

Antenna specification

	Test Project	Equipment
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1. S Parameter	1. Return Loss (RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2/3/4/5G)	1. power 2. level 3. TRP/TIS	Comprehensive Test: SP9500/CMW500/8960 Test Environment: Anechoic Chamber

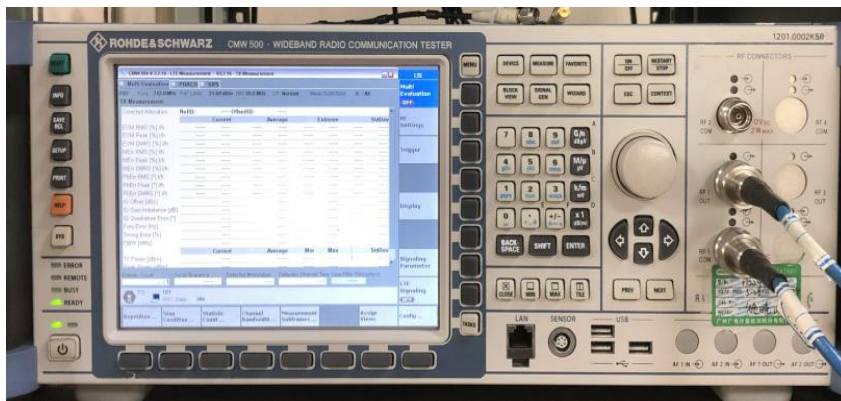
Test Equipment



Agilent 5071B (S Parameter (RL/VSWR) Test Equipment)



Agilent 8960 (2G/3G Test Equipment)

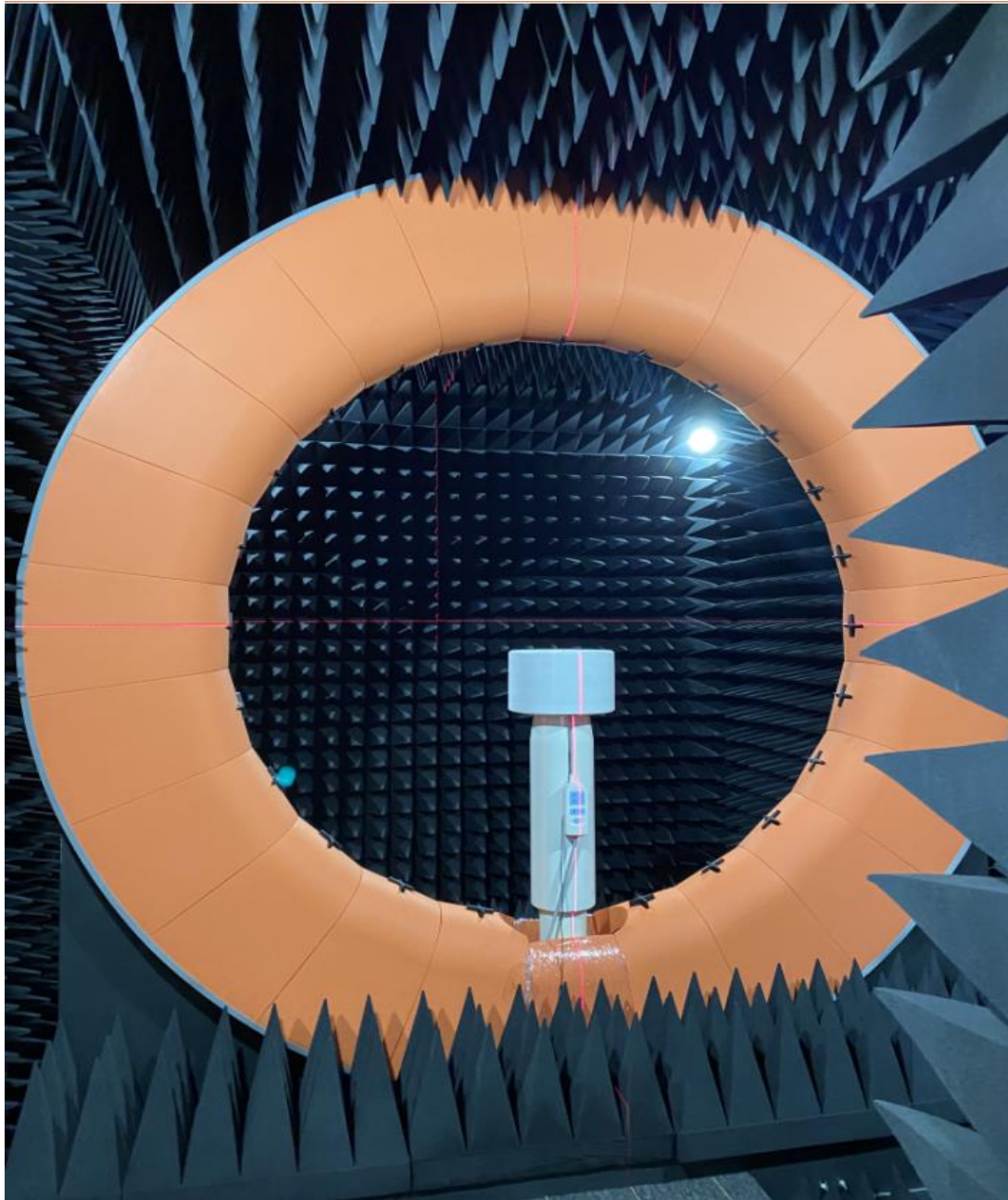


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

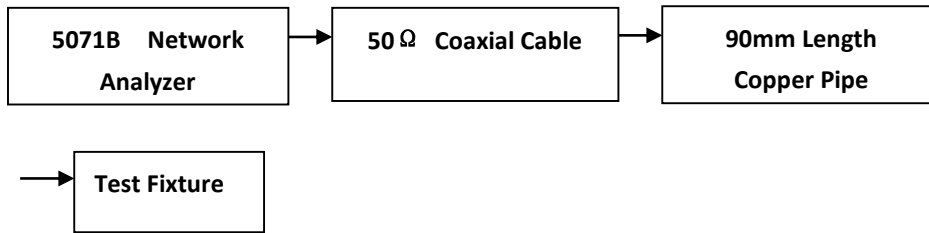
TestEnvironment



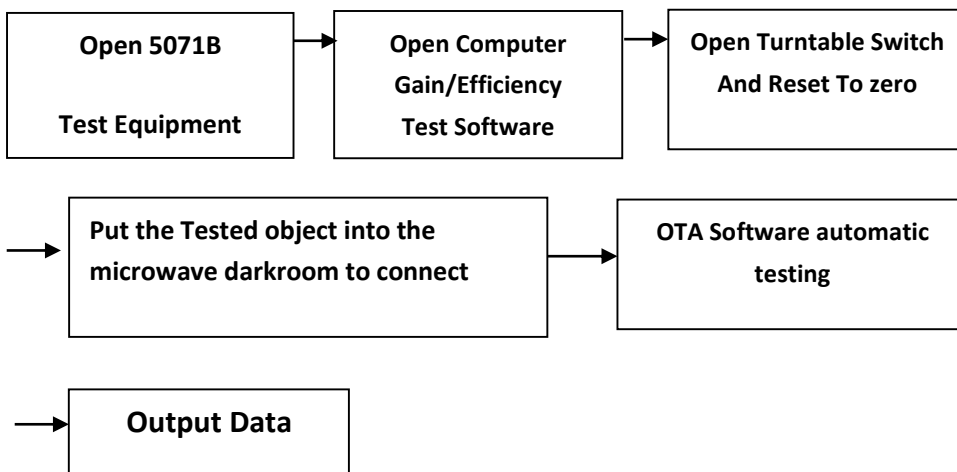
Microwave Anechoic Chamber

Test Steps

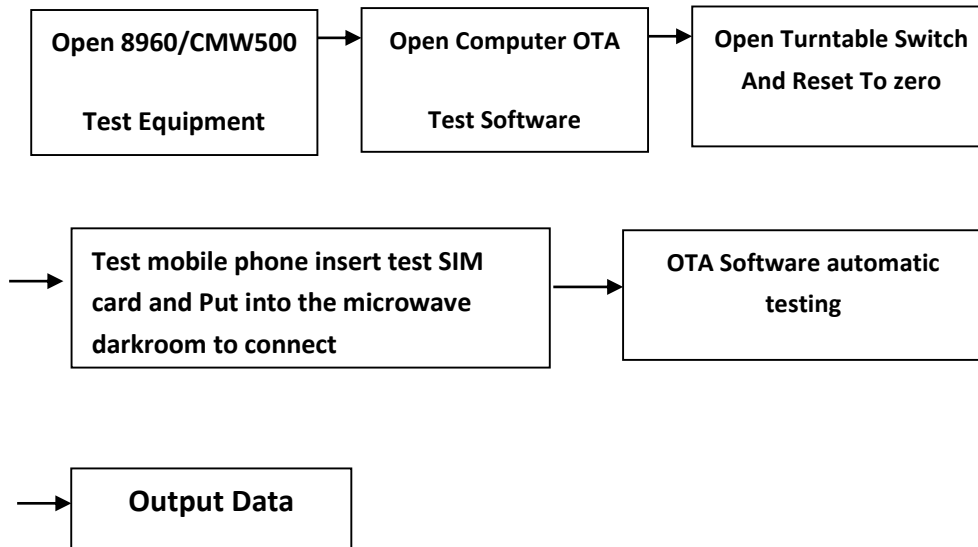
Passive VSWR/RL Test Steps:



Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:

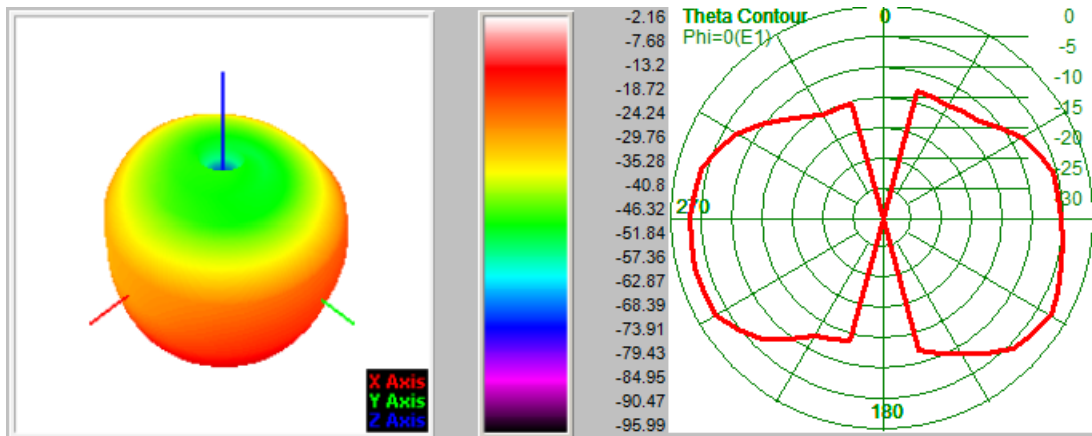


7. Antenna Gain

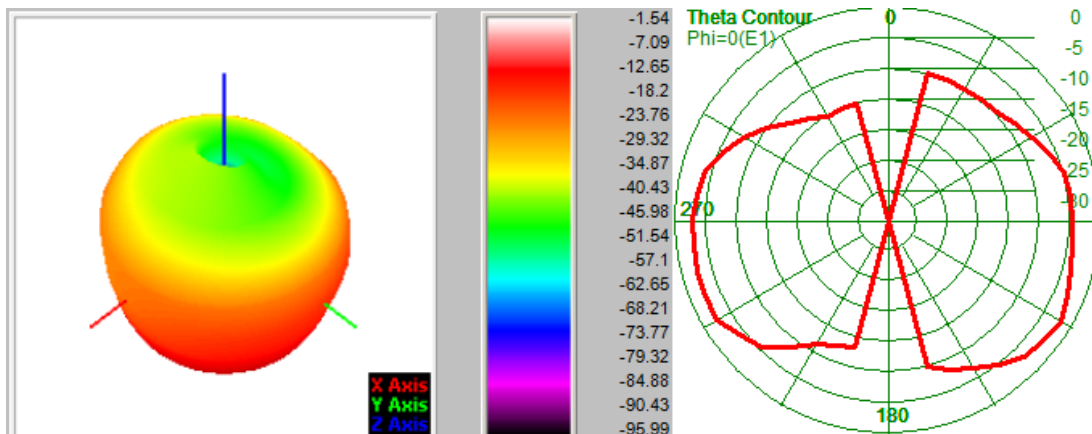
Band	Max Gain	Band	Max Gain
GSM850 (824-894MHZ)	-2.16	Bluetooth (2400-2483.5MHZ)	1.33
GSM900 (880-960MHZ)	-1.54	WIFI-2.4G (2400-2495MHZ)	1.33
DCS1800 (1710-1880MHZ)	1.47	WIFI-5.2G (5.17-5.33GHZ)	1.11
PCS1900 (1850-1990MHZ)	2.44	WIFI-5.8G (5.490-5.835GHZ)	-0.75
WCDMA1 (1920-2170MHZ)	0.97	GPS (1575.4MHZ)	-0.01
WCDMA2 (1950-1990MHZ)	2.44		
WCDMA4 (1710-2155MHZ)	0.97		
WCDMA5 (824-894MHZ)	-2.16		
WCDMA8 (880-960MHZ)	-1.54		
LTE-B1 (1920-2170MHZ)	0.97		
LTE-B2 (1850-1990MHZ)	2.44		
LTE-B3 (1710-1880MHZ)	1.47		
LTE-B4 (1710-2155MHZ)	0.97		
LTE-B5 (824-894MHZ)	-2.16		
LTE-B7 (2500-2690MHZ)	0.89		
LTE-B8 (880-960MHZ)	-1.54		
LTE-B12 (699-746MHZ)	-2.58		
LTE-B17 (704-746MHZ)	-2.58		
LTE-B18 (815-875MHZ)	-2.16		
LTE-B19 (830-8790MHZ)	-2.16		
LTE-B20 (791-862MHZ)	-2.16		
LTE-B25 (1850-1995MHZ)	2.44		
LTE-B26 (814-894MHZ)	-2.16		
LTE-B28 (703-803MHZ)	-2.58		
LTE-B66 (1715-2170MHZ)	0.97		
LTE-B38 (2570-2620MHZ)	0.89		
LTE-B40 (2300-2400MHZ)	0.32		
LTE-B41 (2496-2690MHZ)	0.89		

8.2D&3D Lobe Diagram

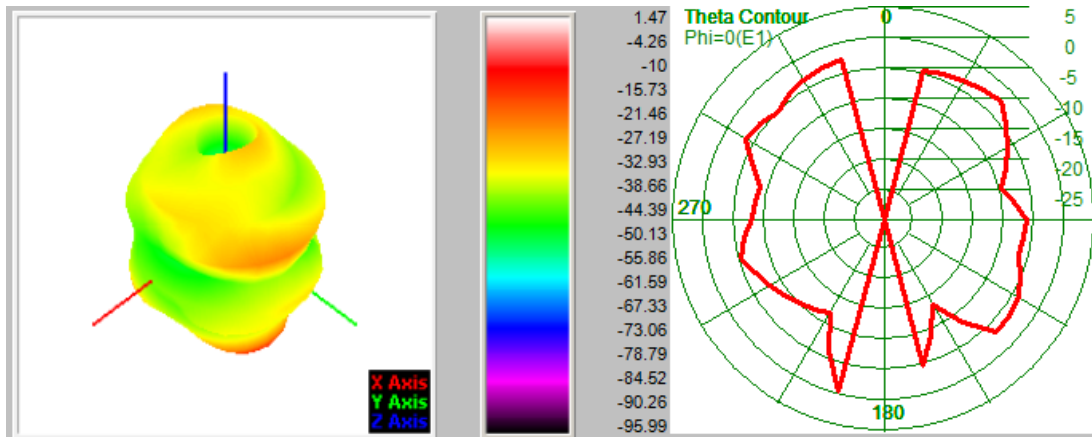
GSM850



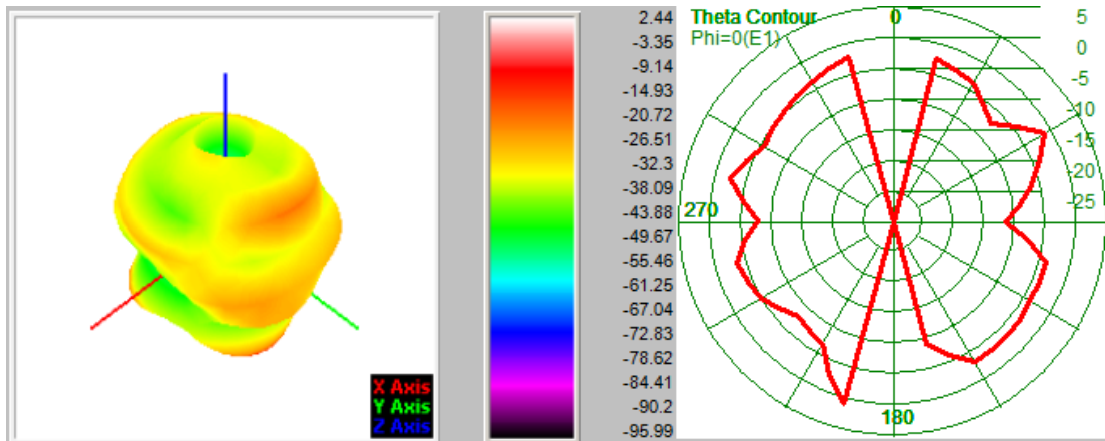
GSM900



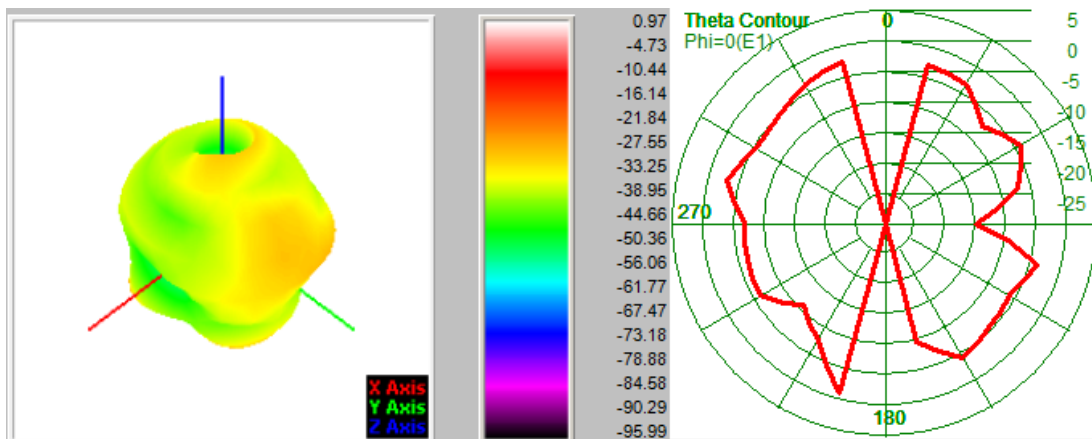
DSC1800



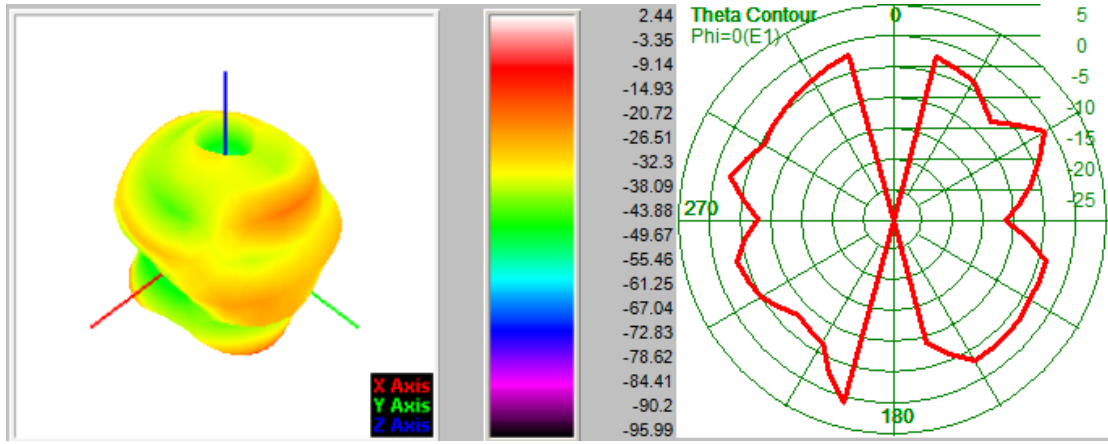
PCS1900



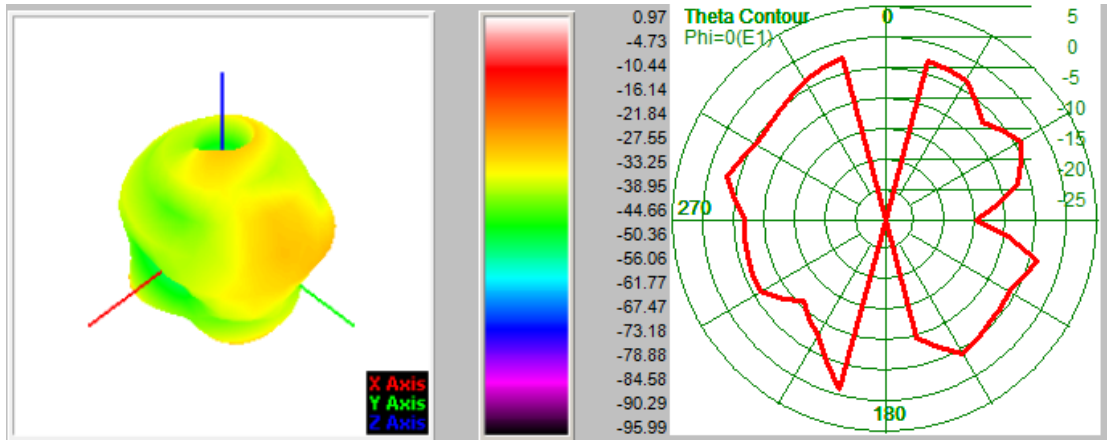
W1



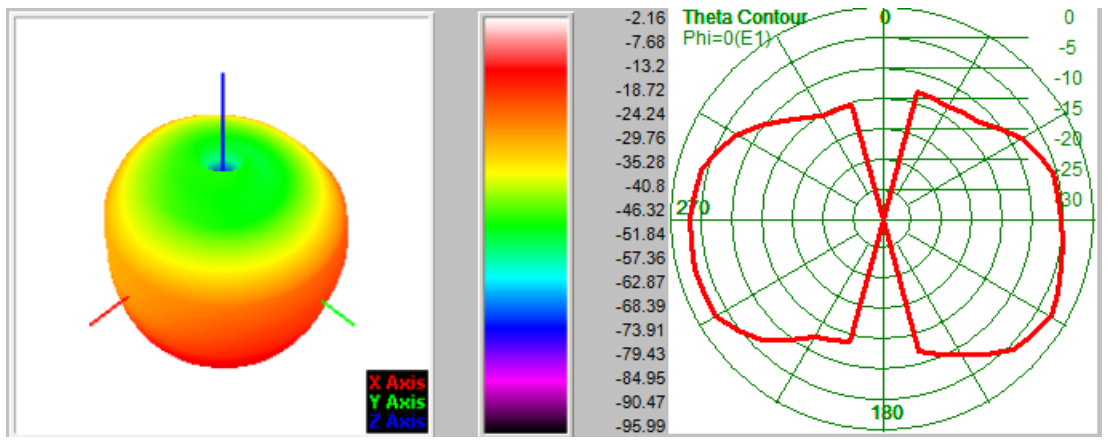
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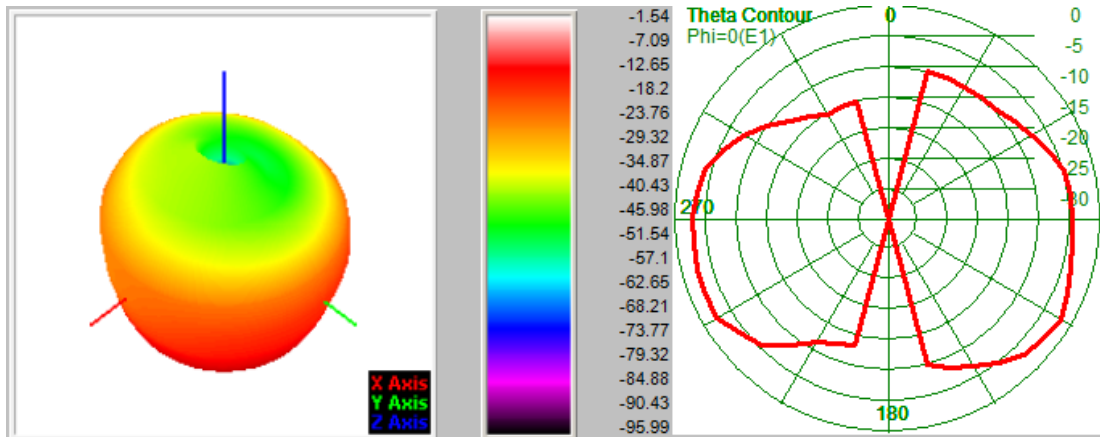
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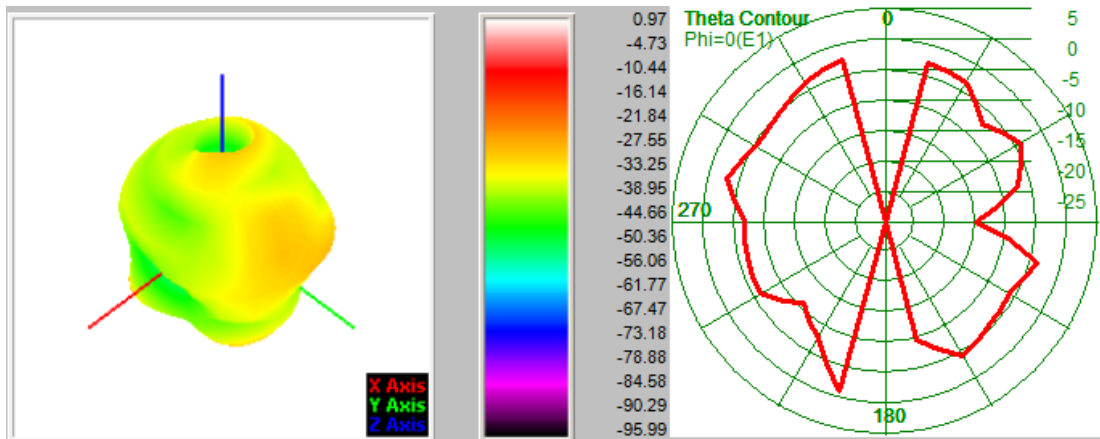
W5



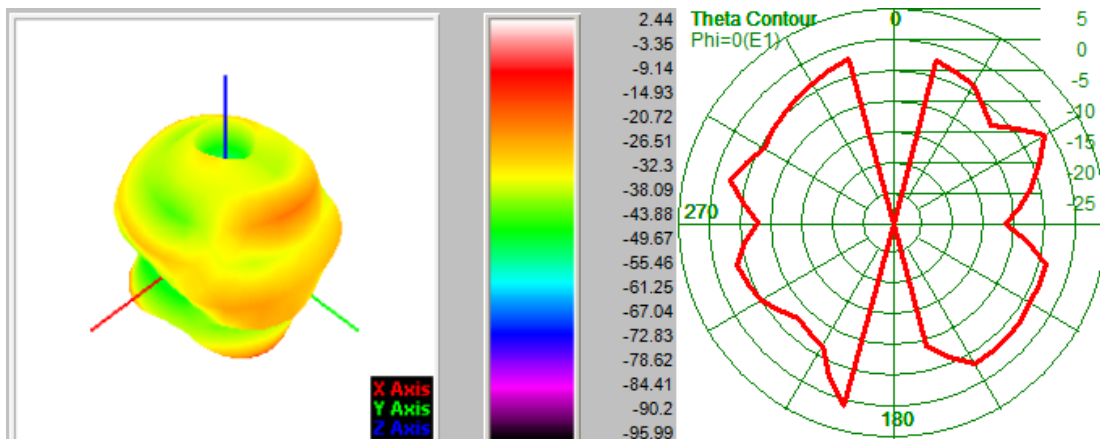
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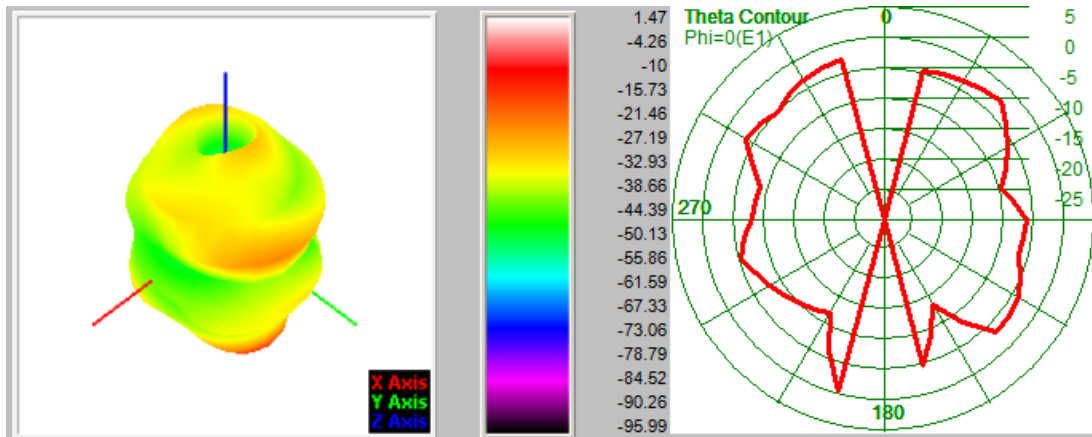
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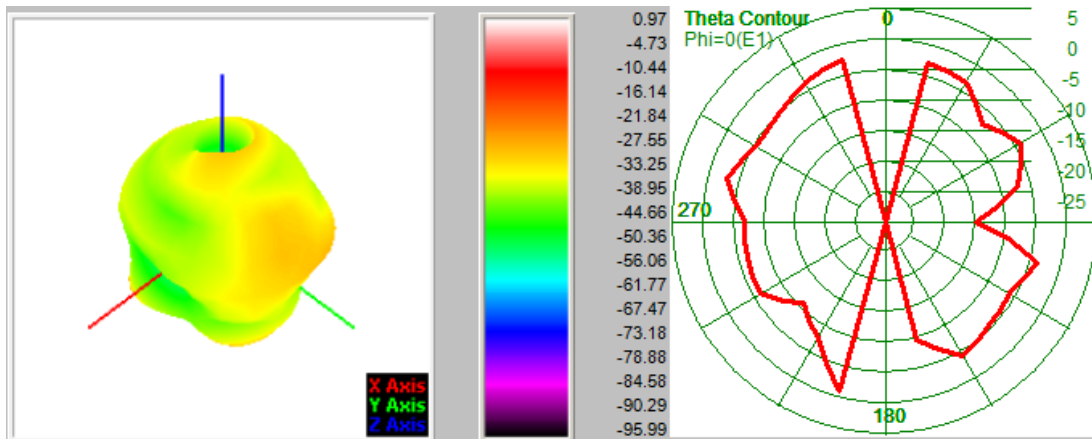
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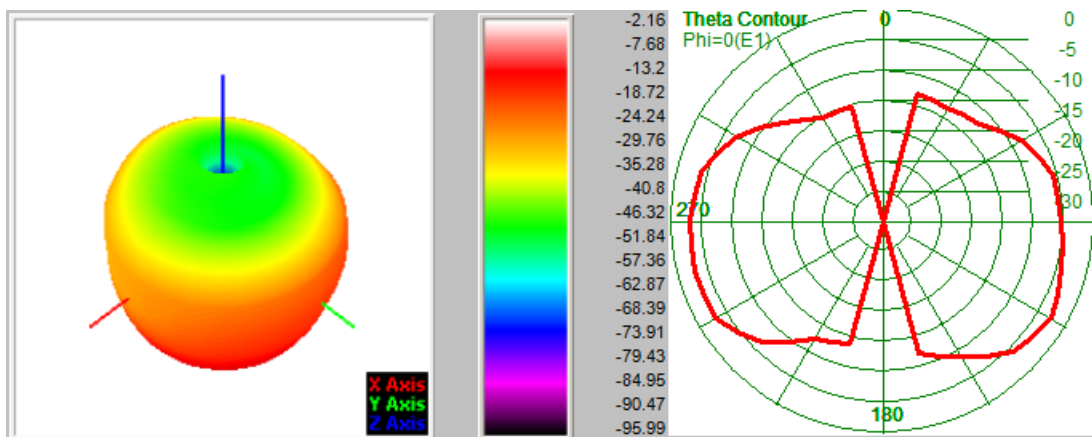
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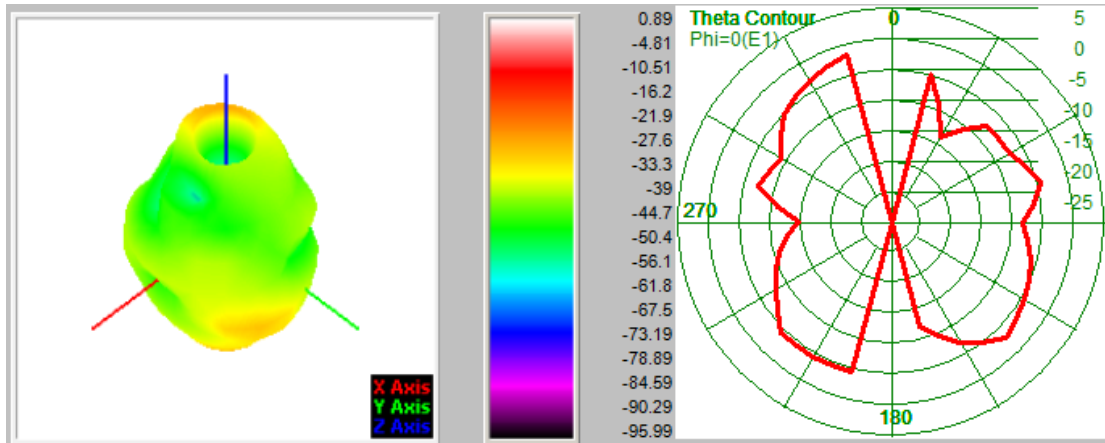
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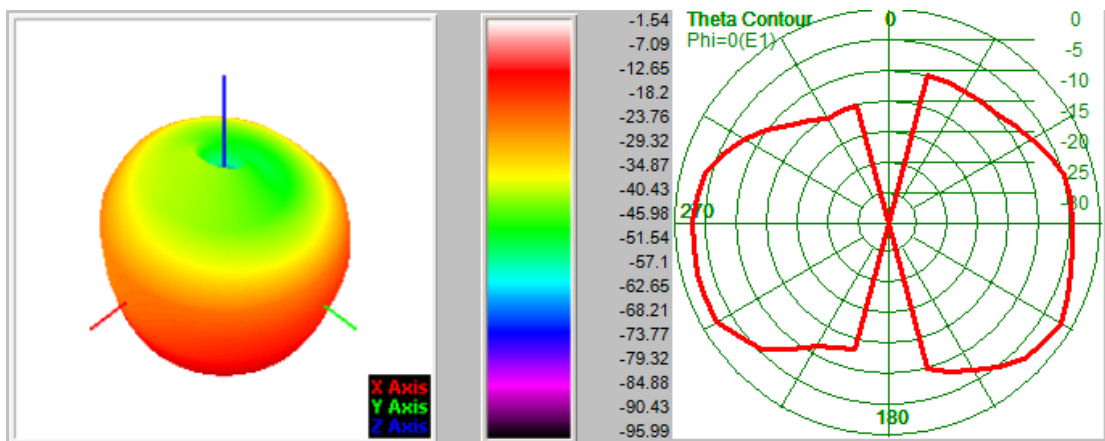
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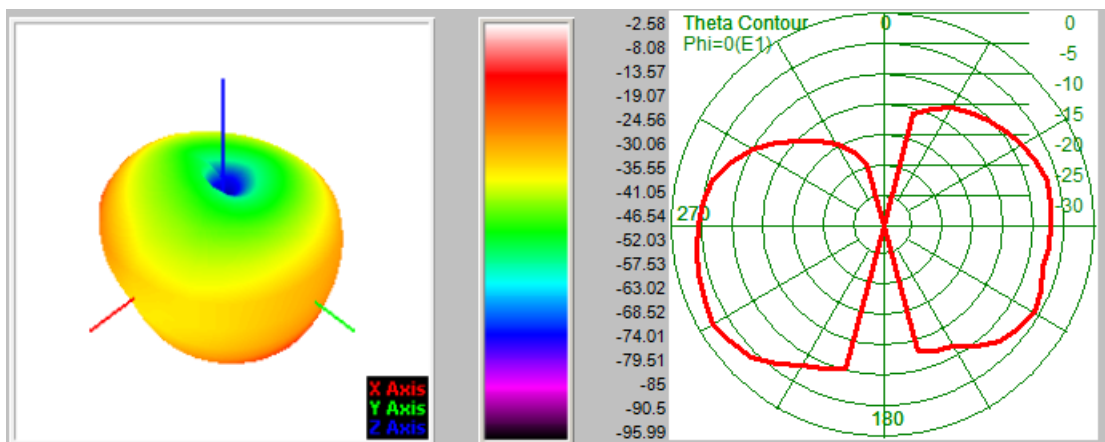
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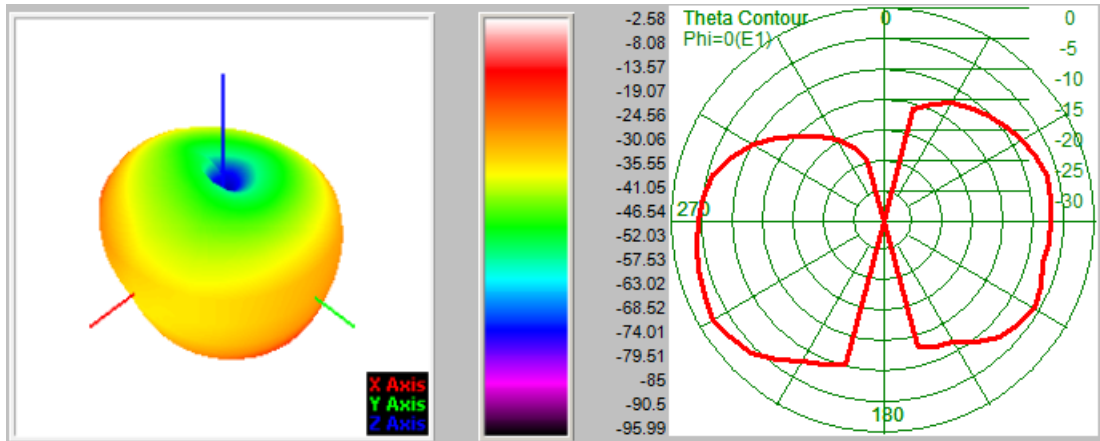
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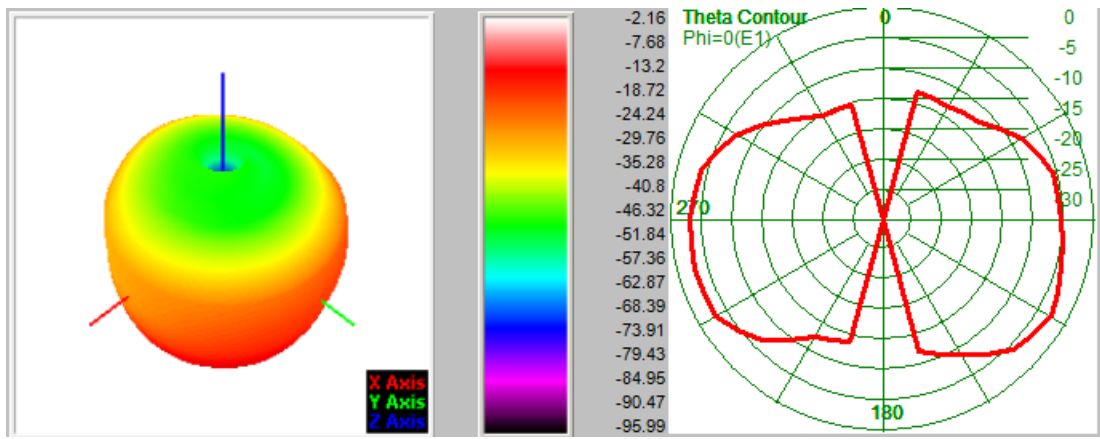
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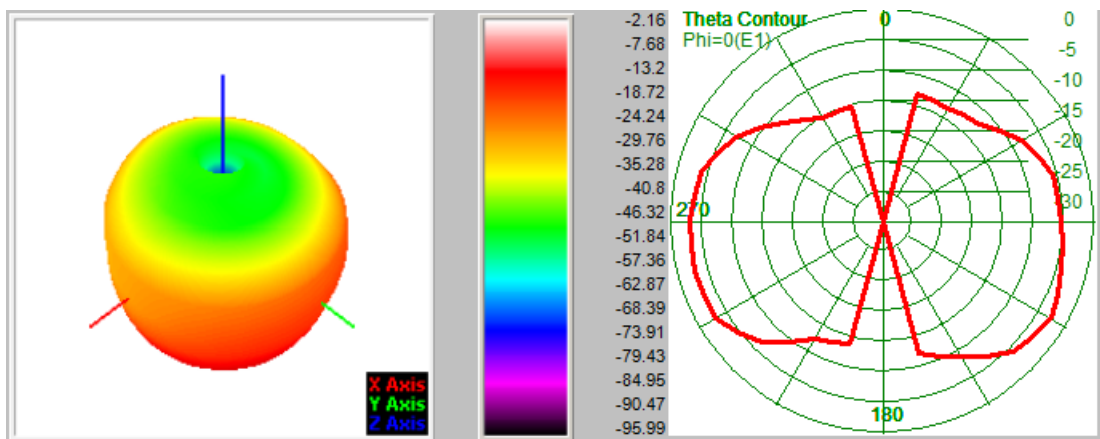
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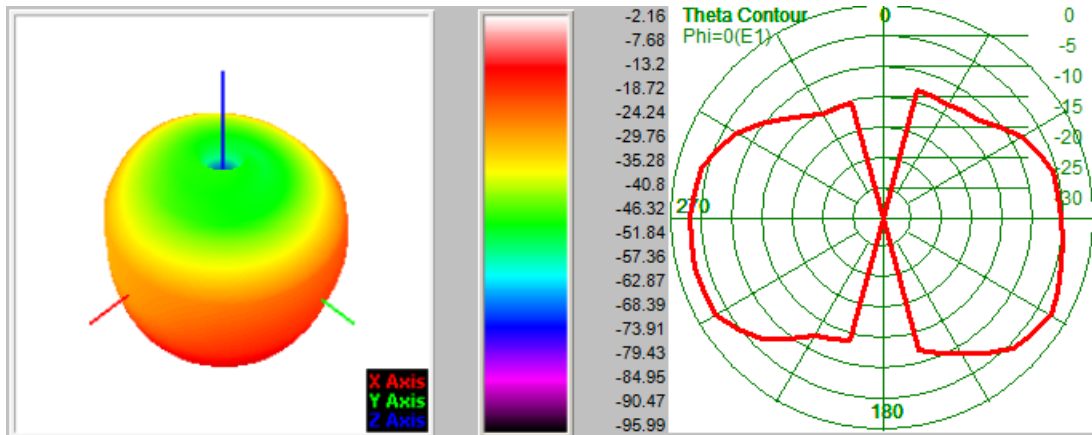
FDD-B18



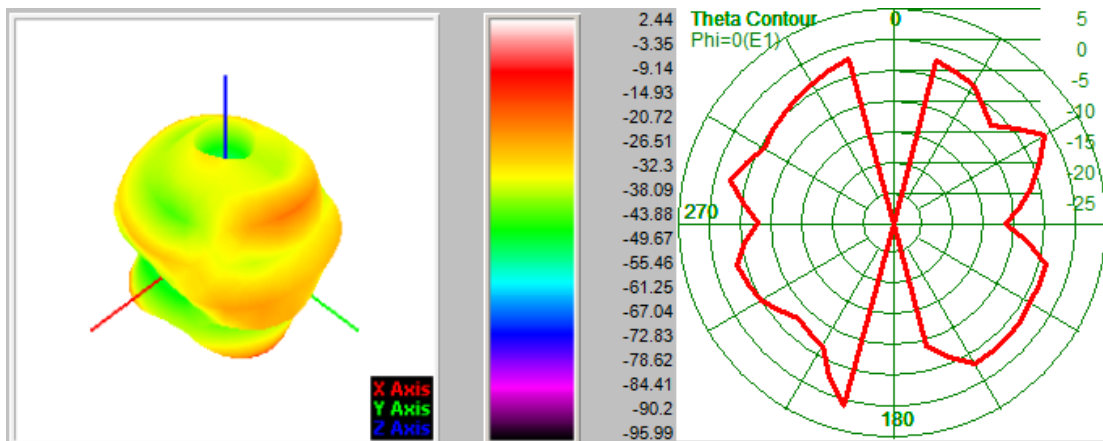
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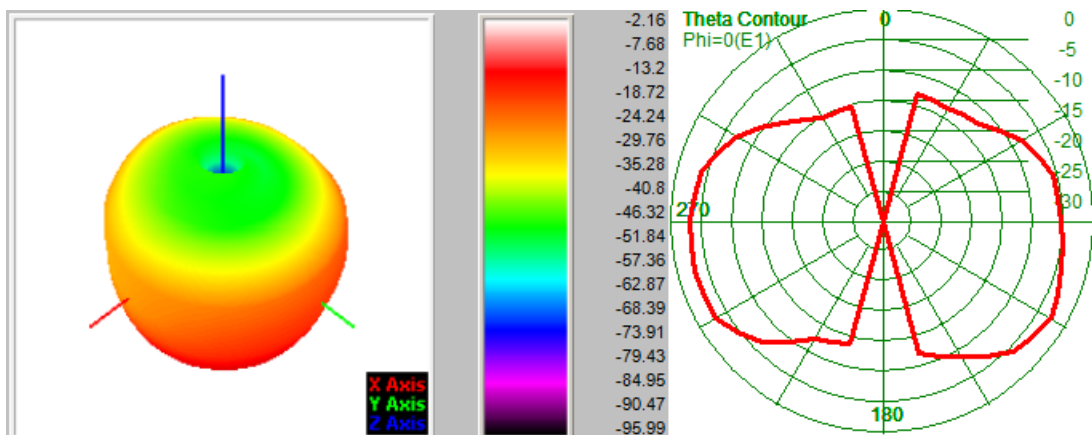
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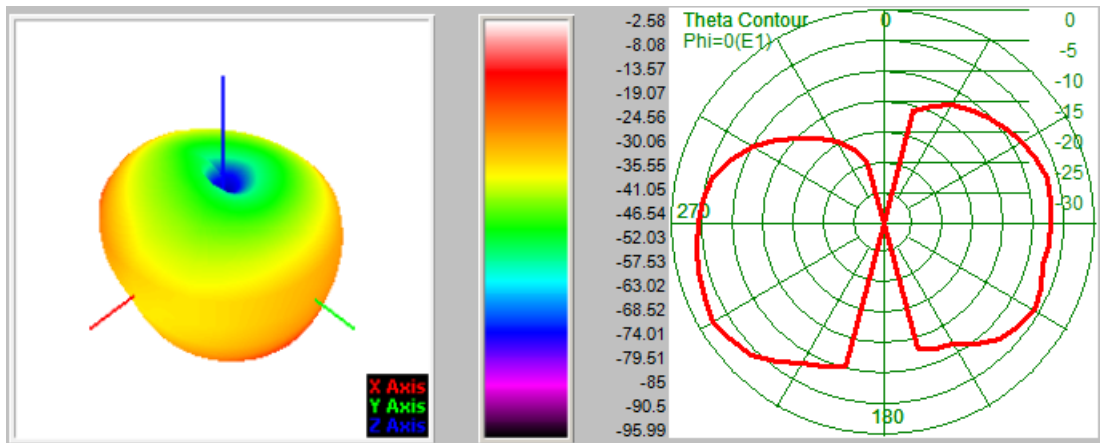
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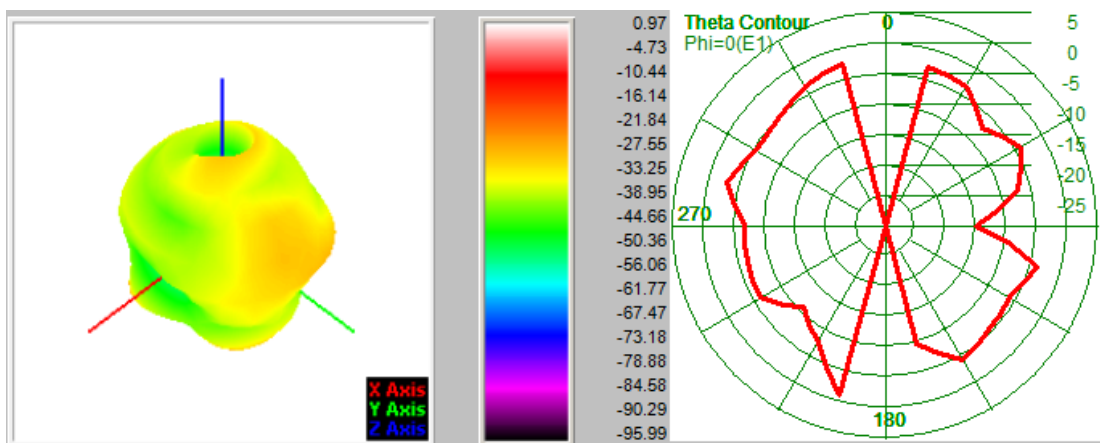
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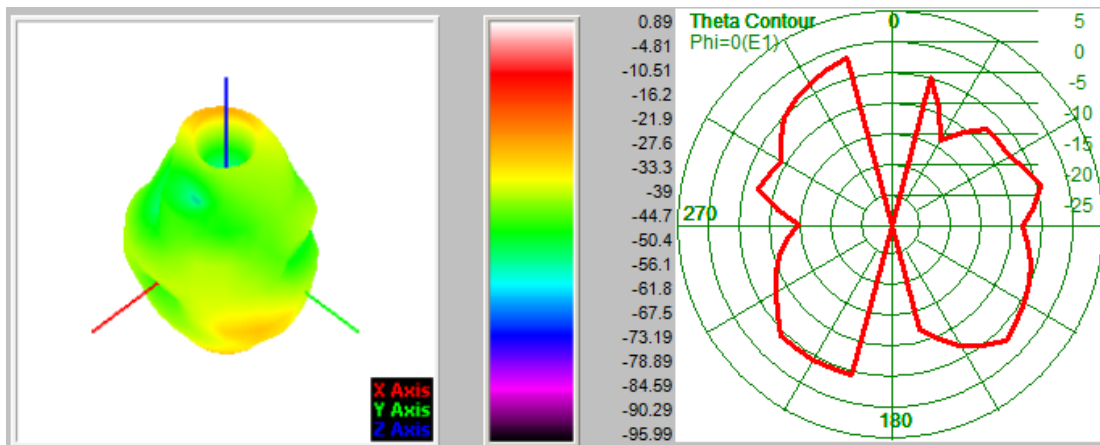
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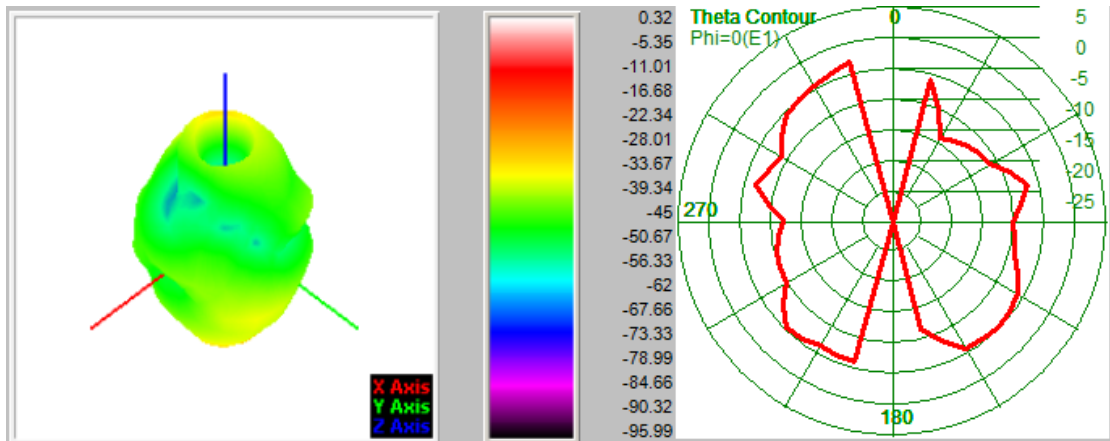
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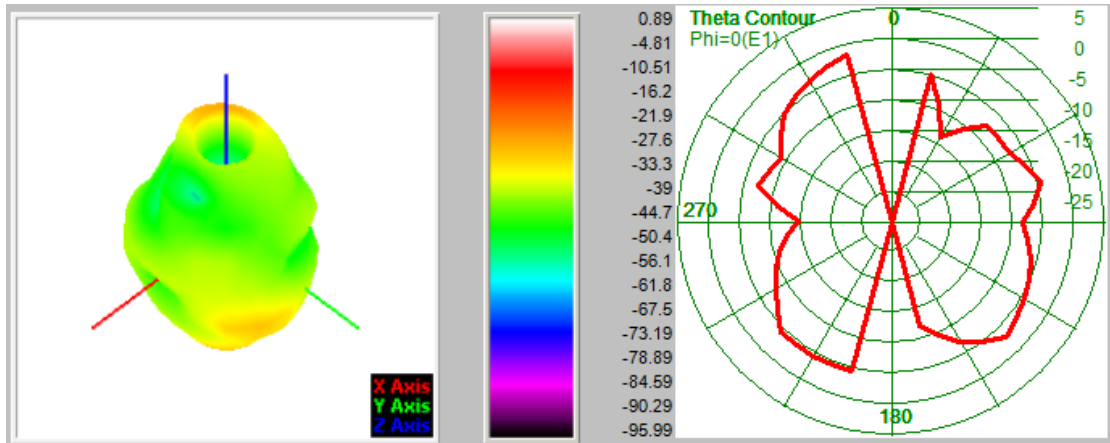
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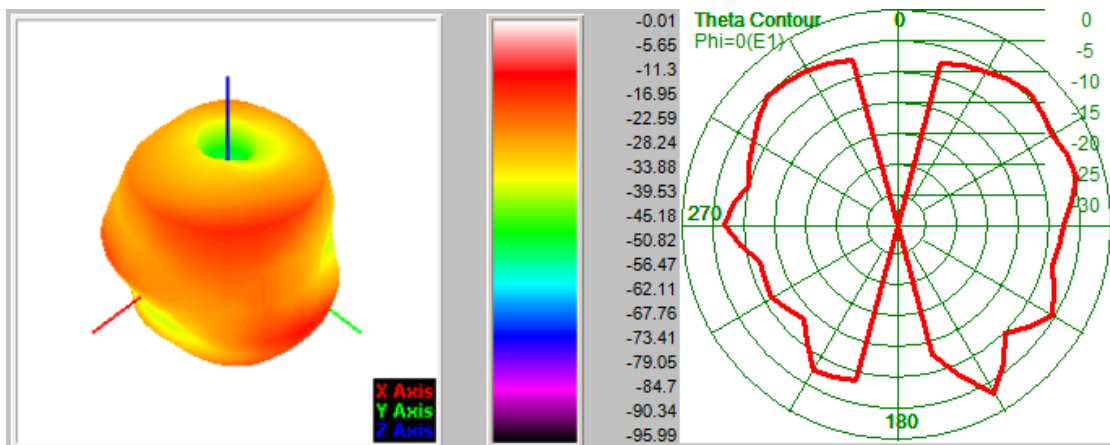
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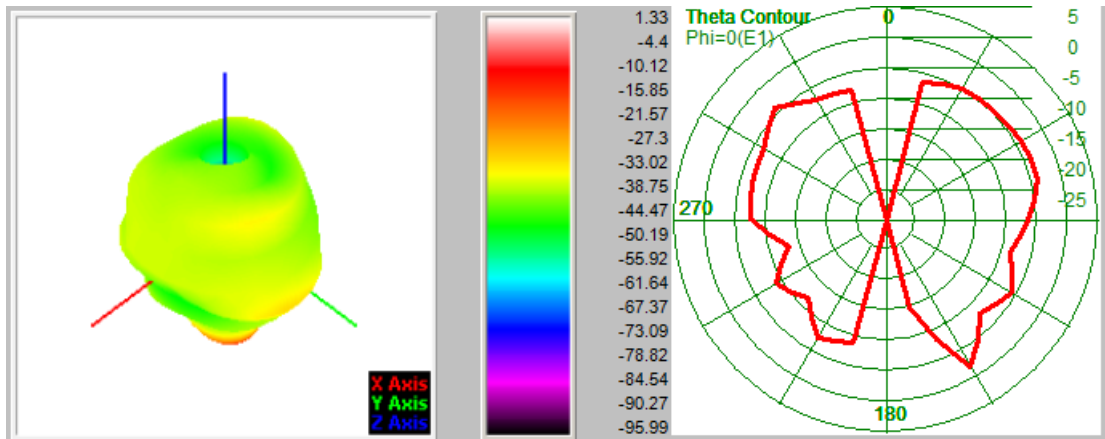
TDD-B41



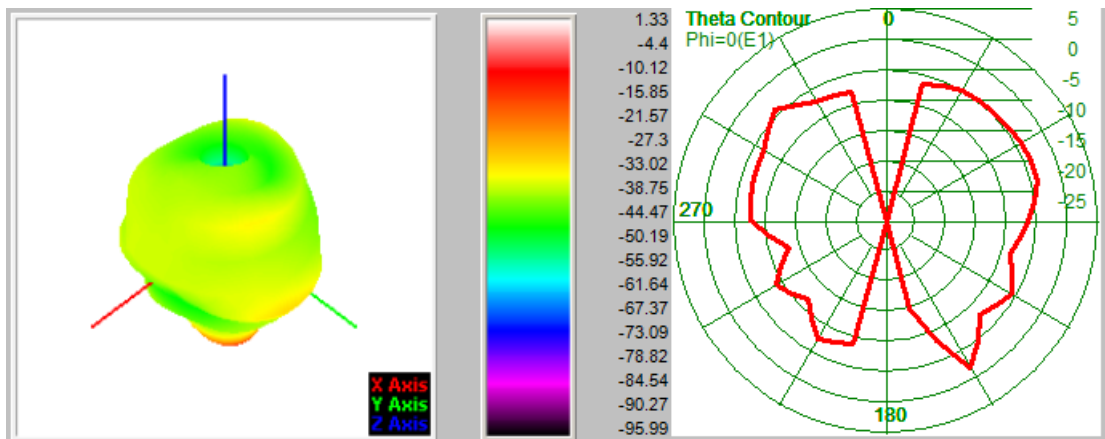
GPS



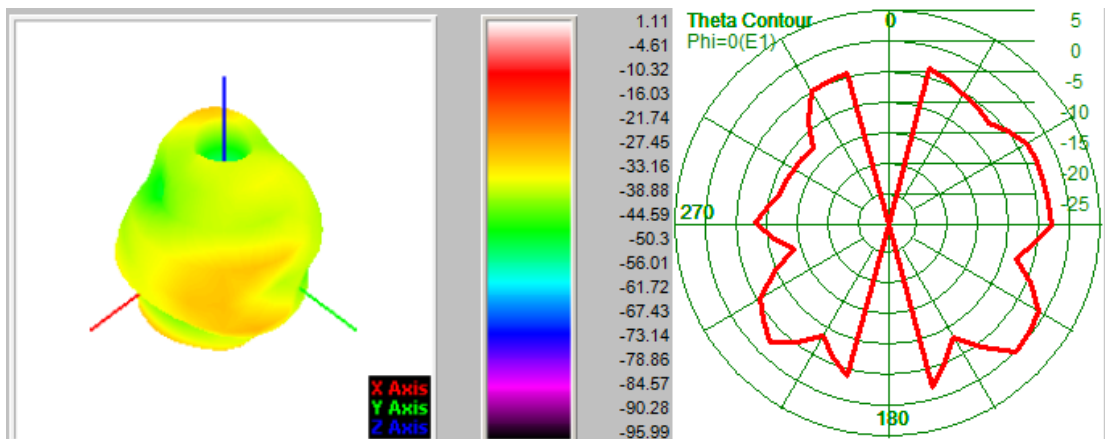
BT



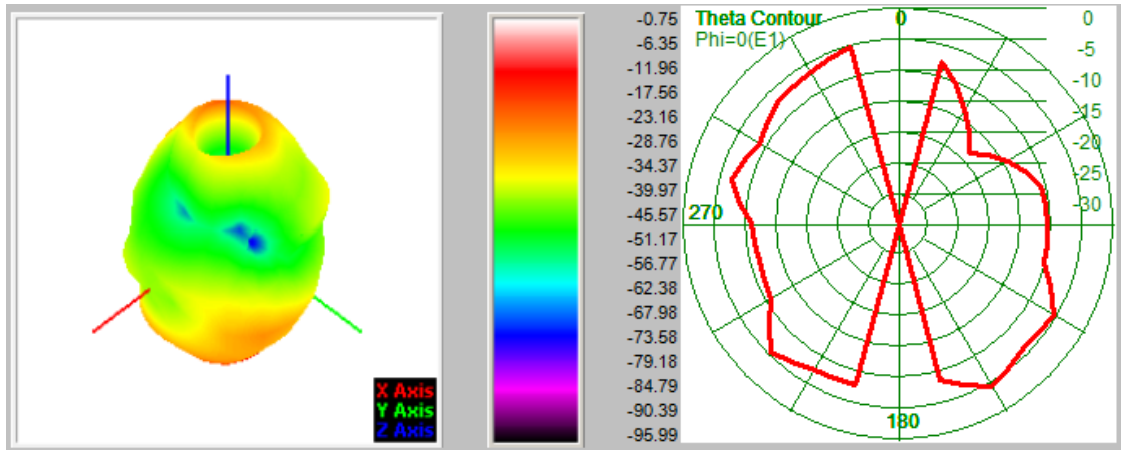
2.4G-WIFI



5.1G-WIFI



5.8G-WIFI



9.Introduction to Antenna Information

P03C	
Antenna type and frequency band	<p>MAIN ANTENNA(PIFA):2G/3G/4G</p> <p>DIV ANTENNA(PIFA):2G/3G/4G</p> <p>GPS/WIFI/BT ANTENNA(PIFA):L1/2.4GWIFI/5G</p> <p>WIFI/BT</p>
Antenna materia	FPC