

Antenna 195007



2x 5G NR MIMO, 2.4/5.0/6.0 GHz ISM, GNSS



Technical Data:

Frequency Range	617-960, 1427-2690, 3300-5000, 5150-5925 MHz / 2410-2490, 4920-7125 MHz / 1575-1606 MHz
Nominal Impedance	50 ohm
Polarization	Linear
Mounting	Screw Mount
Cable	3m LL100
Connector	FAKRA-A-(f)-QUAD
Dimensions	Ø 136 × 31.5 mm
Operating temperature	-40 °C to +85 °C
Certificates	IP67 , IP69 , IK09

Antenna and electrical specifications

CONNECTION 1	
5G NR	
Technologies	5G, 4G, 3G and 2G
Standards	5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G
Frequency	617-960, 1427-2690, 3300-5000, 5150-5925
Return Loss (dB)	~-6.5, ~-11.2, ~-14.5, ~-15.7
VSWR	~3.0:1, ~1.9:1, ~1.5:1, ~1.5:1
Efficiency (%)	~20.0, ~18.7, ~15.5, ~10.9
Peak Gain (dBi)	~-3.6, ~-2.1, ~-1.7, ~-5.8
Impedance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25

CONNECTION 2	
5G NR	
Technologies	5G, 4G, 3G and 2G
Standards	5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G
Frequency	617-960, 1427-2690, 3300-5000, 5150-5925
Return Loss (dB)	~-6.4, ~-11.3, ~-14.7, ~-15.5
VSWR	~3.0:1, ~1.9:1, ~1.5:1, ~1.5:1
Efficiency (%)	~18.3, ~16.6, ~12.6, ~10.1
Peak Gain (dBi)	~-3.9, ~-2.4, ~-2.2, ~-6.7
Impedance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25

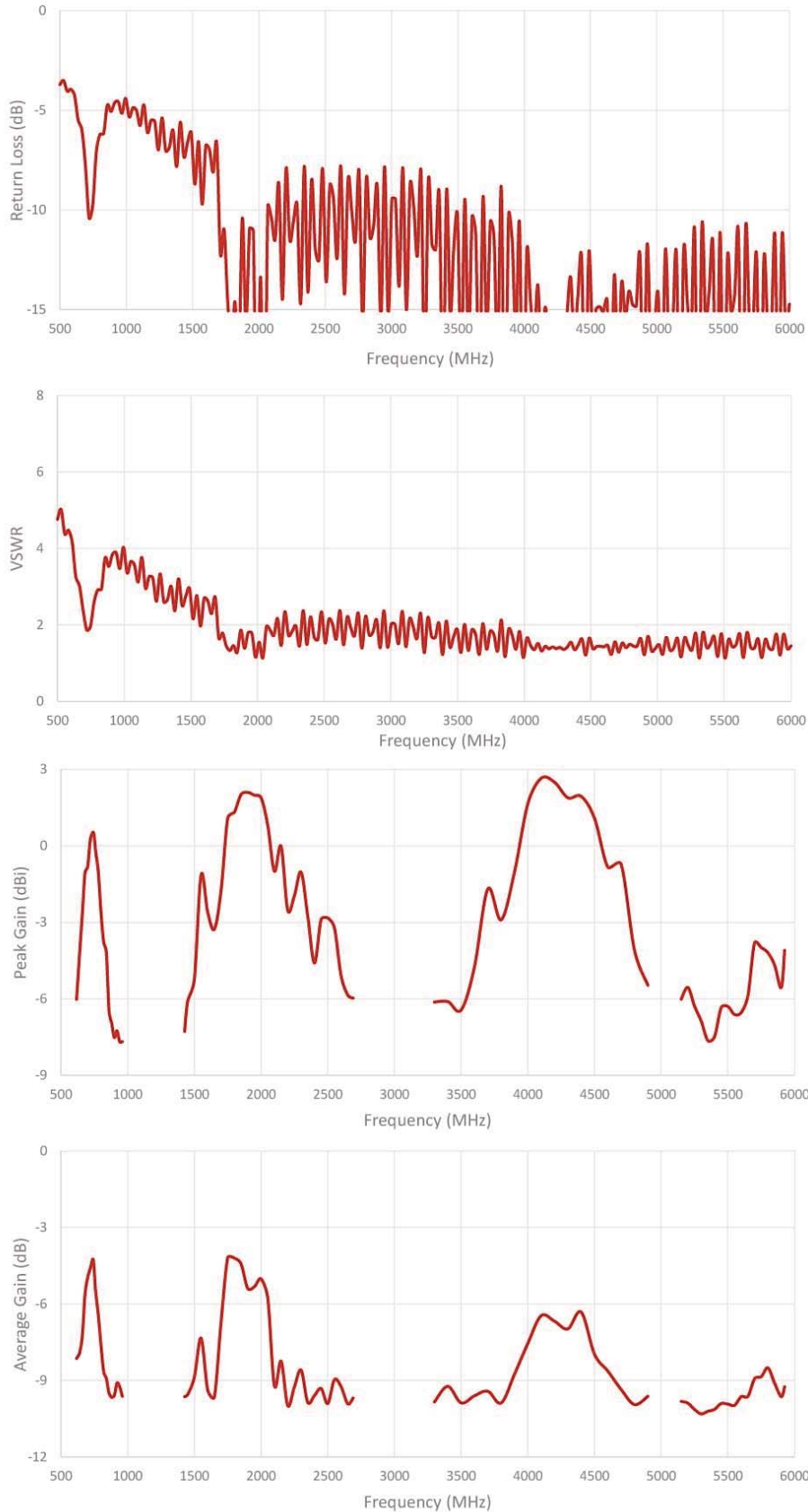
CONNECTION 3	
2.4 / 5.0 / 6.0 GHz / ISM	
Standards	WiFi, Bluetooth® ZigBee, ISM, SigFox, LoRa
Frequency	2410-2490, 4920-5925, 5925-7125
VSWR	~1.8:1, ~2.6:1, ~2.0:1
Efficiency (%)	~51.1, ~18.3, ~9.4
Peak Gain (dBi)	~-4.0, ~-0.8, ~-6.6
Impedance (Ohm)	50
Polarisation	Linear
Max. Input Power (W)	25

CONNECTION 4	
GPS / GLONASS	
Standards	GPS/GLONASS/QZSS/Galileo
Frequency	1575.42, 1598-1610
VSWR	<=1.4:1
Impedance (Ohm)	50
Polarisation	RHCP
Radiation Pattern	Hemispherical
Voltage Range (V)	1.5 - 3.6
Active Gain (dB)	28 @ 2.7 V
Noise Figure (dB)	1.5 @ 2.7 V
Current Consumption (mA)	9 @ 2.7 V
Saw Filter Type	Pre-Filter
ESD Protection (kV)	2

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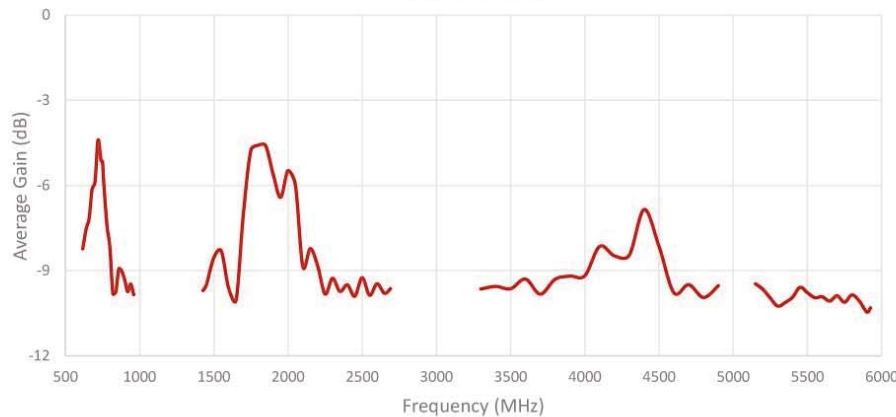
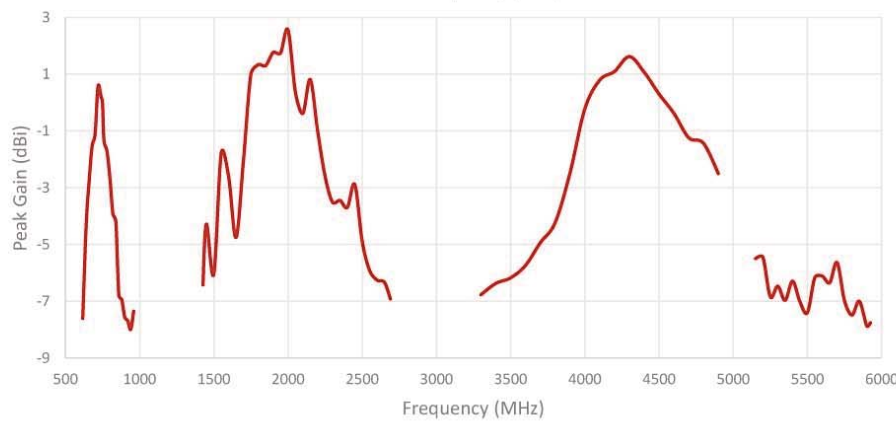
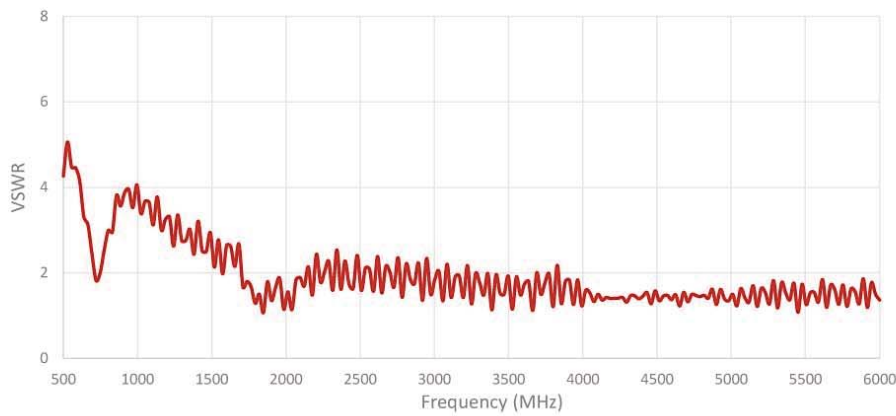
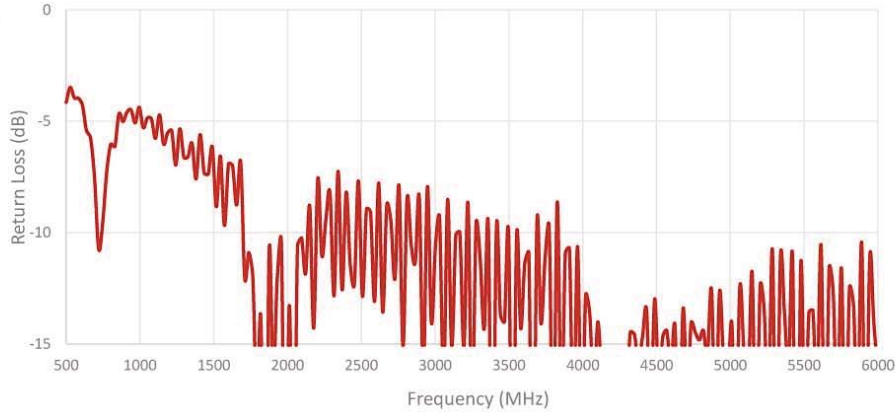
Cable 1: 5GNR



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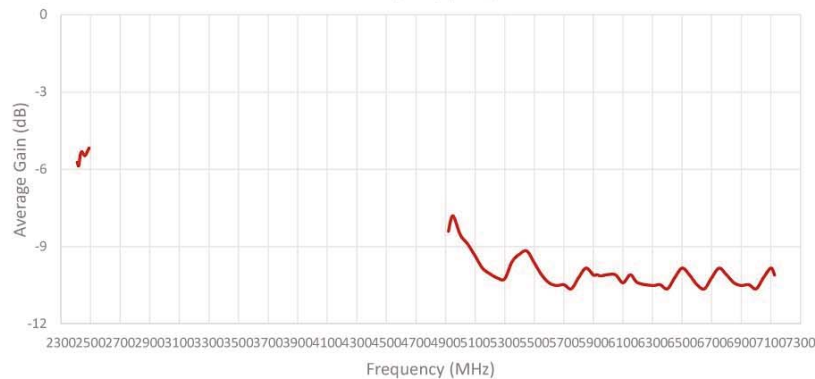
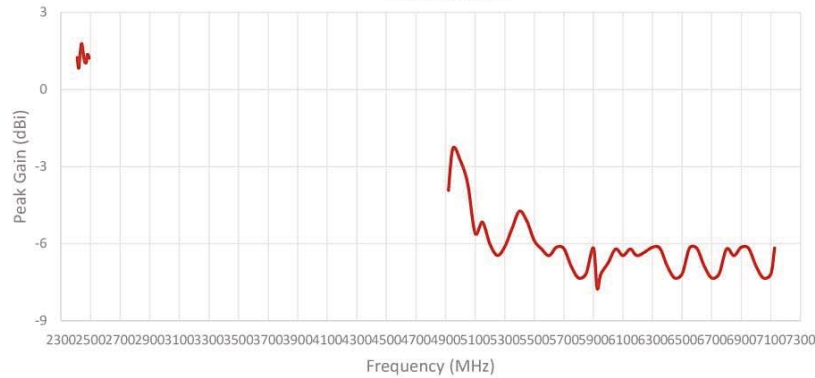
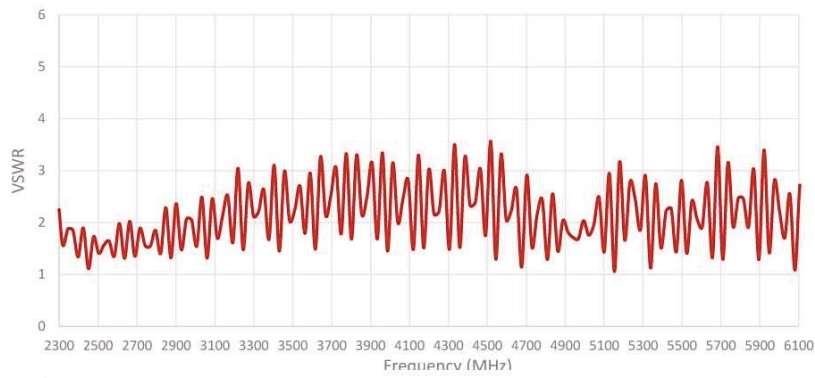
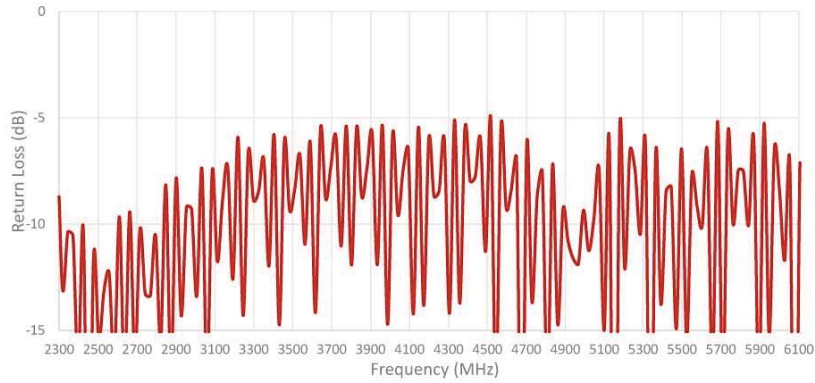
Cable 2: 5GNR



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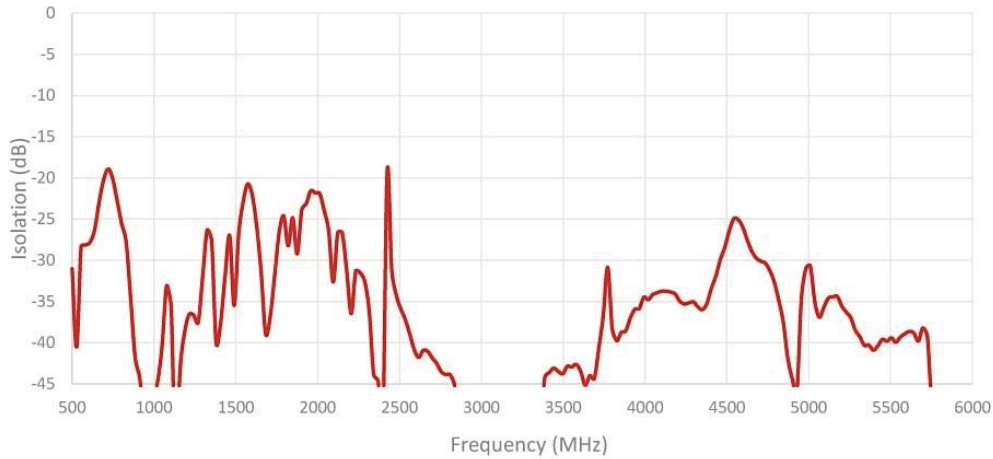
Cable 3: 2.4/5.0/6.0 GHz ISM



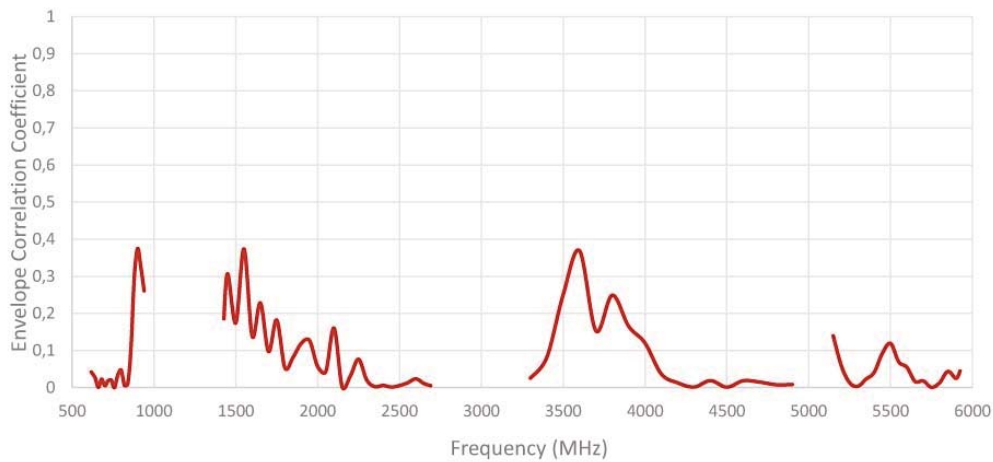
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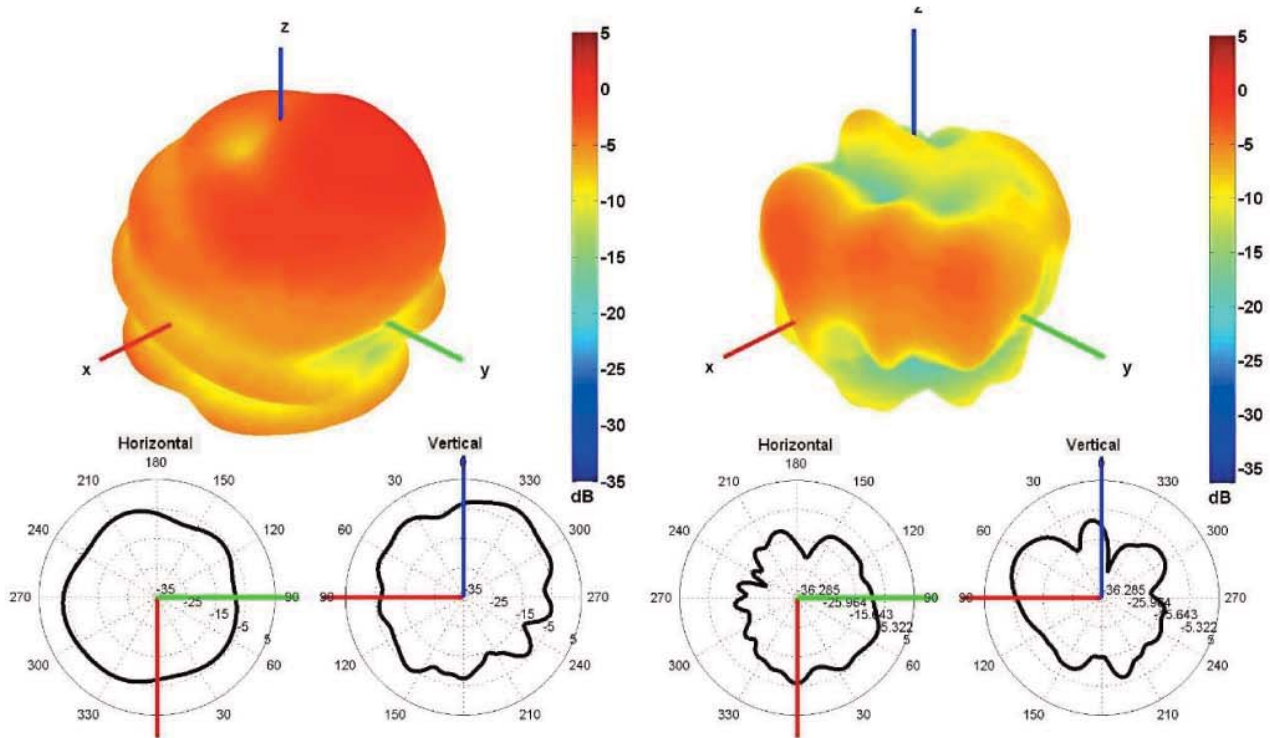
ISOLATION FOR CABLES 1 AND 2



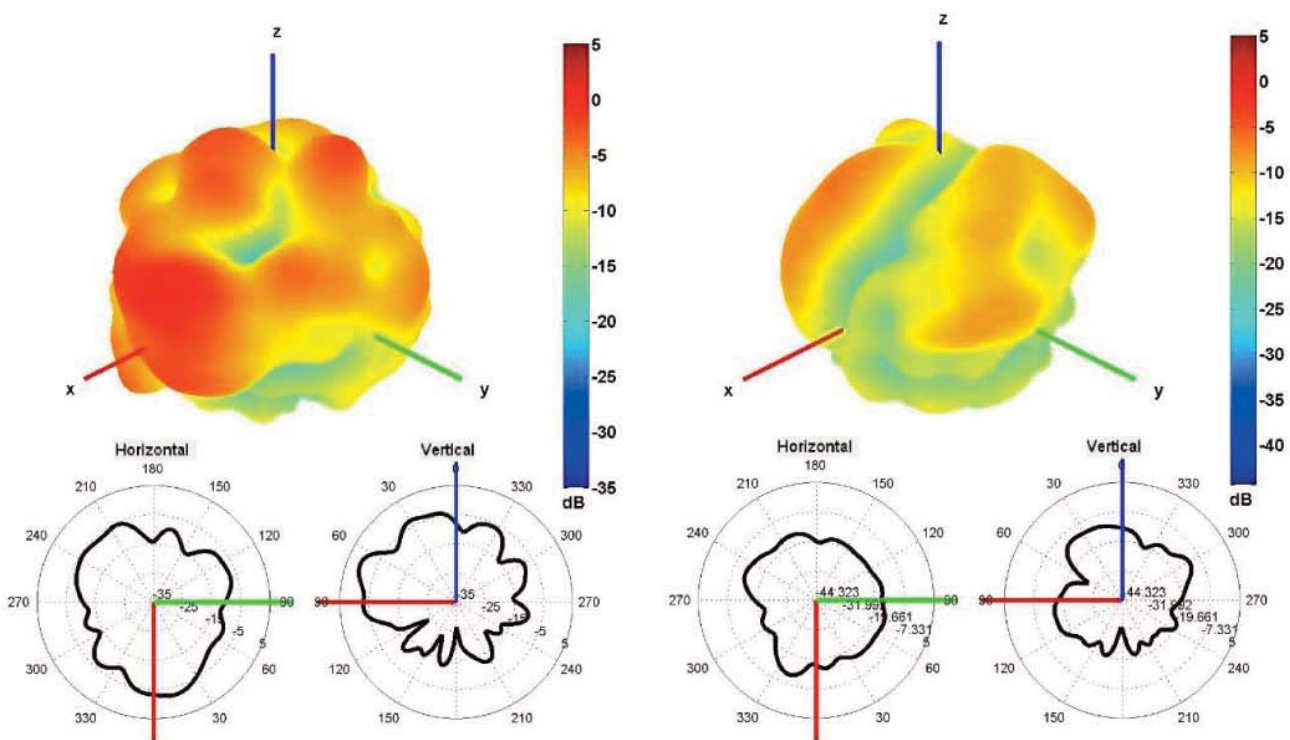
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2



Cable 1: 5GNR

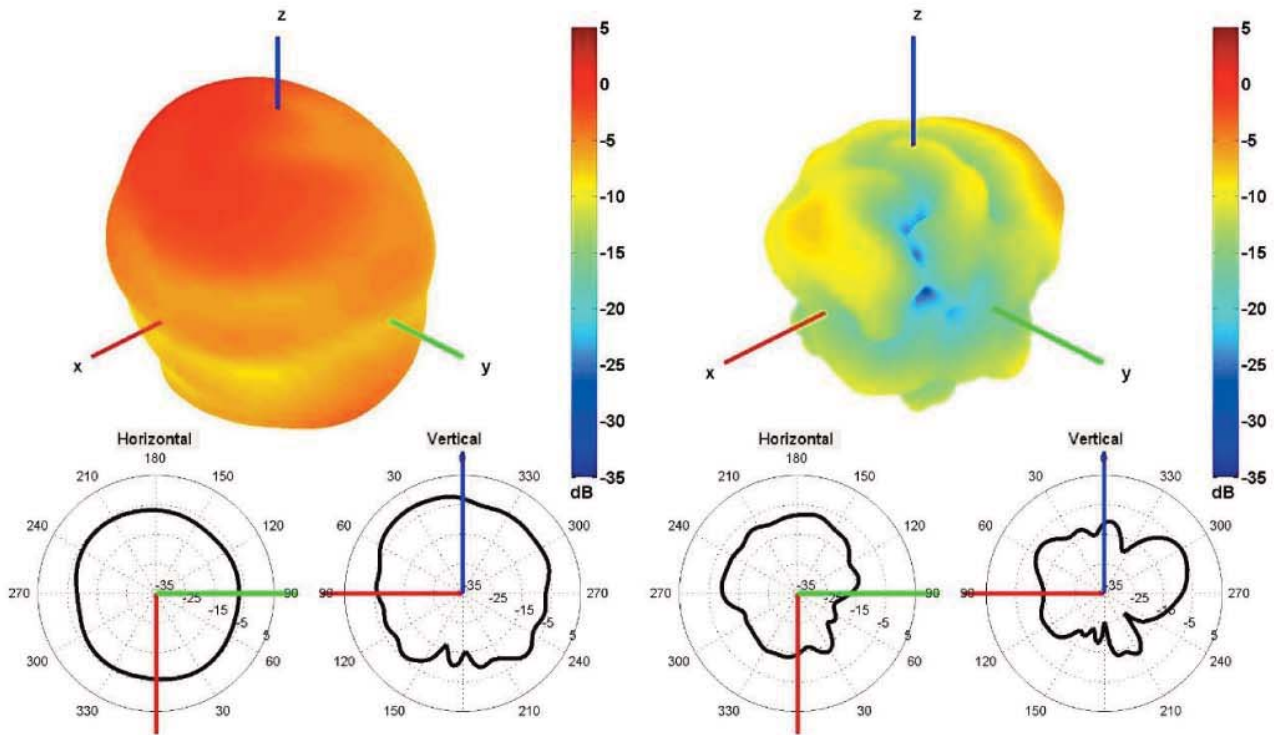


740 and 2500 MHz Radiation pattern

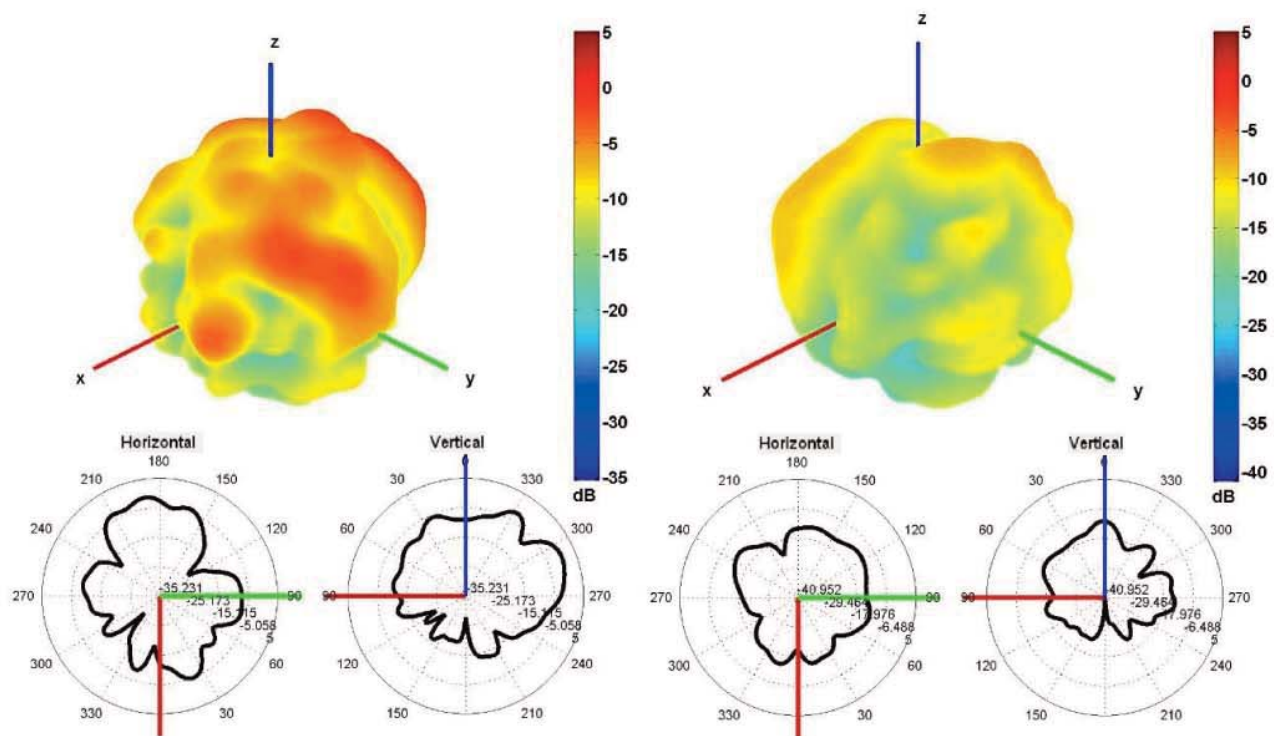


4500 and 5500 MHz Radiation pattern

Cable 2: 5GNR



740 and 2500 MHz Radiation pattern

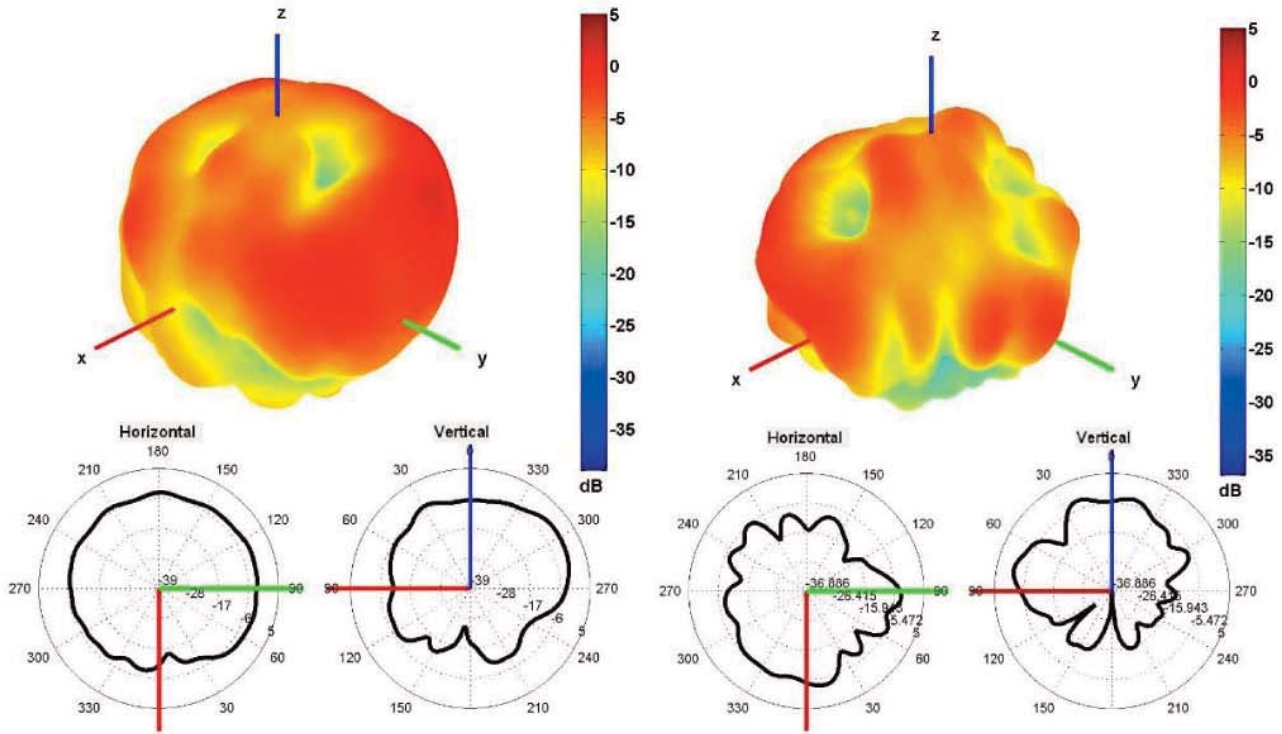


4500 and 5500 MHz Radiation pattern

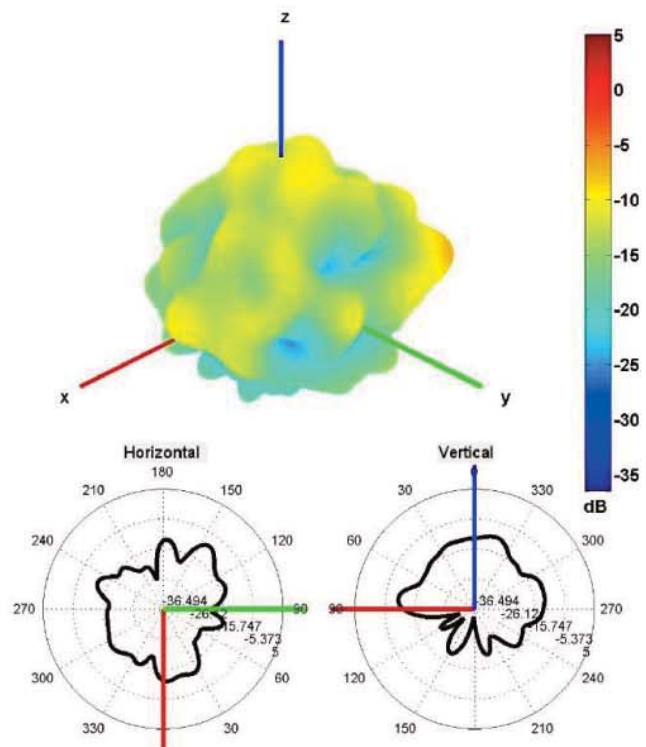
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Table 3: 2.4/5.0/6.0 GHz ISM

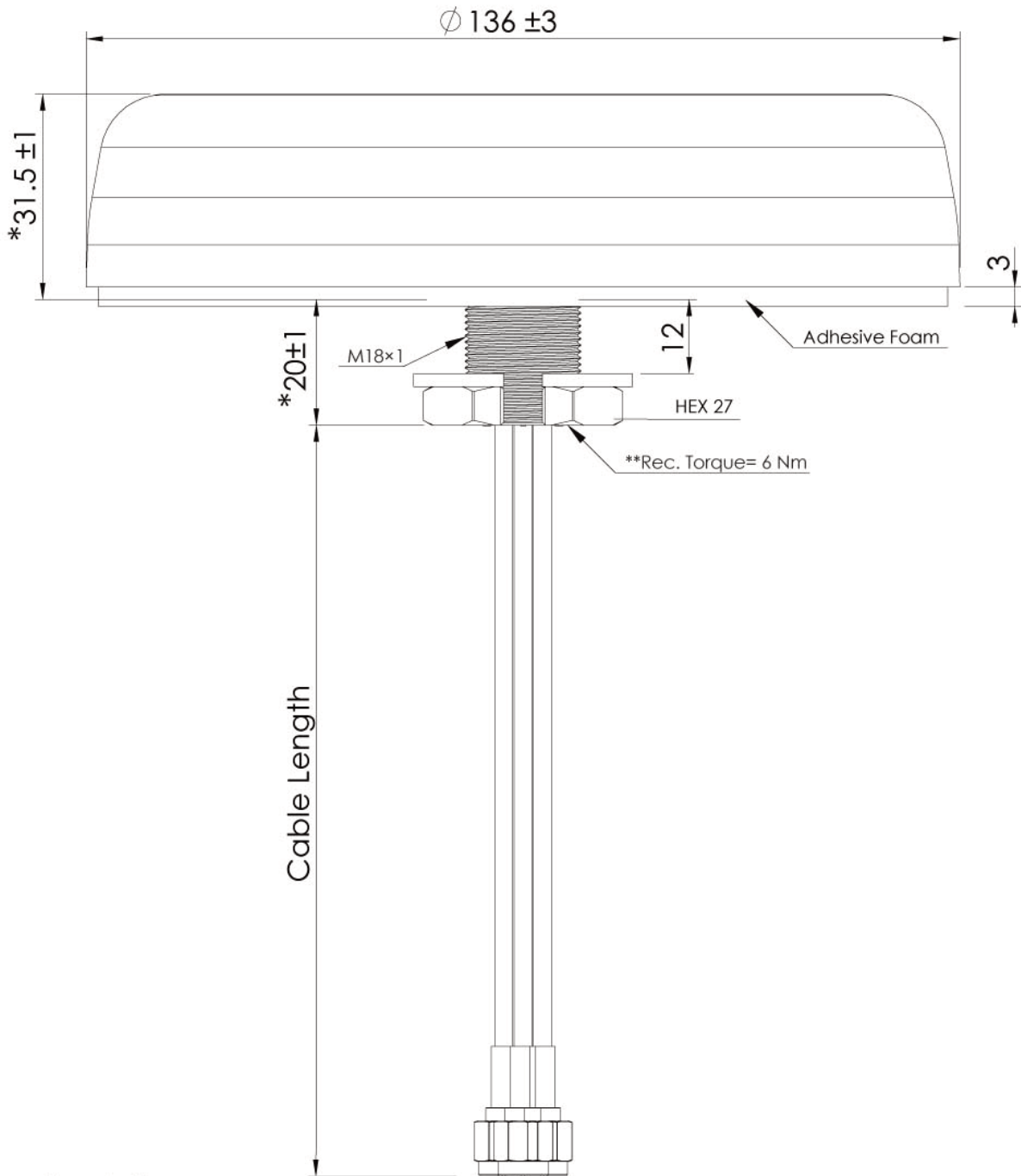


2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

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Max. mounting thickness 12mm
Note: Dimensions are in millimeters
*Dimensions are after mounting
**Recommended Torque= 6 Nm