

AMC-ANT-2JP1724Pa

Cellular/LTE MIMO rigid fibreglass PCB antenna

Features

- **Cable 1 & 2: Cellular/LTE**
 - 698 – 960MHz
 - 1710 – 2170MHz
 - 2500 – 2700MHz
- Ground plane independent
- High performance
- Self-adhesive
- Dimensions: 138 x 34 x 0.8mm
- Customisable cable and connector



1. Antenna and electrical specifications

Parameters	Cellular/LTE Antenna		
Standards	2G/3G/4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698 - 960	1710 - 2170	2500 - 2700
Return loss (dB)	~-9.9	~-5.0	~-6.6
VSWR	~3.2:1	~4.0:1	~2.8:1
Efficiency (%)	~28.1	~45.4	~47.3
Peak gain (dBi)	~-1.8	~2.1	~1.8
Average gain (dB)	~-6.1	~-3.6	~-3.3
Impedance (Ohms)	50		
Polarisation	Linear		
Radiation pattern	Omni-Directional		
Max. input power (W)	25		
Connector type	U.FL standard (other connectors available)		
Cable length	15cm standard (other lengths available)		
Cable type	1.37mm mini coax standard (other cables available)		



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Return loss (dB)	~-9.9	~-5.2	~-7.3
VSWR	~3.0:1	~3.7:1	~2.5:1
Efficiency (%)	~34.7	~49.3	~50.3
Peak gain (dBi)	~0.7	~3.0	~3.5
Average gain (dB)	~-4.6	~-3.1	~-3.0
Impedance (Ohms)	50		
Polarisation	Linear		
Radiation pattern	Omni-Directional		
Max. input power (W)	25		
Connector type	U.FL standard (other connectors available)		
Cable length	15cm standard (other lengths available)		
Cable type	1.37mm mini coax standard (other cables available)		

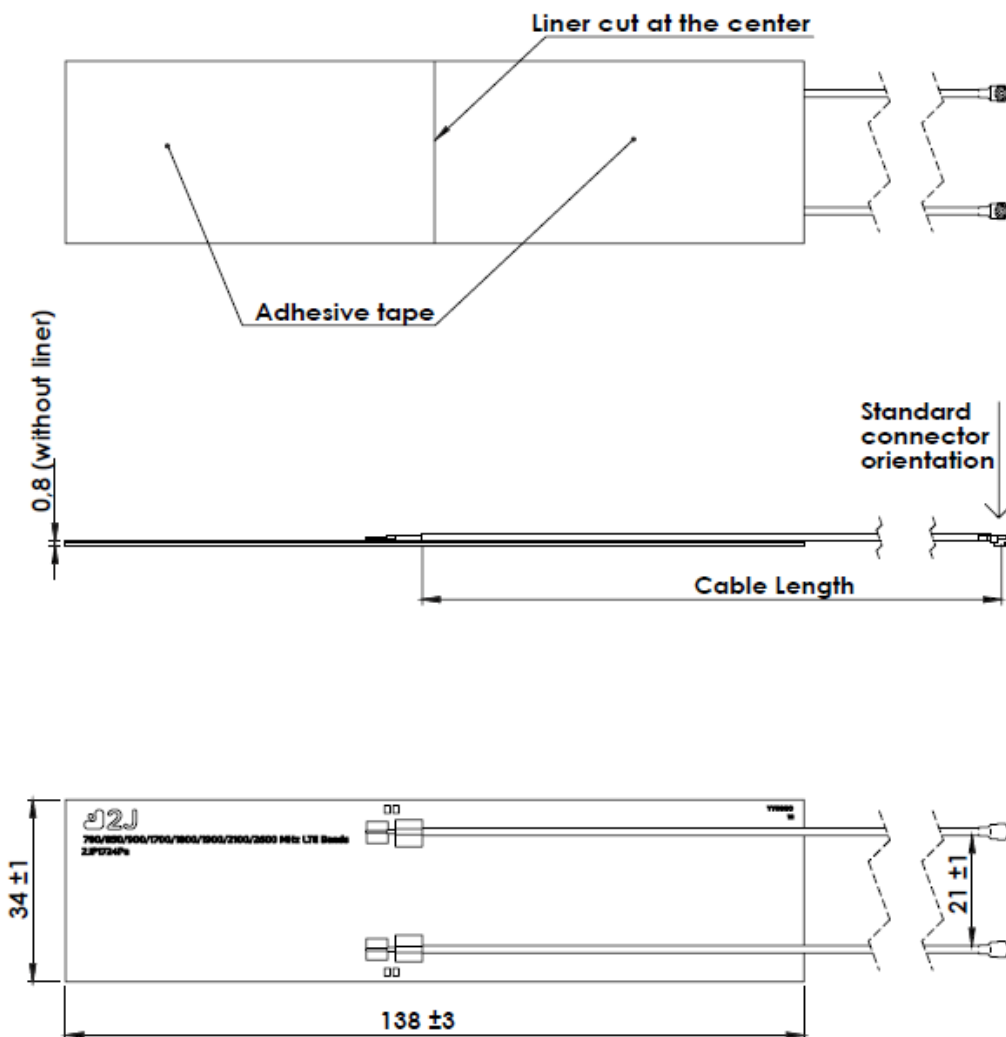
Measurement conditions:

- Mounted on 30 x 30 x 0.25cm ABS plate
- 15cm of 1.37mm mini coax cable
- Measured in certified CTIA 3D anechoic chamber



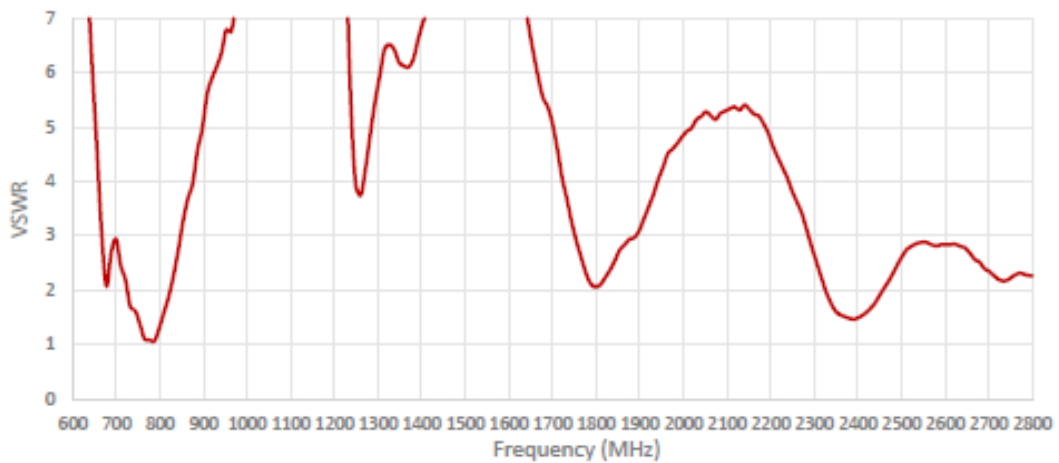
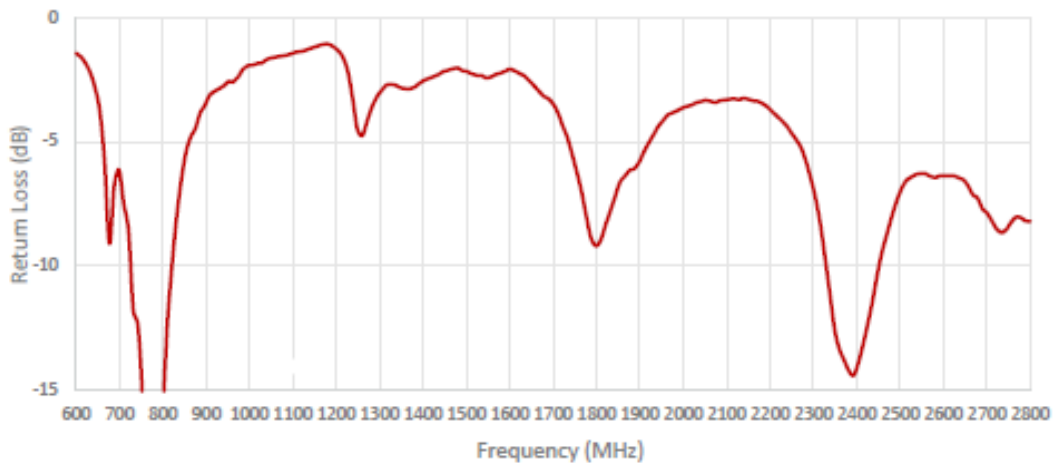
2. Mechanical and environmental specifications

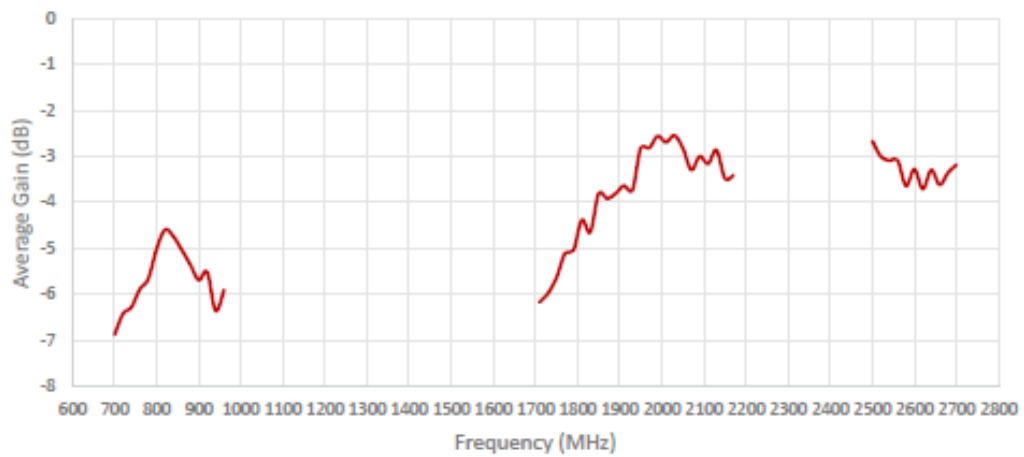
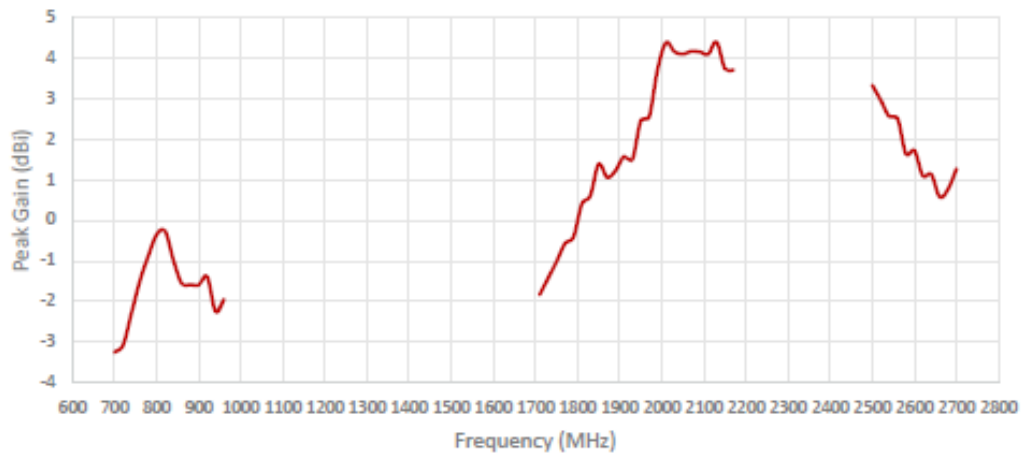
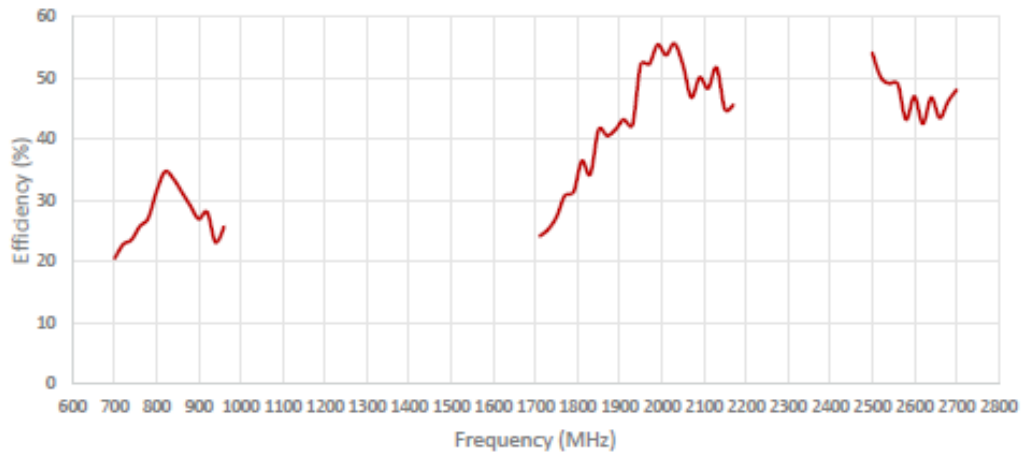
Mounting type	Adhesive mount
Dimensions (mm)	138 x 34 x 0.8
Adhesive type	3M 467
Material	Rigid fibreglass
Operating temperature (°C)	-40 to +85
Storage temperature (°C)	-40 to +85
Substance compliance	RoHS



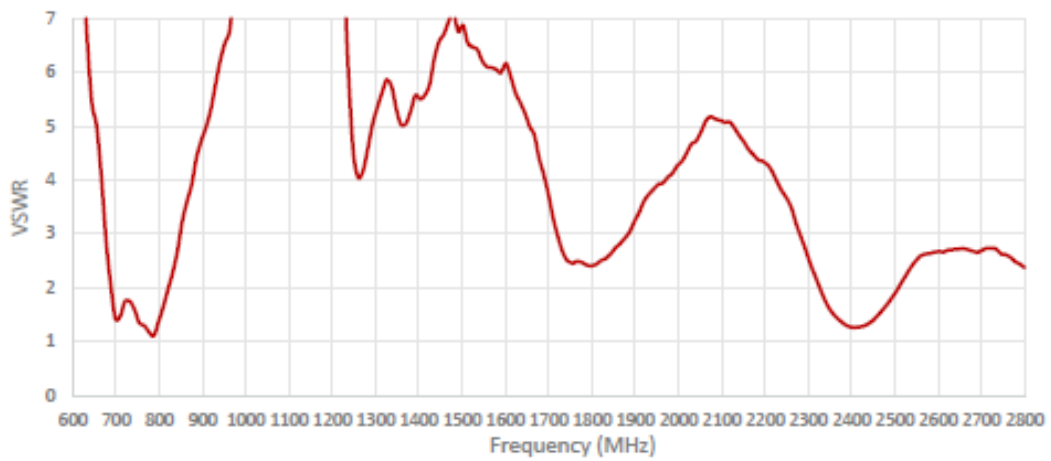
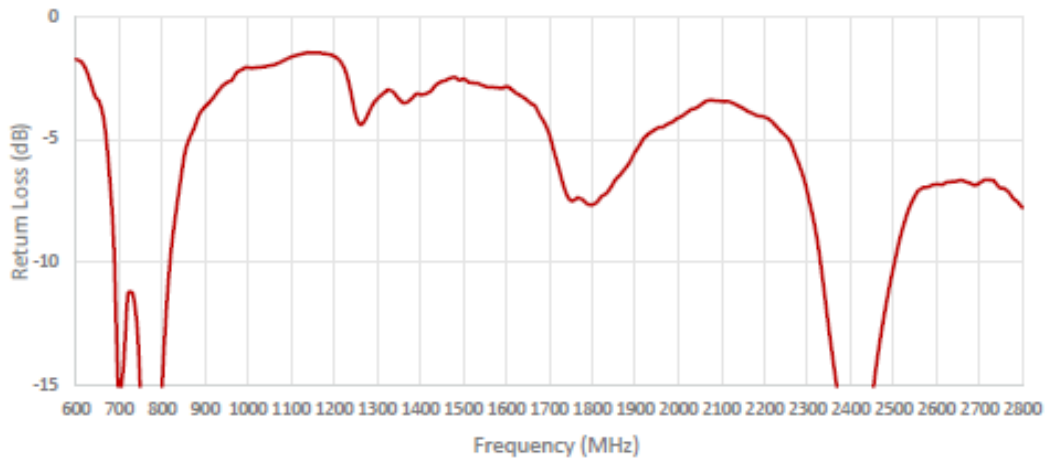
3. Antenna parameters

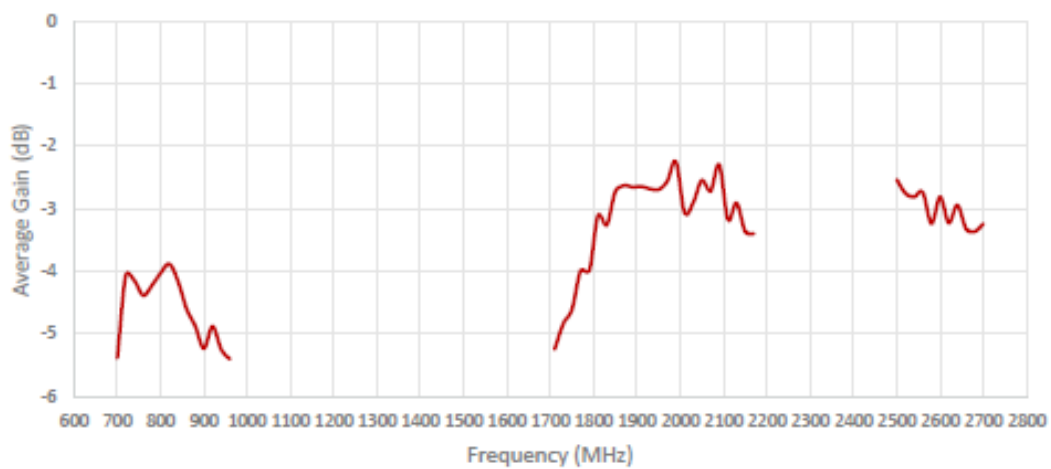
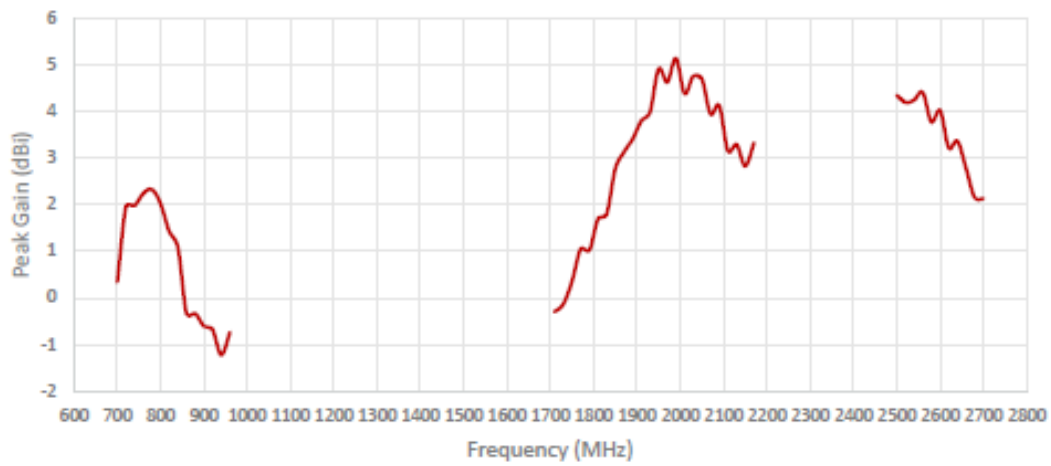
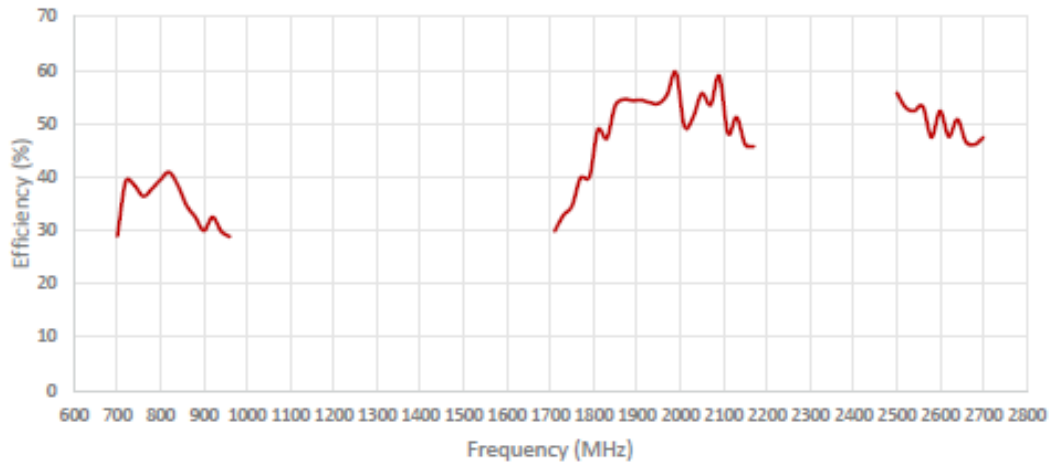
Table 1: CELLULAR/LTE



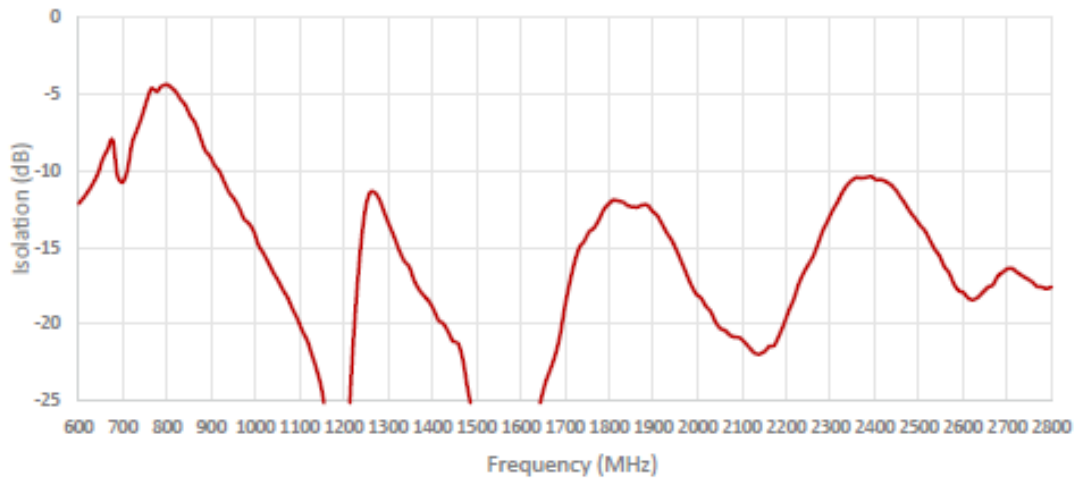


Cable 2: CELLULAR/LTE

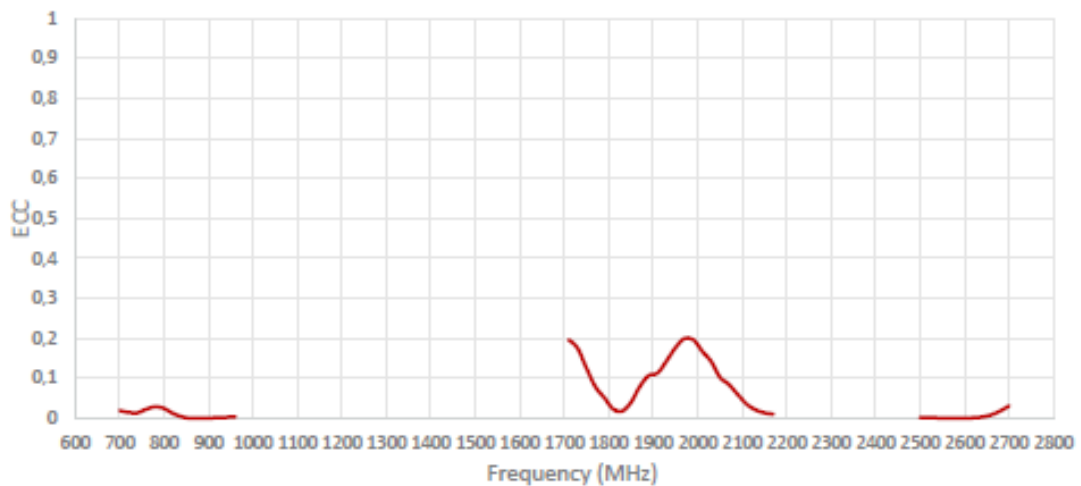


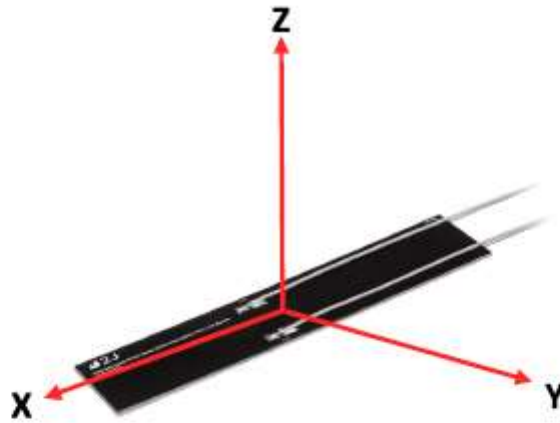


ISOLATION FOR CABLES 1 AND 2



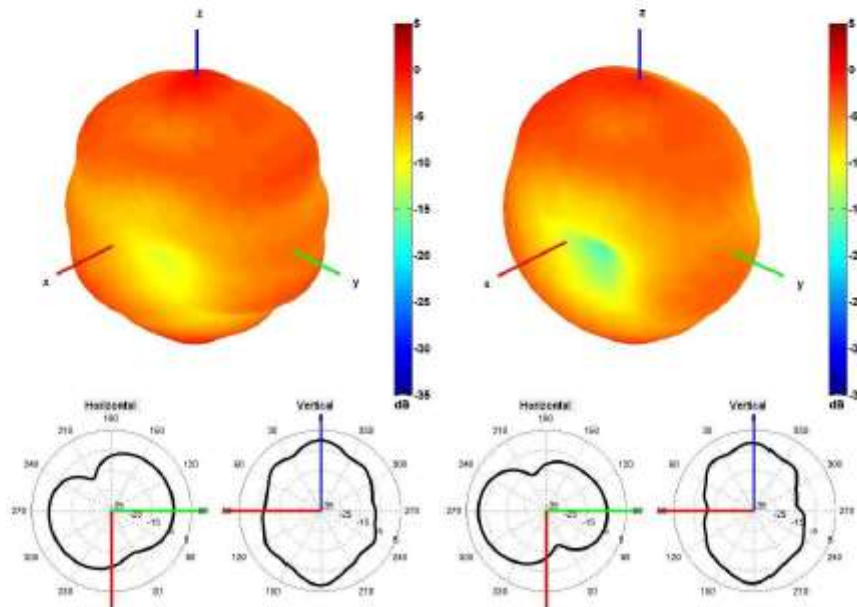
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2





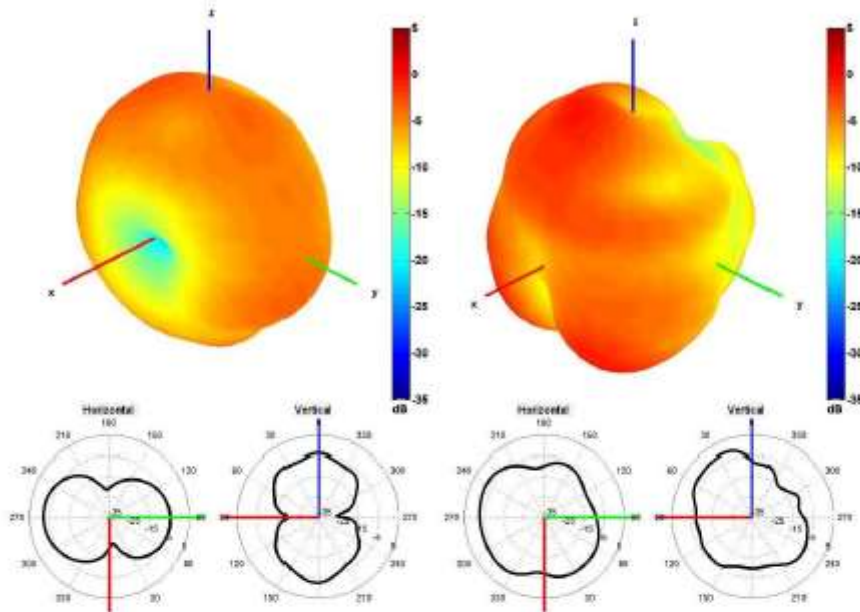
Radiation pattern reference

Cable 1: CELLULAR/LTE

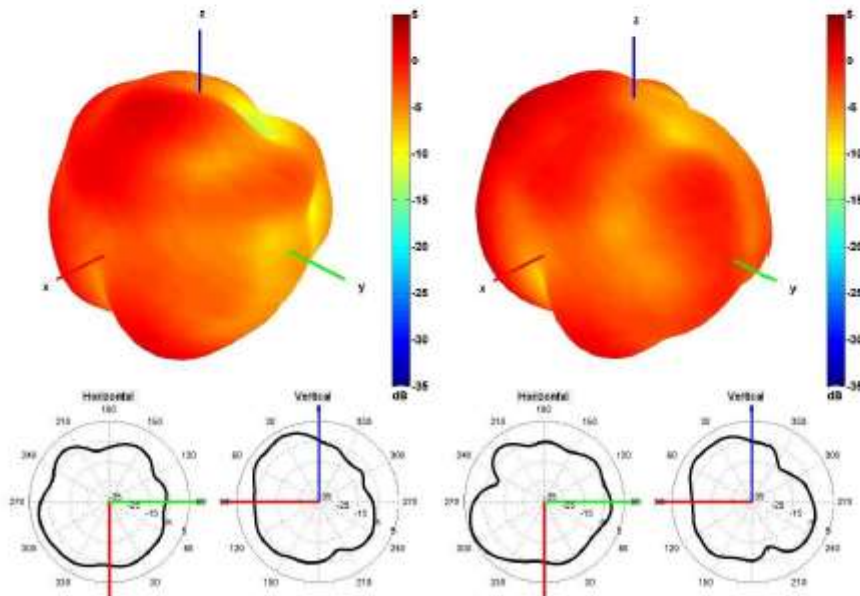


750 and 850 MHz Radiation pattern



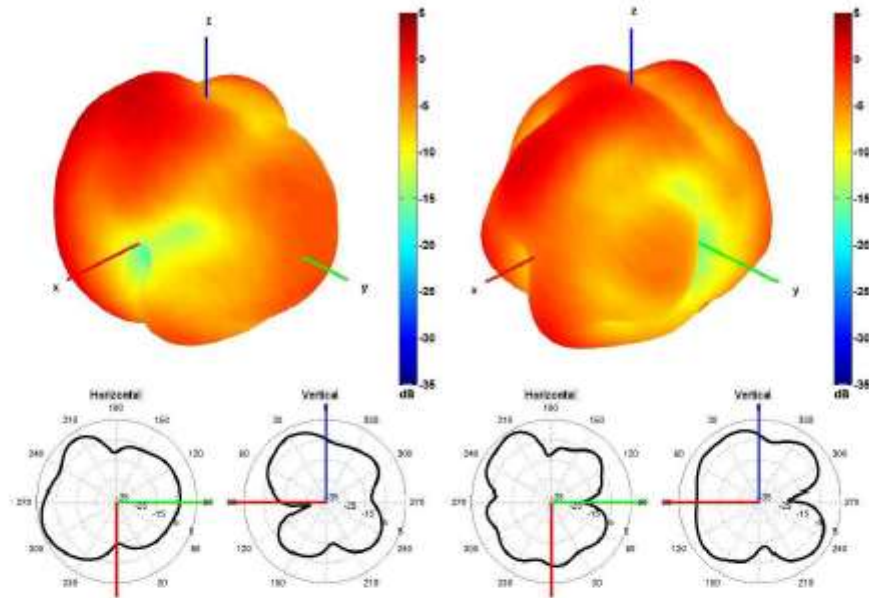


940 and 1750 MHz Radiation pattern



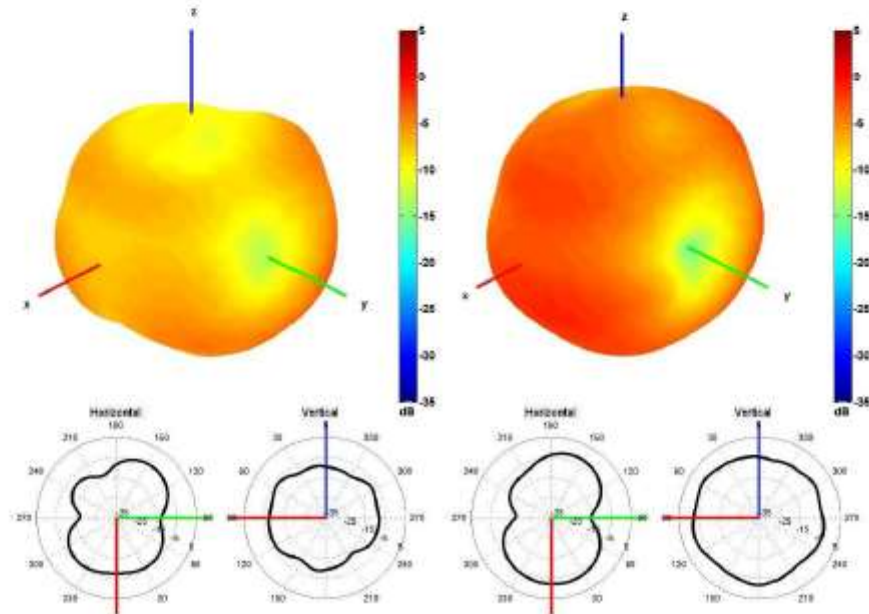
1850 and 1950 MHz Radiation pattern





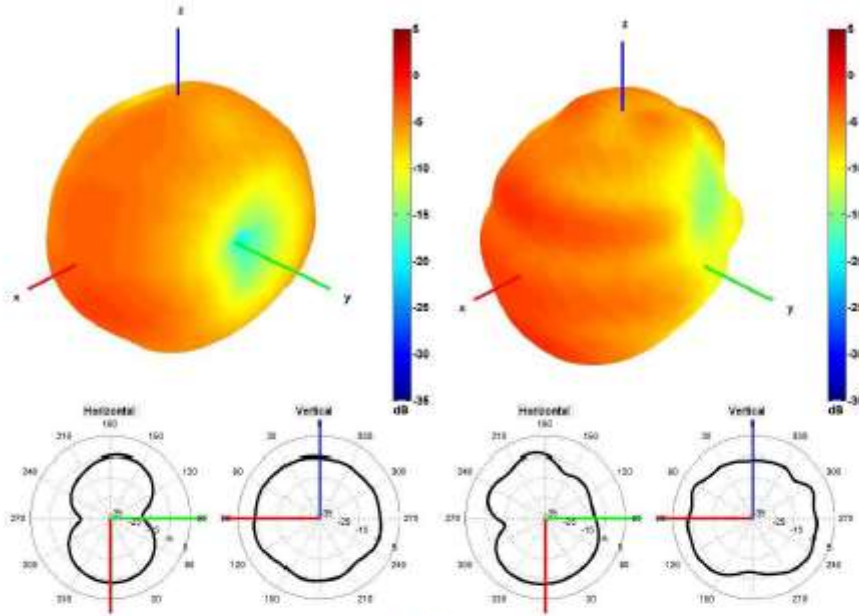
2100 and 2600 MHz Radiation pattern

Cable 2: CELLULAR/LTE

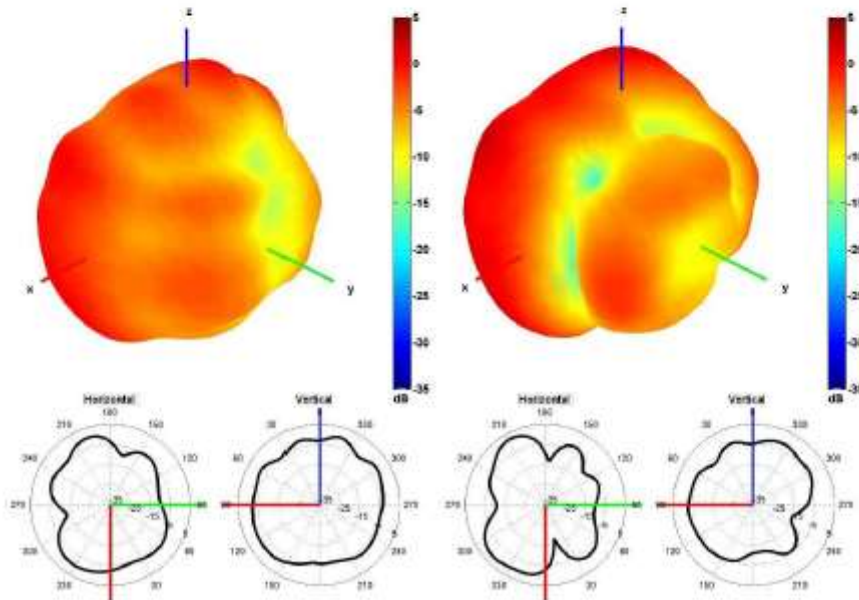


750 and 850 MHz Radiation pattern



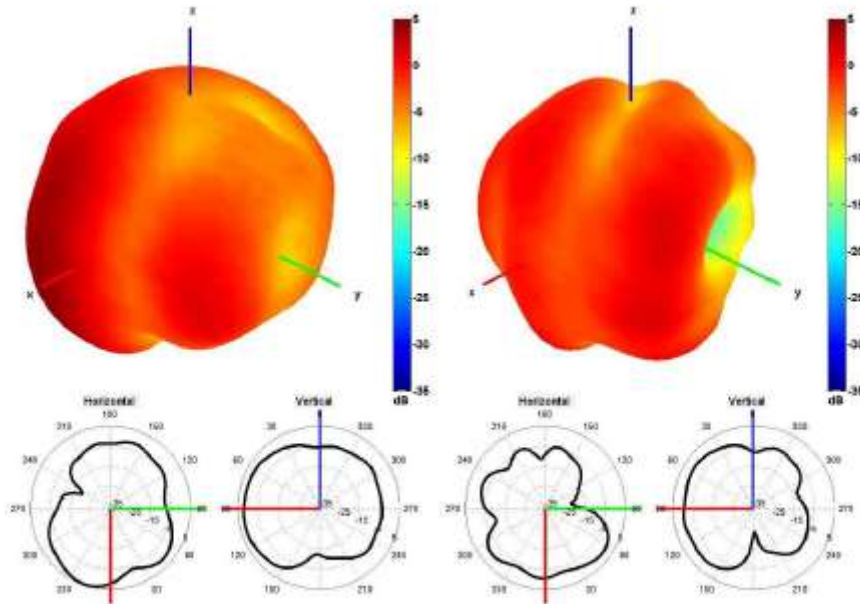


940 and 1750 MHz Radiation pattern



1850 and 1950 MHz Radiation pattern





2100 and 2600 MHz Radiation pattern

