

Shenzhen Qixin Tongda Technology Co., Ltd

Antenna Test Data Report

客户: OUQI

项目: S132

GSM: B2/B3/B5/B8

WCDMA: B1/B2/B4/B5/B8/B19

TDD: B34/B38/B39/B40/B41F

FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/B20/B25/B26/B28AB/

B66/B71

5G: n1/n2/n3/n5/n7/n8/n20/n28/n38/n40/n41/n66/n71/n77/n78

工程: 傅工 (187 1893 6792)

日期: 2024-04-9

1. Test Project

	Test Project	Equipment
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

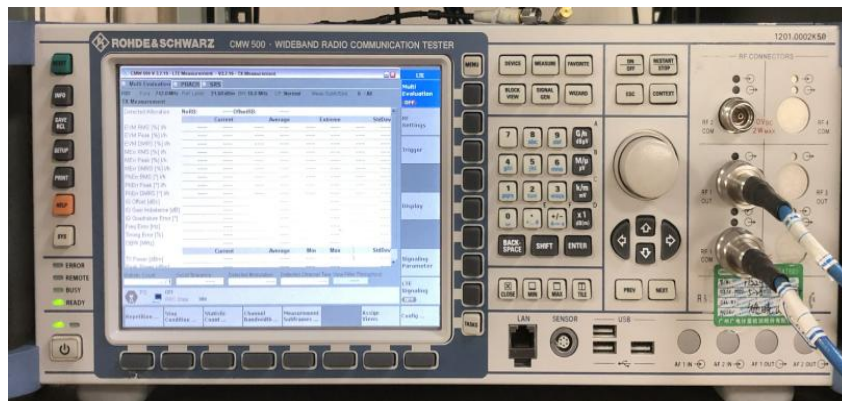
2. Test Equipment



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



Agilent 8960 (2G/3GTest Equipment)

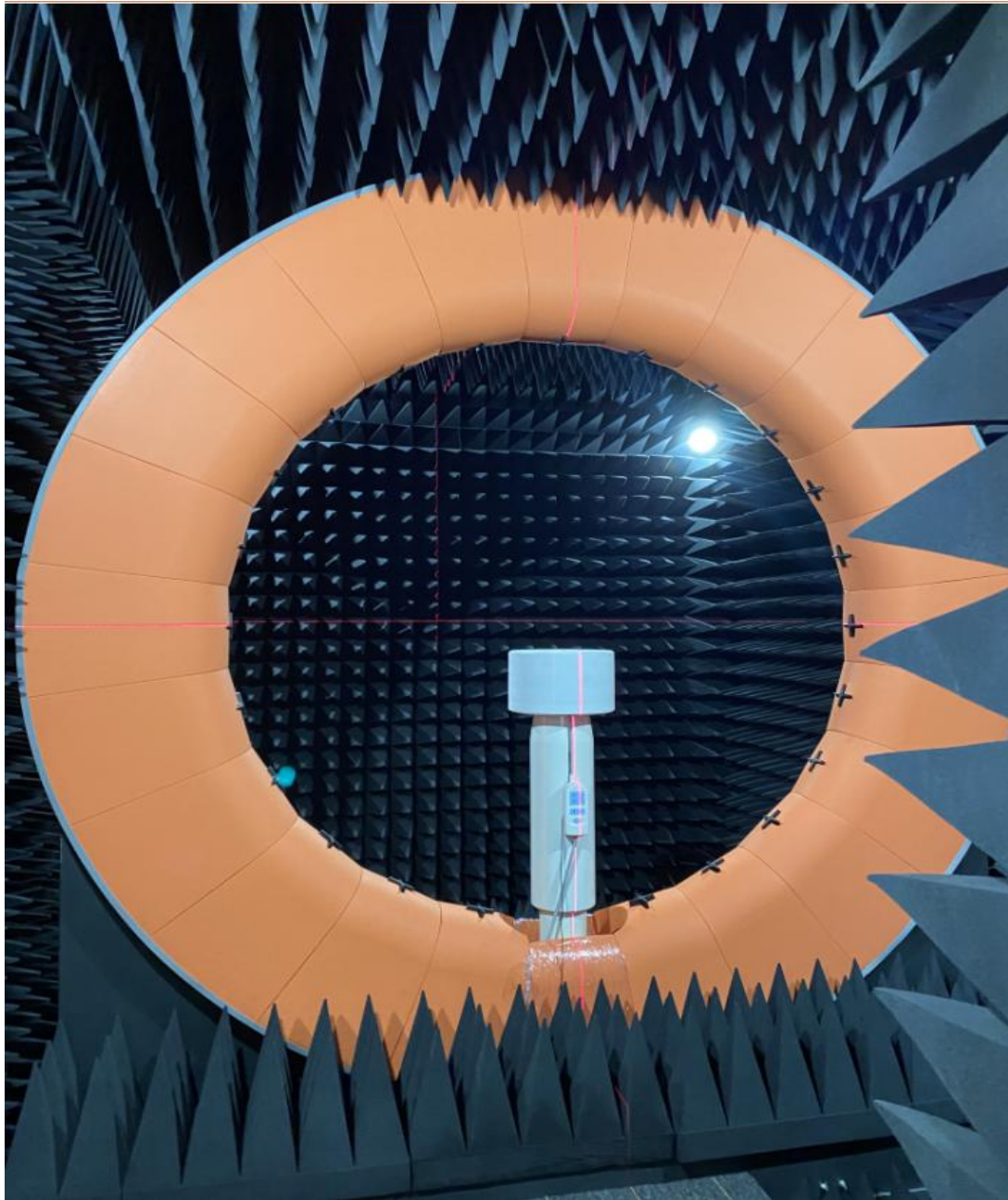


CMW 500 (2G/3G/4GTest Equipment)



SP9500 (5GTest Equipment)

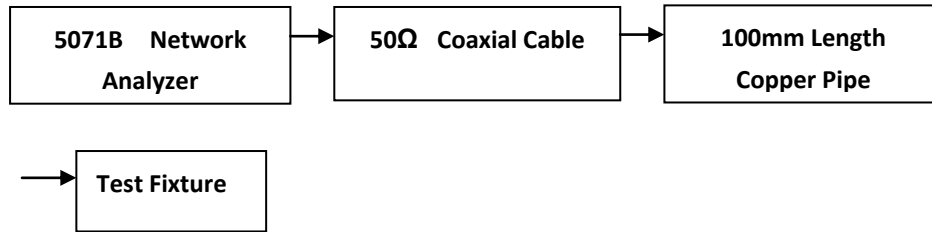
3. TestEnvironment



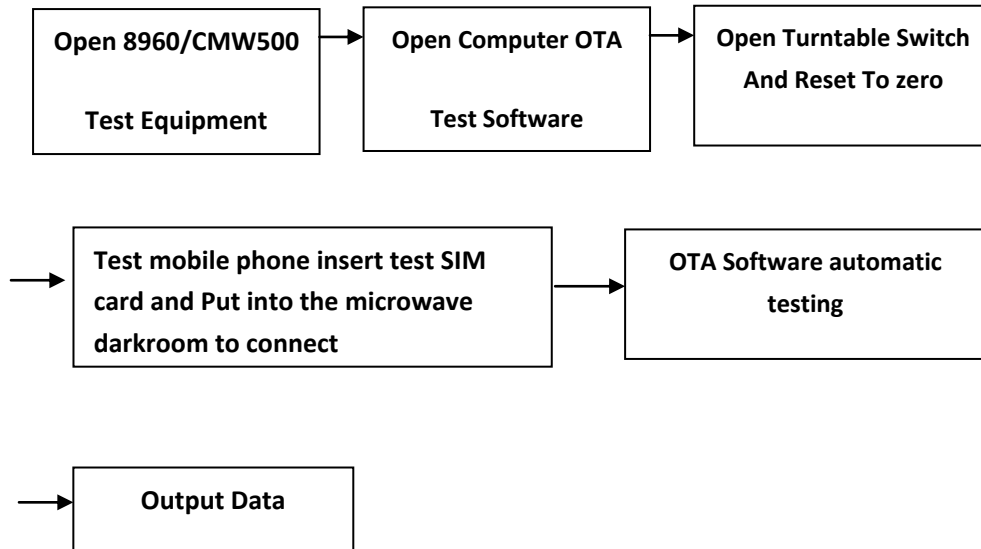
Microwave Anechoic Chamber

4. Test Steps

Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:



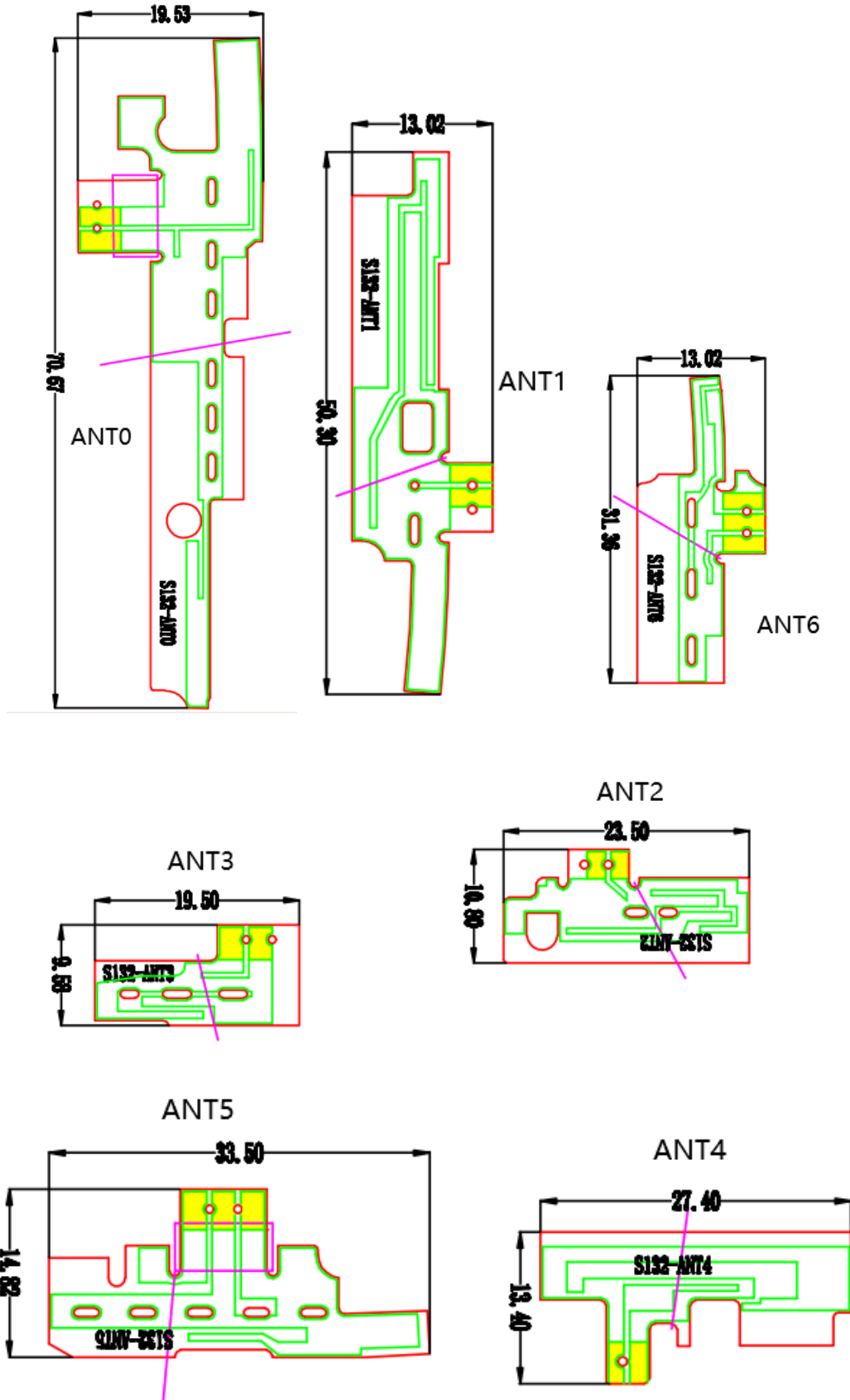
5. Antenna frequency band distribution

		ANT0	ANT1	ANT2	ANT3	ANT4	ANT5	ANT6
		GSM: E2/E3/E5/E8 WCDMA: E1/E2/E4/E5/E8/E19 TD-SS: B34/B39/B40/B41F FDD: B1/B2/B3/E4/E5/E7/E8/E12/E13/E17/E18/E19/E20/B25/B26/B28A/B28B/B66/B71 5G: n1/n2/n3/n5/n7/n8/n20/n28/n38/n40/n41/n66/n71/n77/n78						
LB	112R	S/SMB50/GSM900/W5/W6/W19/B5/B8/B12/B17/B18/B19/B20/B26/B28A/B/B11/n5/n6/n20/n28/n71/B13	T_P	D与ANT0 DPDT	/	/	/	/
MEB	112R	PCS1800/PCS1900/W1/W2/W4/B2/B1/B25/B34/B39/B40/B66/n2/n66/	T_P	D与ANT0 DPDT	/	/	/	/
MEB	114R	B1/B3/B4	T_P	D与ANT0 DPDT	FRX2	DRX2	/	/
MEB	112R	B7/38/40/41---n40	D与ANT0 DPDT	T_P	/	/	/	/
MEB	114R	n1/n3	T_P	/	FRX2	DRX2	DRX	/
NR, MEB	114R	n38/n41 (SRS) n71/112R	/	T_P	FRX2	DRX2	/	DRX
SUB6	114R	n77/n78 (SRS)	/	/	FRX2	DRX2	T_P	DRX
WIFI		GPS L1+2.4G WIFI+5G WIFI	/	/	/	/	/	GPS L1+2.4G WIFI+5G WIFI

6. Antenna distribution diagram



7. Antenna size diagram

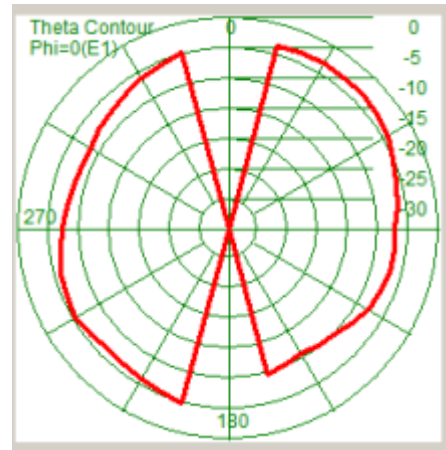
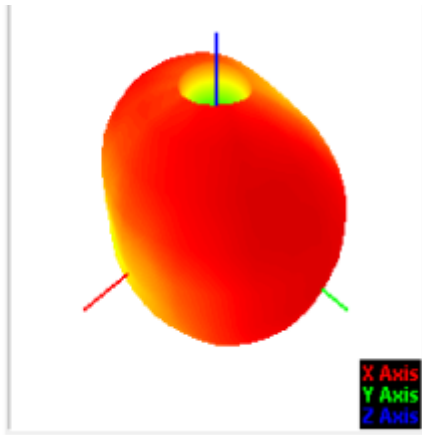
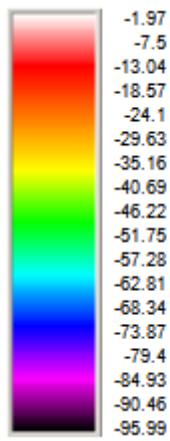


8. Antenna Gain

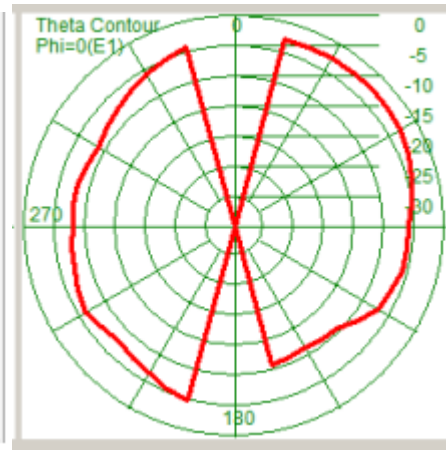
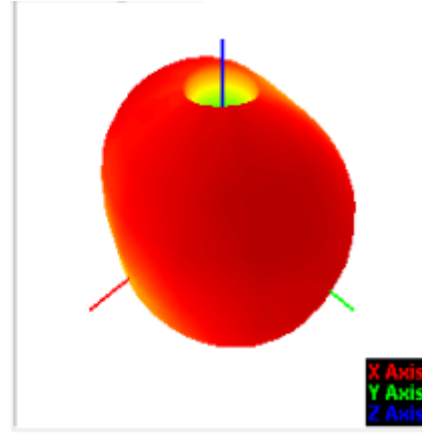
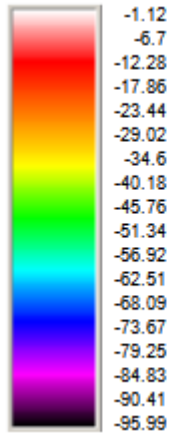
Band	Max Gain	Band	Max Gain
GSM850	-1.97	NR-B1	-0.07
GSM900	-1.12	NR-B2	-0.94
DCS1800	-0.99	NR-B3	-0.99
PCS1900	-0.94	NR-B5	-1.97
WCDMA1	-0.07	NR-B7	0.57
WCDMA2	-0.94	NR-B8	-1.12
WCDMA4	-0.99	NR-B12	-2.53
WCDMA5	-1.97	NR-B20	-1.97
WCDMA8	-1.12	NR-B28	-2.53
WCDMA19	-1.97	NR-B38	0.57
LTE-B1	-0.07	NR-B40	-0.11
LTE-B2	-0.94	NR-B41	0.57
LTE-B3	-0.99	NR-B66	-0.99
LTE-B4	-0.99	NR-B71	-4.43
LTE-B5	-1.97	NR-B77	-0.44
LTE-B7	0.57	NR-B78	-0.18
LTE-B8	-1.12		
LTE-B12	-2.53		
LTE-B13	-2.53	Bluetooth	-0.52
LTE-B17	-2.53	WIFI-2.4G	-0.52
LTE-B18	-1.97	WIFI-5.1G	0.62
LTE-B19	-1.97	WIFI-5.8G	-2.31
LTE-B20	-1.97	GPS	-0.26
LTE-B25	-0.94		
LTE-B26	-1.97		
LTE-B28	-2.53		
LTE-B66	-0.99		
LTE-B71	-4.43		
LTE-B34	-0.07		
LTE-B38	0.57		
LTE-B39	-0.94		
LTE-B40	-0.11		
LTE-B41	0.57		

9.3D Lobe Diagram

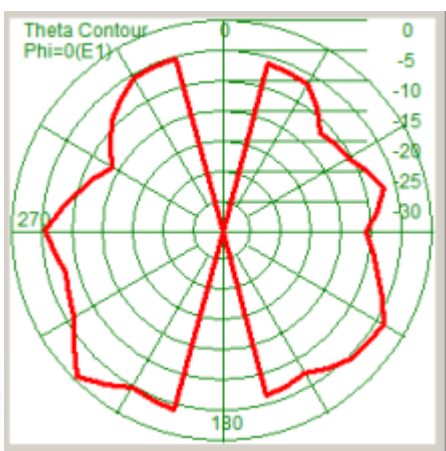
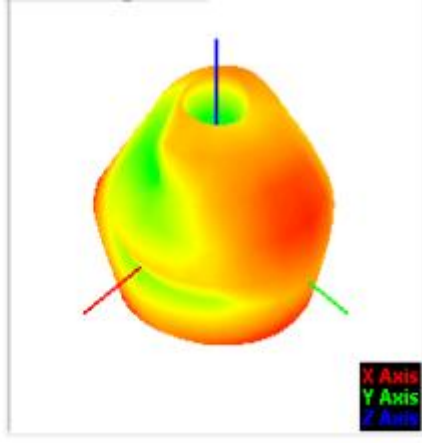
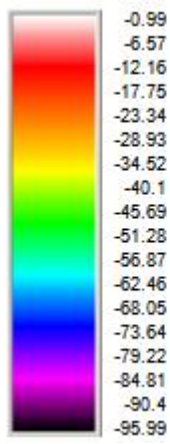
GSM850



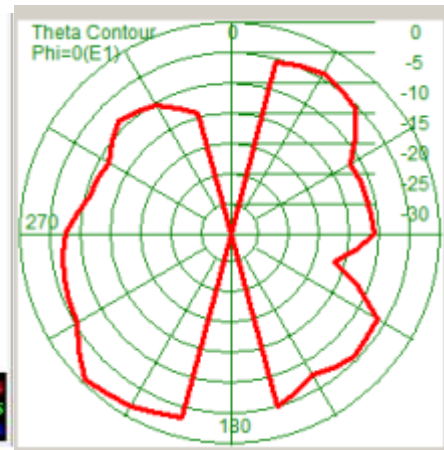
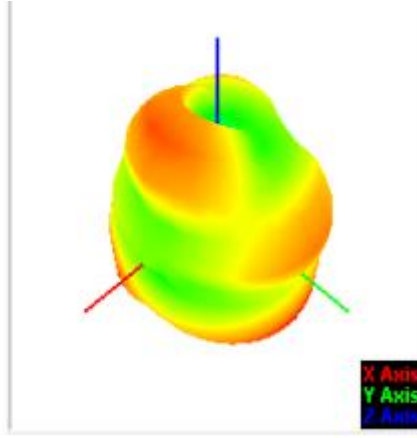
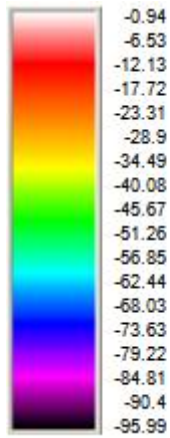
GSM900



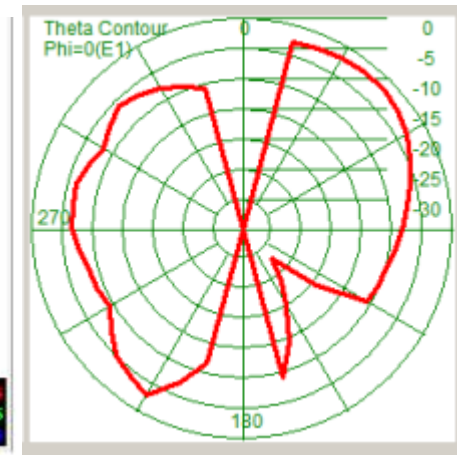
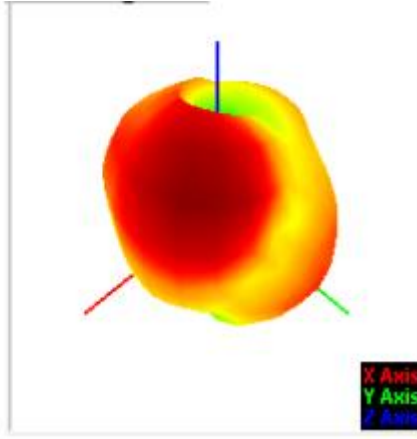
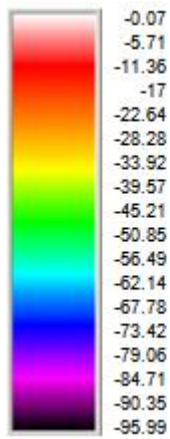
DSC1800



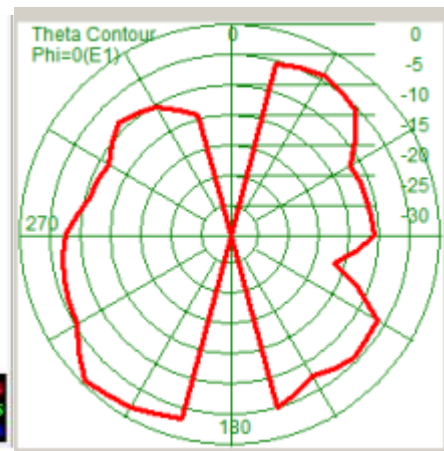
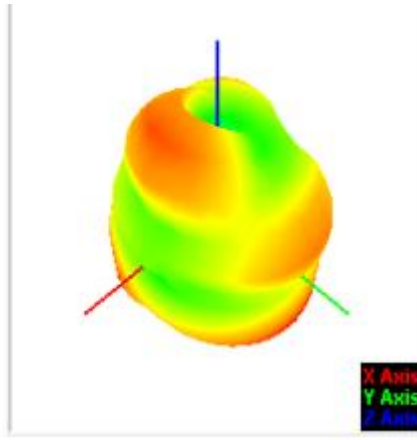
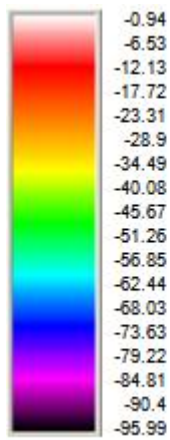
PCS1900



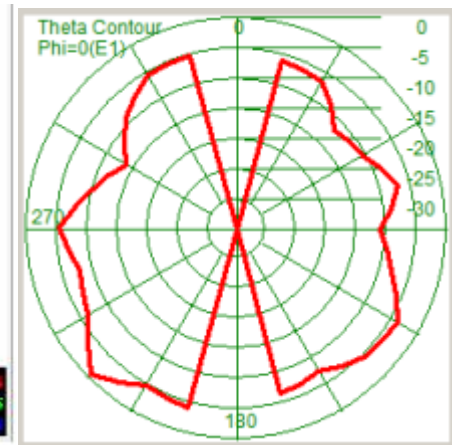
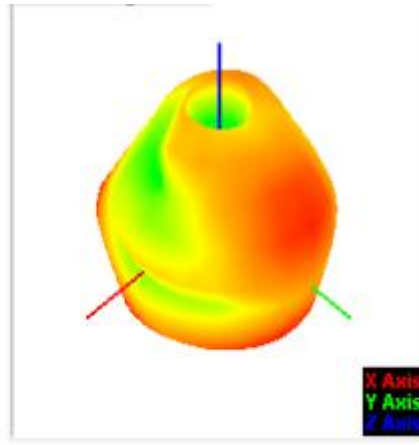
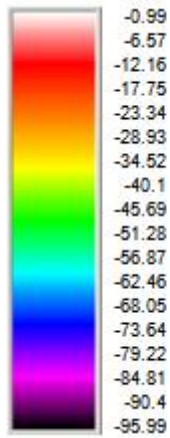
W1



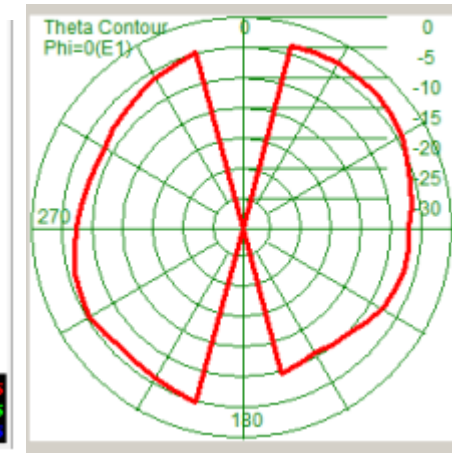
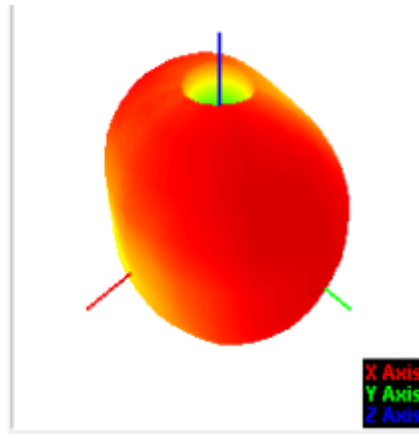
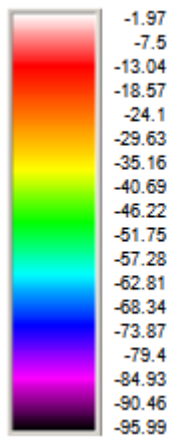
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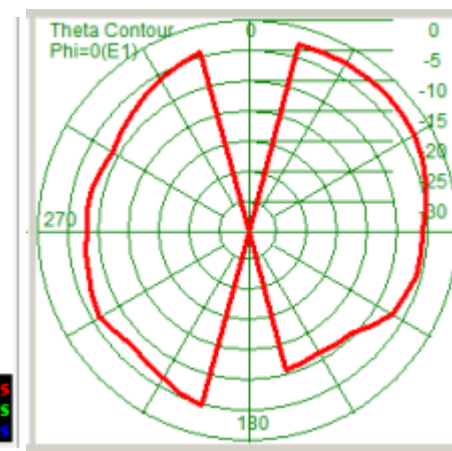
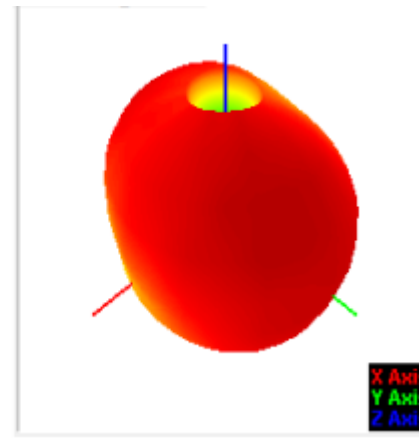
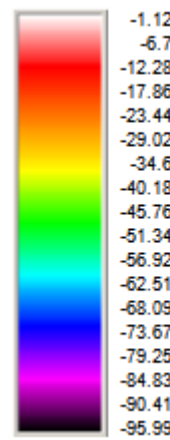
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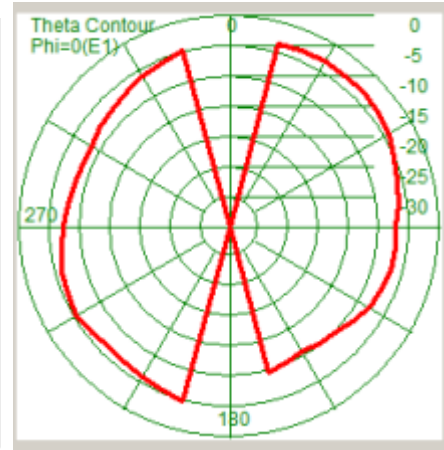
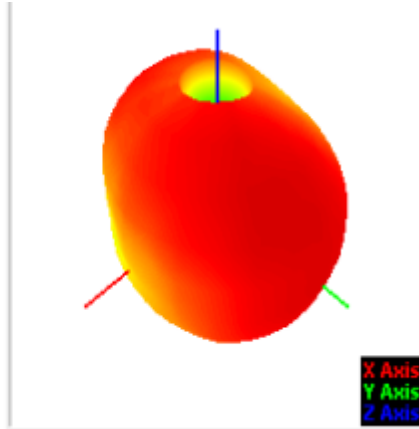
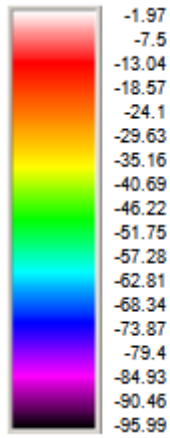
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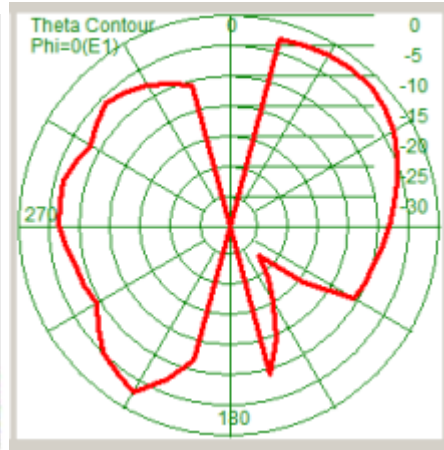
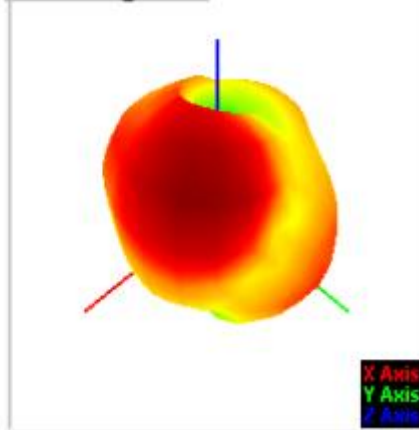
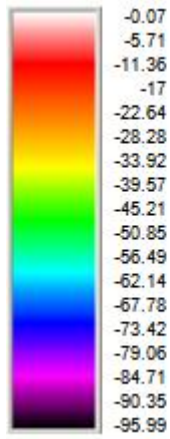
W8



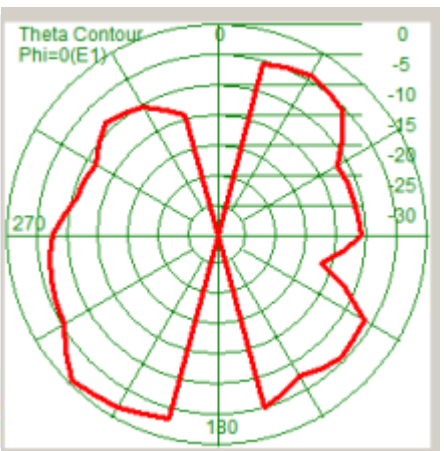
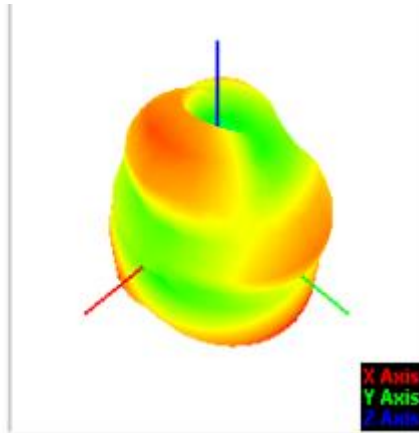
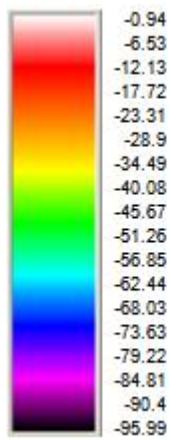
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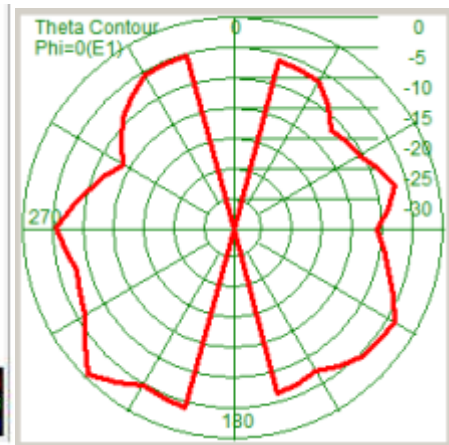
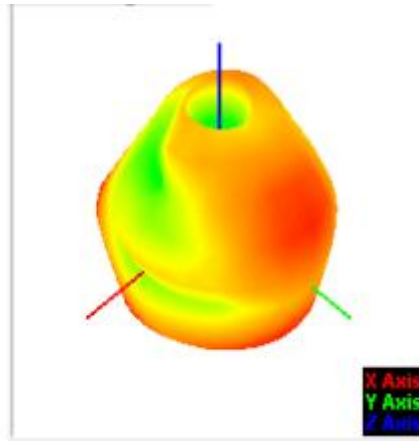
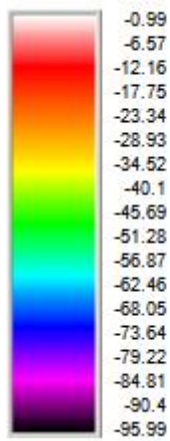
FDD-B1



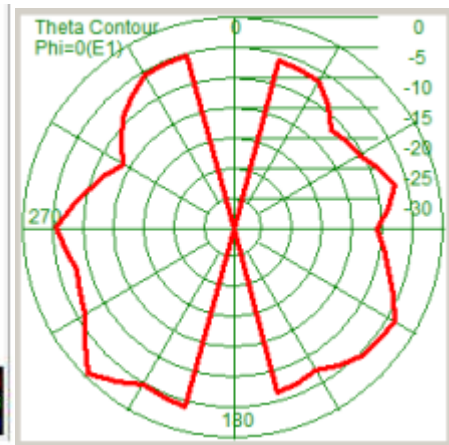
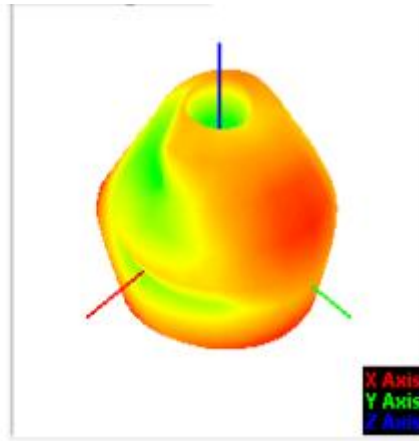
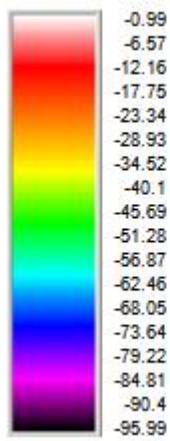
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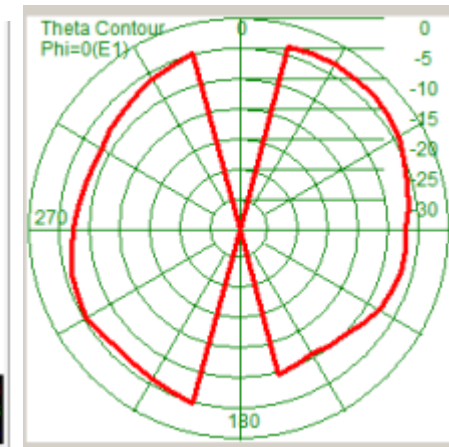
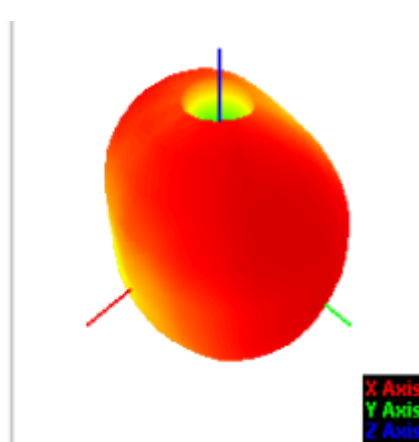
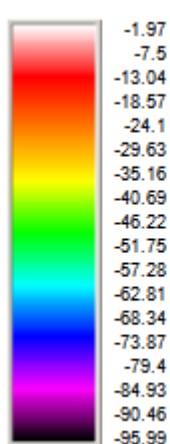
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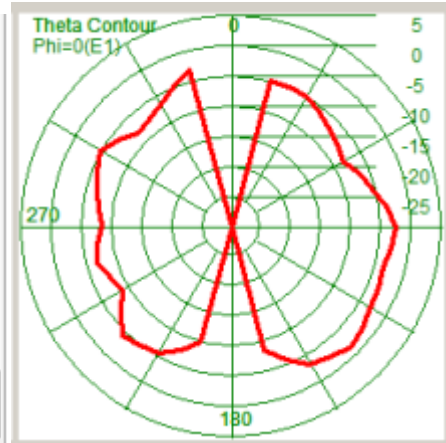
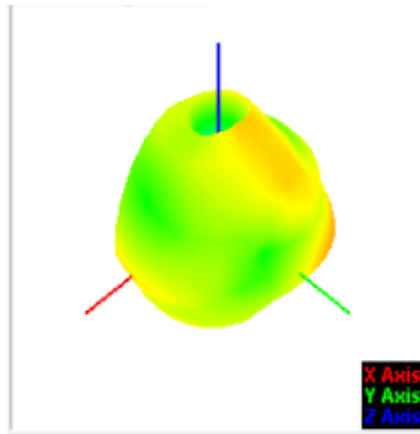
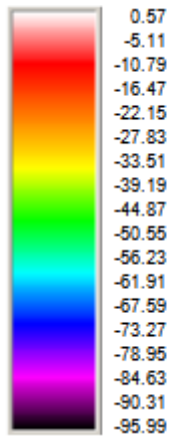
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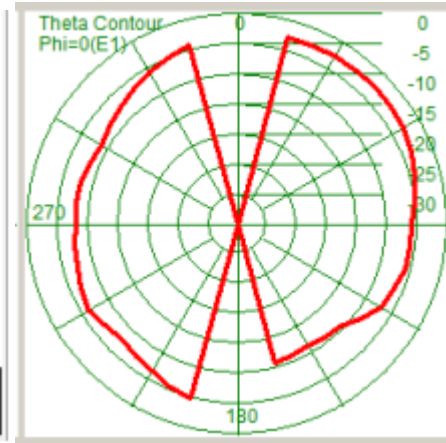
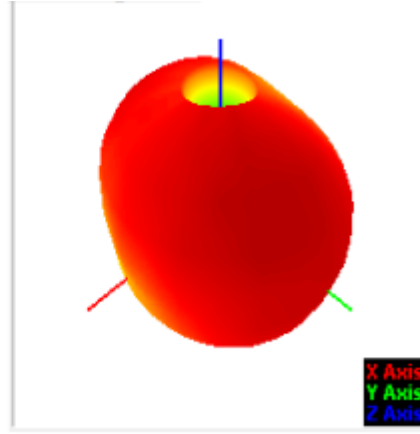
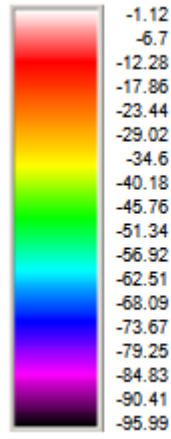
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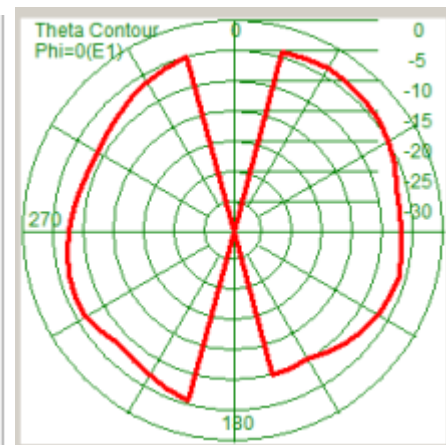
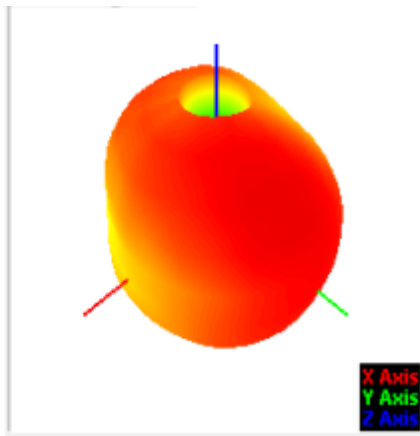
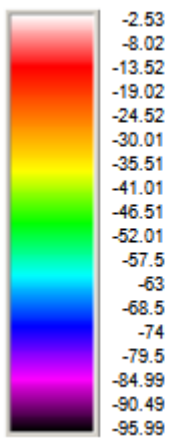
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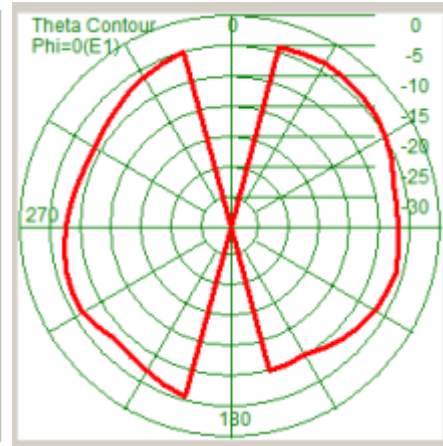
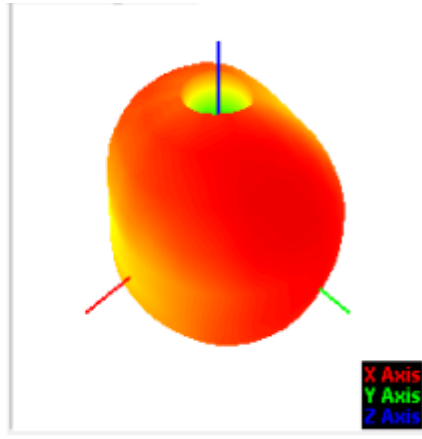
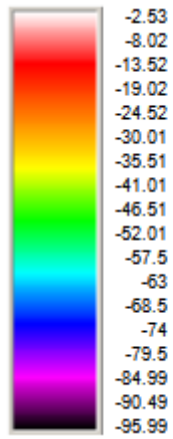
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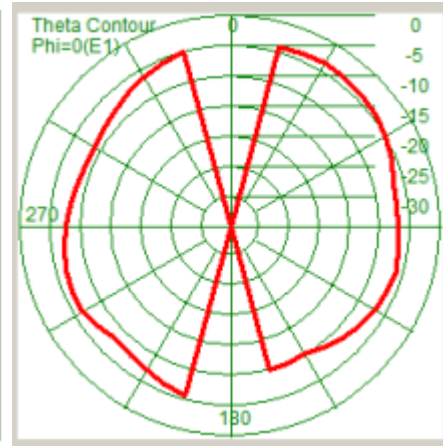
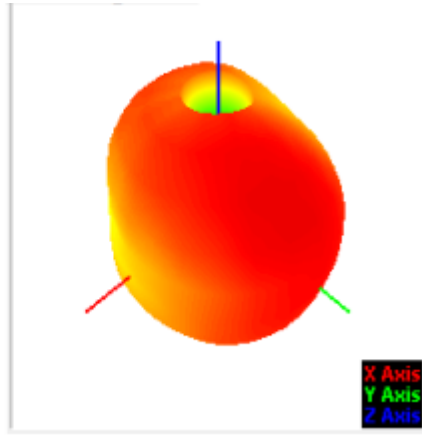
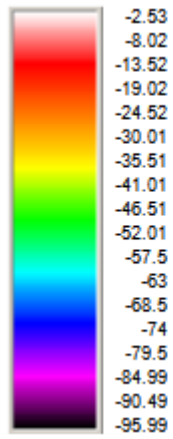
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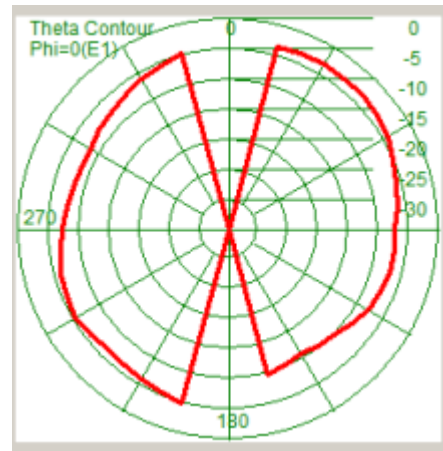
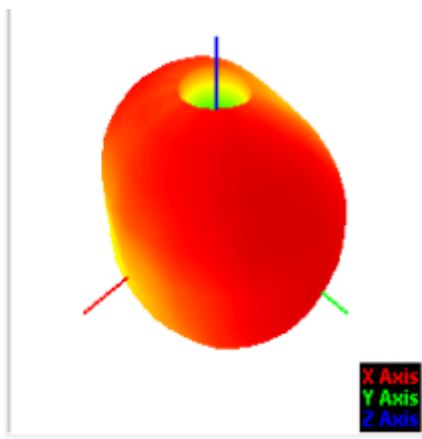
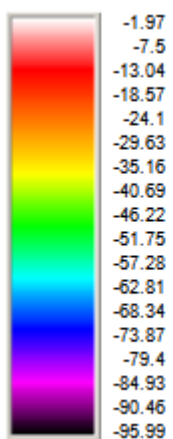
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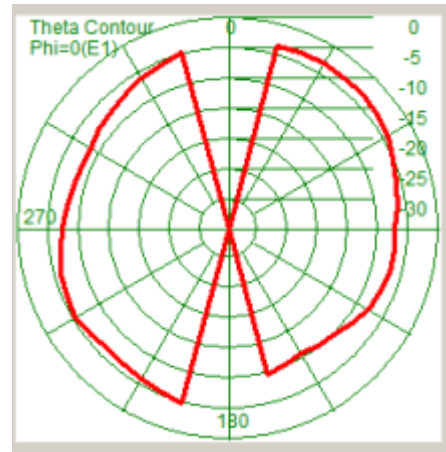
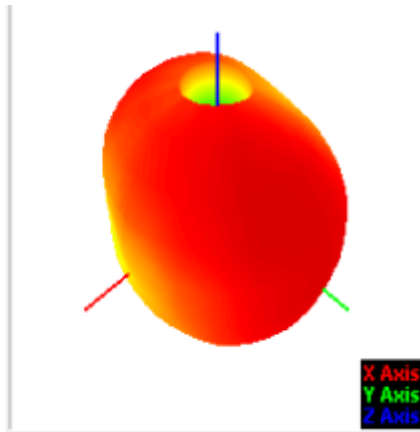
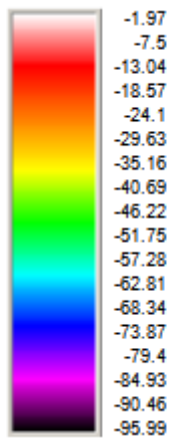
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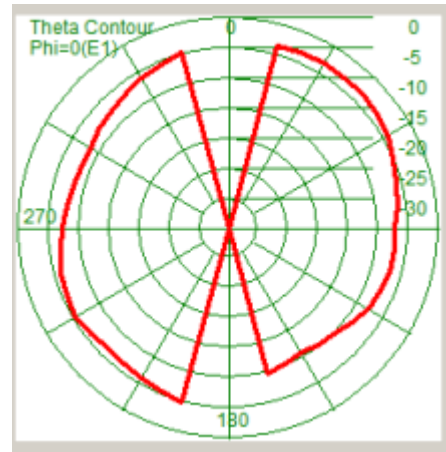
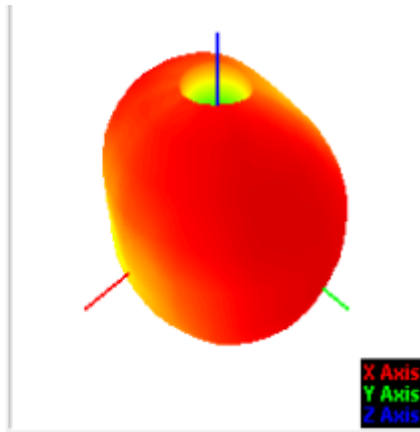
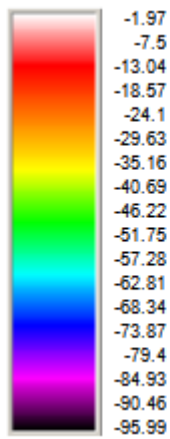
FDD-B18



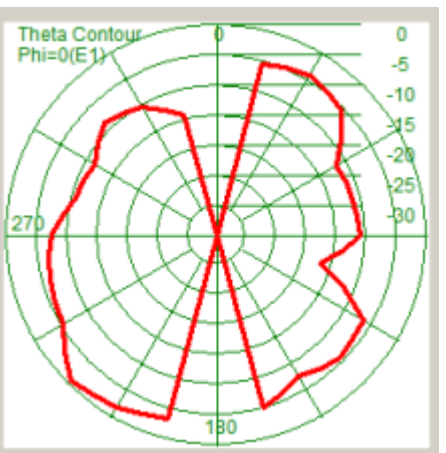
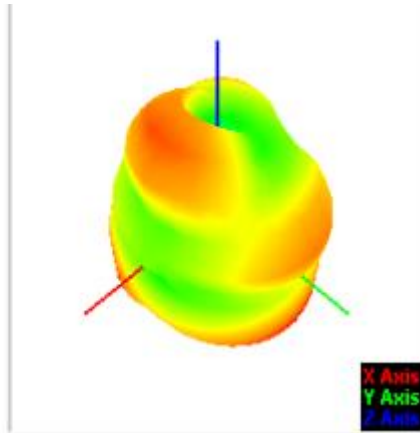
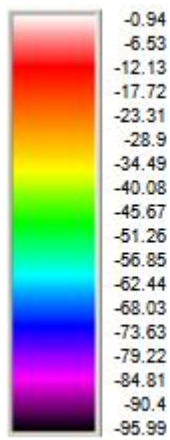
FDD-B19



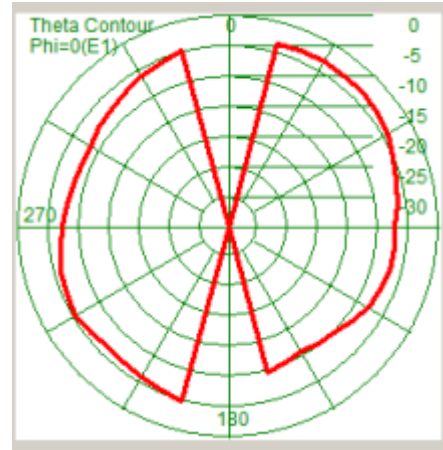
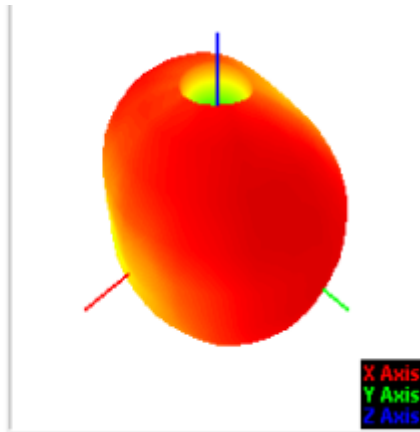
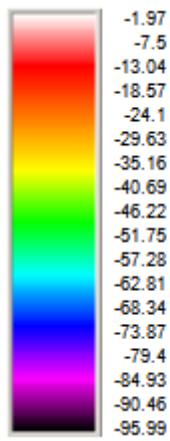
FDD-B20



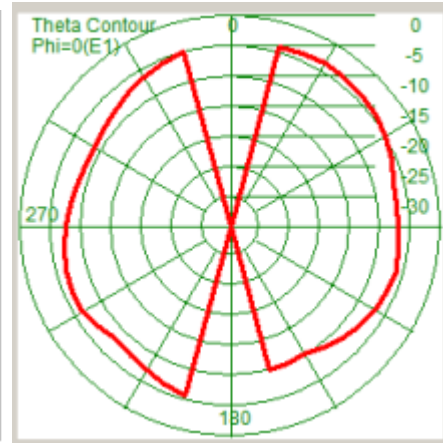
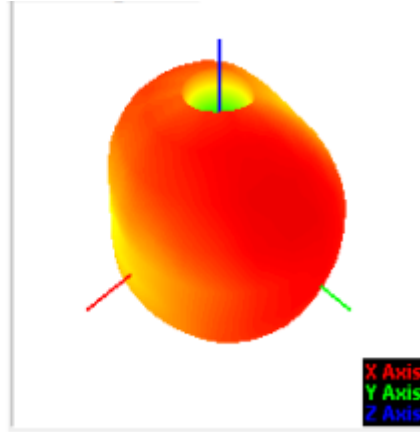
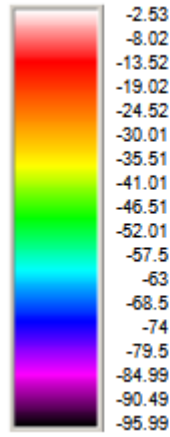
FDD-B25



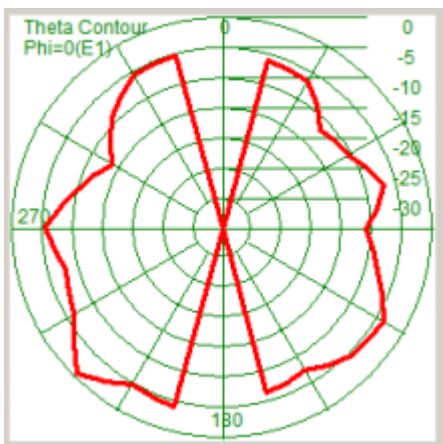
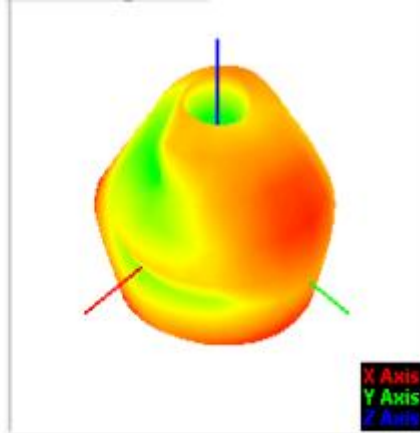
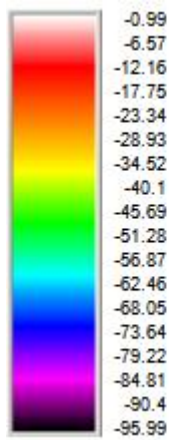
FDD-B26



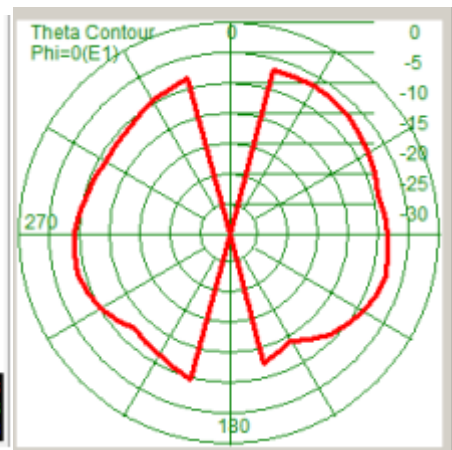
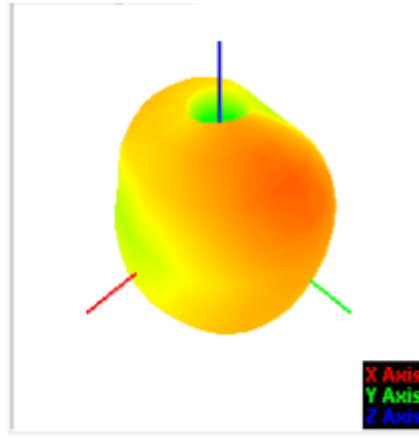
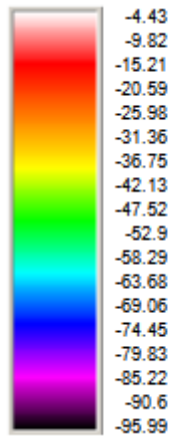
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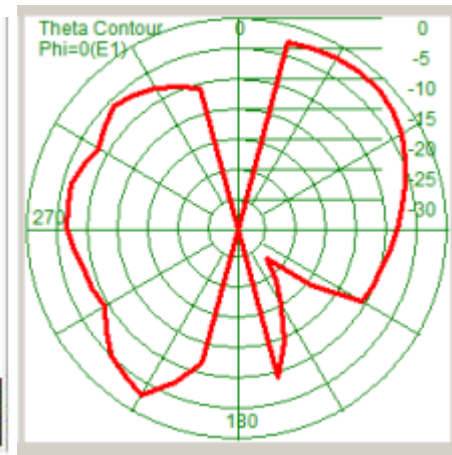
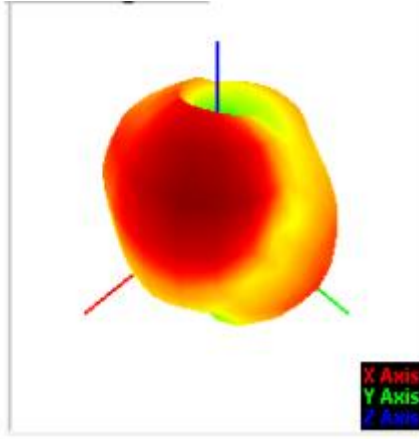
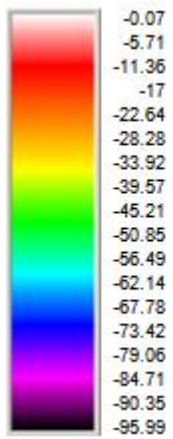
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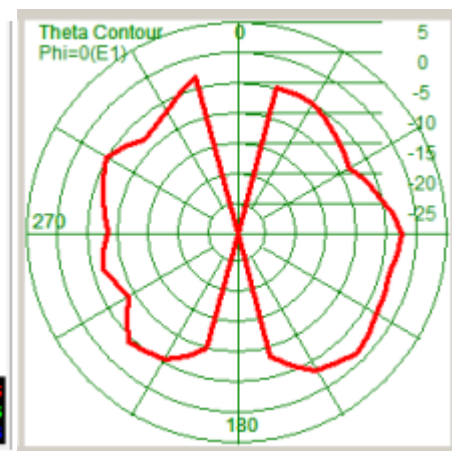
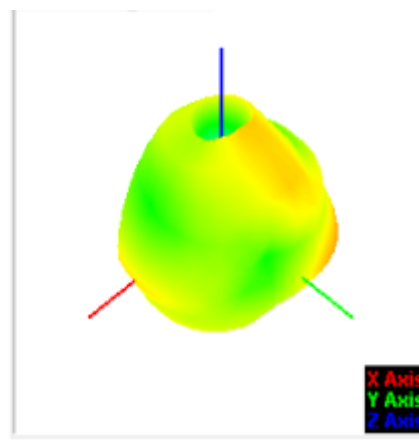
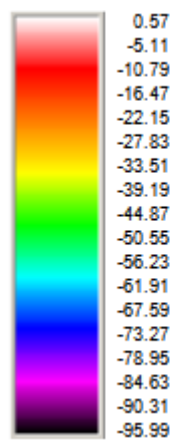
FDD-B71



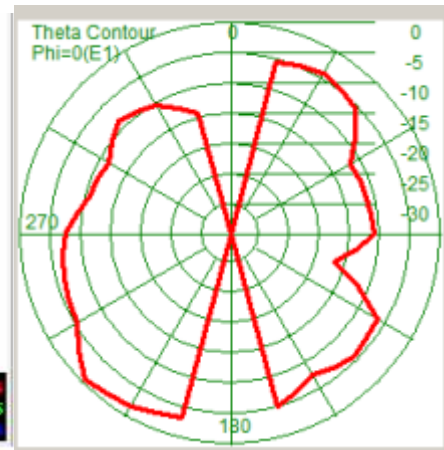
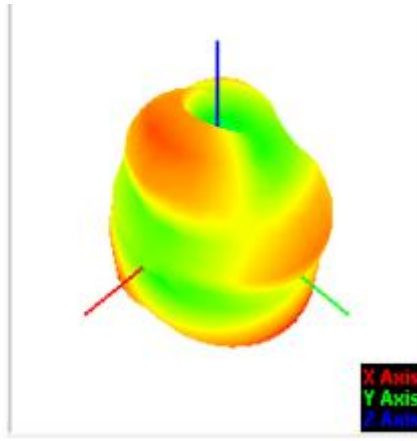
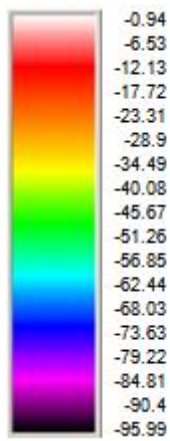
TDD-B34



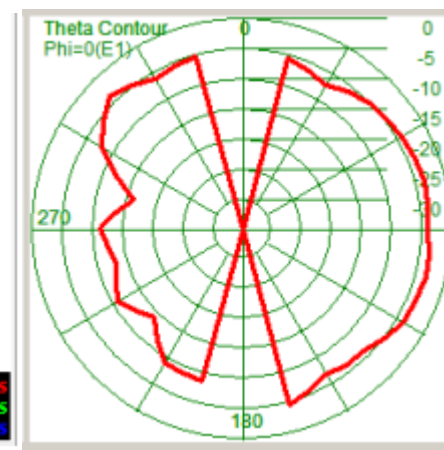
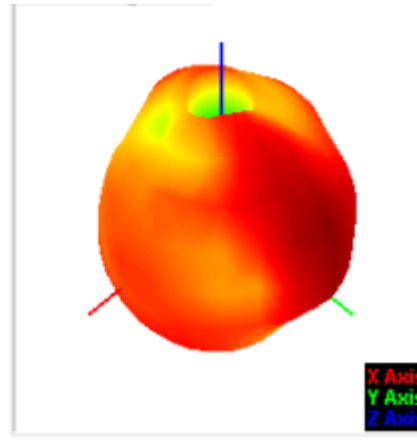
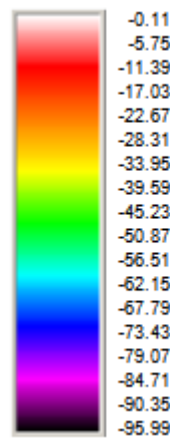
TDD-B38



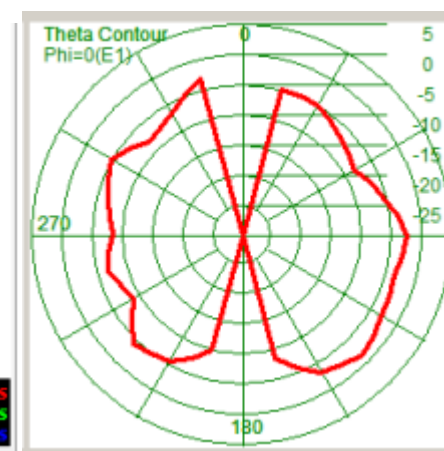
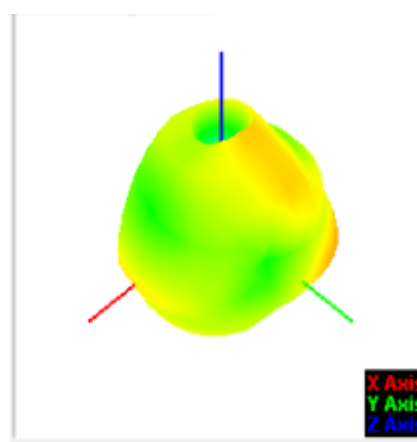
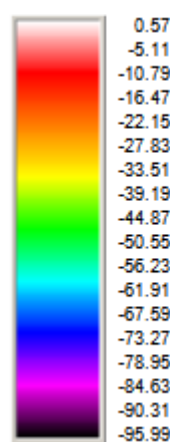
TDD-B39



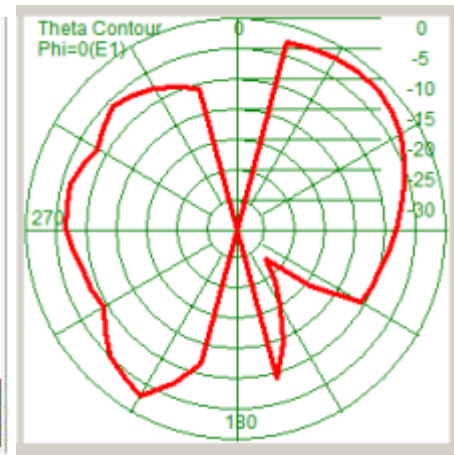
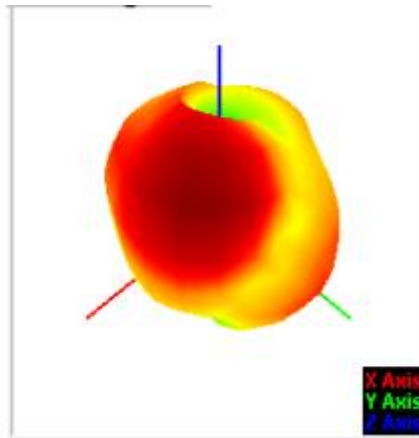
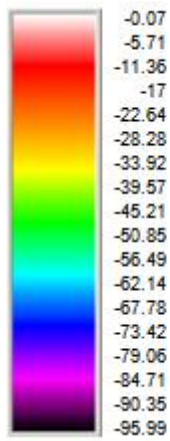
TDD-B40



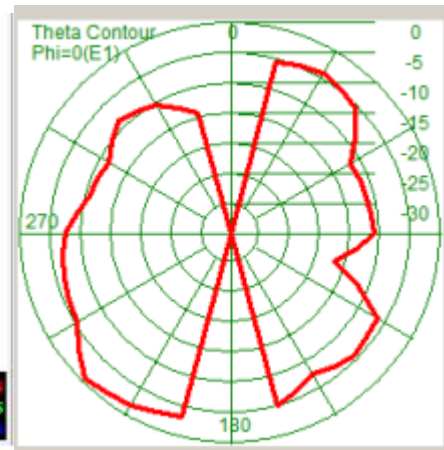
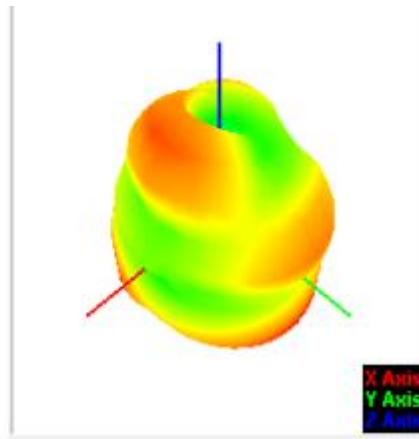
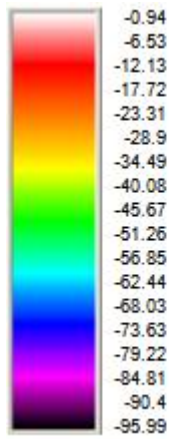
TDD-B41



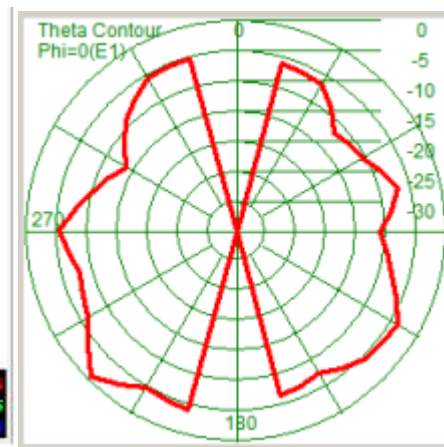
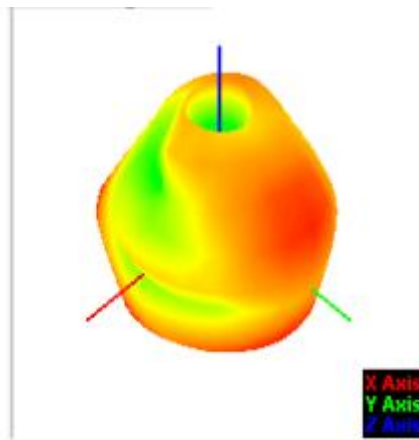
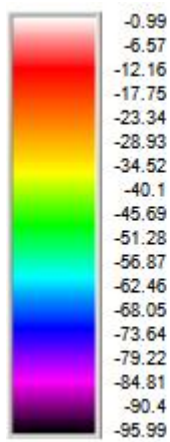
NR-1



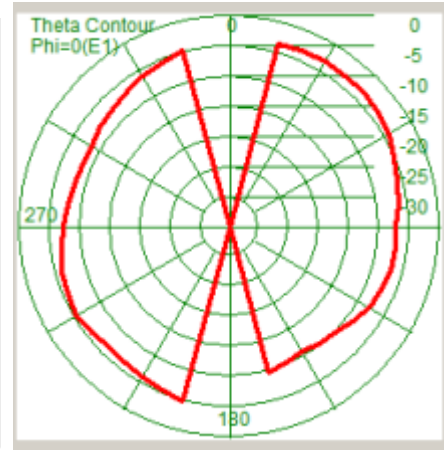
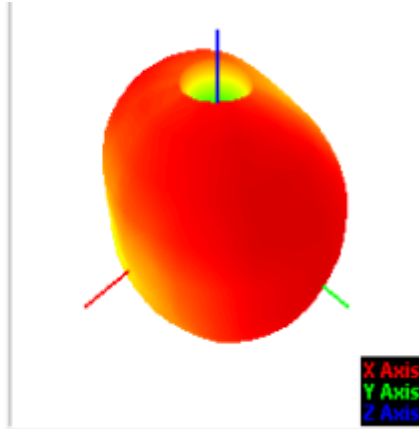
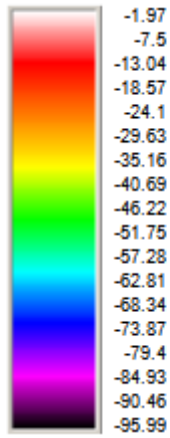
NR-2



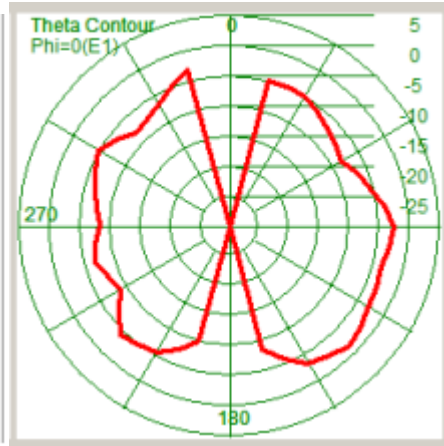
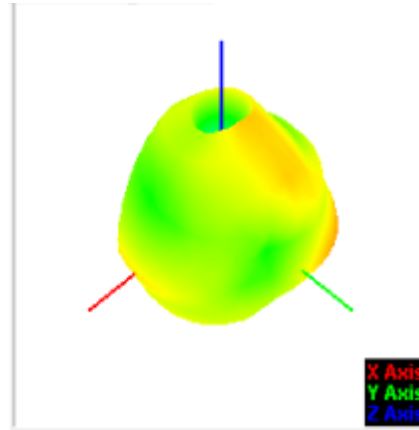
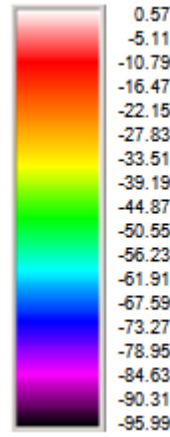
NR-3



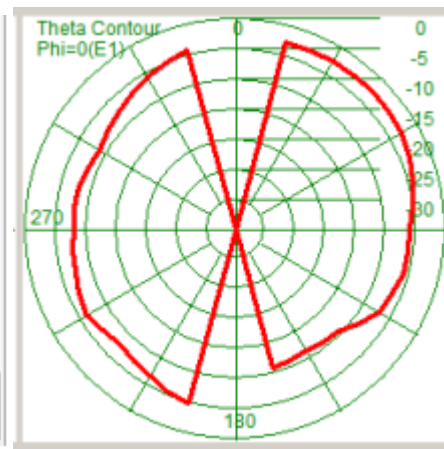
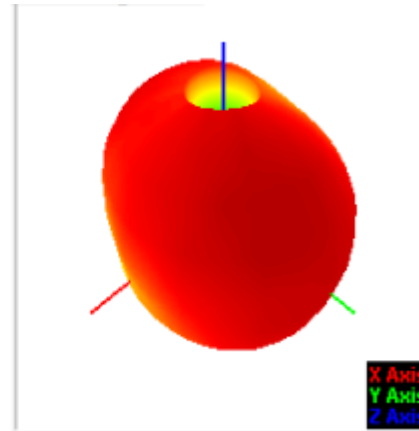
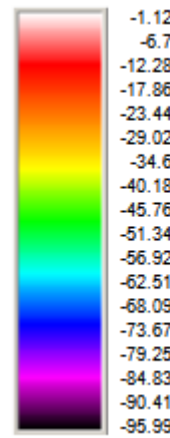
NR-5



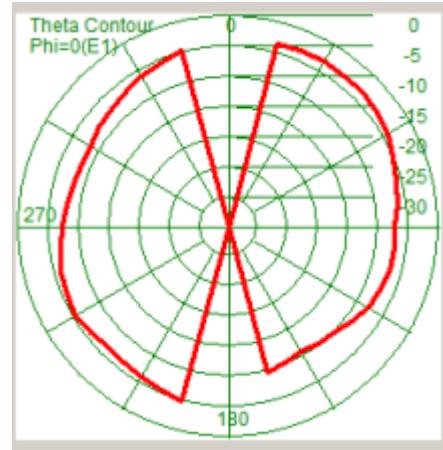
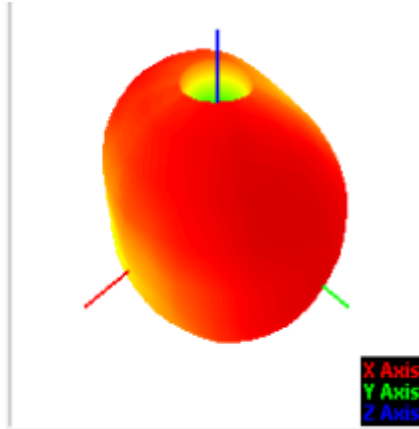
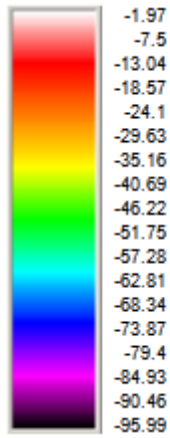
NR-7



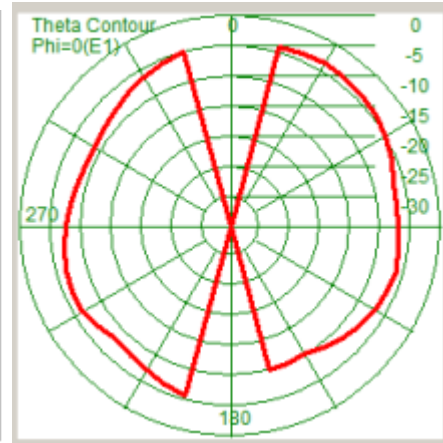
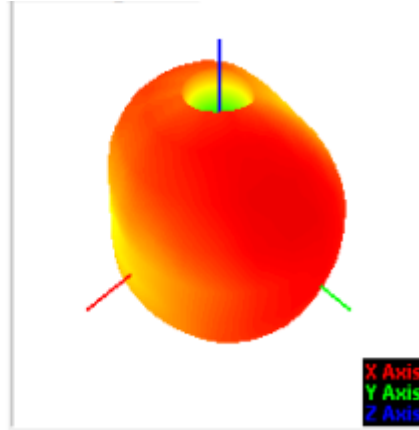
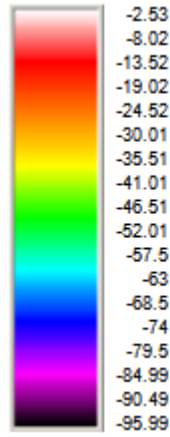
NR-8



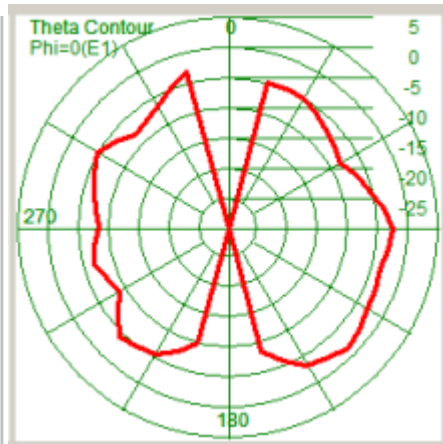
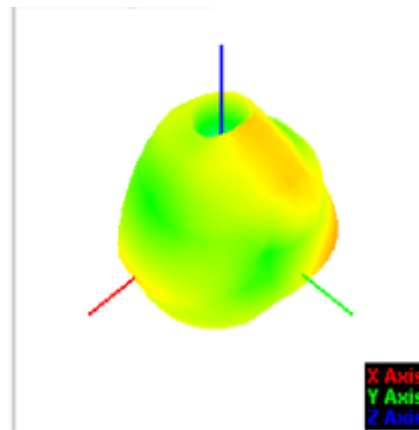
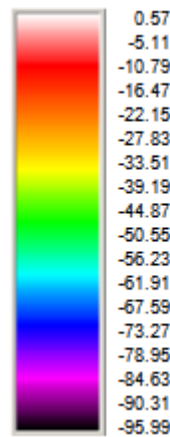
NR-20



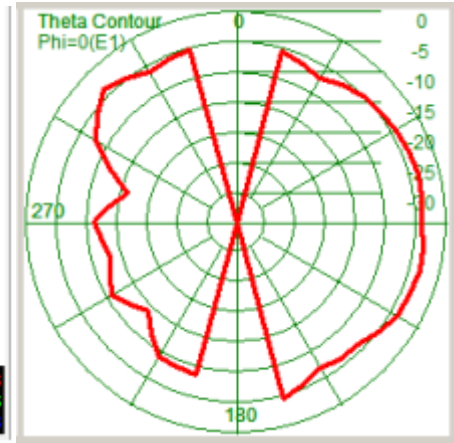
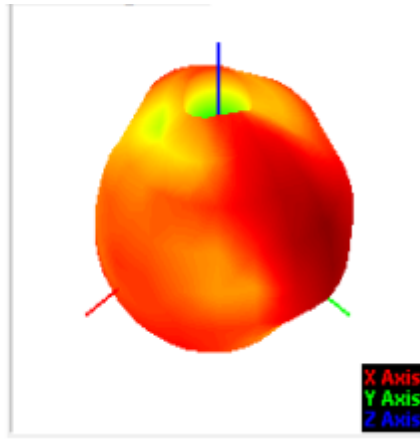
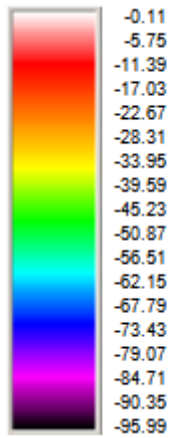
NR-28



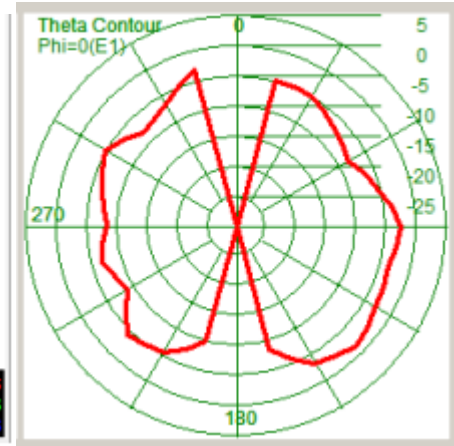
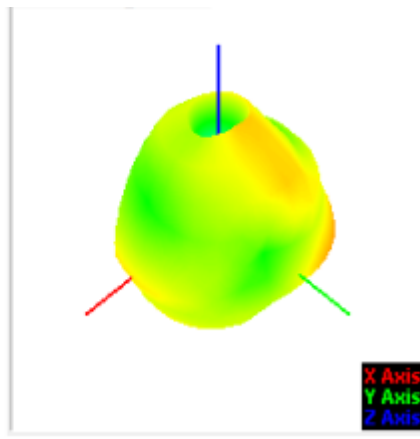
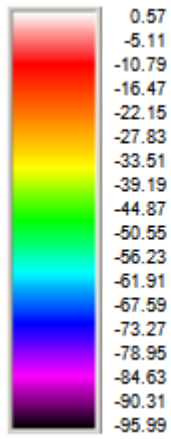
NR-38



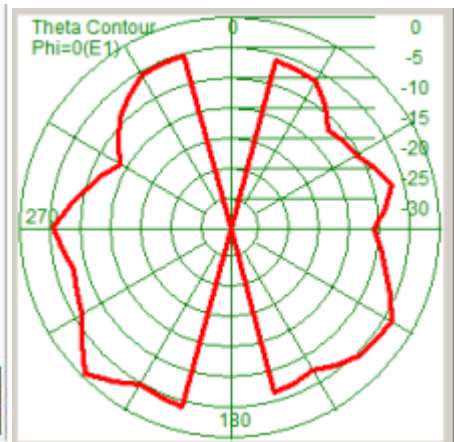
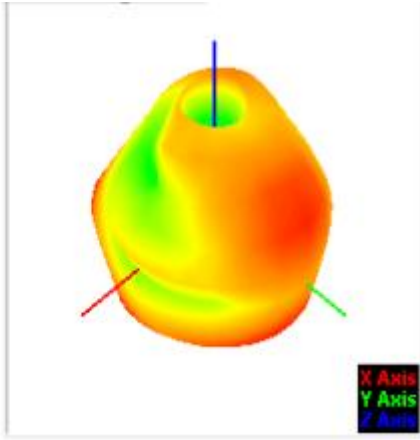
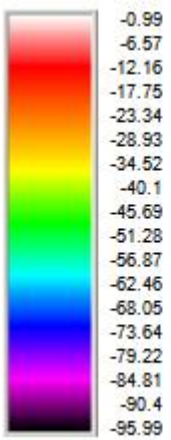
NR-40



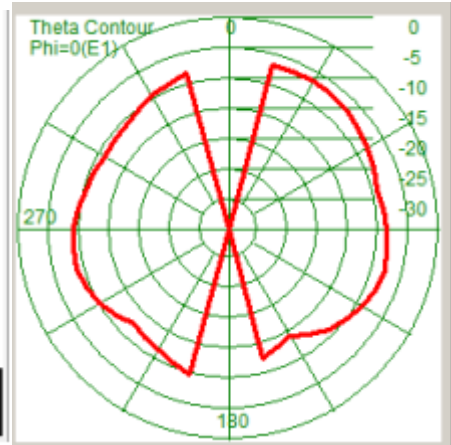
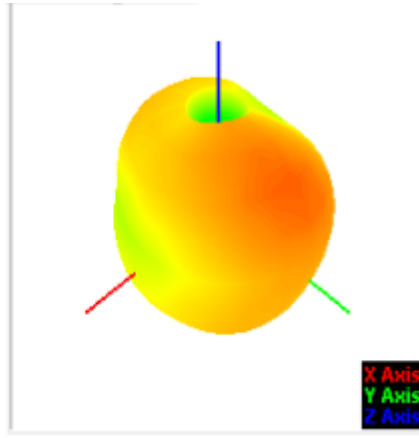
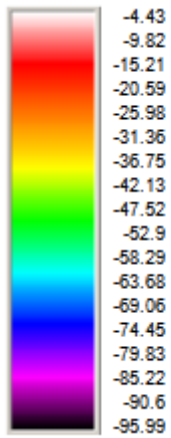
NR-41



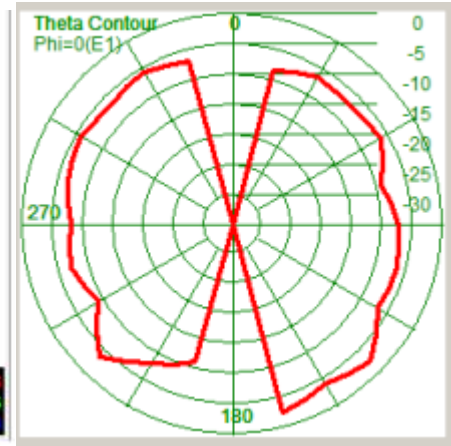
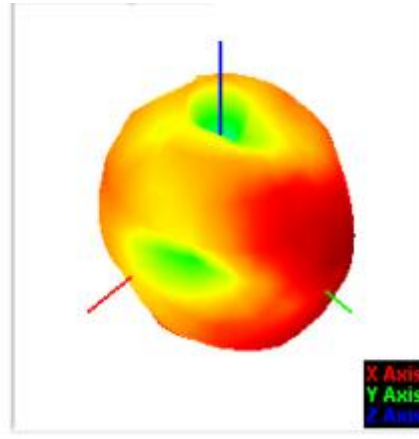
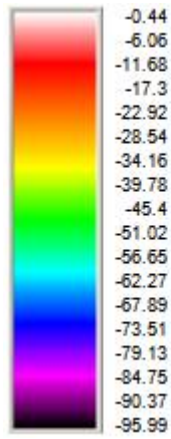
NR-66



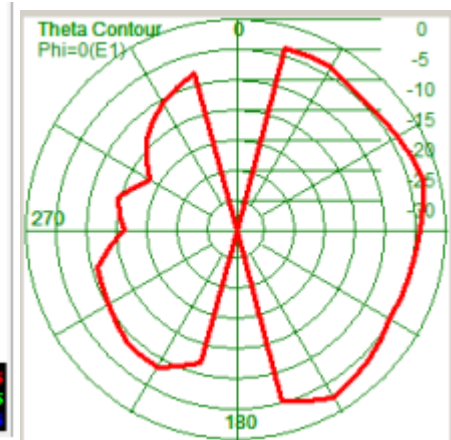
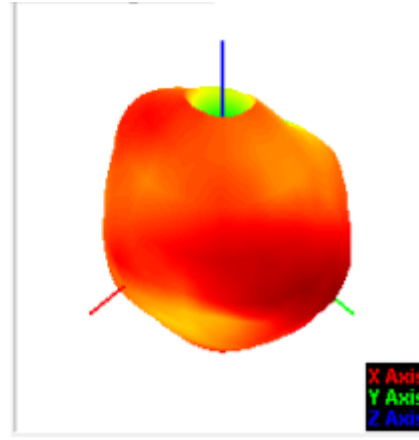
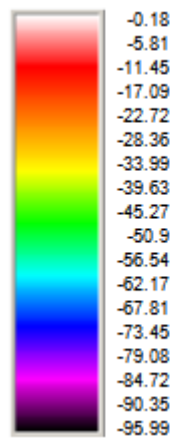
NR-71



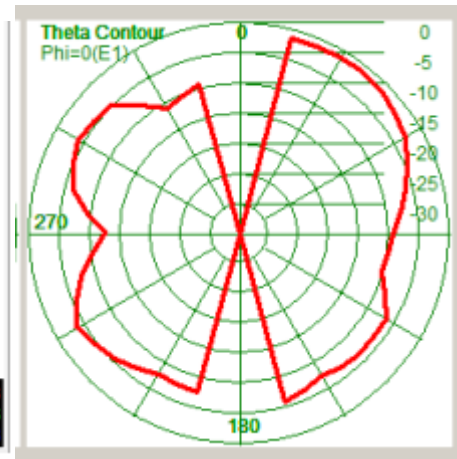
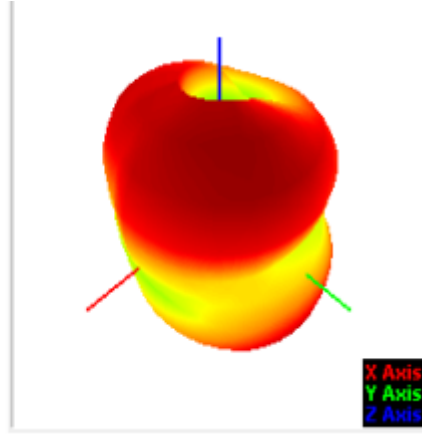
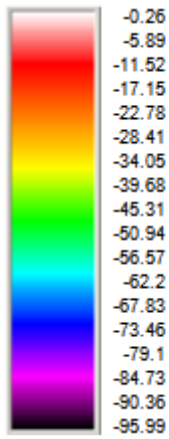
NR-77



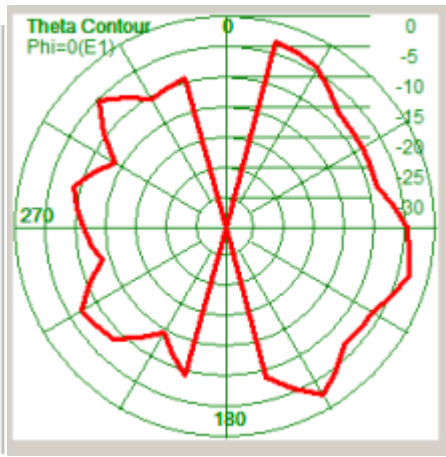
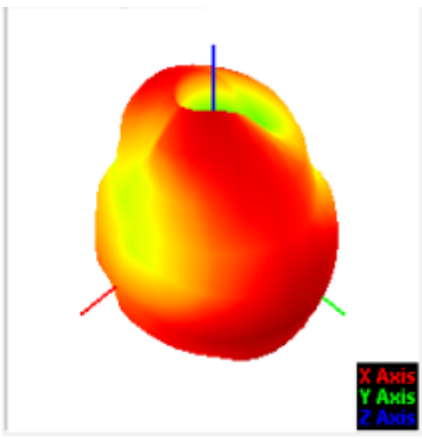
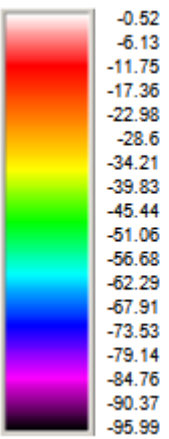
NR-78



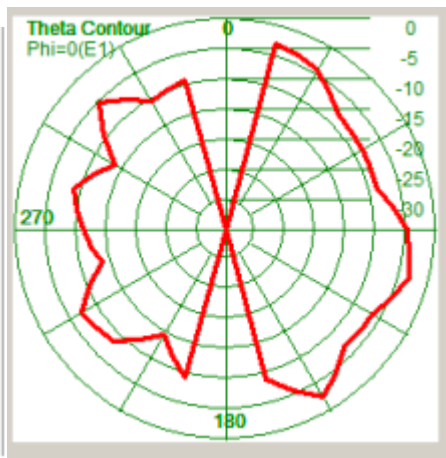
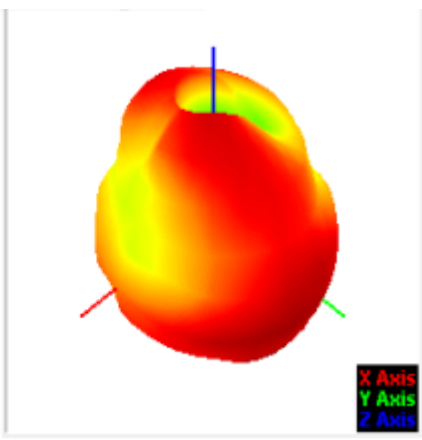
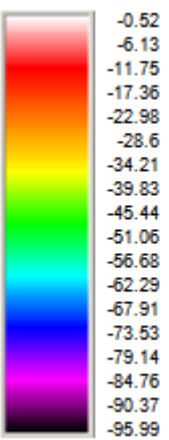
GPS



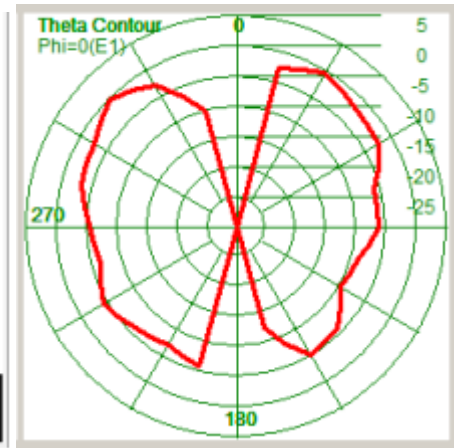
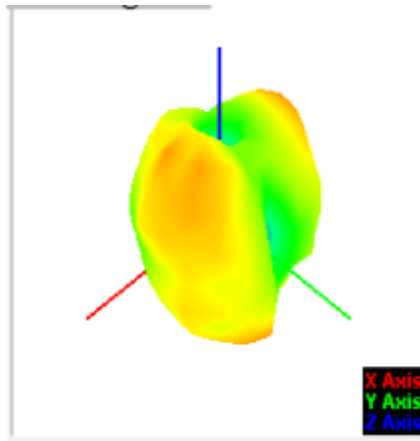
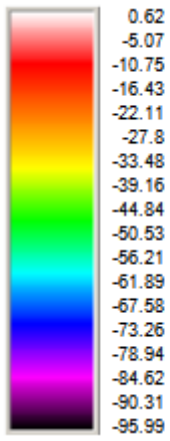
BT



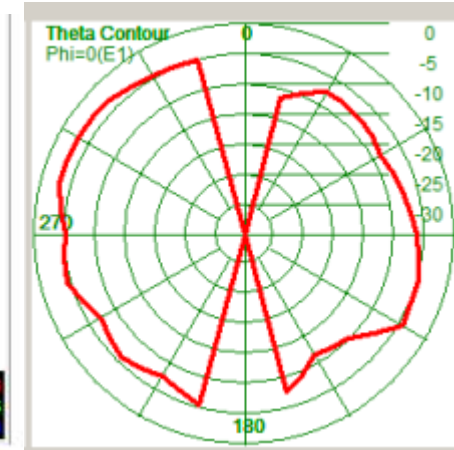
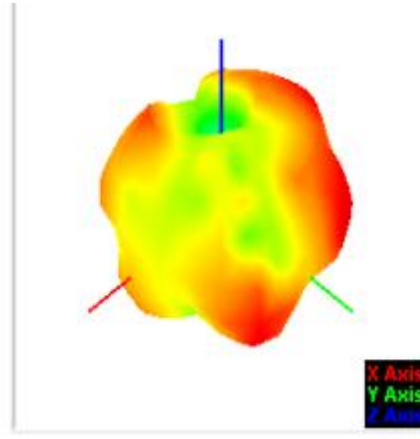
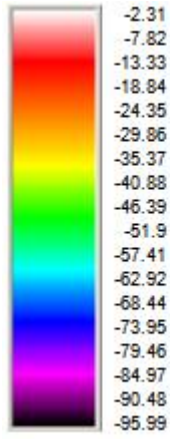
2.4G-WIFI



5.1G-WIFI



5.8G-WIFI



10.Introduction to Antenna Information

S132	
Antenna type and frequency band	MAIN ANTENNA(<u>PIFA</u>):2G/3G/4G/5G DIV ANTENNA(<u>PIFA</u>):2G/3G/4G/5G GPS/WIFI/BT ANTENNA(<u>PIFA</u>):L1/2.4GWIFI/BT
Antenna materia	FPC