

Shenzhen Yunzhishang Electronics Co., Ltd

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Project name: P40-US

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● A Brief Introduction to debugging the project

Plate type	The whole machine				
Antenna Overview	The main antenna	Frequency band		Antenna form	Design area
		2G	G2/3/5/8 W1/2/4/5	PIFA	The bottom of the phone
		3G			
		4G	2/4/5/7/12/17/66/38		
		5G	N/A		
	Other antennas	BT/WIFI	2.4G/5G	PIFA	Top of the phone
		GNSS	1559-1610MHz		
		Diversity	N/A	PIFA	Top of the phone
Prototype status	P40-US Debugging machine		Environmental treatment		

Main antenna darkroom data

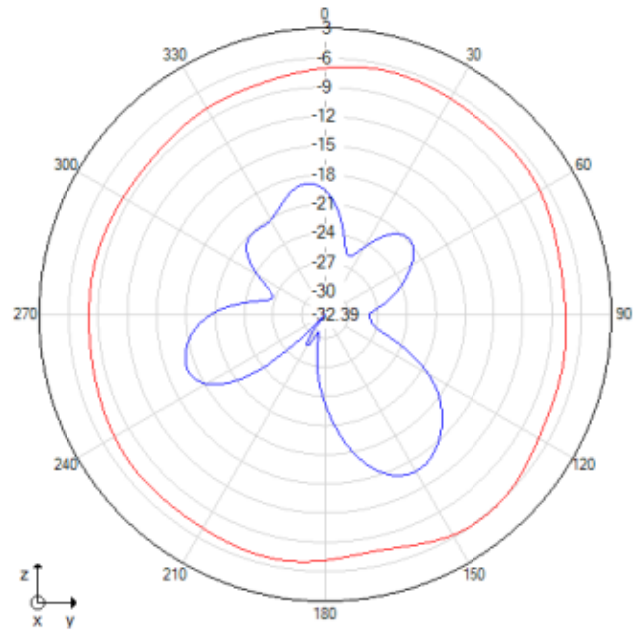
	Channel	TRP (dBm)	TIS (dBm)	Brighten the screen		Channel	TRP (dBm)	TIS (dBm)	Brighten the screen		Channel	TRP (dBm)	TIS (dBm)	Brighten the screen
FDD B2	18650	17.63			WCDMA B1	10562	16.58			GSM 850	128	25.16		
	18900	17.49				10700	15.26				190	25.34		
	19150	17.52	-92.24	-91.56		10838	15.12	-103.8	-103.4		251	25.27	-102.7	-102.4
FDD B4	20000	17.63			WCDMA B2	9262	17.45			GSM 900	1	24.53		
	20175	17.38				9400	17.36				62	24.21		
	20350	17.25	-92.31	-91.67		9538	16.87	-102.9	-102.6		124	24.16	-102.8	-101.2
FDD B5	20450	16.42			WCDMA B4	1312	16.71			DCS 1800	512	23.12		
	20525	16.57				1413	17.23				698	23.56		
	20600	17.12	-90.16	-88.75		1513	17.38	-103.8	-103.2		885	25.24	-103.2	-102.7
FDD B7	20800	17.68			WCDMA B5	4132	15.49			PCS 1900	512	25.14		
	21100	17.54				4183	16.35				661	25.23		
	21400	17.43	-91.29	-91.13		4233	16.82	-102.3	-101.4		810	25.17	-102.3	-102.1
FDD B12	23060	15.35												
	23095	15.61												
	23130	15.43	-90.87	-90.26										

FDD B17	23790	15.72												
	23790	16.14												
	23790	16.18	-91.04	-90.48										
FDD B66	132022	16.41												
	132322	16.57												
	132622	16.71	-92.48	-91.45										
TDD (B38)	37850	17.54												
	38000	17.47												
	38150	17.56	-92.18	-91.68										

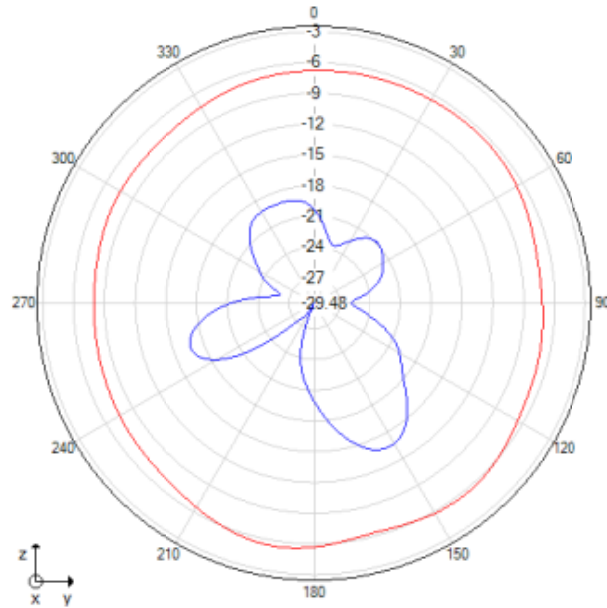
Operation Bands	Frequency	Antenna Gain (dBi)
GSM 850	824-894MHz	-0.63
GSM 900	880-960MHz	-0.69
DCS 1800	1710-1880MHz	-0.31
PCS 1900	1850-1990MHz	-0.29
WCDMA B1	1920-2170MHz	-0.21
WCDMA B2	1850-1990MHz	-0.29
WCDMA B4	1710-2155MHz	-0.34
WCDMA B5	824-894MHz	-0.63
LTE B2	1850-1990MHz	-0.29
LTE B4	1710-2155MHz	-0.34
LTE B5	824-894MHz	-0.63
LTE B7	2500-2690MHz	0.25
LTE B12	699-746MHz	-0.69
LTE B17	704-746MHz	-0.72
LTE B38	2570-2620MHz	0.34
LTE B66	1710-2200MHz	-0.34
BT&BLE&2.4G Wi-Fi	2400-2500 MHz	1.23
5G Wi-Fi	5150-5850MHz	1.79
GNSS	1559-1610MHz	-0.57

Lobe diagram ()

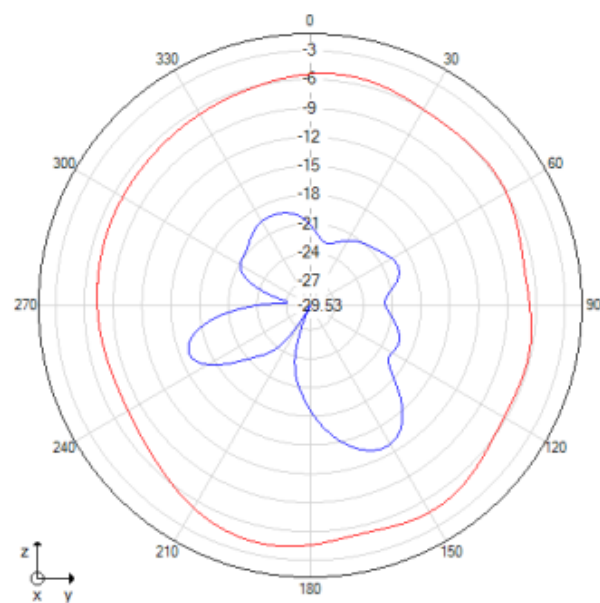
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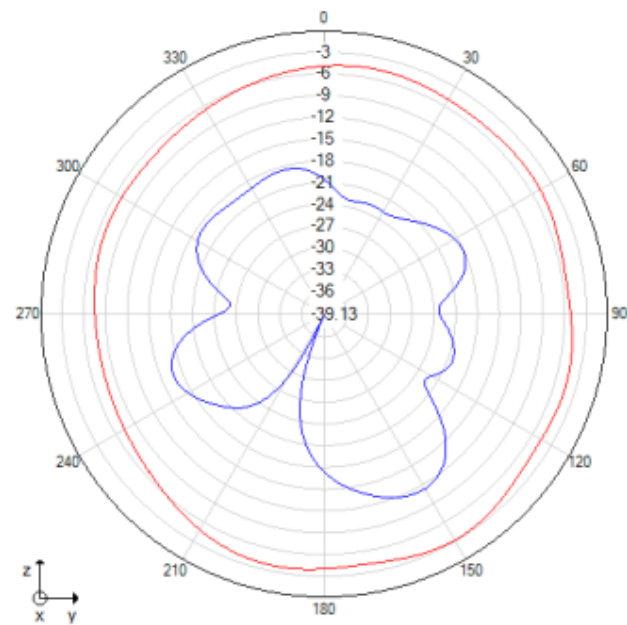
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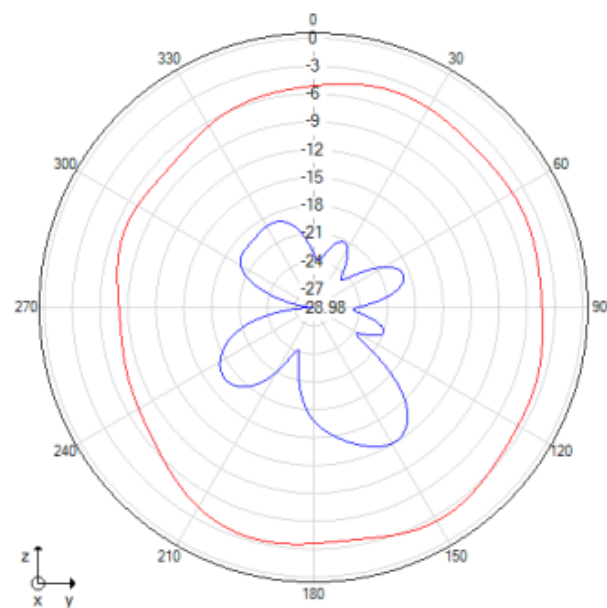
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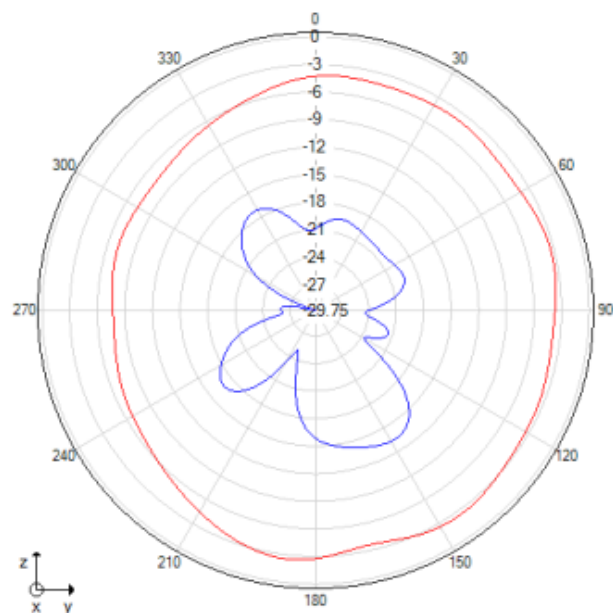
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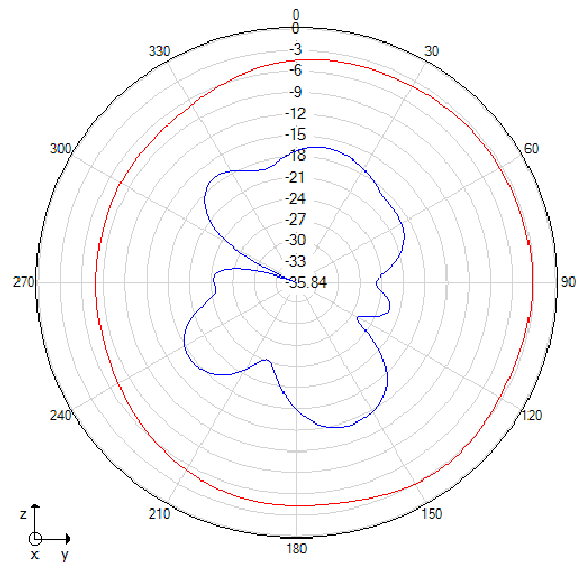
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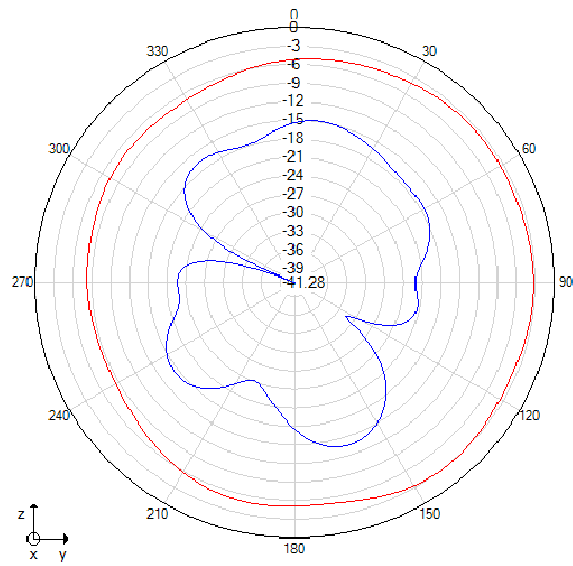
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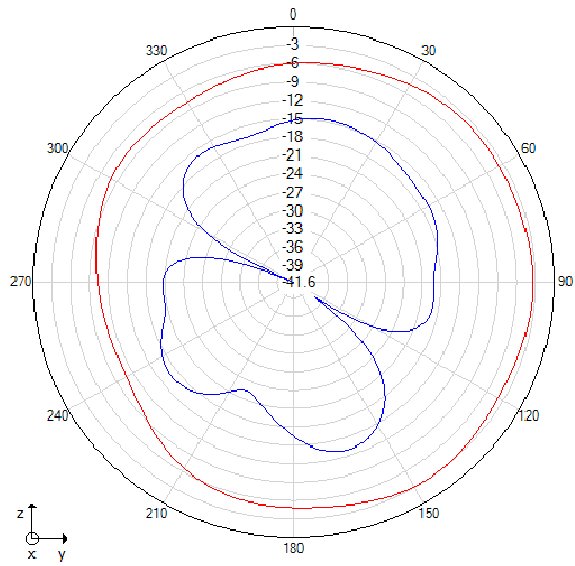
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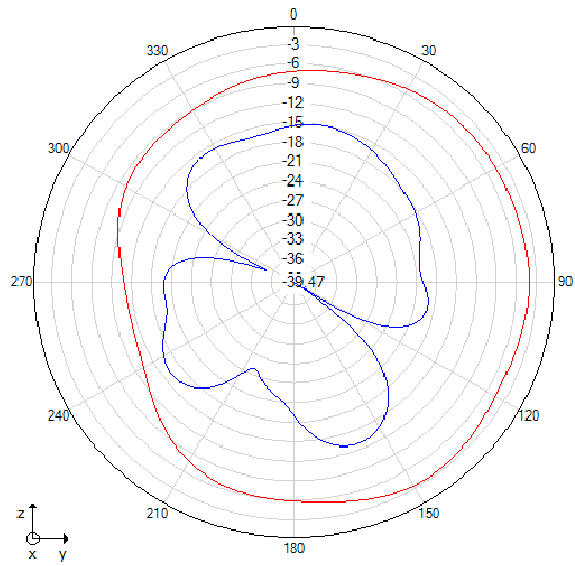
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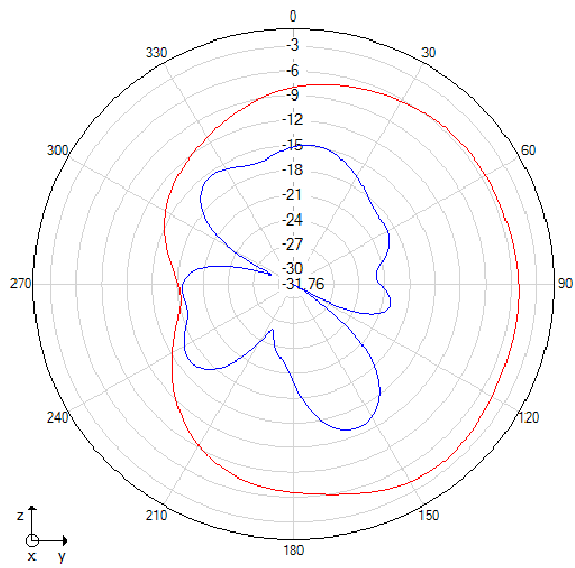
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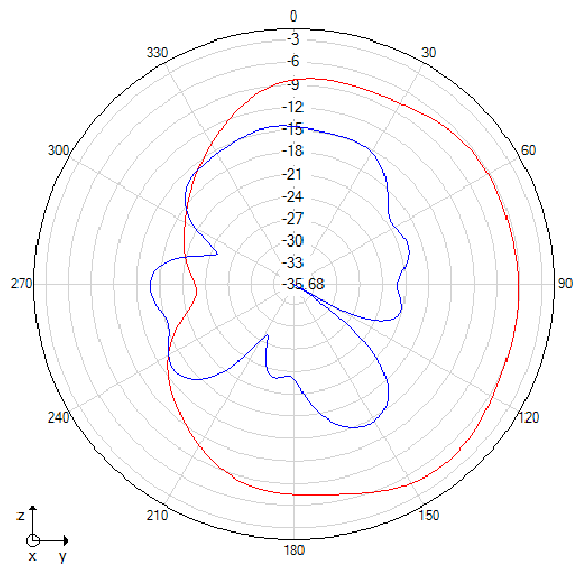
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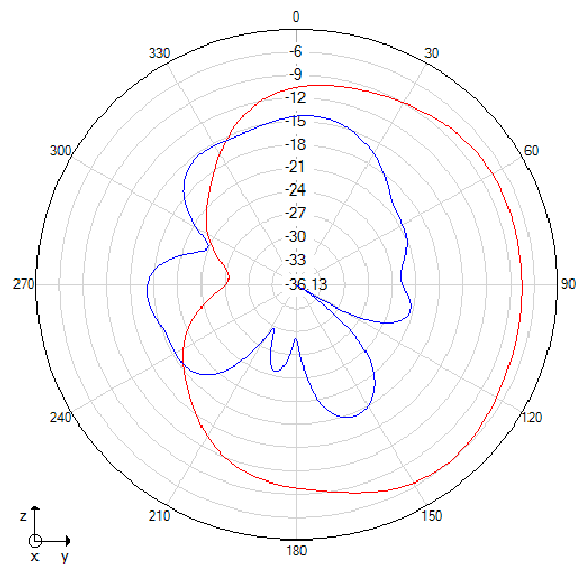
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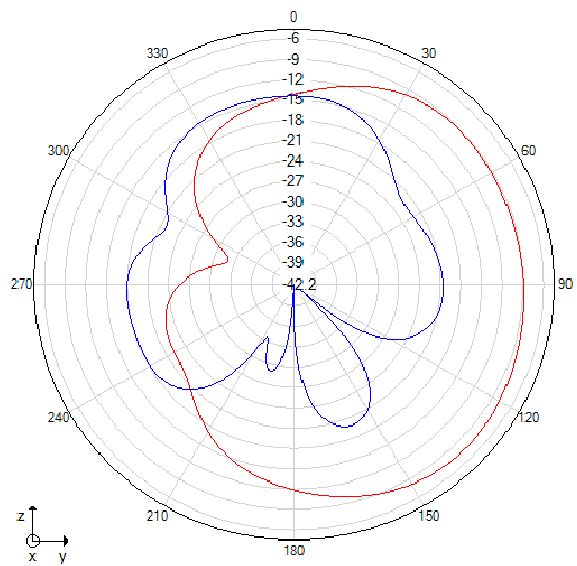
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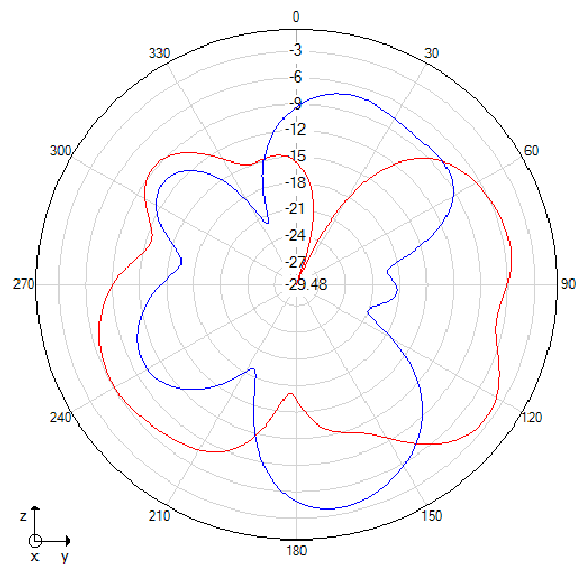
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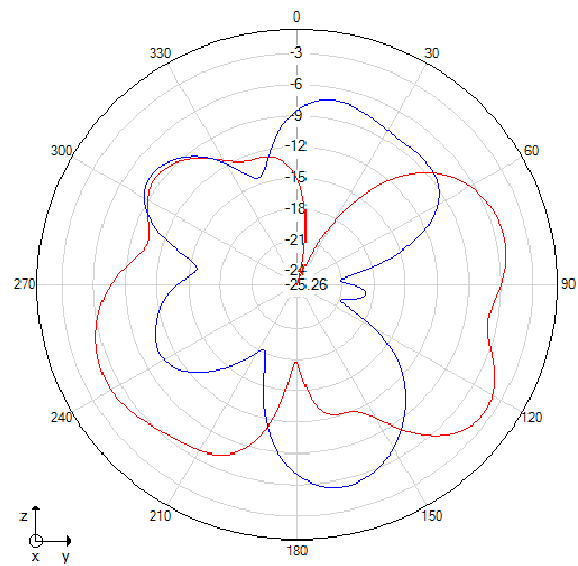
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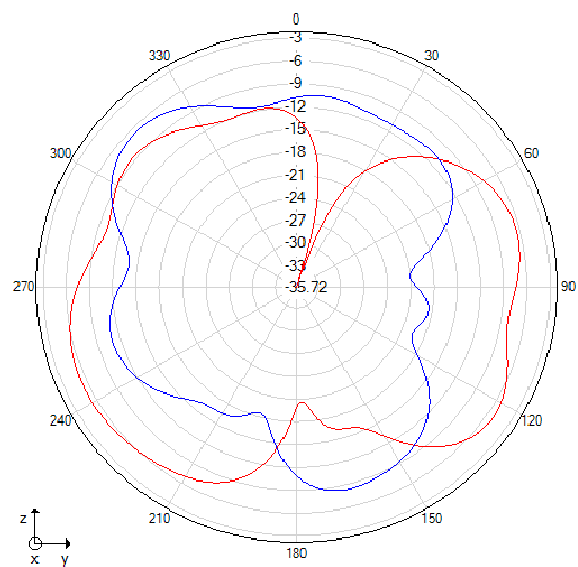
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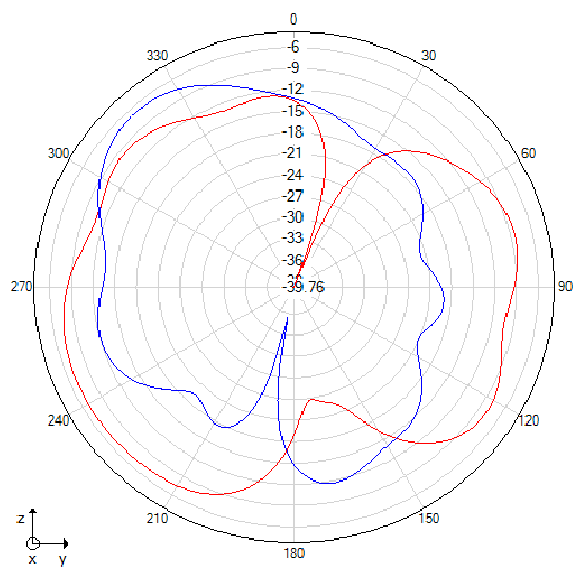
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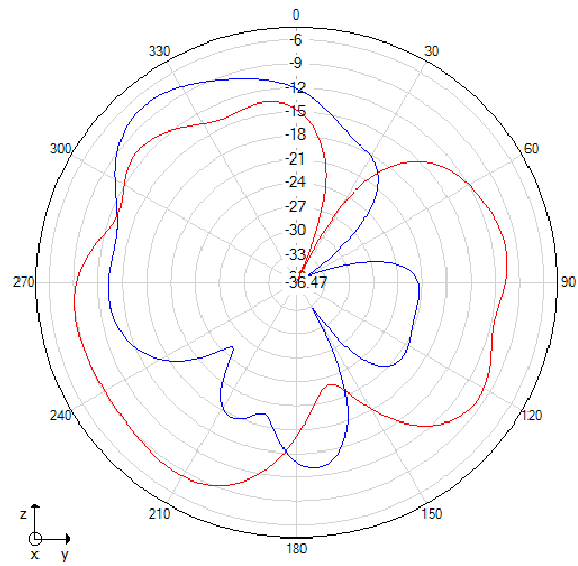
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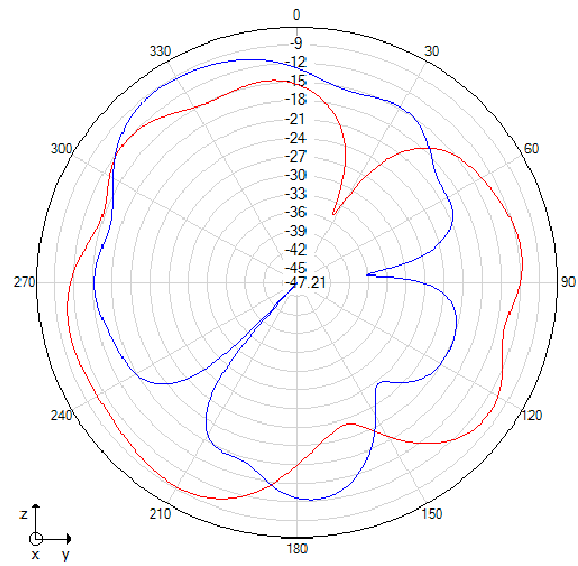
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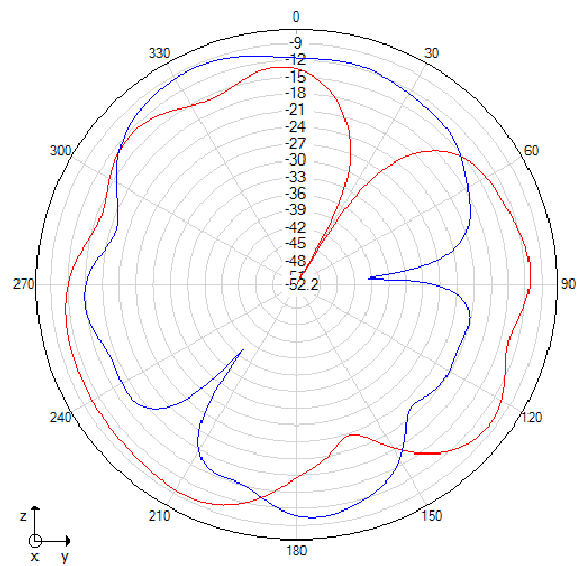
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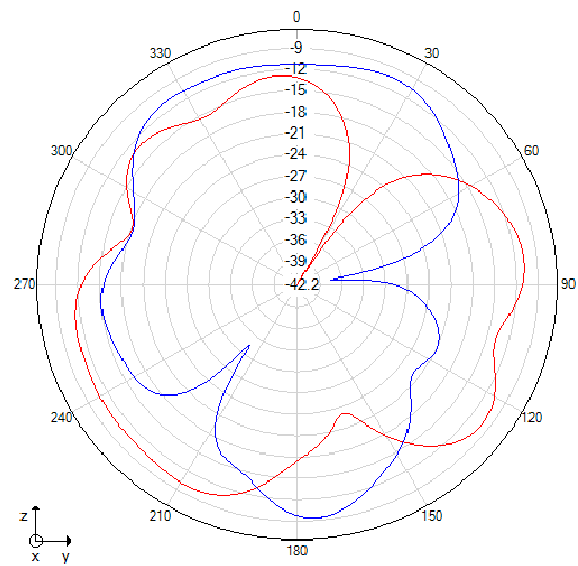
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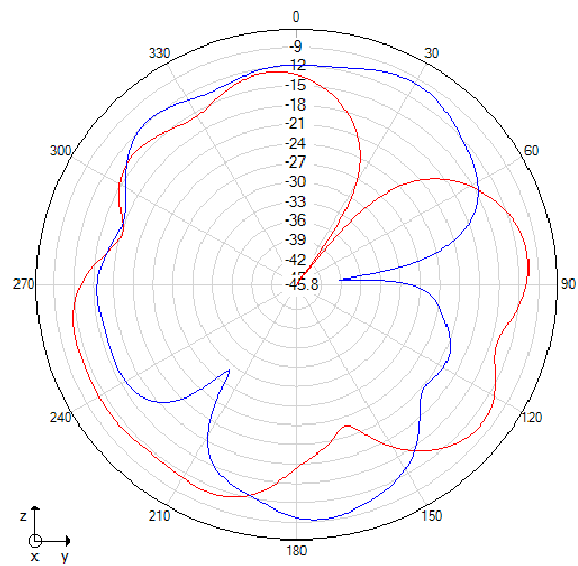
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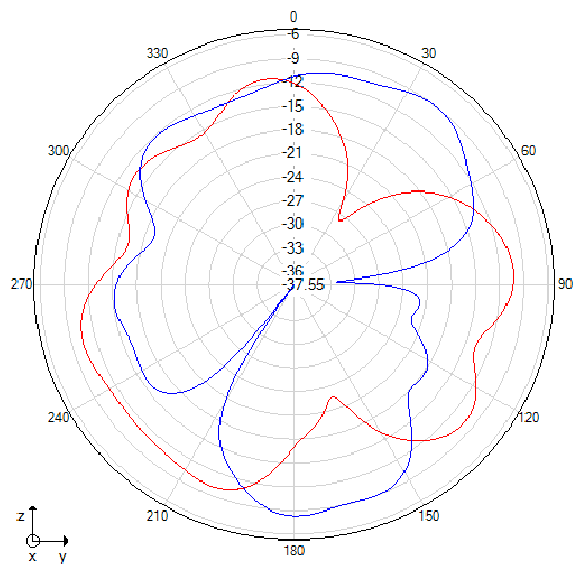
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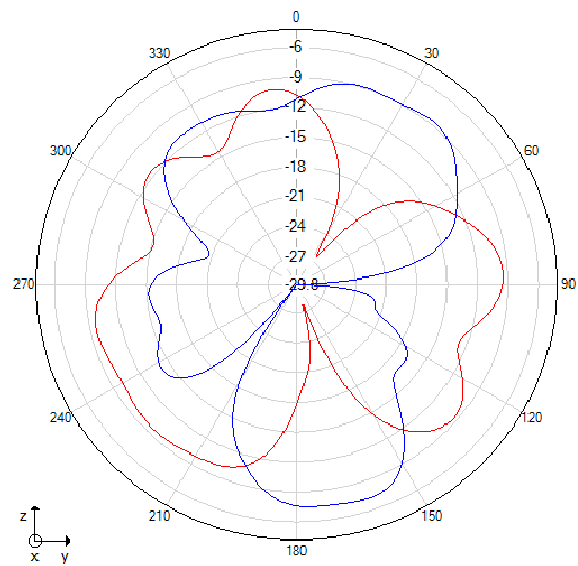
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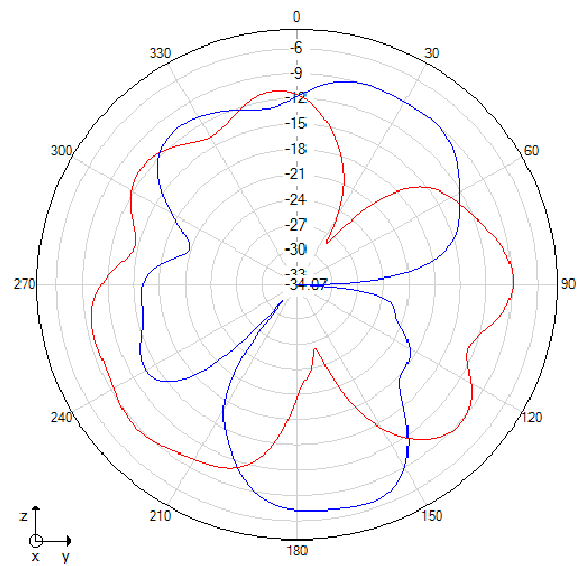
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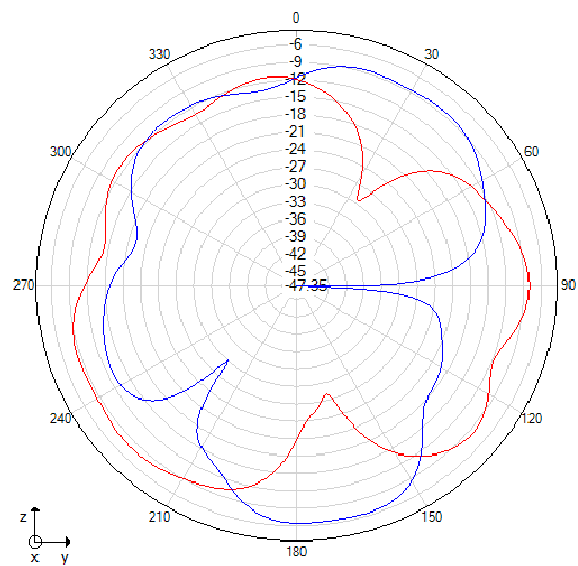
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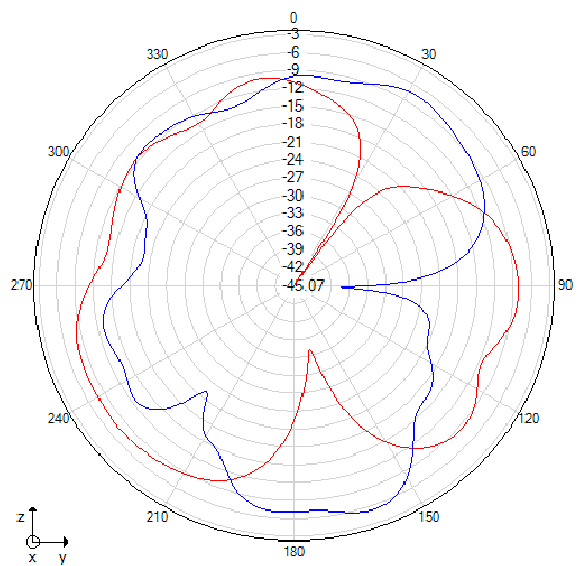
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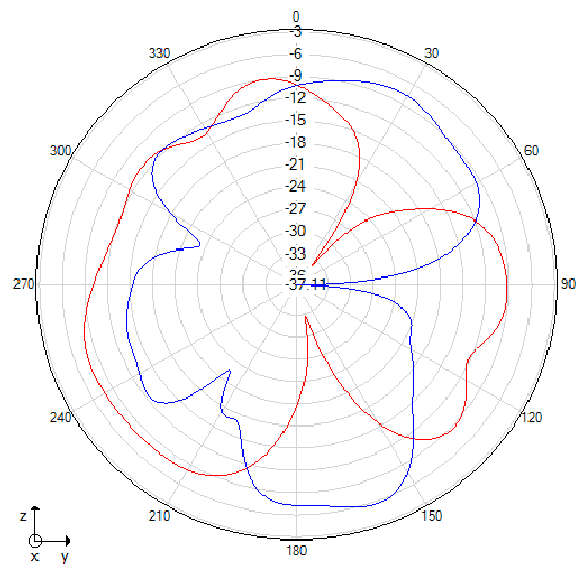
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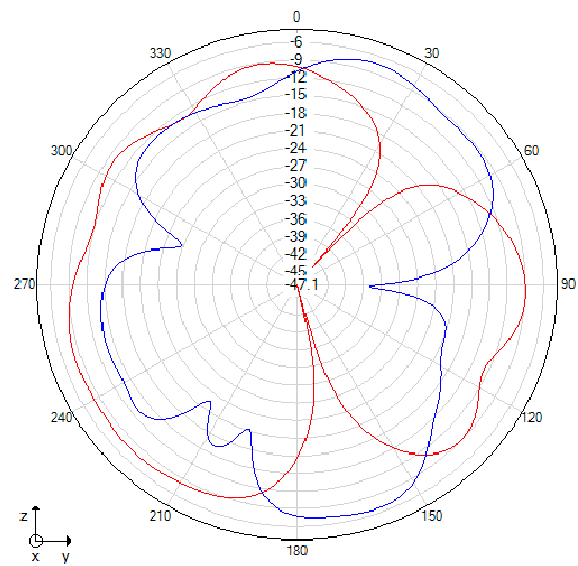
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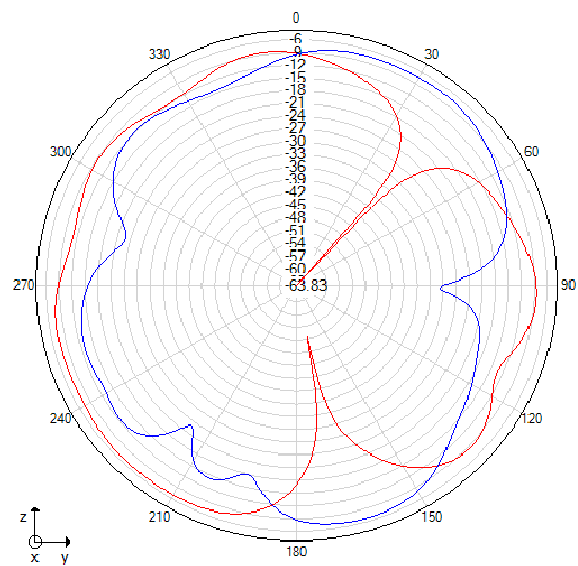
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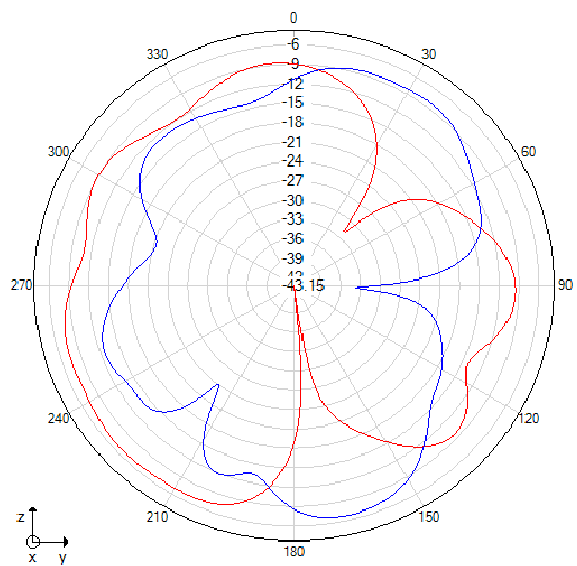
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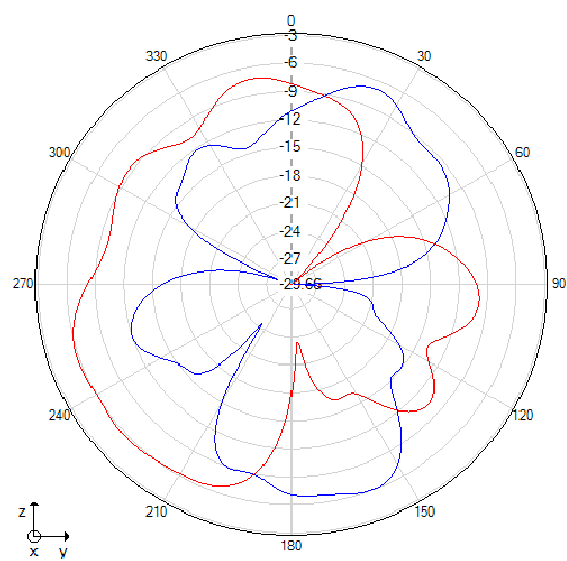
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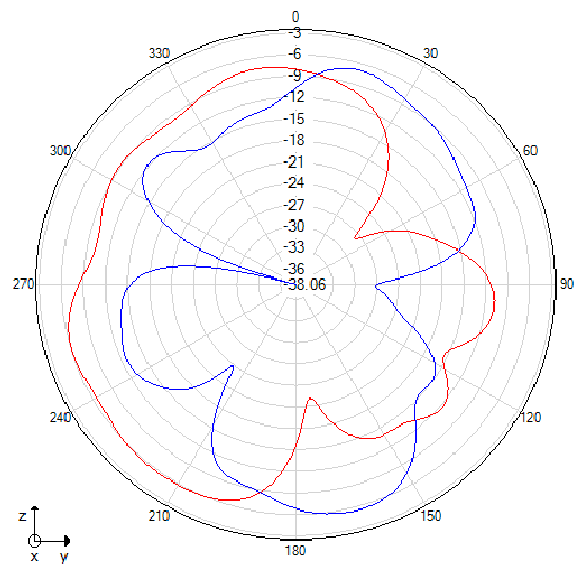
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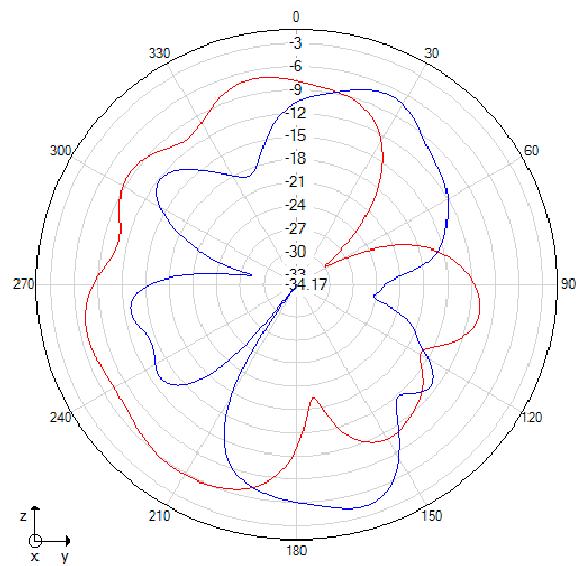
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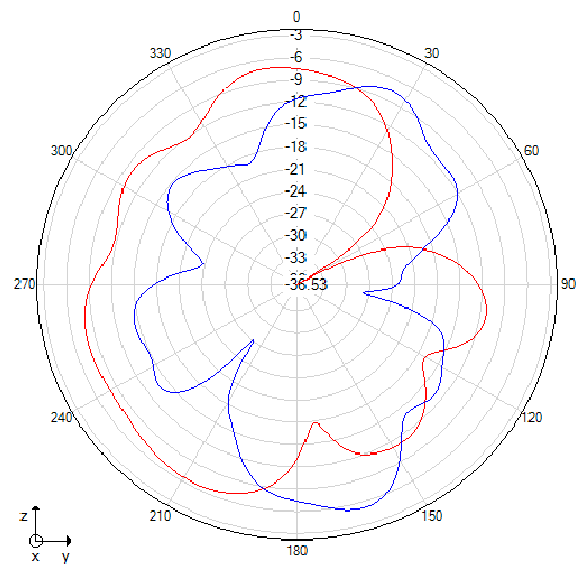
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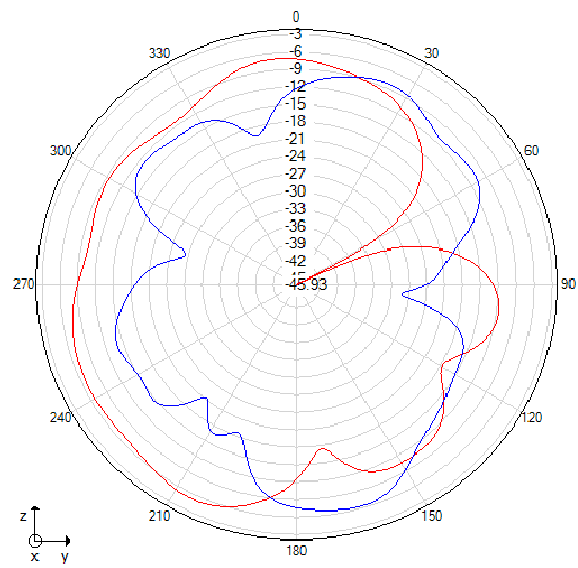
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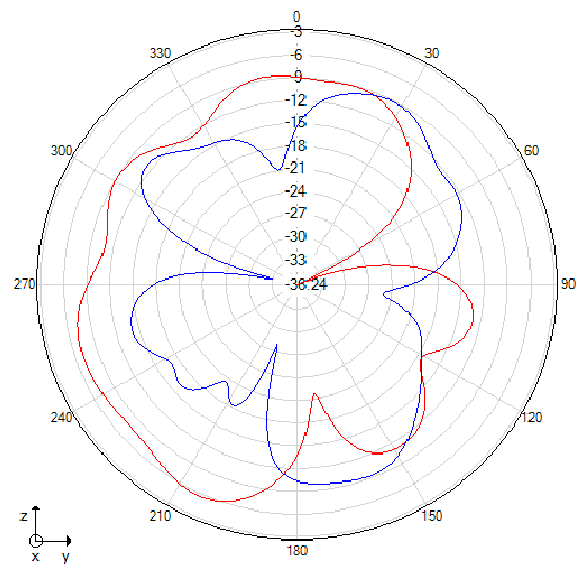
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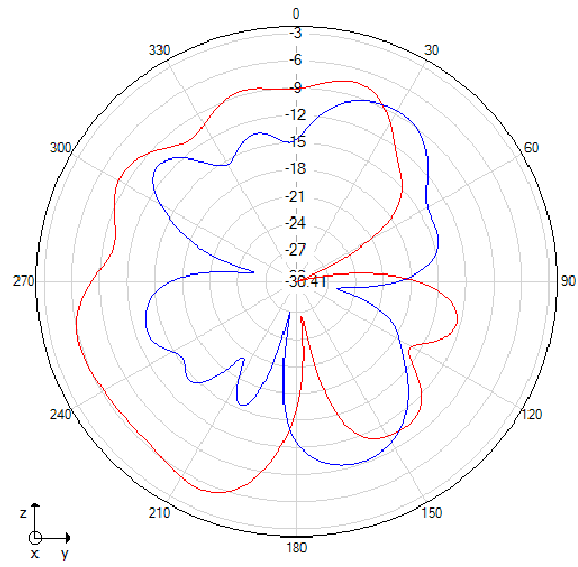
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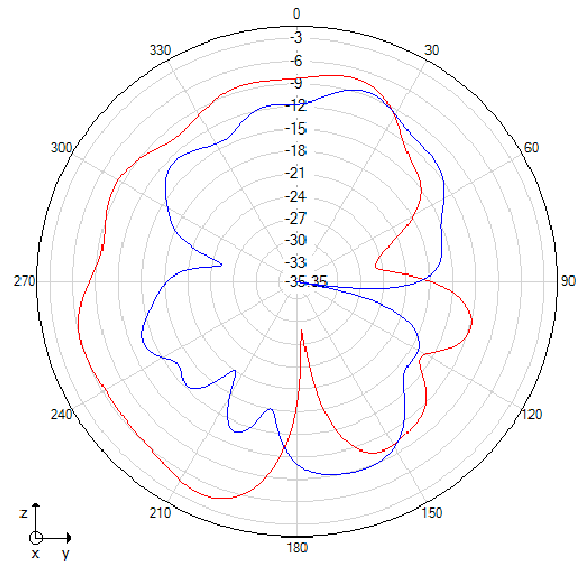
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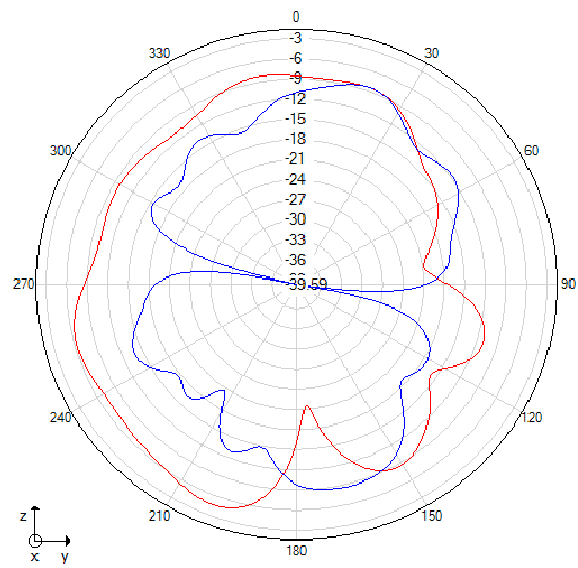
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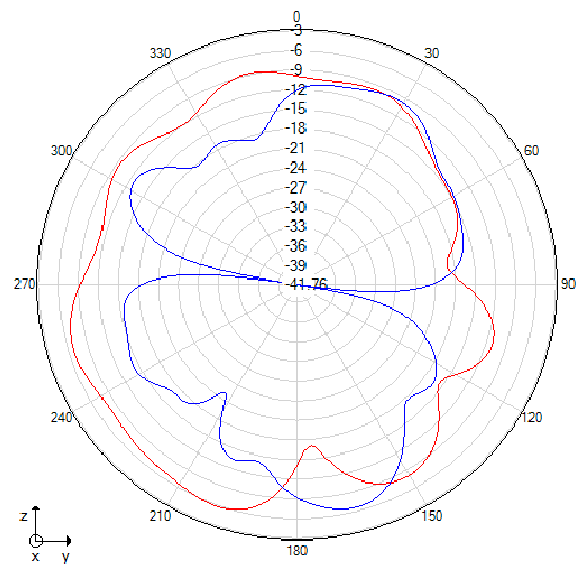
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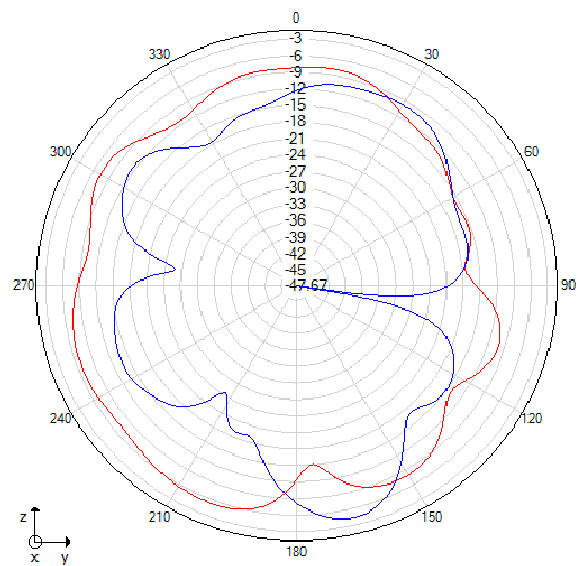
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$\Phi=90$ freq=2240MHz



Phi=90 freq=2260MHz



Phi=90 freq=2280MHz

