

Product Datasheet

08_Magnetic_Mount_Antenna

CELLULAR/LTE MIMO Magnetic Mount

Key Features

Cable 1 - 2: CELLULAR / LTE

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

Magnetic Mount

Ground Plane Independent

Customizable Cable and Connector

Dimensions 80 x 76 x 13 mm

Certificates: IP67



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)	~-10.0	~-7.8	~-9.7
VSWR	~2.2:1	~2.6:1	~2.1:1
Efficiency (%)	~25.3	~20.2	~36.1
Peak Gain (dBi)	~-0.7	~-1.7	~-4.4
Average Gain (dB)	~-6.1	~-7.1	~-4.4
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	DACAR302 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)	~-9.9	~-8.3	~-9.1
VSWR	~2.5:1	~2.5:1	~2.2:1
Efficiency (%)	~25.7	~22.5	~35.2
Peak Gain (dBi)	~-0.8	~-1.8	~-4.5
Average Gain (dB)	~-6.1	~-6.6	~-4.6
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

DACAR302 Standard (Other Cables Available)

Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm Metal Plate
200 cm of Cable DACAR302
Measured in Certified CTIA 3D Anechoic Chamber

Specifications

Mounting Type

Magnetic Mount

Dimensions (mm)

80 x 76 x 13

Radome

ABS UV Stable

Radome color

Black

Operating Temperature (C)

-40 to +85

Storage Temperature (C)

-40 to +85

Substance Compliance

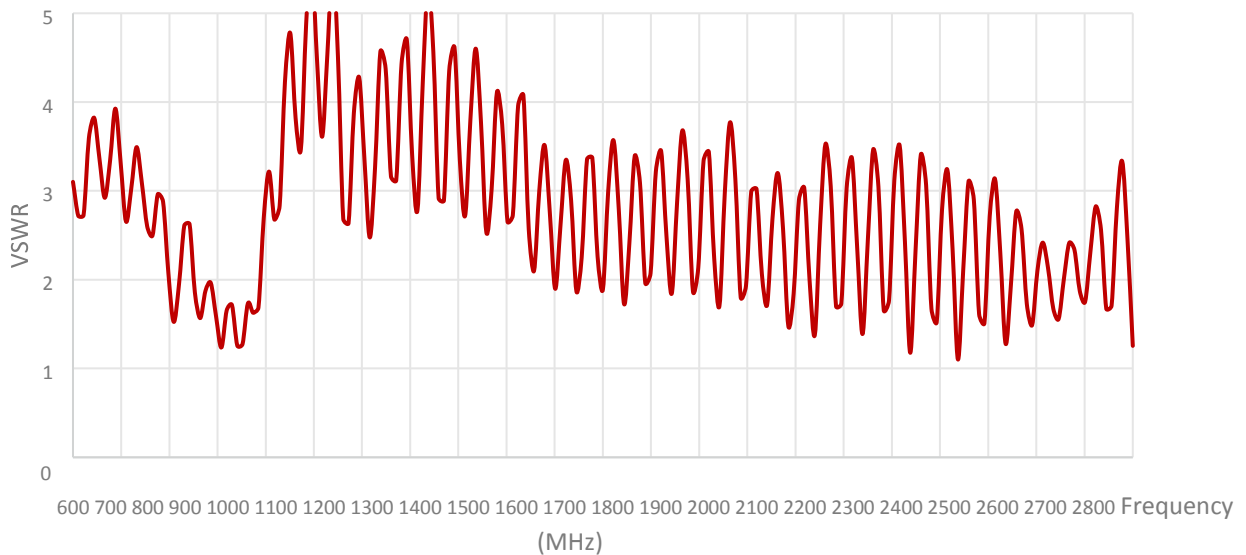
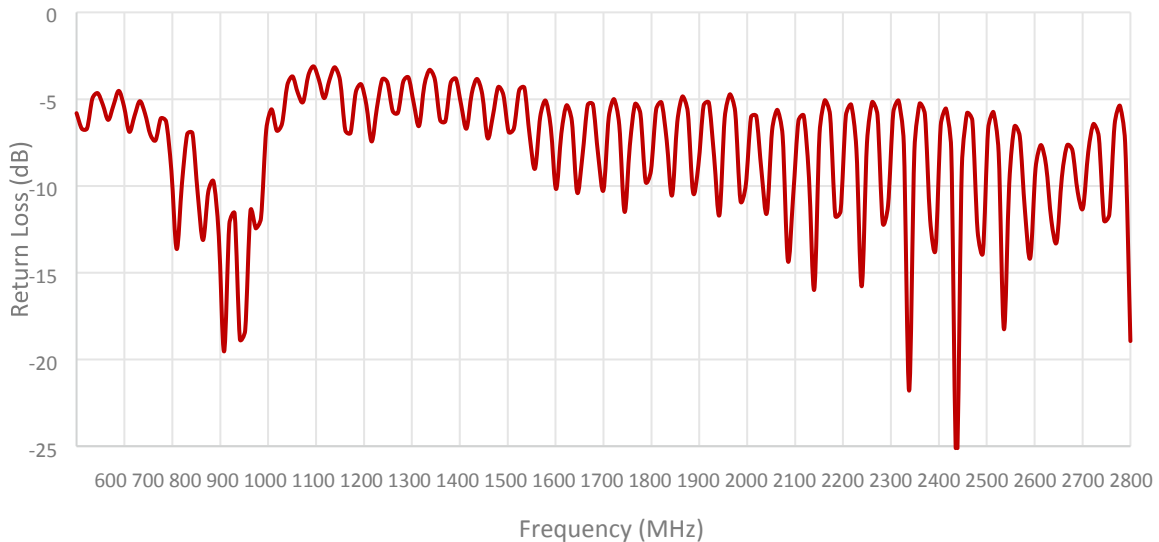
RoHS

Certificates

IP67

3. Antenna parameters

Table 1: CELLULAR/LTE



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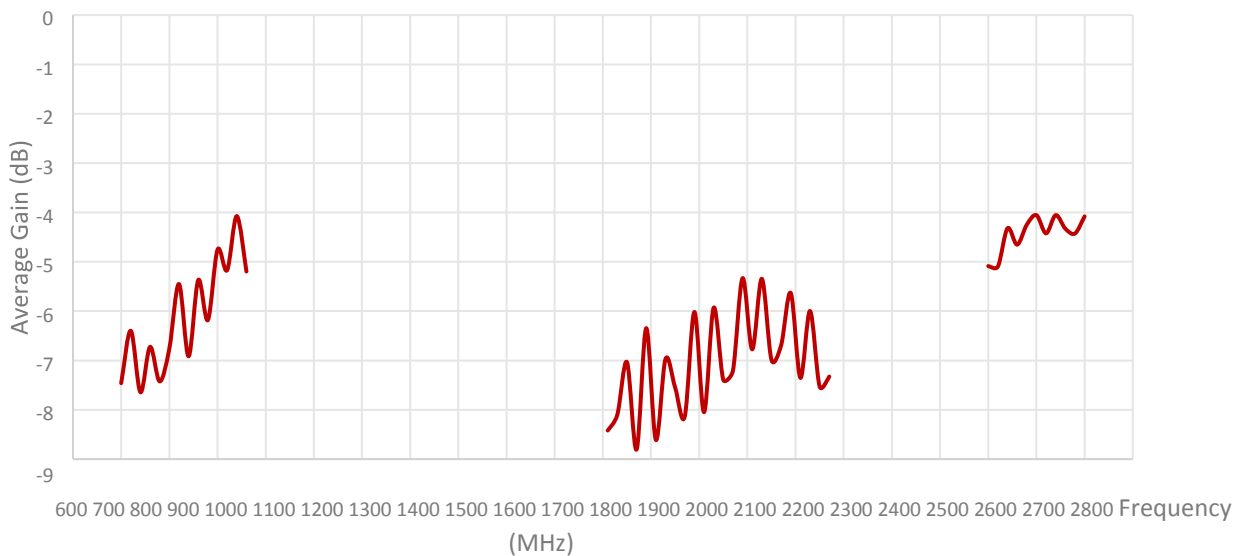
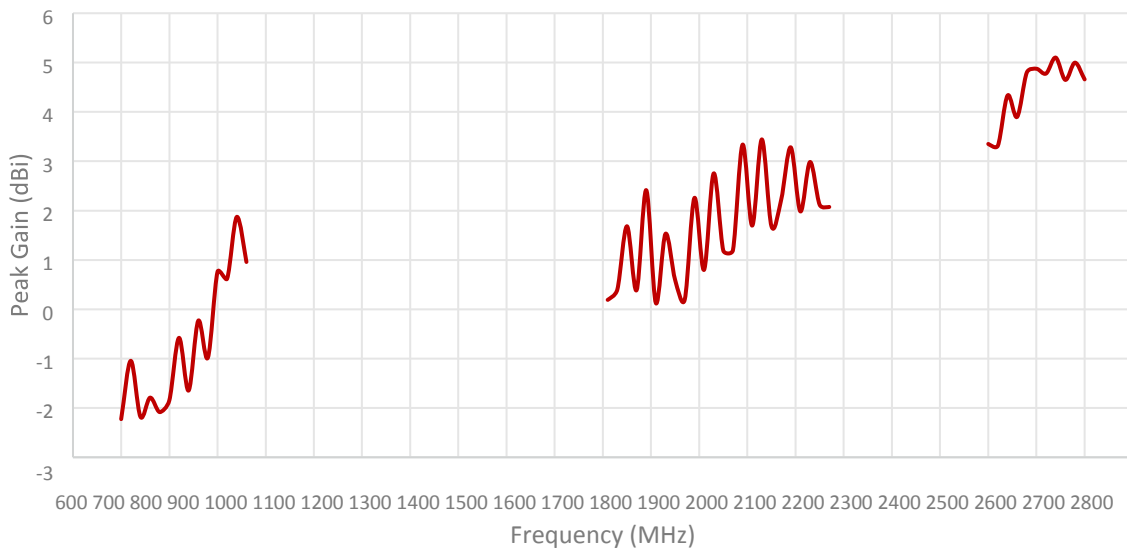
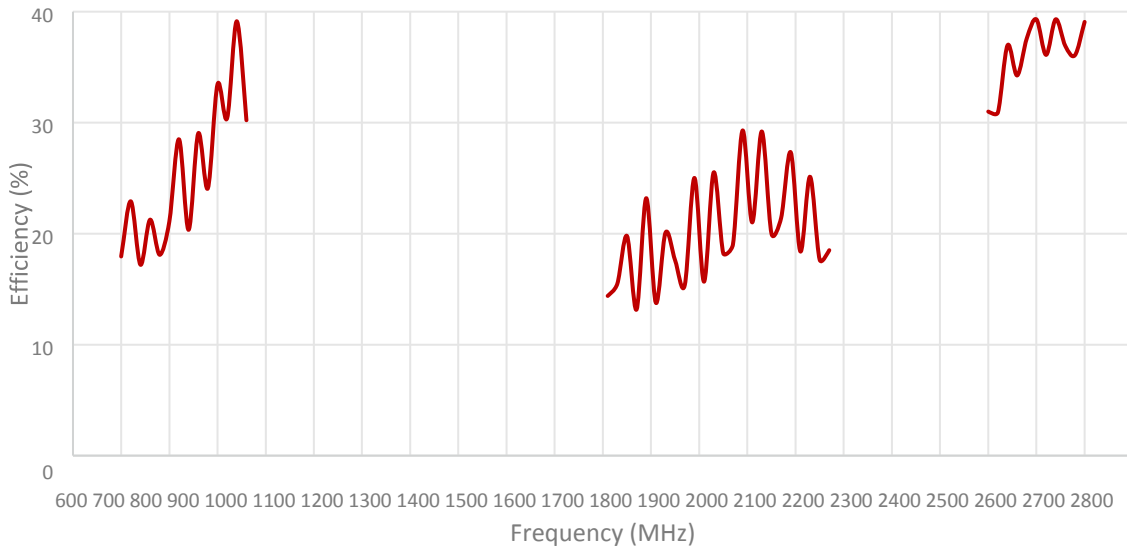
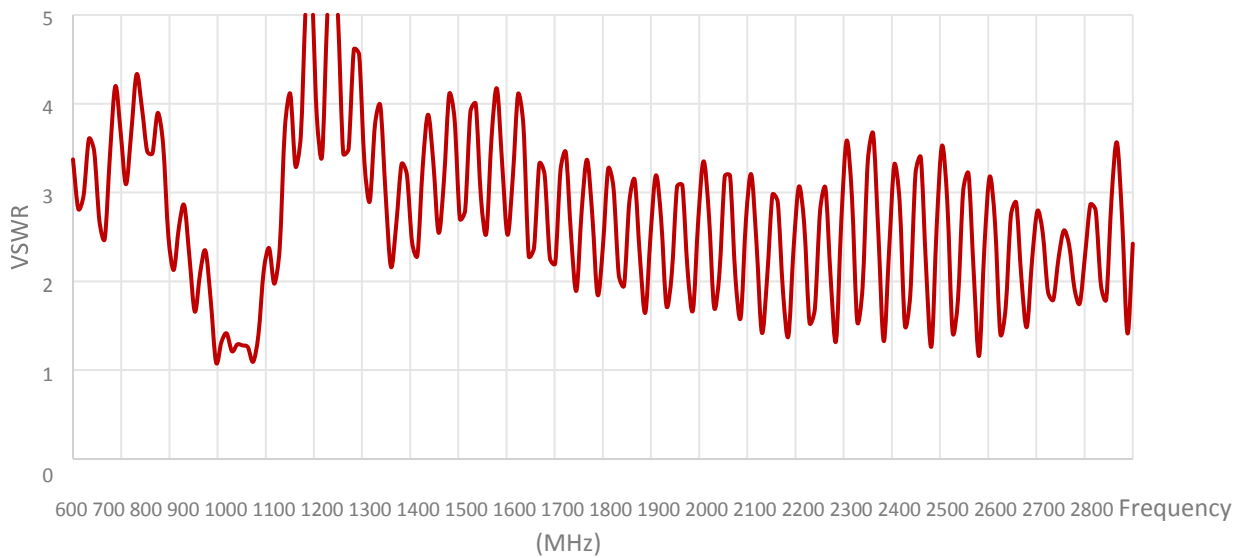
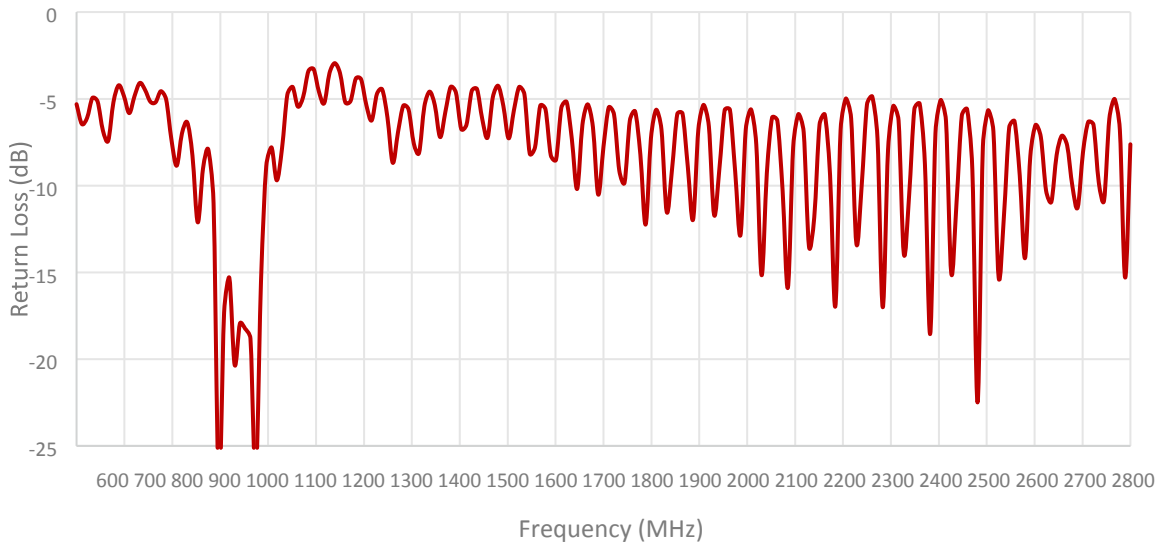
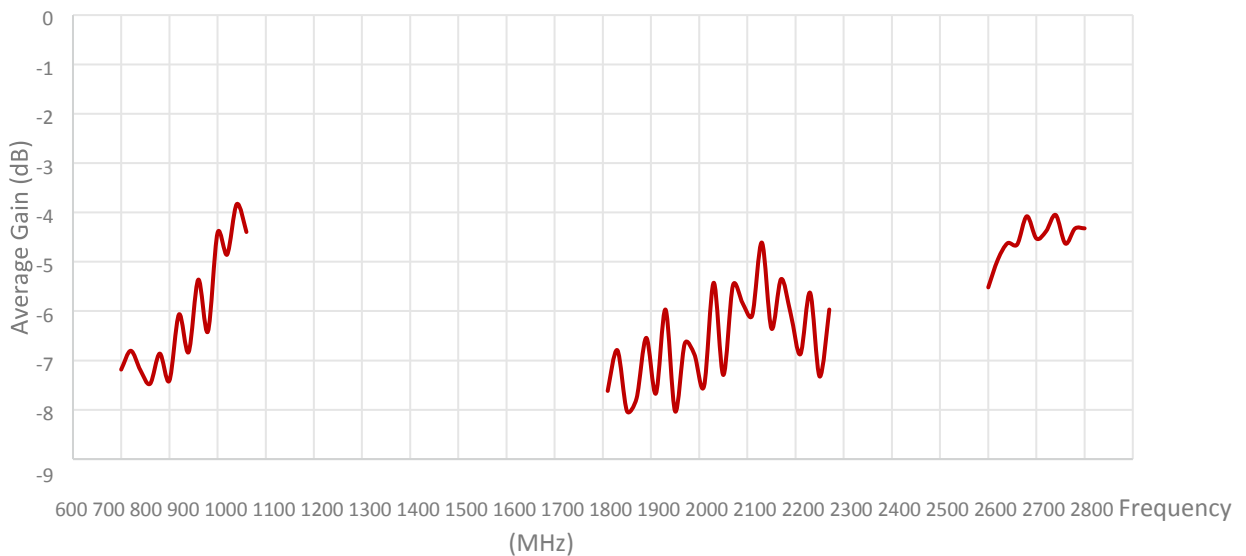
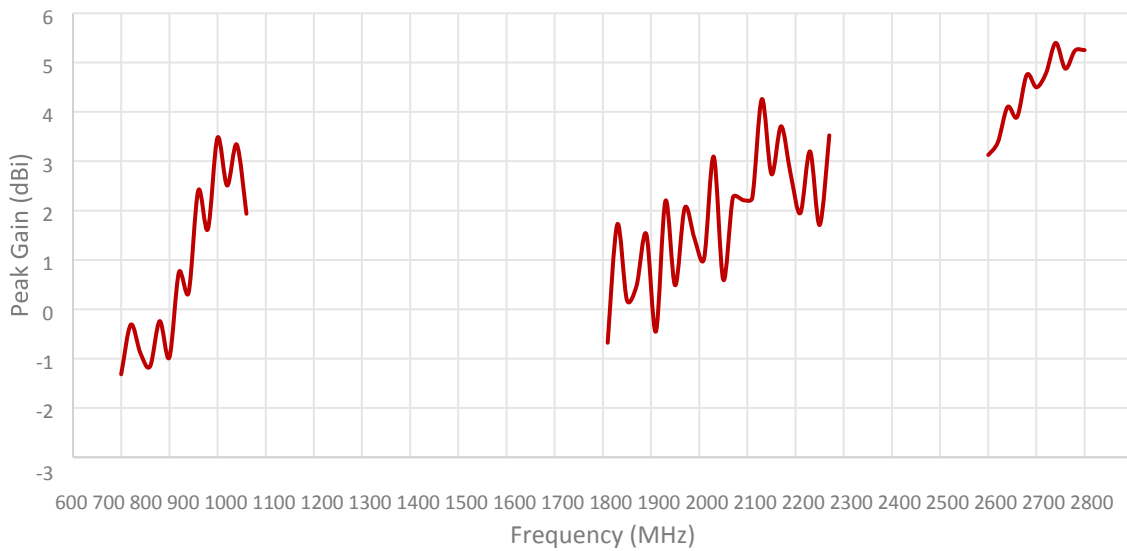
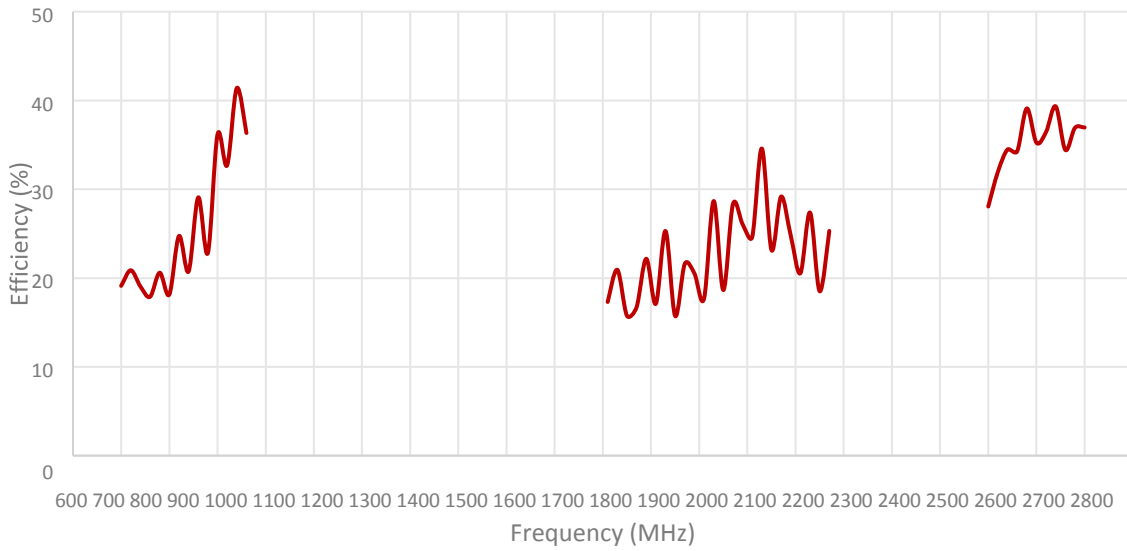


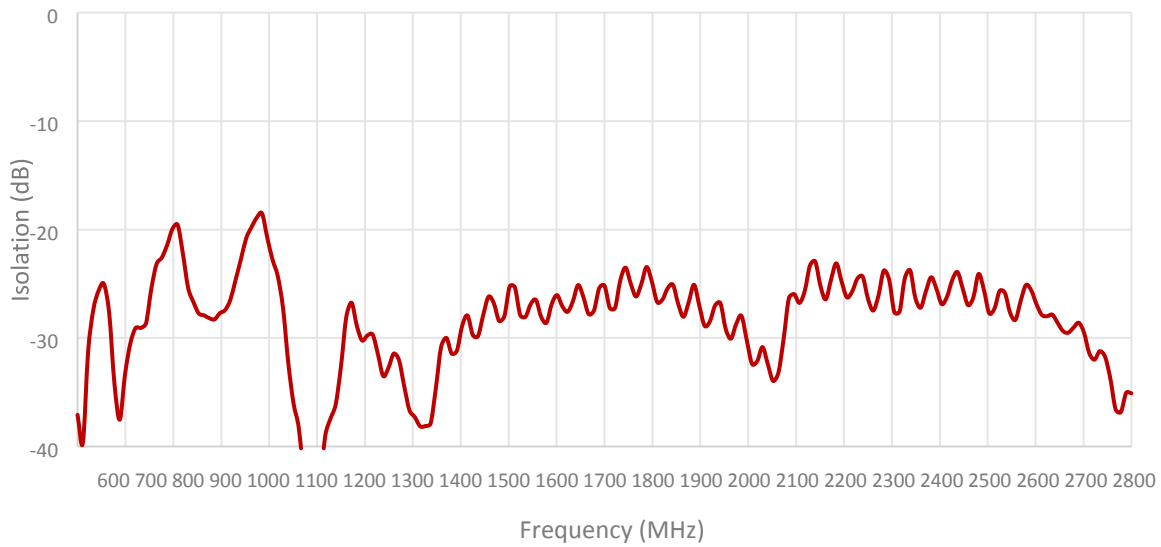
Table 2: CELLULAR/LTE



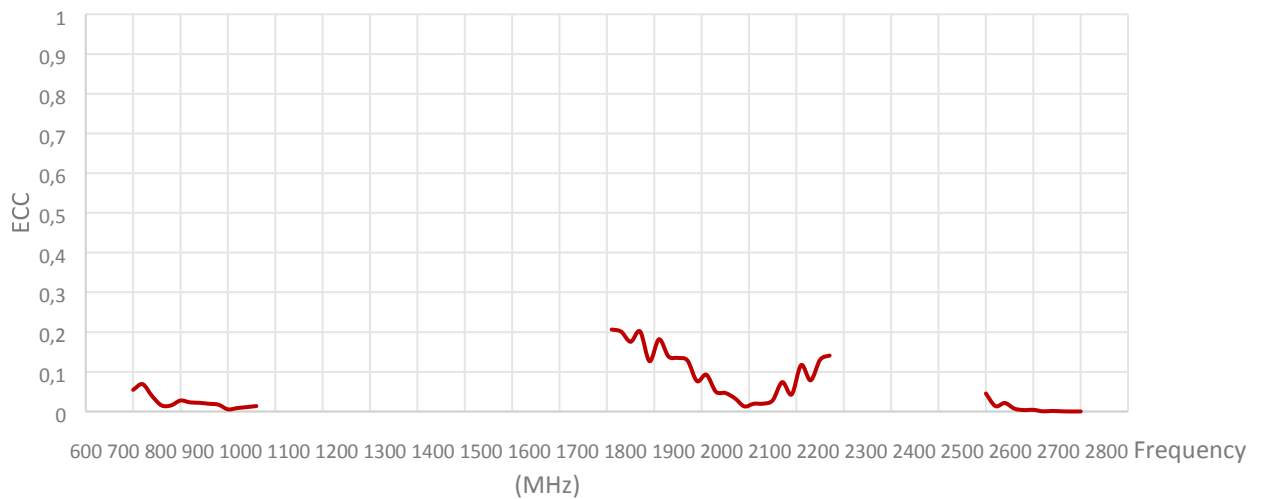
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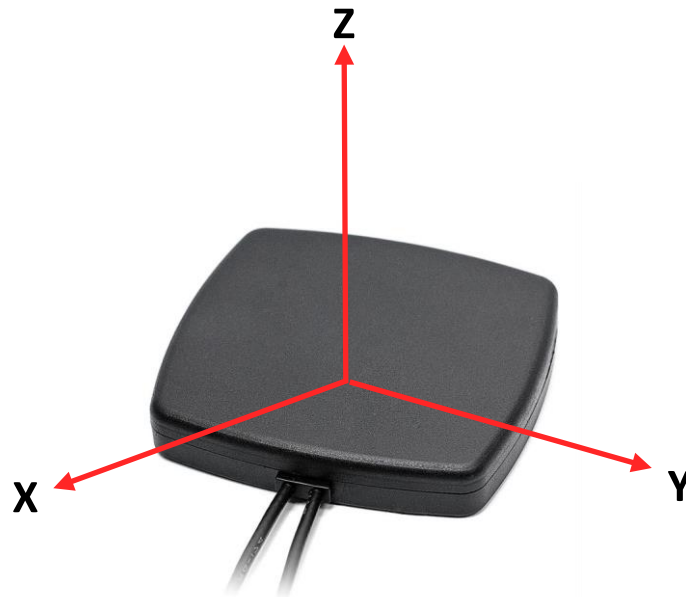
ISOLATION FOR CABLES 1 AND 2



ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2

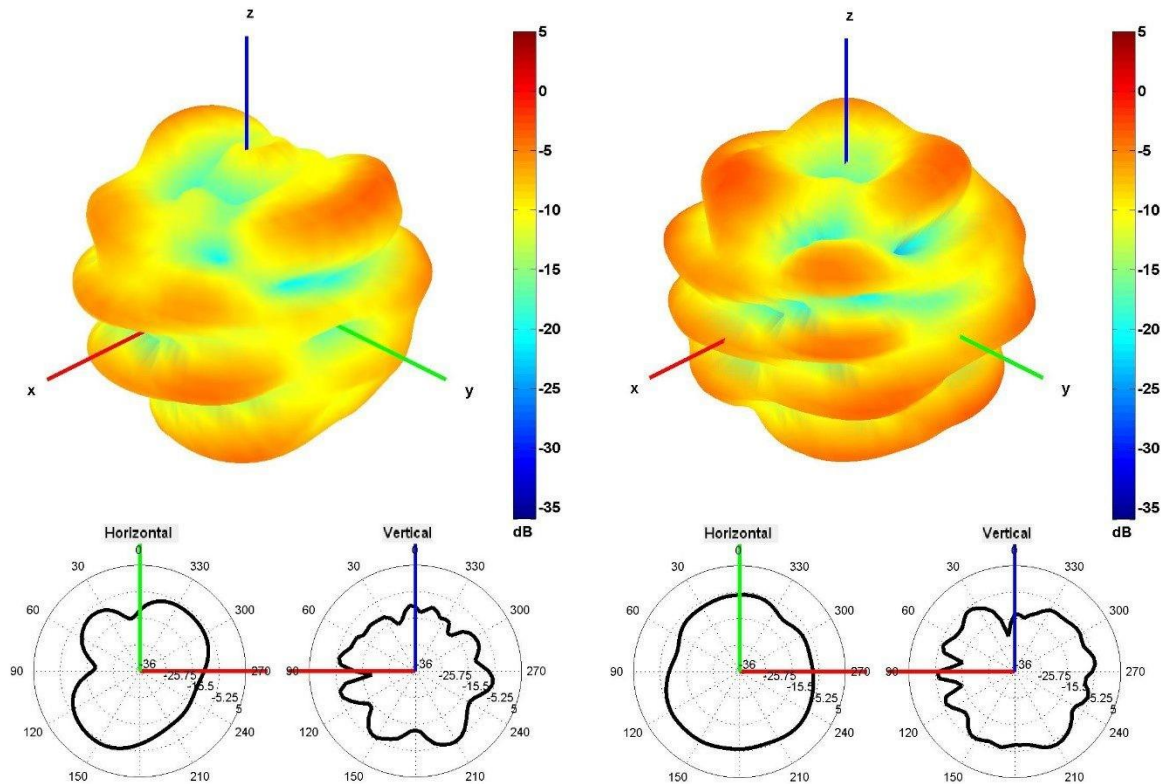


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Radiation pattern reference

Table 1: CELLULAR/LTE



750 and 850 MHz Radiation pattern

m2m Germany GmbH
Am Kappengraben 18
61273 Wehrheim
Steuer-Nr.: 0323998193
UST-IdNr.: DE255404069

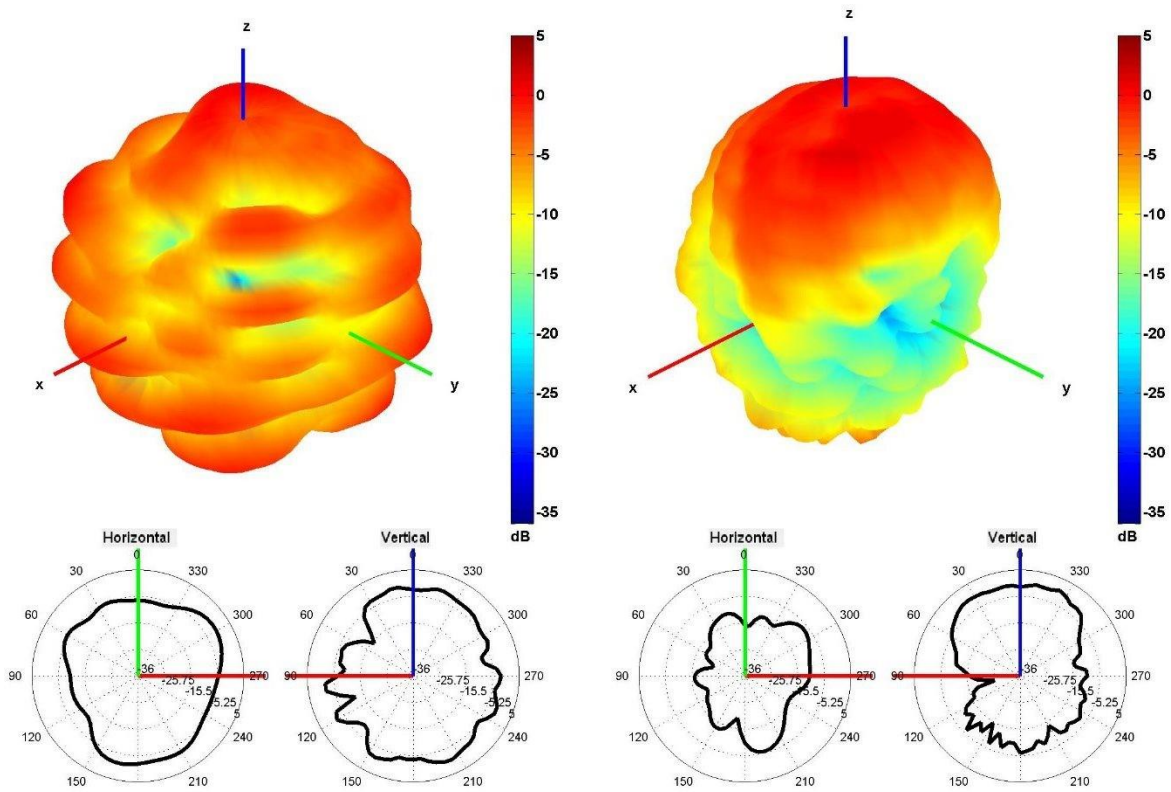
Tel.: +49(6081)587386-0
Fax: +49(6081)587386-9
info@m2mgermany.de
www.m2mgermany.de

Geschäftsführer: Ralf Schoula
Marius Nickolai
Registergericht: HRB 10714 Bad Homburg
WEEE-Reg.-Nr.: DE 25816129

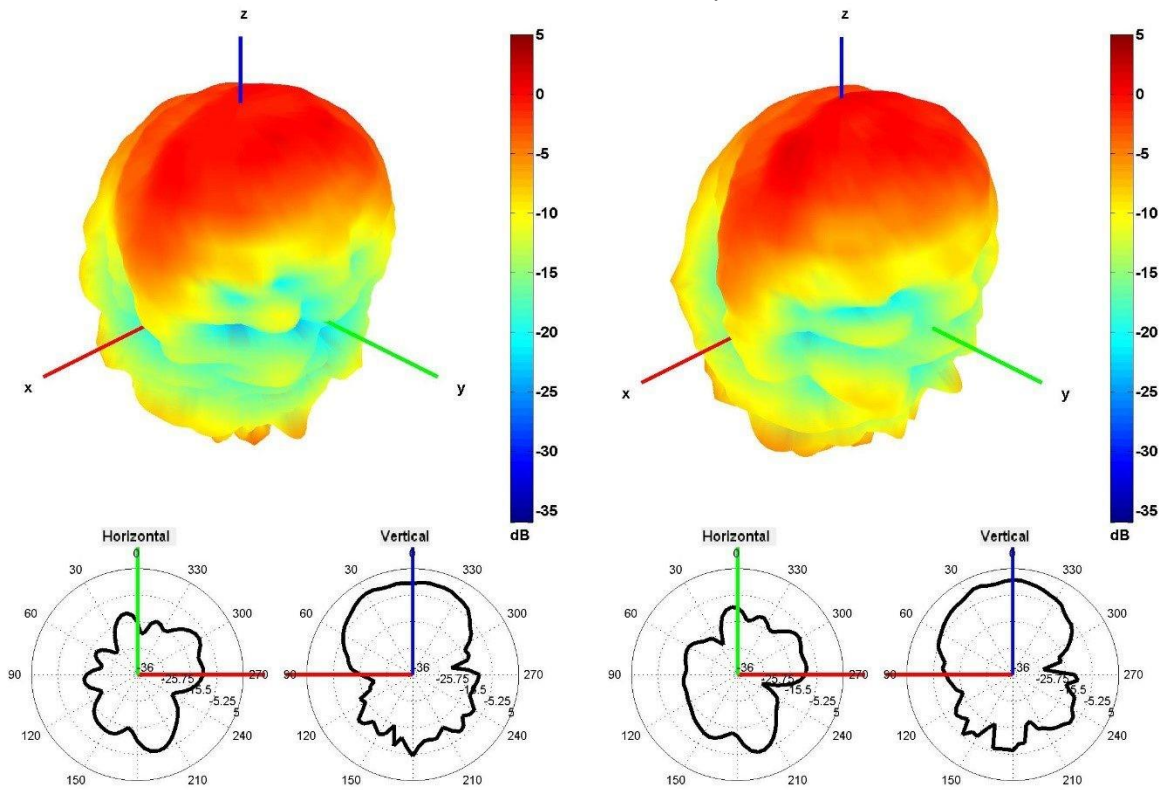
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EURO: IBAN: DE63 5004 0000 0344 9121 00
BIC: COBADEFFXXX
USD: IBAN: DE36 5004 0000 0344 9121 01
BIC: COBADEFFXXX

Bank: Nassauische Sparkasse (Usingen)
EURO: IBAN: DE26 5105 0015 0304 2174 09
SWIFT / BIC-CODE: NASS DE 55 XXX

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940 and 1750 MHz Radiation pattern



1850 and 1950 MHz Radiation pattern

m2m Germany GmbH
Am Kappengraben 18
61273 Wehrheim
Steuer-Nr.: 0323998193
UST-IdNr.: DE255404069

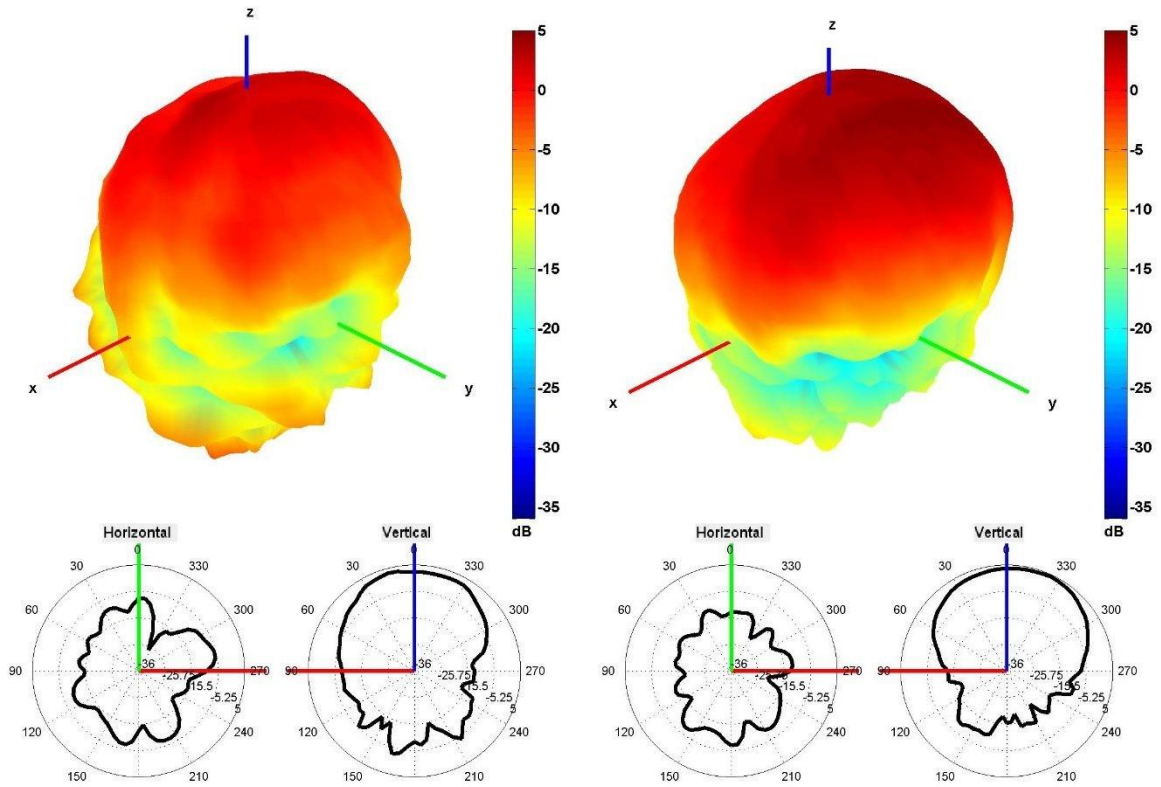
Tel.: +49(6081)587386-0
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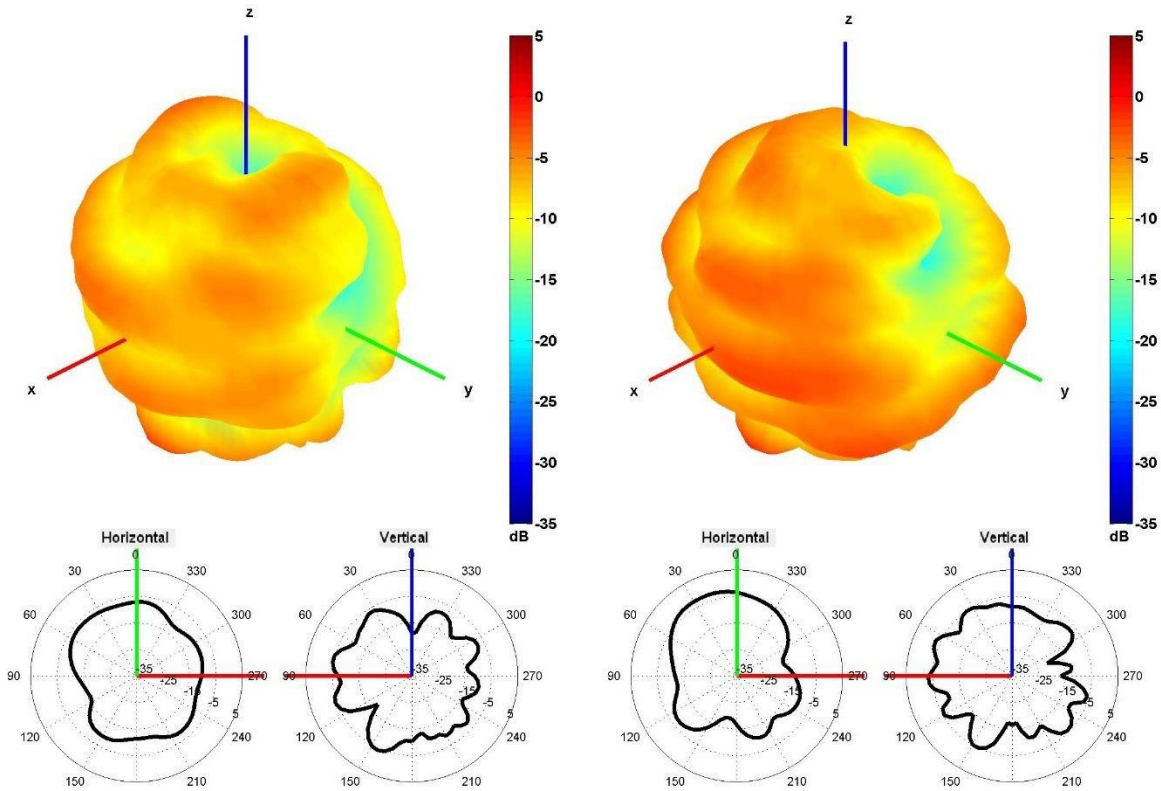
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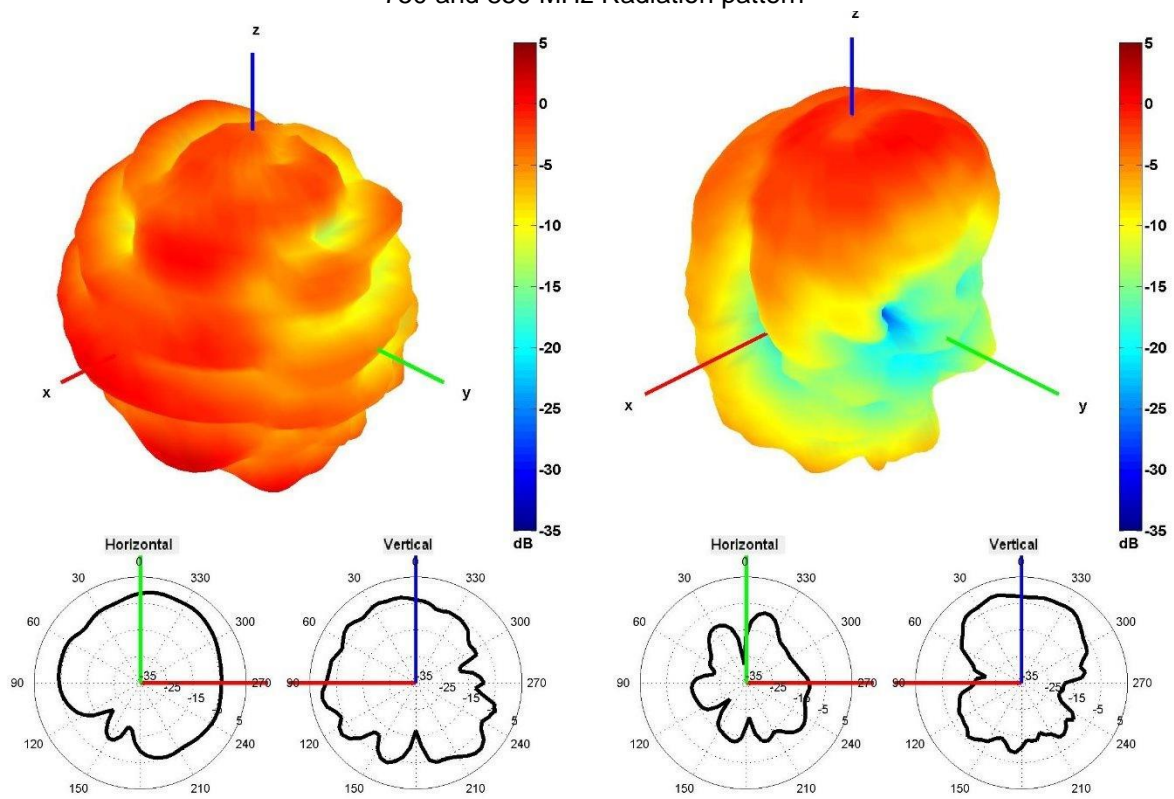


2100 and 2600 MHz Radiation pattern

Table 2: CELLULAR/LTE

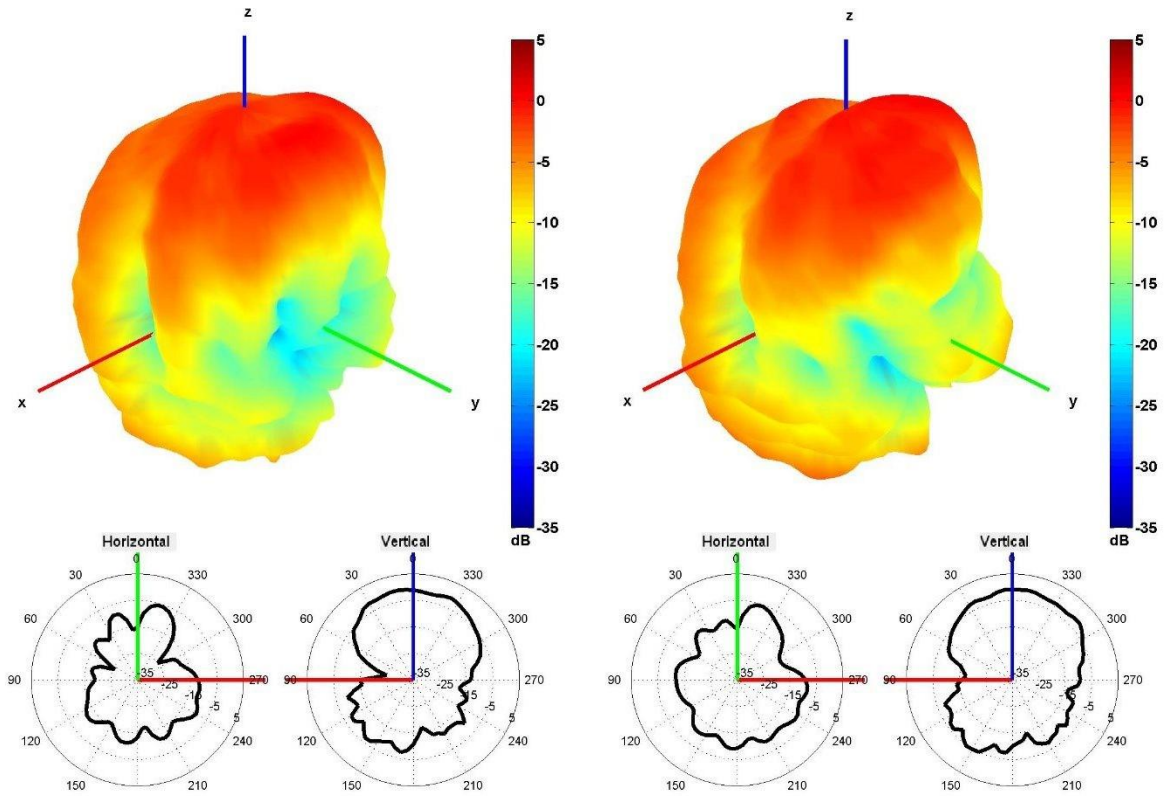


750 and 850 MHz Radiation pattern



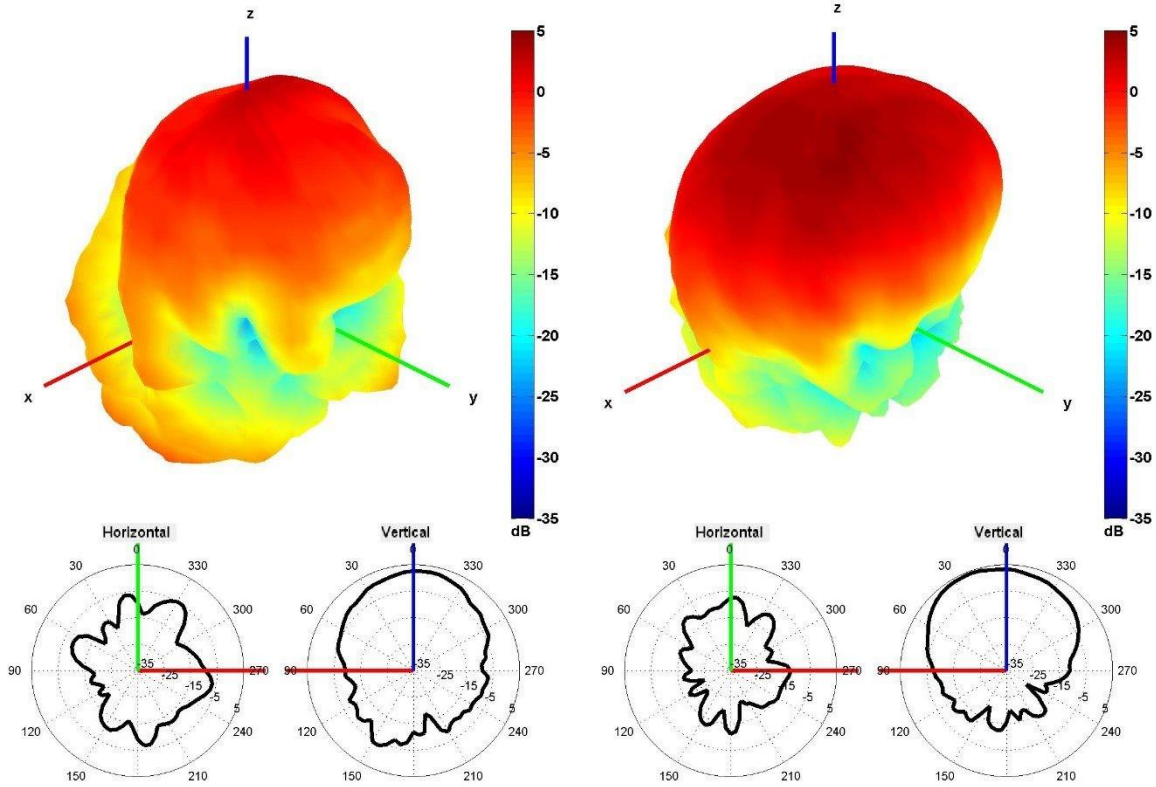
940 and 1750 MHz Radiation pattern

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1850 and 1950 MHz Radiation pattern

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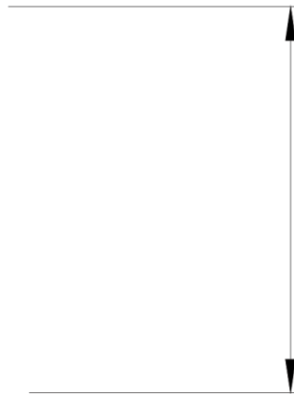
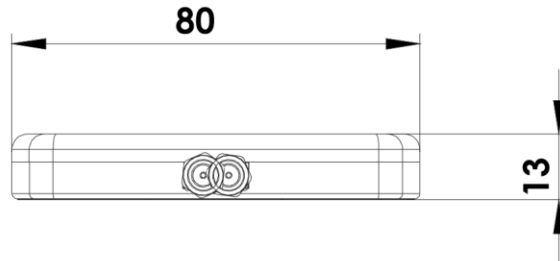


2100 and 2600 MHz Radiation pattern

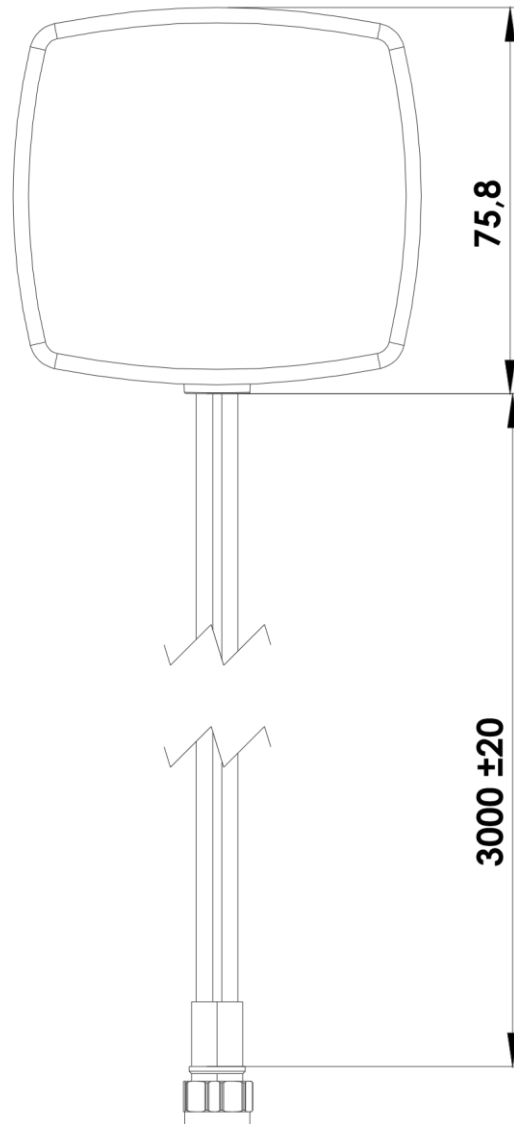
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4. Antenna drawings



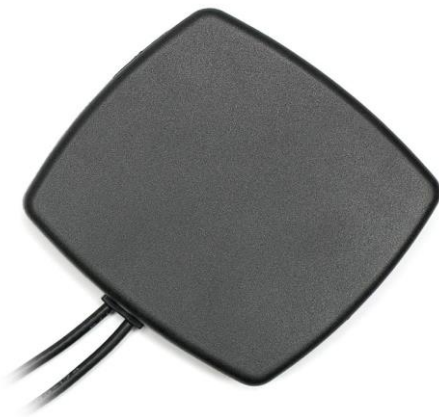
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5. Antenna Images



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