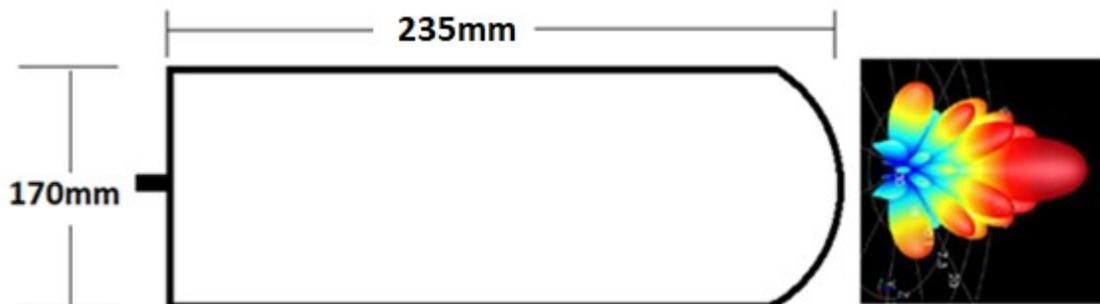




ANTENNA (ENDFIRE TYPE) (0.4 GHz - 6GHz FREQUENCY BAND)
PART NO. TE-ANT-400-600-170-235-11-22-ver3.0

S.No	Parameter	Description
1	Frequency	0.4GHz-6GHz
2	Gain	>2.15dBi @0.4GHz >5.2dBi@1GHz >9.0dBi@2GHz >10.5dBi@3GHz >11.1dBi @4GHz >11.4dBi@5GHz >11.5dBi@6GHz
3	Beam width	130 deg (AZ)x 50 deg(EI) @ 0.4GHz 50 deg (Az) x 40 deg (EI) @ 3GHz 35 deg (Az) X 40deg (EI) @5GHz 30deg (Az) x 30 deg (EI)@6GHz
4	Size	170mm x 235mmx1.6mm
5	Polarization	Linear
6	Connector (Optional)	SMA
7	Impedance	50 Ohm
8	Radiation	ENDFIRE
9	Antenna Type	Vivaldi



Antenna radiation pattern

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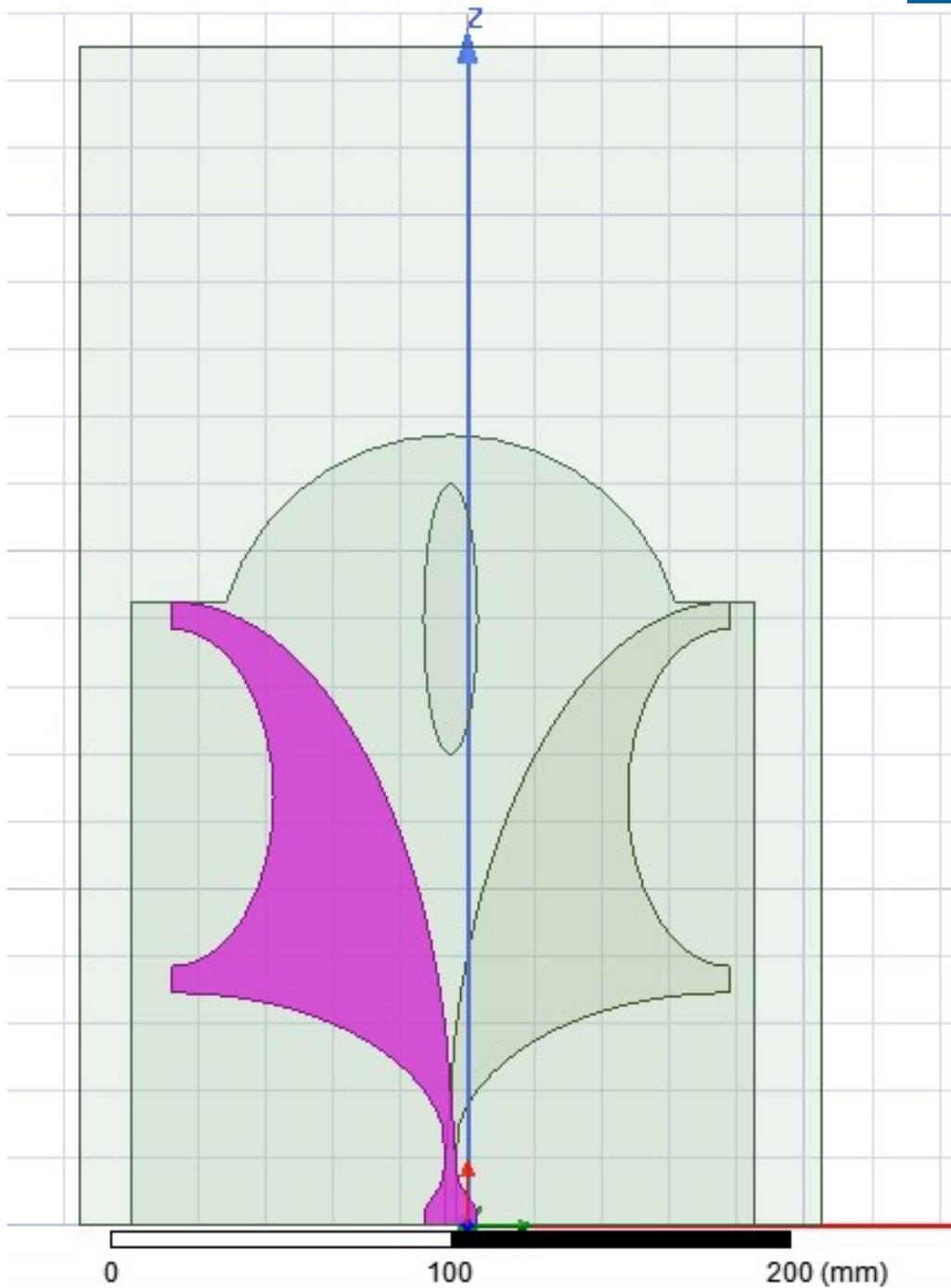


Fig.1 Simulated Antenna Model

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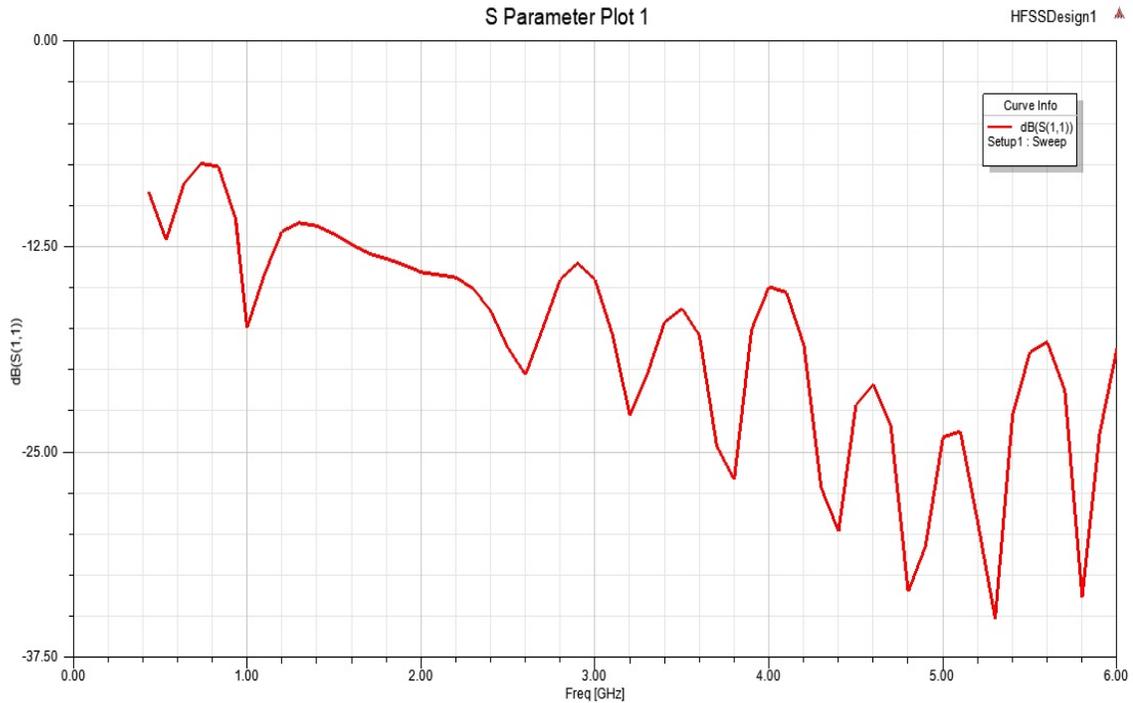


Fig2. Simulated return loss of the antenna

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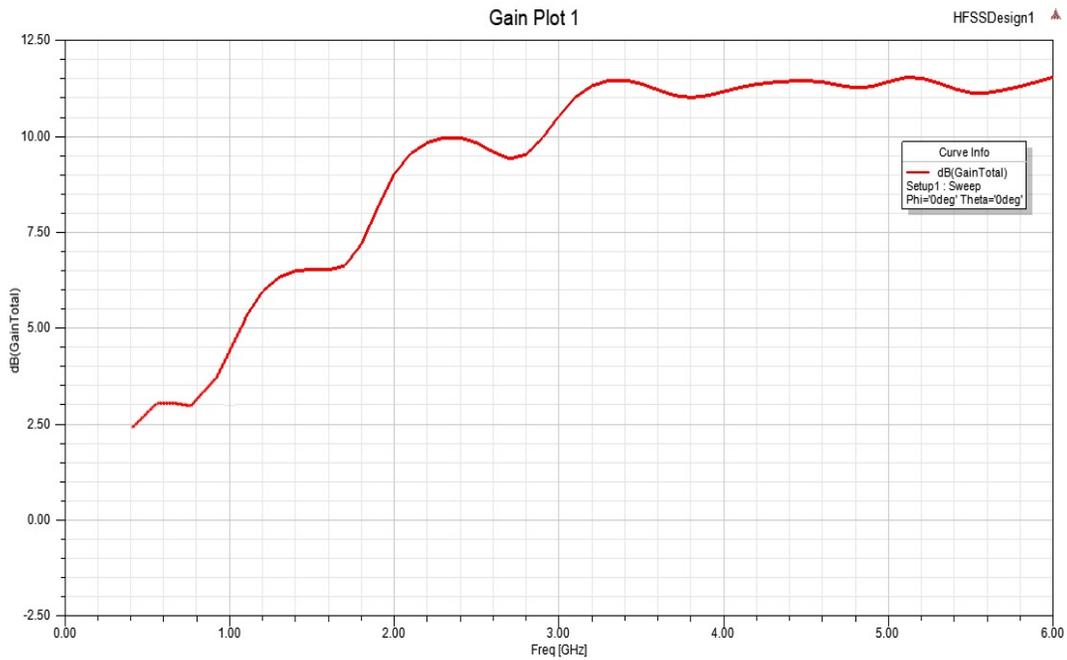


Fig3. Simulated Gain plot of the antenna

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Azimuth Radiation-Patterns

Name	Theta	Ang	Mag
m1	0.0000	0.0000	2.1520
m2	65.0000	65.0000	-0.5860
m3	-68.0000	-68.0000	-0.9784

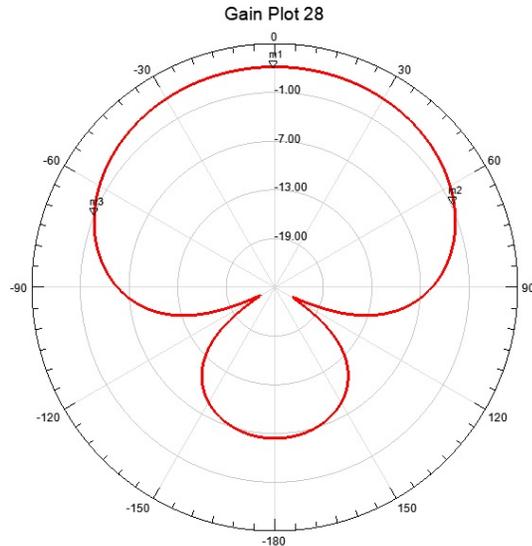


Fig4. Simulated Radiation pattern of the antenna @0.4GHz

Name	Theta	Ang	Mag
m1	1.0000	1.0000	5.2960
m2	64.0000	64.0000	2.5222
m3	-64.0000	-64.0000	2.1095

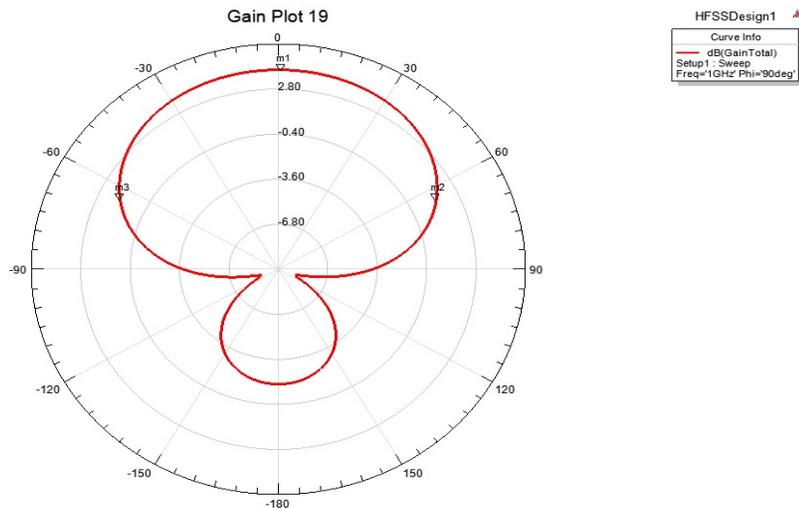


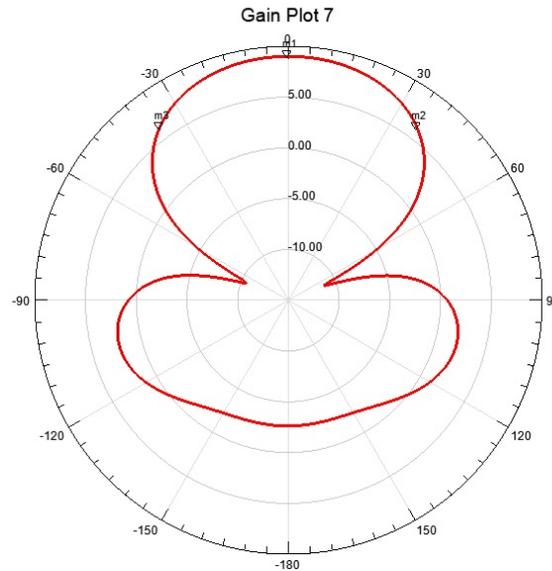
Fig5. Simulated Radiation pattern of the antenna @1.0GHz

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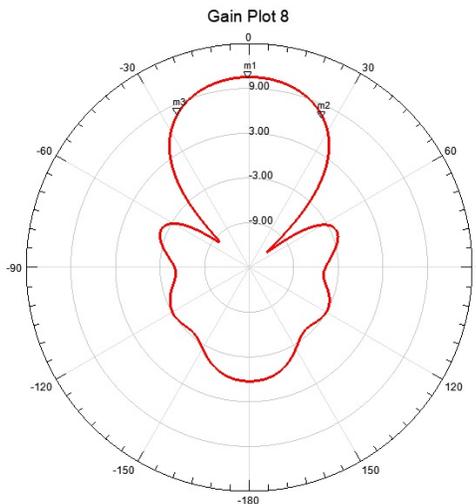
Name	Theta	Ang	Mag
m1	0.0000	0.0000	9.0109
m2	37.0000	37.0000	6.1378
m3	-37.0000	-37.0000	6.1494



HFSSDesign1	
Curve Info	
—	dB(GainTotal)
Setup1 : Sweep	
Freq=2GHz Phi=90deg	

Fig6. Simulated Radiation pattern of the antenna @2.0GHz

Name	Theta	Ang	Mag
m1	0.0000	0.0000	10.5219
m2	26.0000	26.0000	7.4693
m3	-26.0000	-26.0000	7.7258



HFSSDesign1	
Curve Info	
—	dB(GainTotal)
Setup1 : Sweep	
Freq=3GHz Phi=90deg	

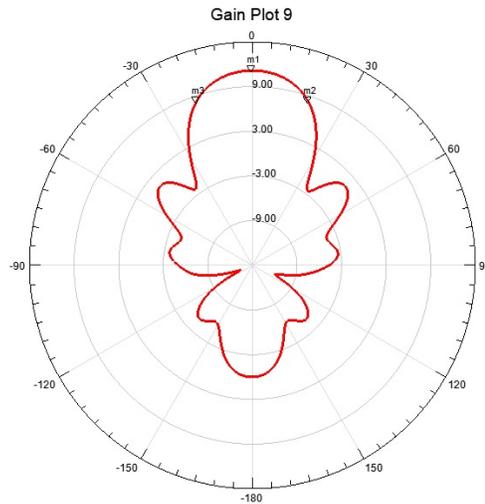
Fig7. Simulated Radiation pattern of the antenna @3.0GHz

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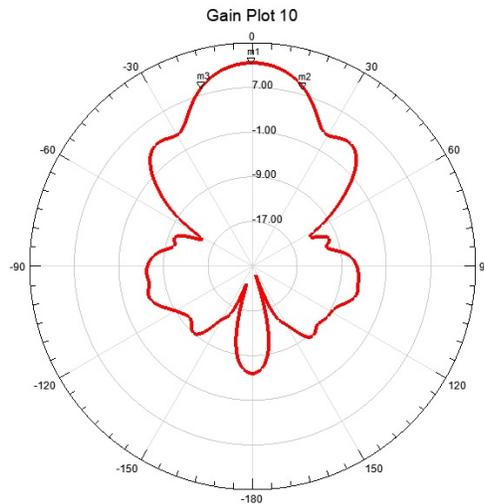
Name	Theta	Ang	Mag
m1	0.0000	0.0000	11.1495
m2	19.0000	19.0000	8.1853
m3	-19.0000	-19.0000	8.2056



Curve Info
dB(GainTotal)
Setup1 - Sweep
Freq=4GHz; Phi=90deg

Fig8. Simulated Radiation pattern of the antenna @4.0GHz

Name	Theta	Ang	Mag
m1	0.0000	0.0000	11.4057
m2	16.0000	16.0000	8.2003
m3	-16.0000	-16.0000	8.2960



Curve Info
dB(GainTotal)
Setup1 - Sweep
Freq=5GHz; Phi=90deg

Fig9. Simulated Radiation pattern of the antenna @5.0GHz

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Name	Theta	Ang	Mag
m1	0.0000	0.0000	11.5288
m2	15.0000	15.0000	8.2965
m3	-15.0000	-15.0000	8.4405

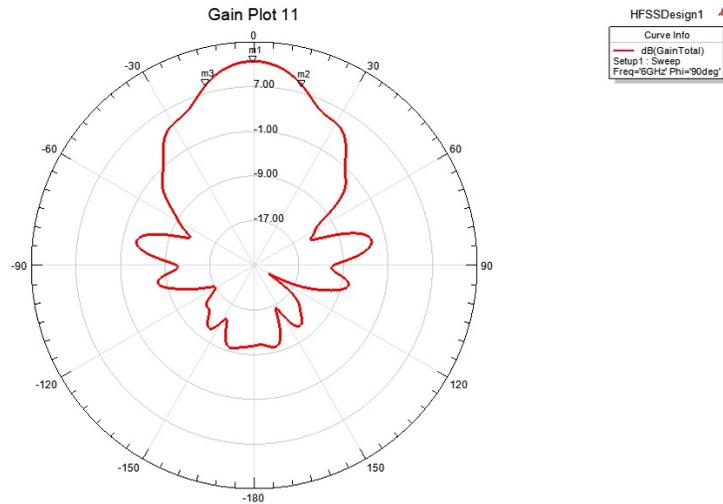


Fig10. Simulated Radiation pattern of the antenna @6.0GHz

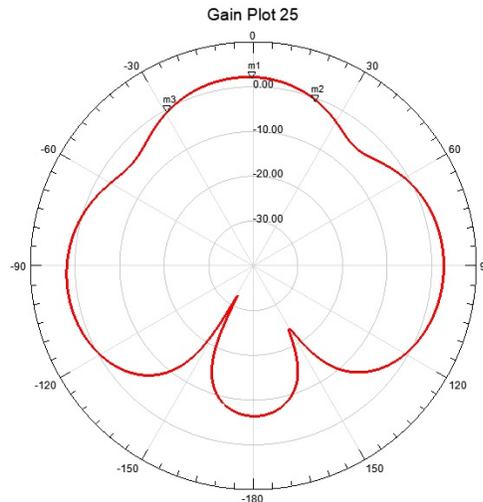
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Elevation Radiation-Patterns

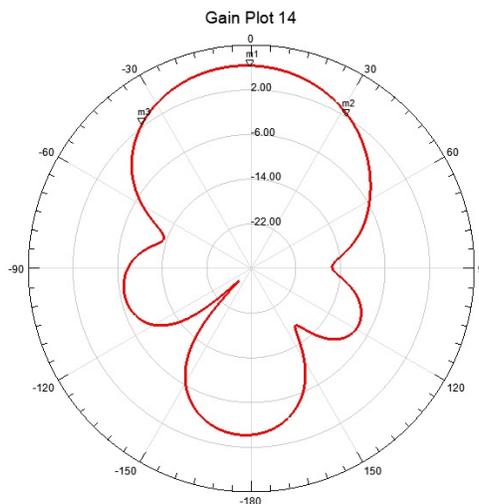
Name	Theta	Ang	Mag
m1	0.0000	0.0000	2.1520
m2	21.0000	21.0000	-0.5028
m3	-29.0000	-29.0000	-0.5386



HFSSDesign1	
Curve Info	
dB(GainTotal)	
Setup1: Sweep	
Freq=0.4GHz Phi=0deg	

Fig11. Simulated Radiation pattern of the antenna @0.4GHz

Name	Theta	Ang	Mag
m1	0.0000	0.0000	5.2960
m2	24.0000	24.0000	2.0430
m3	-33.0000	-33.0000	2.1095



HFSSDesign1	
Curve Info	
dB(GainTotal)	
Setup1: Sweep	
Freq=1GHz Phi=0deg	

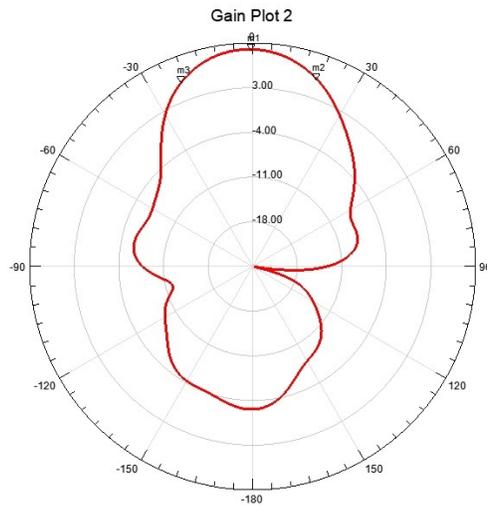
Fig12. Simulated Radiation pattern of the antenna @1.0GHz

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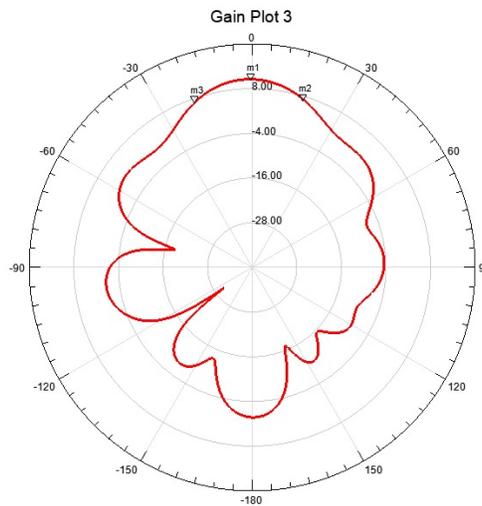
Name	Theta	Ang	Mag
m1	0.0000	0.0000	9.0109
m2	19.0000	19.0000	6.0074
m3	-21.0000	-21.0000	6.0051



HFSSDesign1	
Curve Info	
—	dB(GainTotal)
Setup1 : Sweep	
Freq=2GHz Phi=0deg	

Fig13. Simulated Radiation pattern of the antenna @2.0GHz

Name	Theta	Ang	Mag
m1	0.0000	0.0000	10.5219
m2	17.0000	17.0000	7.1233
m3	-19.0000	-19.0000	7.0176



HFSSDesign1	
Curve Info	
—	dB(GainTotal)
Setup1 : Sweep	
Freq=3GHz Phi=0deg	

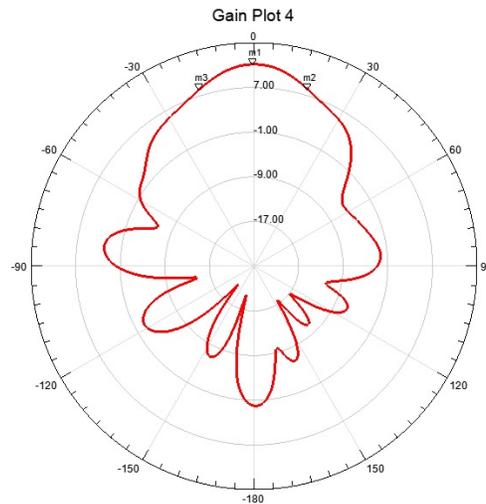
Fig14. Simulated Radiation pattern of the antenna @3.0GHz

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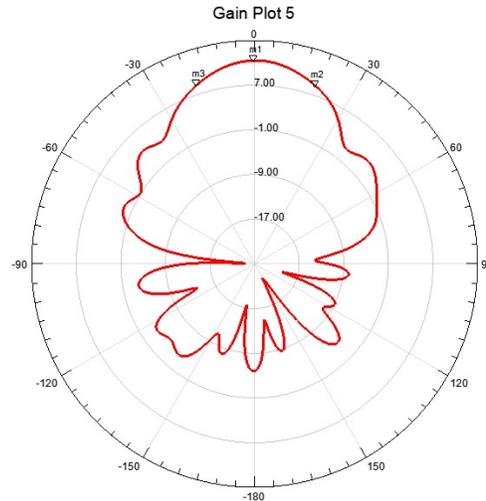
Name	Theta	Ang	Mag
m1	0.0000	0.0000	11.1495
m2	17.0000	17.0000	8.0656
m3	-17.0000	-17.0000	8.1651



Curve Info
dB(GainTotal)
Setup1: Sweep
Freq=4GHz Phi=0deg

Fig15. Simulated Radiation pattern of the antenna @4.0GHz

Name	Theta	Ang	Mag
m1	0.0000	0.0000	11.4057
m2	19.0000	19.0000	8.6578
m3	-18.0000	-18.0000	8.6323



Curve Info
dB(GainTotal)
Setup1: Sweep
Freq=5GHz Phi=0deg

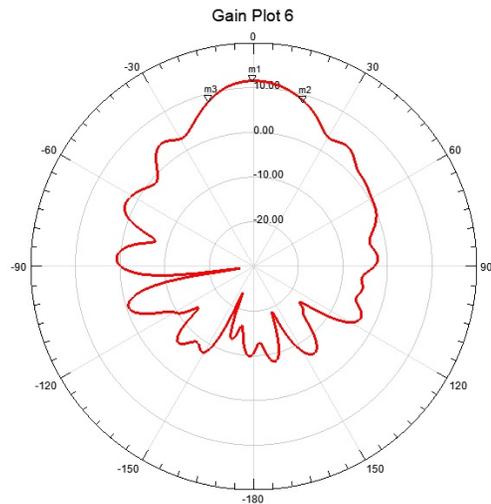
Fig16. Simulated Radiation pattern of the antenna @5.0GHz

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Name	Theta	Ang	Mag
m1	0.0000	0.0000	11.5288
m2	17.0000	17.0000	8.5884
m3	-15.0000	-15.0000	8.4059



HFSSDesign1 ▲
Curve Info
— dB (GainTotal)
Setup1 - Sweep
Freq=6GHz Phi=0deg

Fig17. Simulated Radiation pattern of the antenna @6.0GHz

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