RF MISO
RF Microwave Solution

Planar Spiral Antenna
2 dBi Typ. Gain, 2-18 GHz Frequency Range

Planar Spiral Antenna Data Sheet RM-PSA218-2R

Features

- Ideal for airborne or ground applications
- Low VSWR
- R-H Circular Polarization
- With Radome

Descriptions

RF MISO's **Model RM-PSA218-2R** is a right-handed circularly planar spiral antenna that operates from 2-18GHz. The antenna offers a gain 2 dBi Typ. and low VSWR 1.5:1 with SMA-KFD connector. It designed for EMC, reconnaissance, orientation, remote sensing, and flush mounted vehicle applications. These helical antennas can be used as separate antenna components or as feeders for reflector satellite antennas.

Specifications

Parameters	Typical		Units
Frequency Range	2-18		GHz
Gain	2 Typ.		dBi
VSWR	1.5 Typ.		
Polarization	R-H Circular Polarization		
Connector	SMA-Female		
3dB Beamwidth	E-Plane:57.2~96.7	H-Plane:57.2~96.7	deg
Material	Al		
Finishing	Paint Black		
Size	Φ63*56.4(L*W*H)		mm
Antenna Cover	Yes		
Waterproof	Yes		
Weight	0.176		Kg
Power Handling	CW: 5	Peak:100	W

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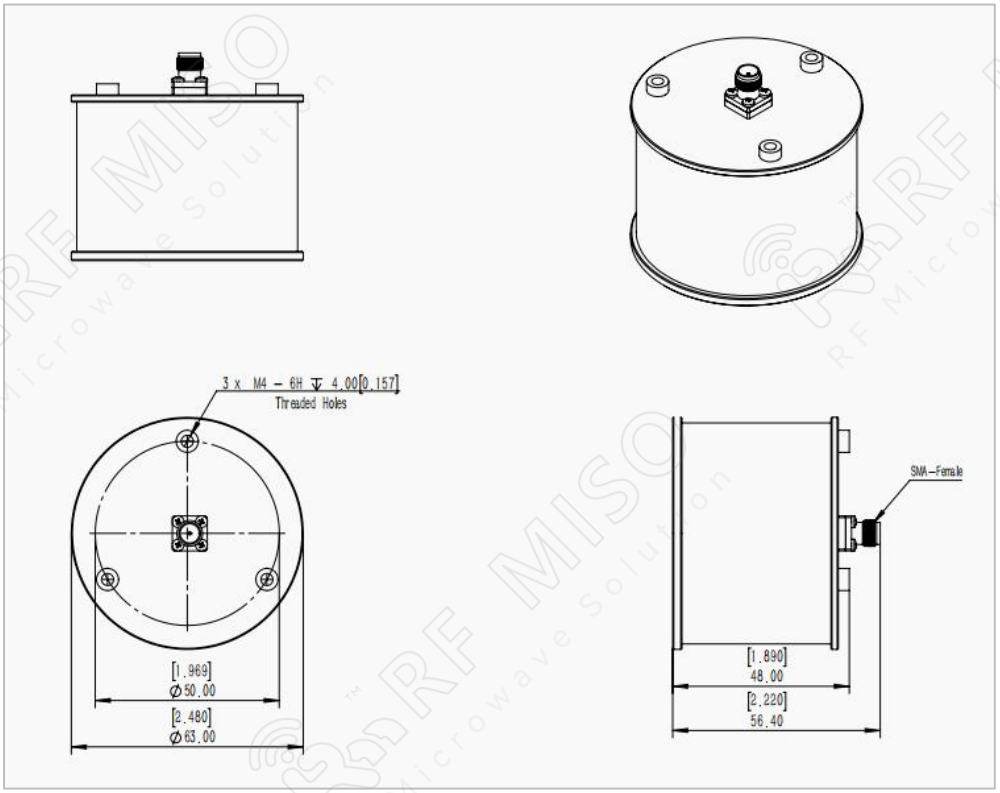
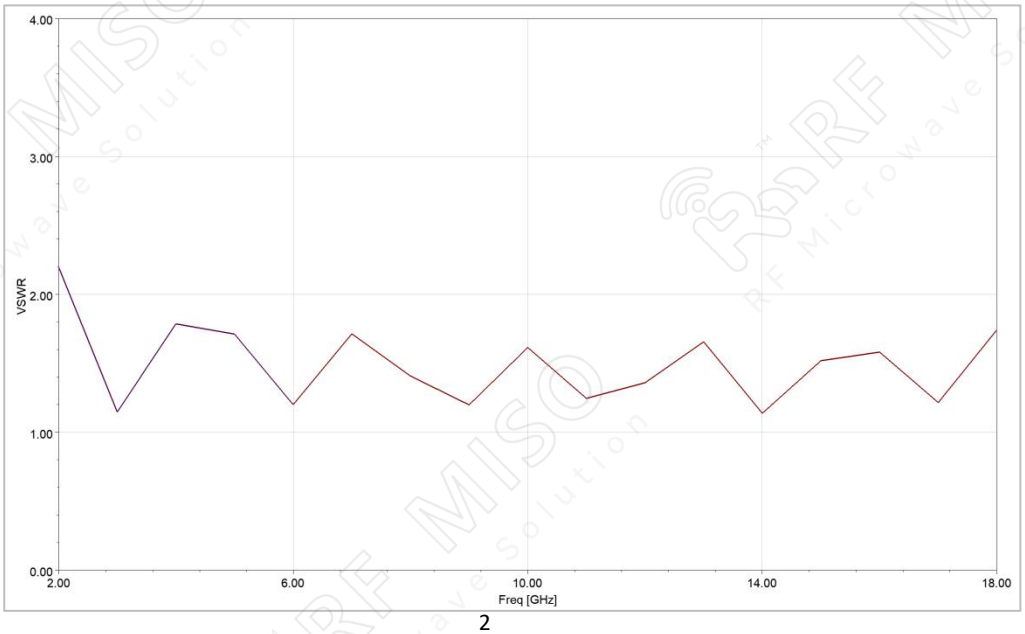
Outline Drawing



Simulation Data

VSWR



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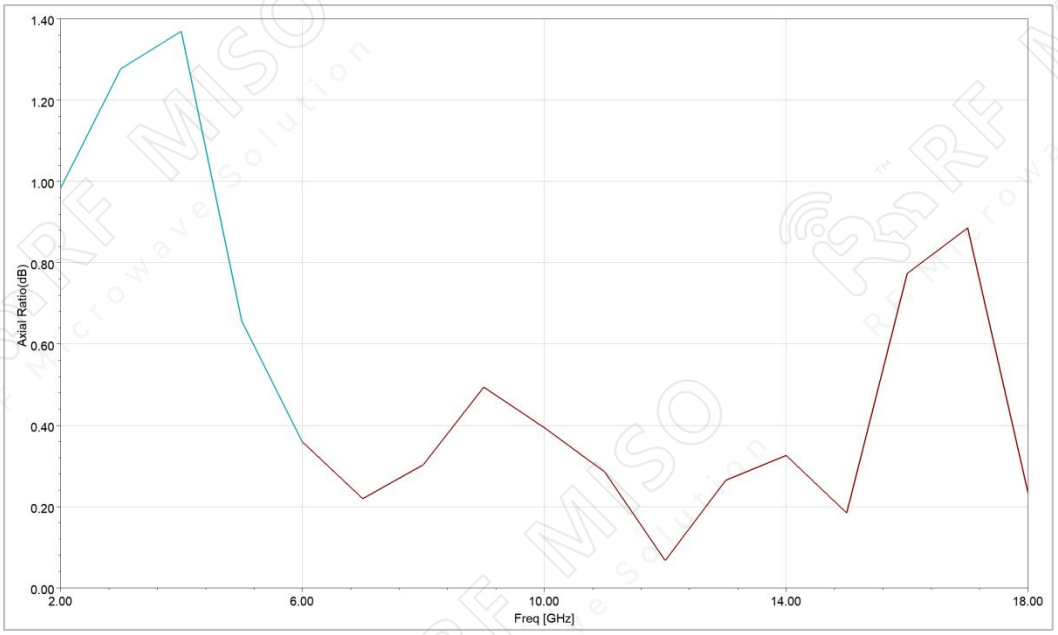
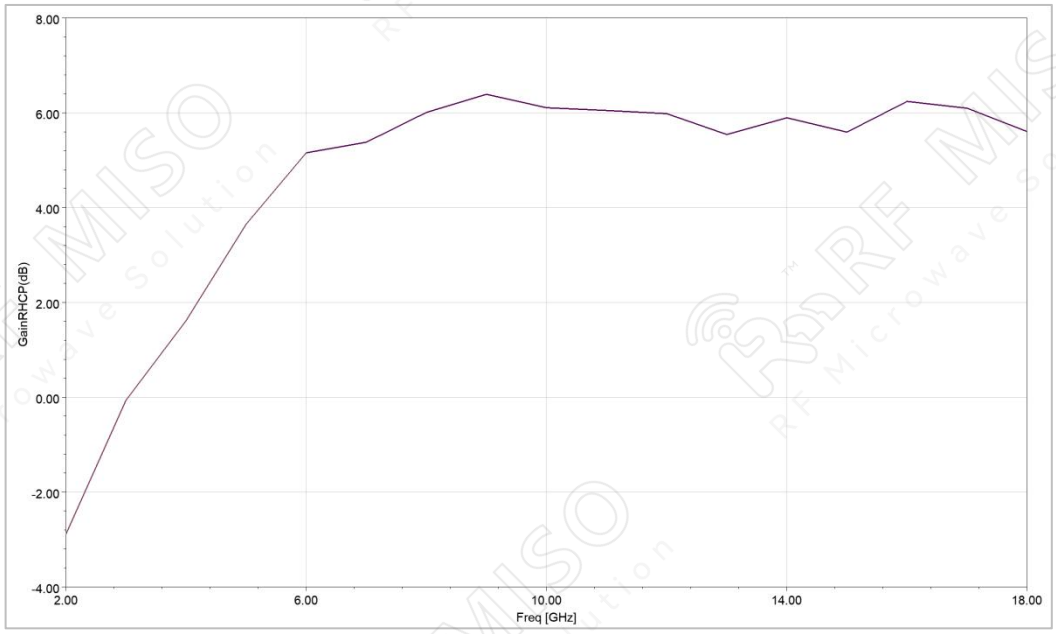
Axial Ratio



Gain RHCP



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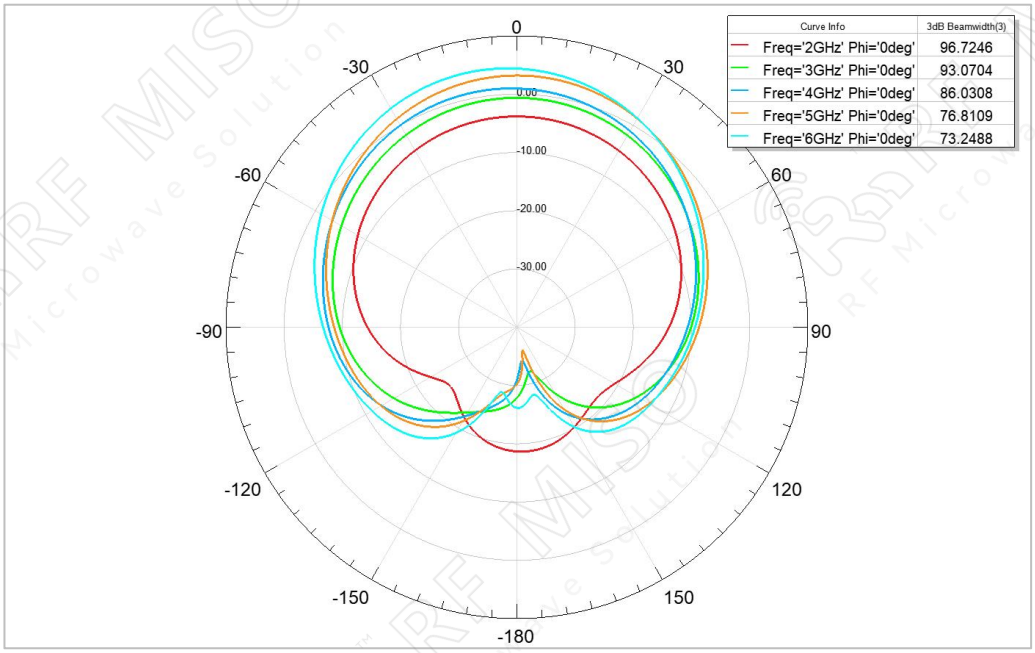
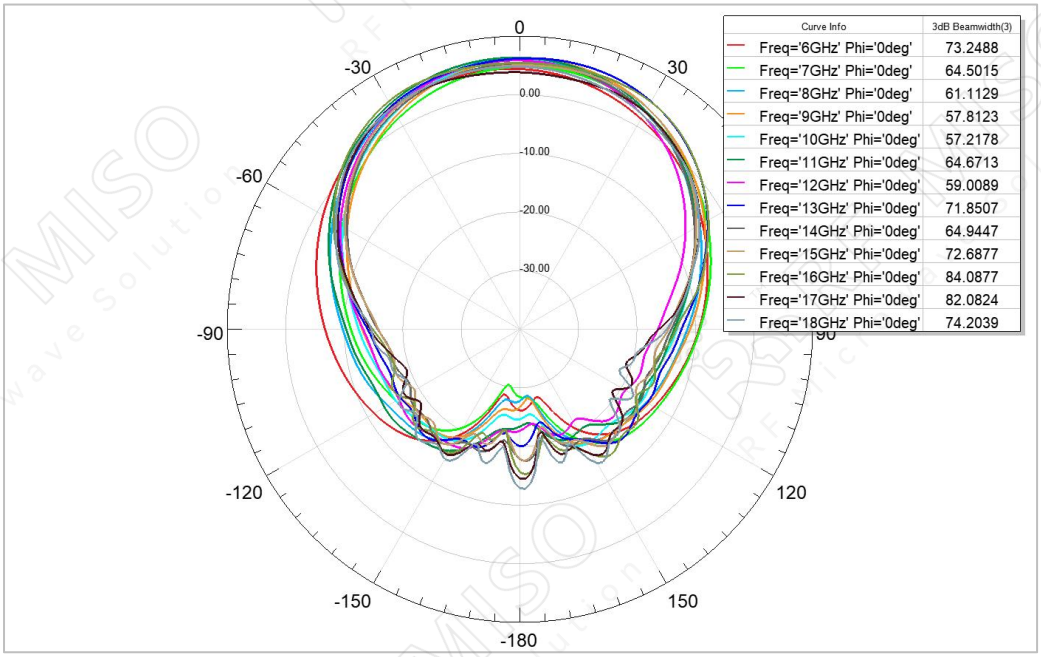
3dB Beamwidth

2-6GHz



6-18GHz



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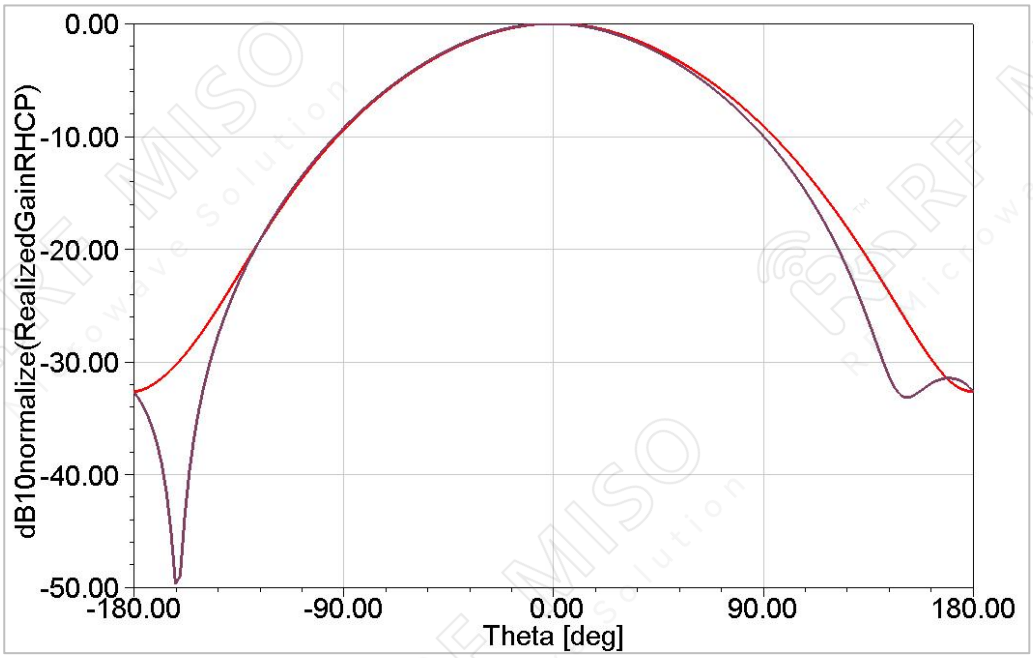
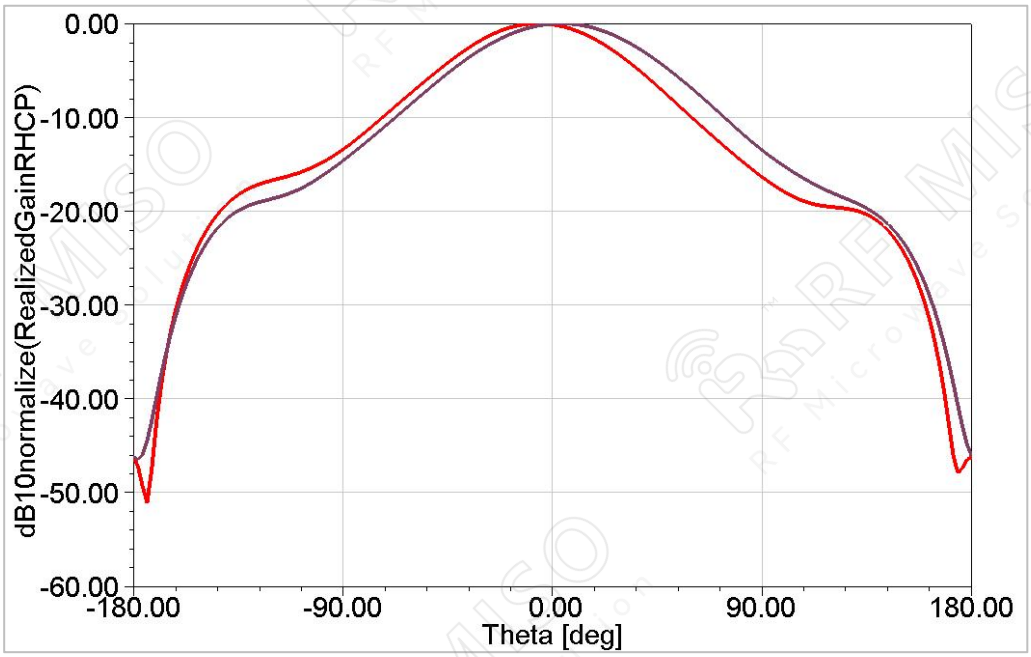
2GHz:



6GHz:



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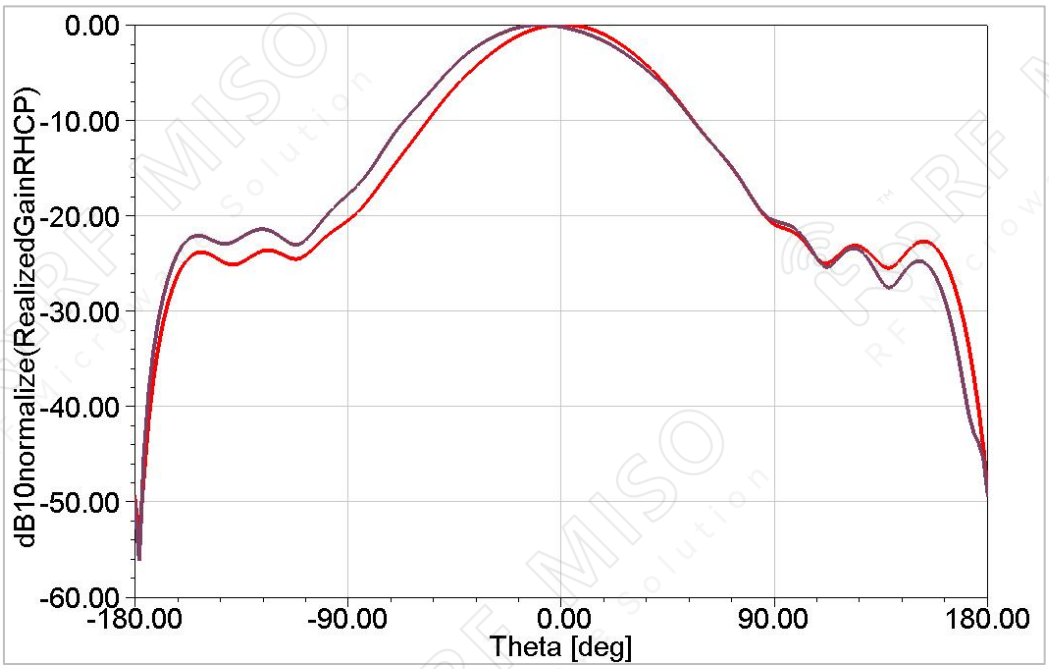
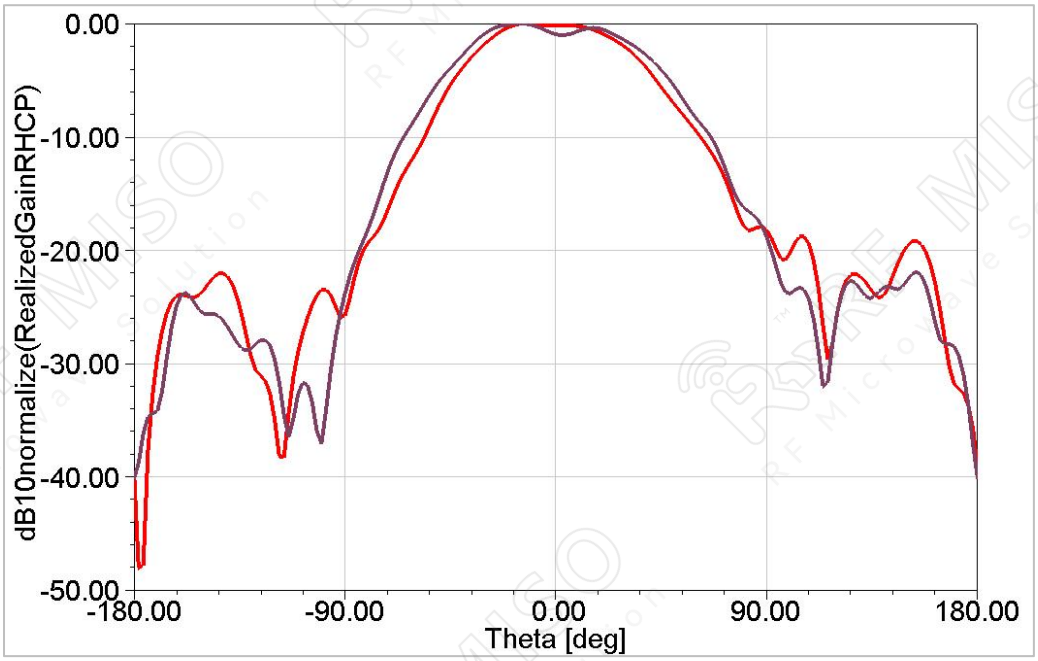
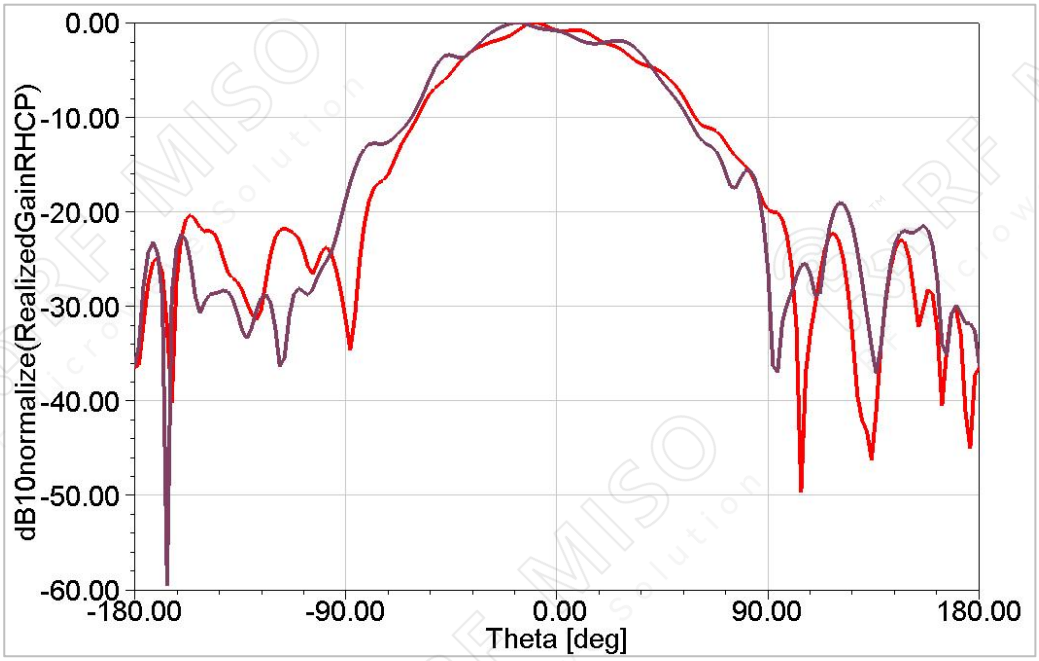
10GHz:


0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
dB10normalize(RealizedGainRHCP)
-180.00
-90.00
0.00
90.00
180.00
Theta [deg]

14GHz:


0.00
-10.00
-20.00
-30.00
-40.00
-50.00
dB10normalize(RealizedGainRHCP)
-180.00
-90.00
0.00
90.00
180.00
Theta [deg]

18GHz:



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