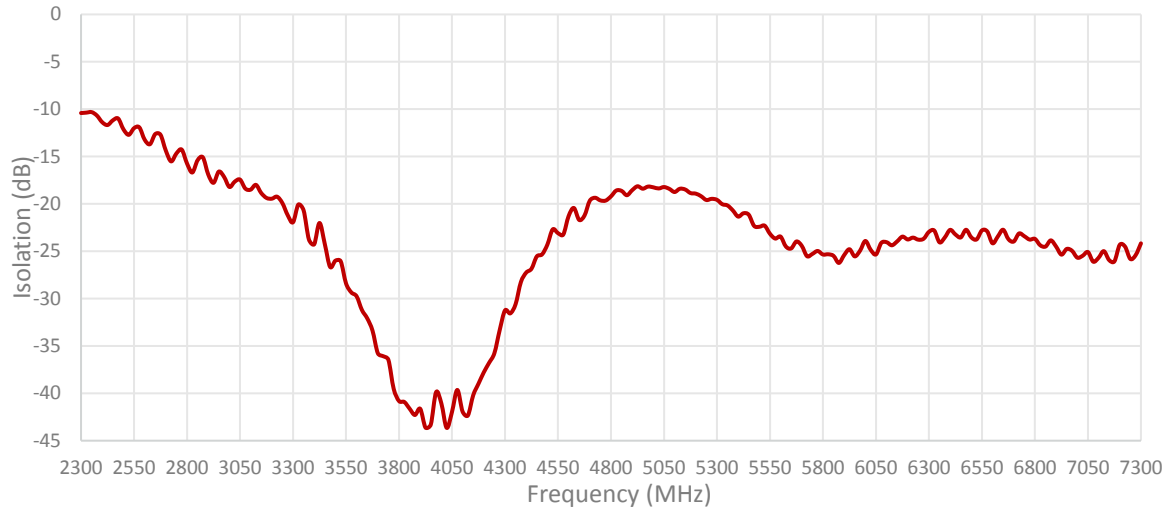
**Cable 3: 2.4/5.0/6.0 GHz ISM**



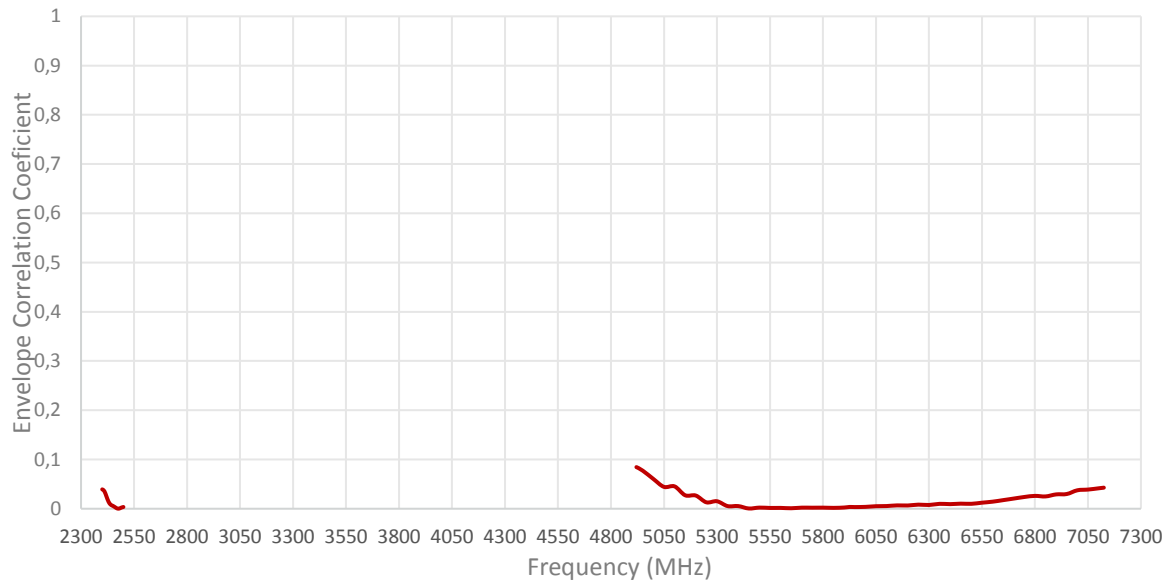




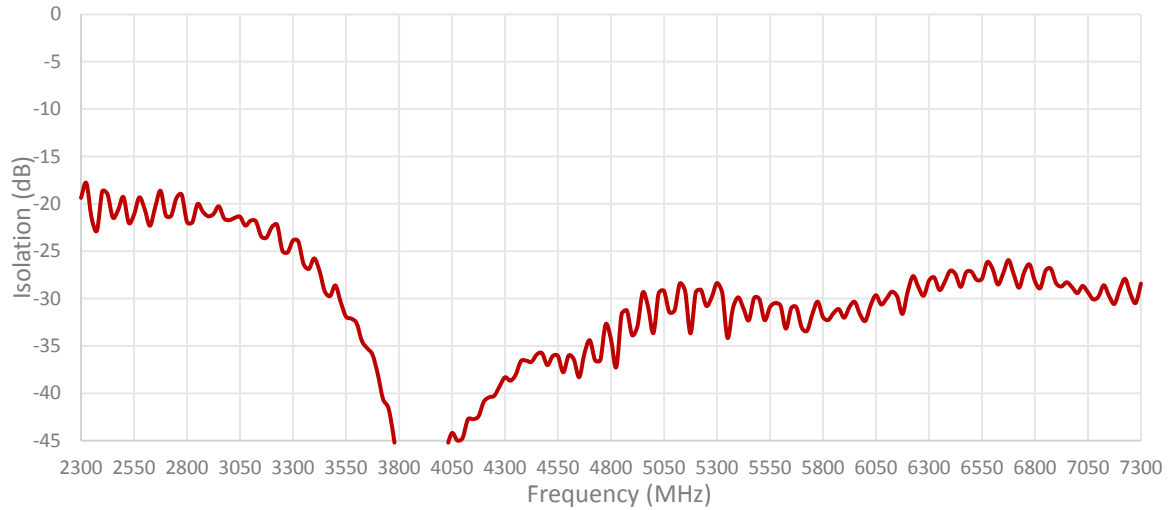
**ISOLATION FOR CABLES 1 AND 2**



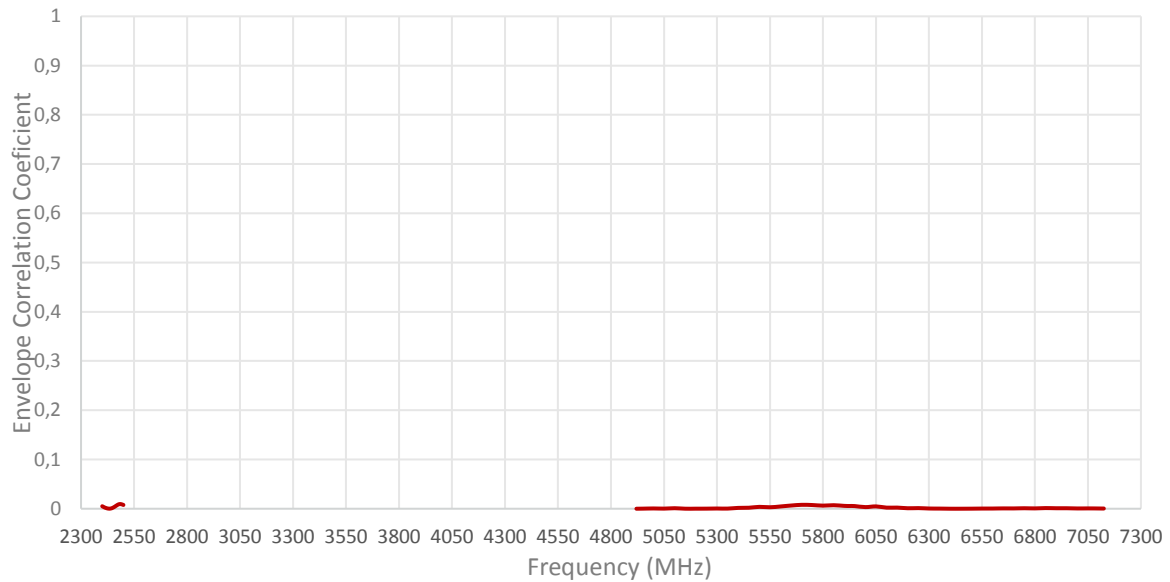
**ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2**



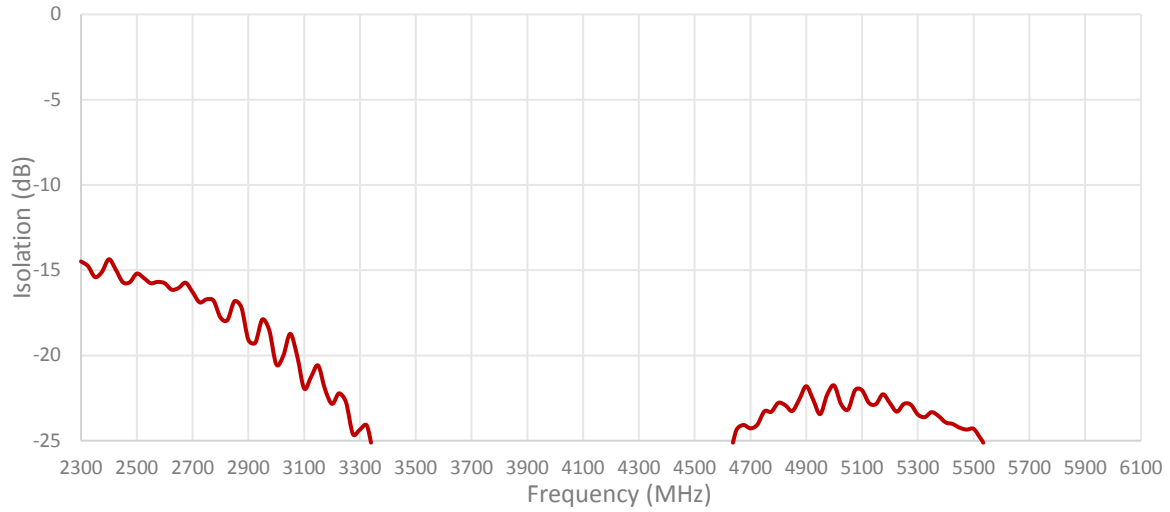
**ISOLATION FOR CABLES 1 AND 3**



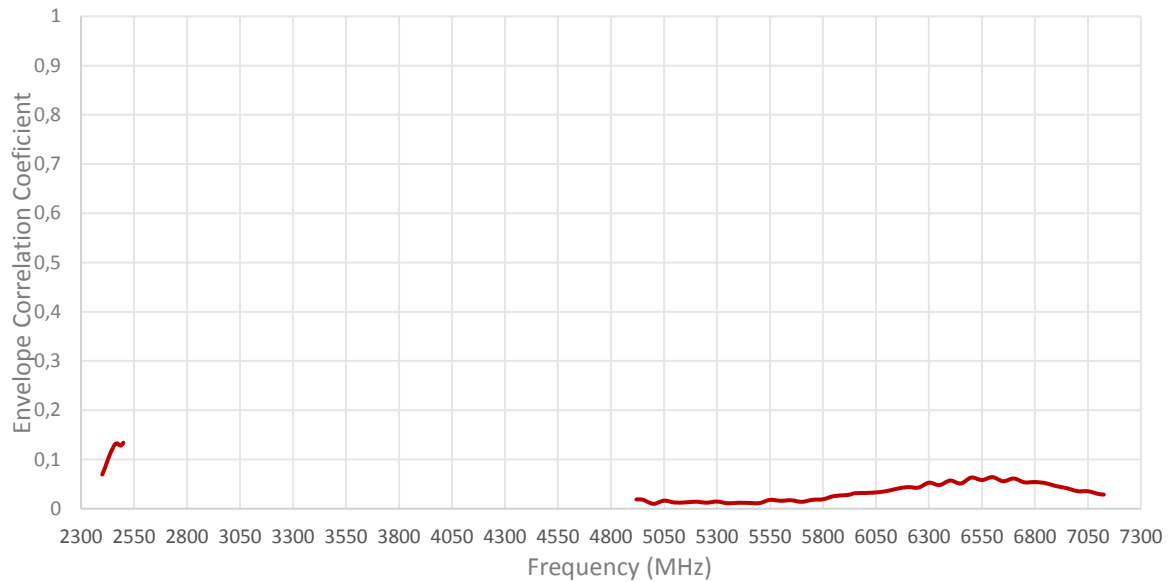
**ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 3**

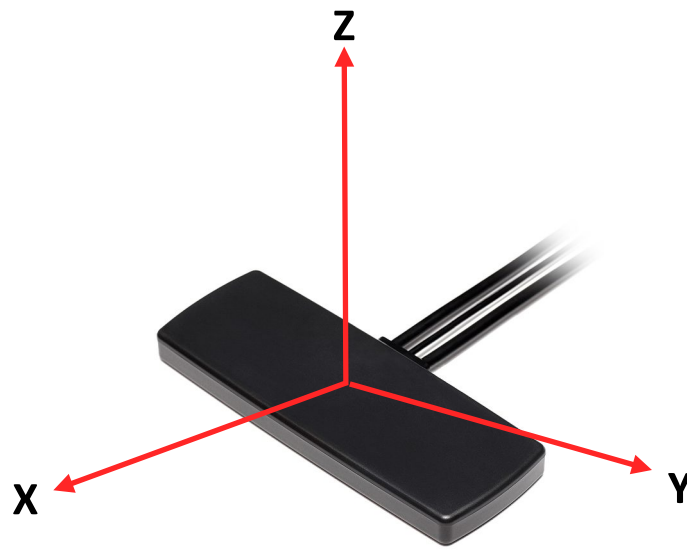


**ISOLATION FOR CABLES 2 AND 3**



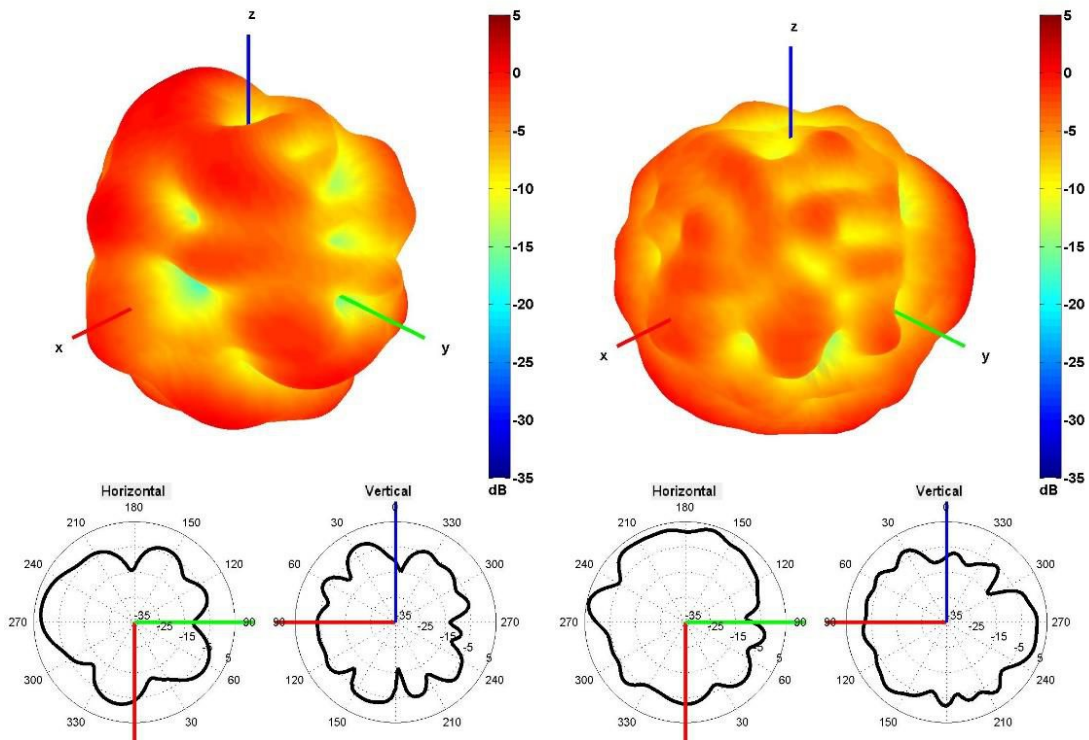
**ENVELOPE CORRELATION COEFFICIENT FOR CABLES 2 AND 3**



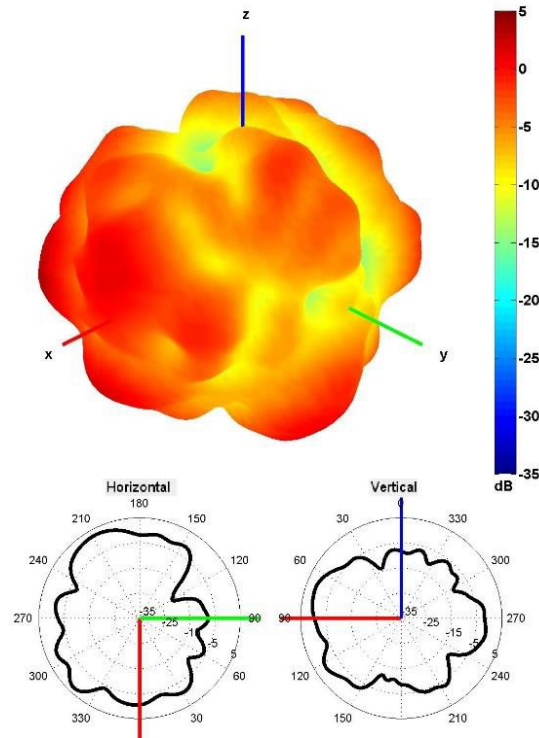


Radiation pattern reference

Cable 1: 2.4/5.0/6.0 GHz ISM

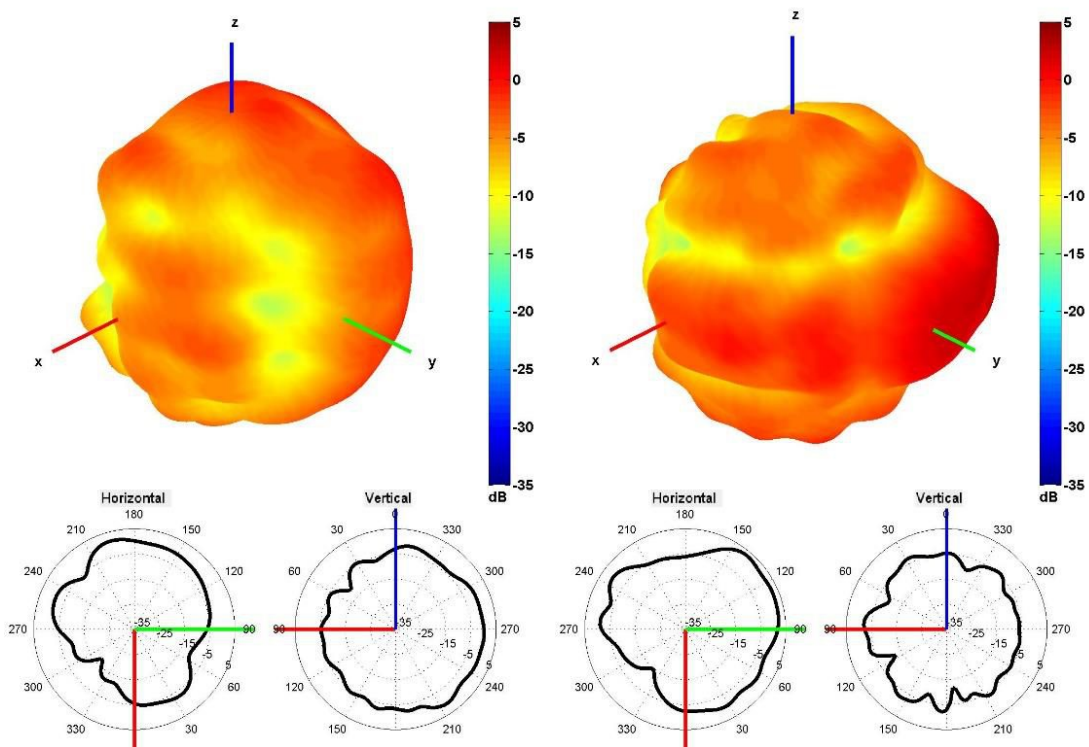


2450 and 5500 MHz Radiation pattern

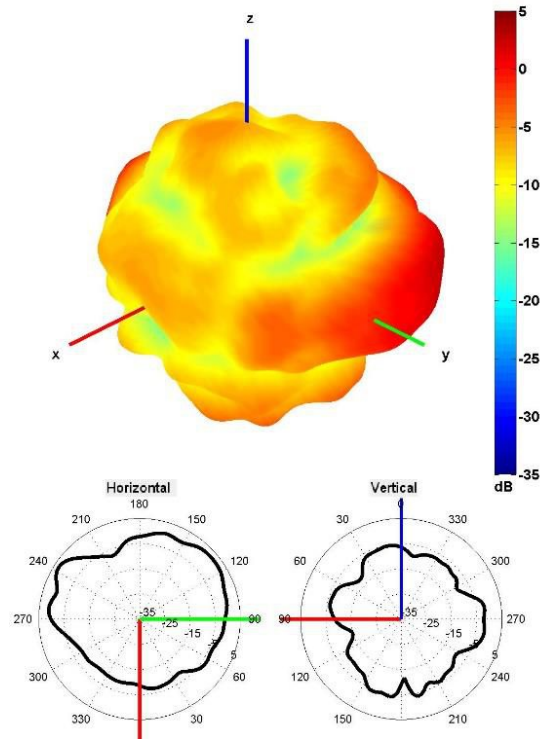


6500 MHz Radiation pattern

Cable 2: 2.4/5.0/6.0 GHz ISM

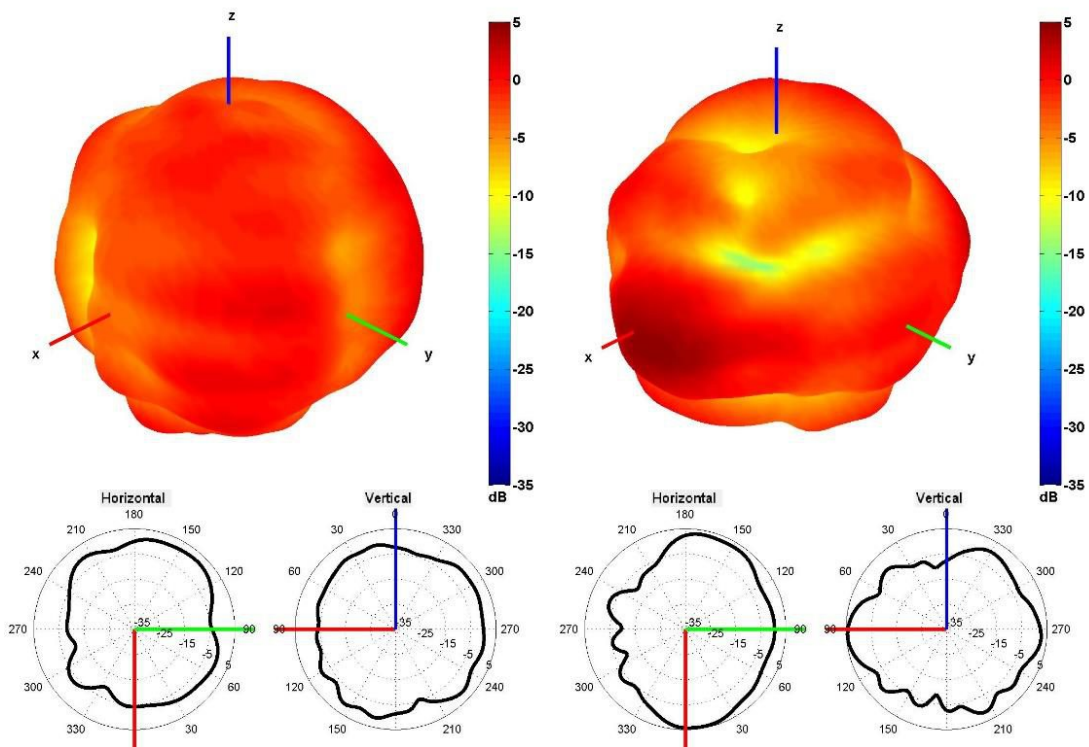


2450 and 5500 MHz Radiation pattern

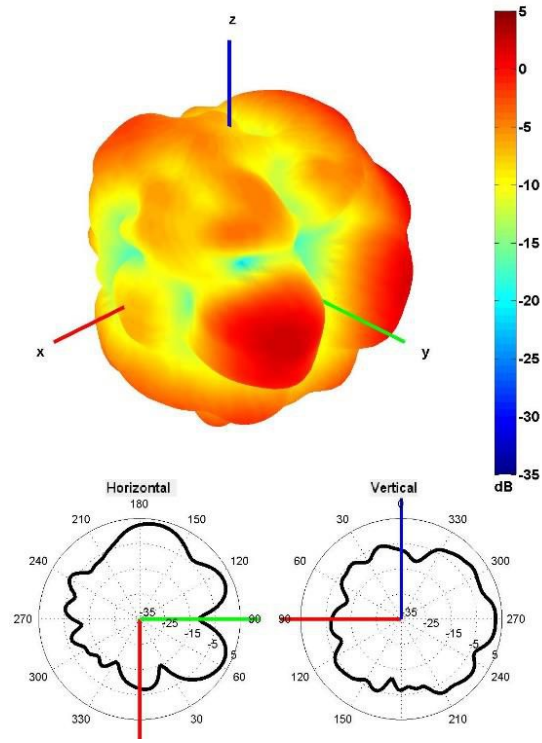


6500 MHz Radiation pattern

Cable 3: 2.4/5.0/6.0 GHz ISM



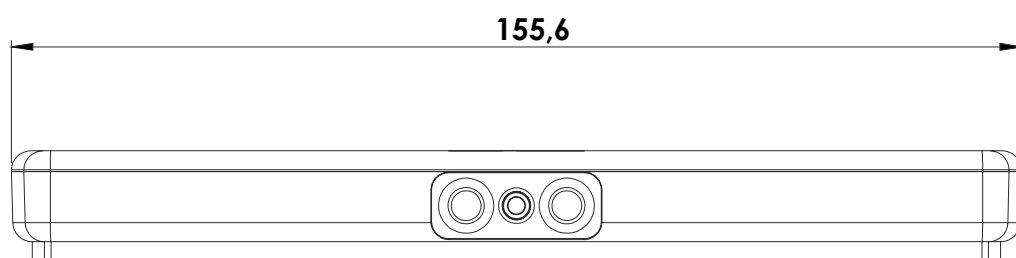
2450 and 5500 MHz Radiation pattern



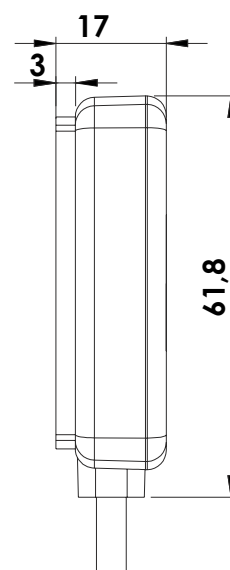
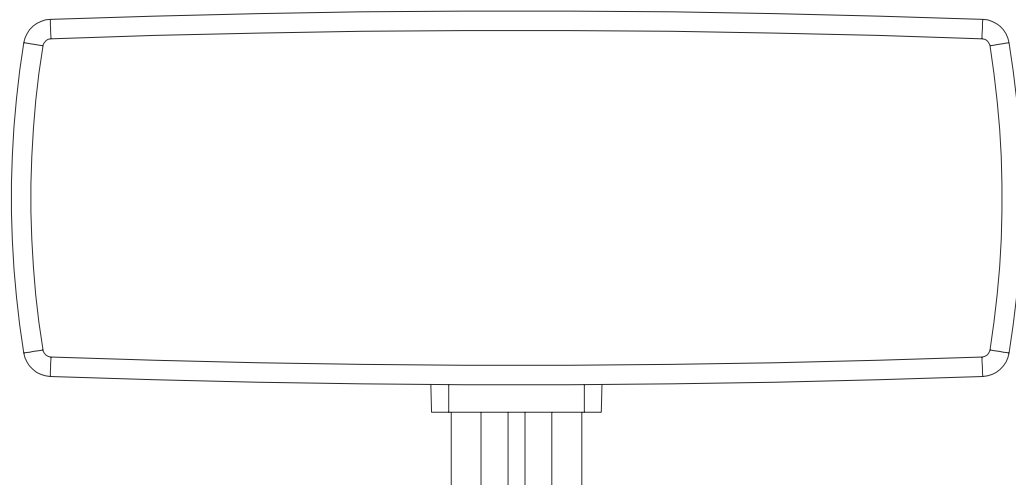
6500 MHz Radiation pattern



## 5. Antenna drawings



Foam Sticker



6. Antenna Images

