

Shenzhen Qi Xin Tongda Technology Co., LTD

Antenna Test Data Report

customer: OUQI

project: S117

frequency band: G2/3/5/8+W1/2/4/5/8+

FDD1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28A/28B/66+TDD38/40/41

engineer: FU GONG (137 6016 7811)

DATA: 2023-07-31

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

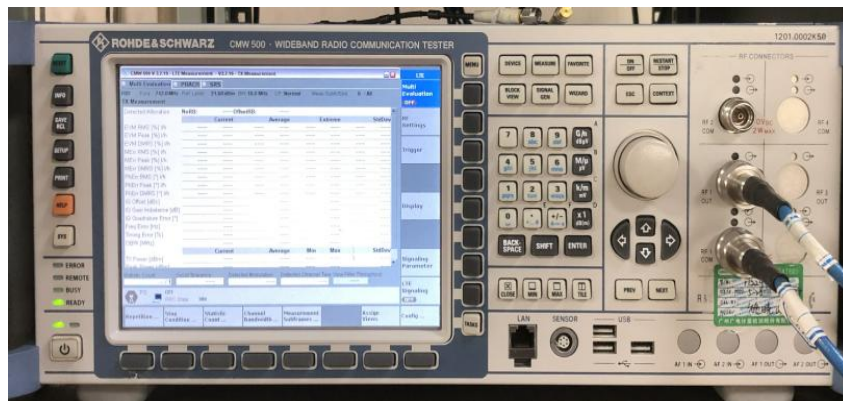
2. Test Equipment



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



Agilent 8960 (2G/3G Test Equipment)

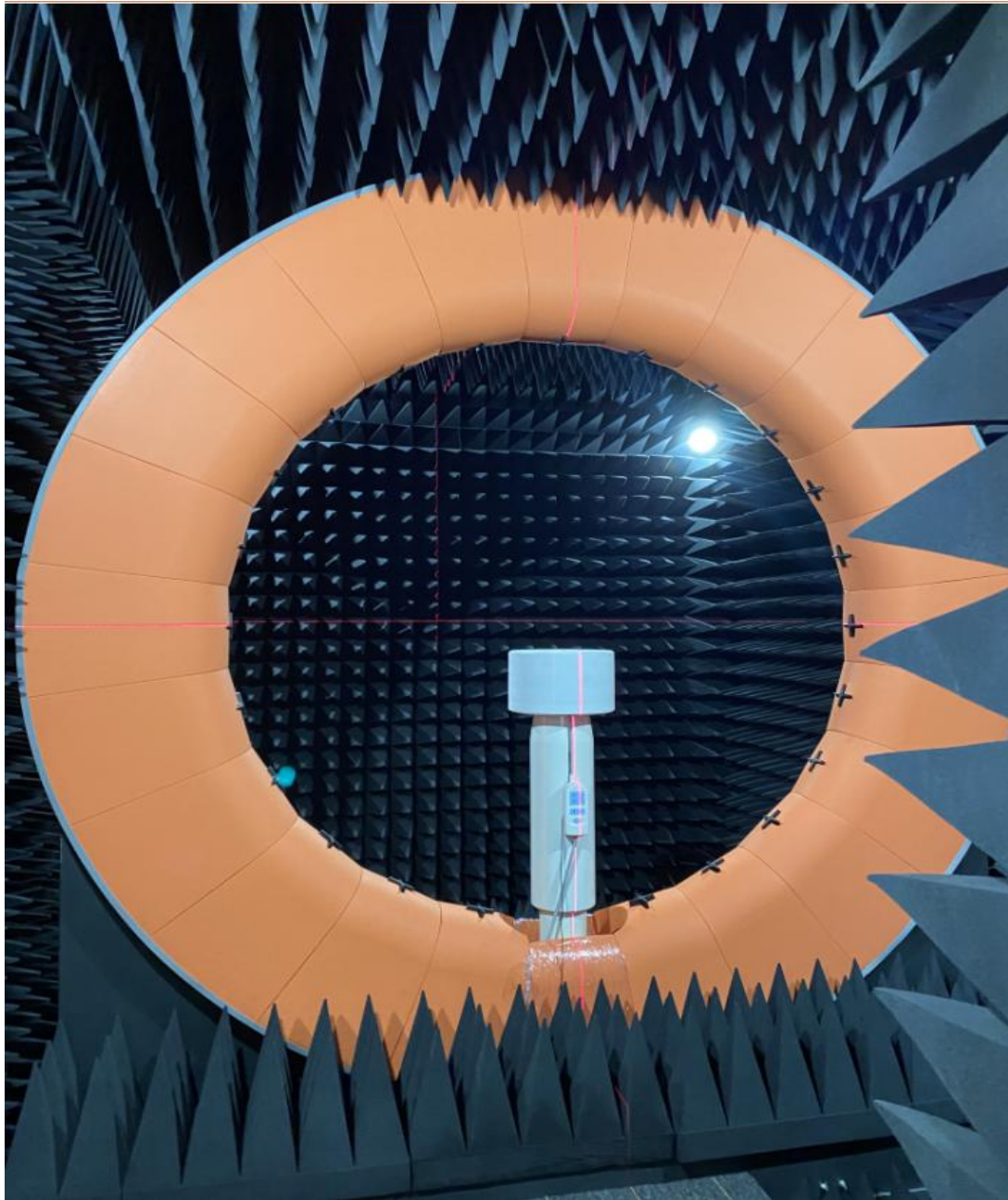


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

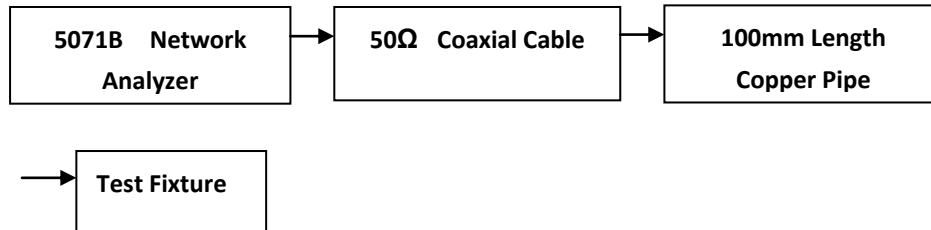
3. TestEnvironment



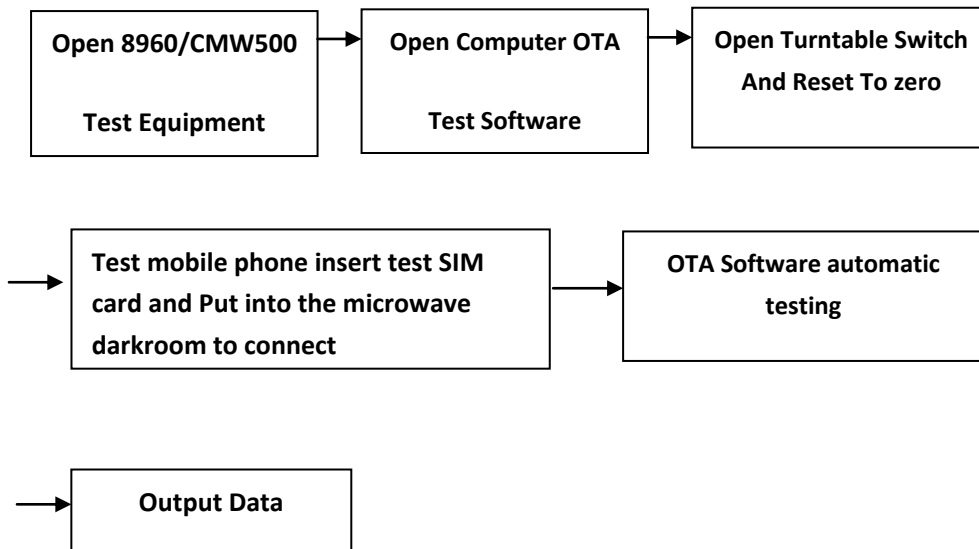
Microwave Anechoic Chamber

4. Test Steps

Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:

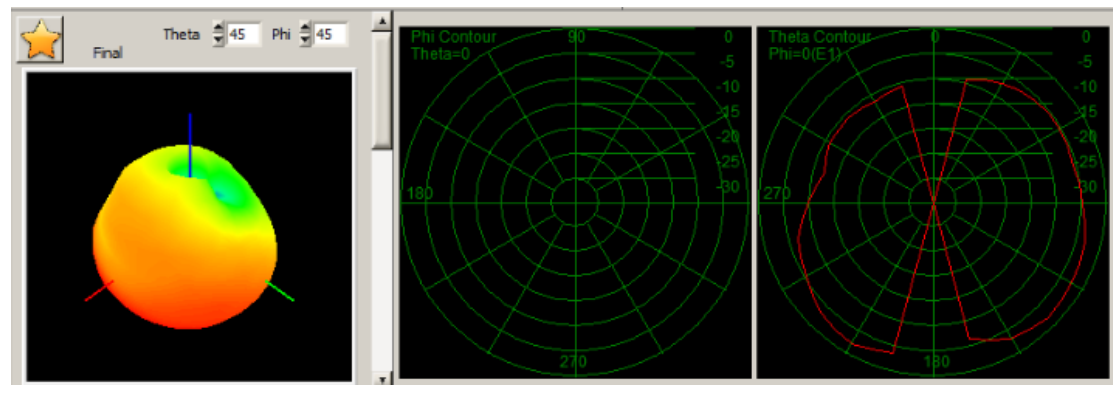


5. Antenna Gain

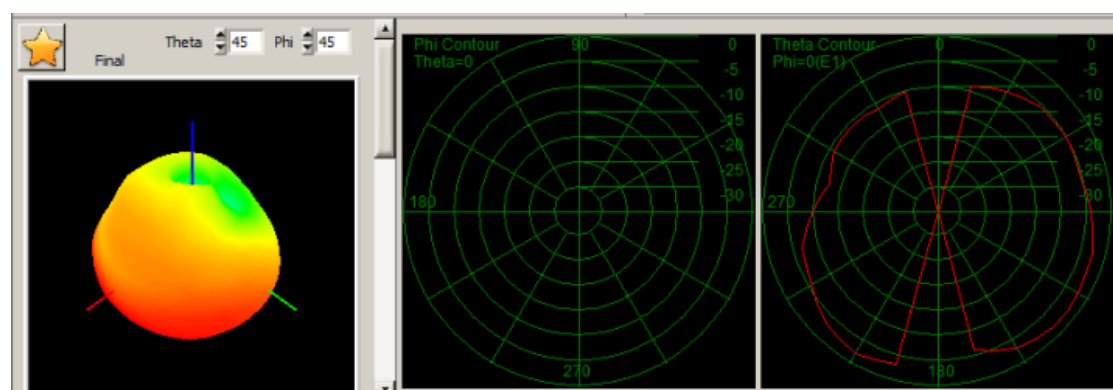
Band	Max Gain	Efficiency	Band	Max Gain	Efficiency
GSM850	-0.37	32%	LTE-B38	0.23	37%
GSM900	-0.33	33%	LTE-B40	0.16	36%
DCS1800	-0.23	33%	LTE-B41	0.23	37%
PCS1900	0.15	36%			
WCDMA1	0.12	35%			
WCDMA2	0.15	36%	Bluetooth	0.1	35%
WCDMA4	0.12	35%	WIFI-2.4G	0.1	35%
WCDMA5	-0.37	32%	WIFI-5.1G	-0.39	32%
WCDMA8	-0.33	33%	WIFI-5.8G	-0.46	31%
LTE-B1	0.12	35%	GPS-L1	0.14	36%
LTE-B2	0.15	36%			
LTE-B3	-0.23	33%			
LTE-B4	0.12	35%			
LTE-B5	-0.37	32%			
LTE-B7	0.23	37%			
LTE-B8	-0.33	33%			
LTE-B12	-0.75	25%			
LTE-B13	-0.68	26%			
LTE-B17	-0.75	25%			
LTE-B18	-0.37	32%			
LTE-B19	-0.37	32%			
LTE-B20	-0.37	32%			
LTE-B25	0.15	36%			
LTE-B26	-0.37	32%			
LTE-B28	-0.75	25%			
LTE-B66	0.12	35%			

6.3D Lobe Diagram

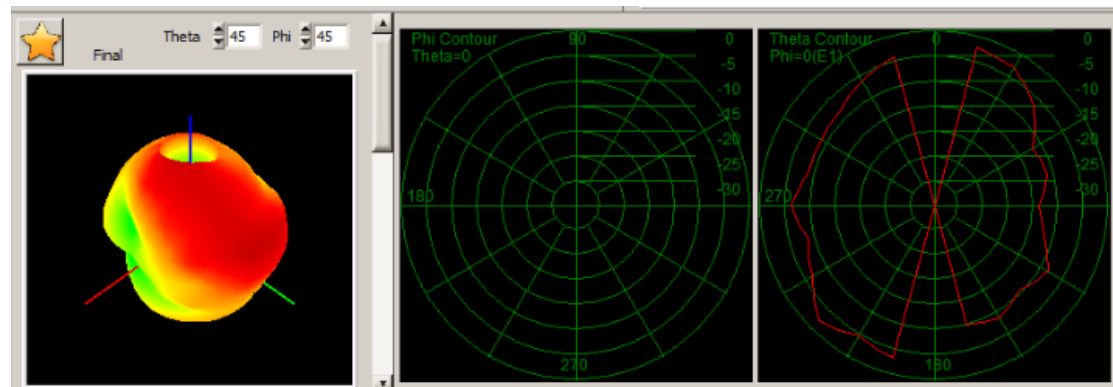
GSM850



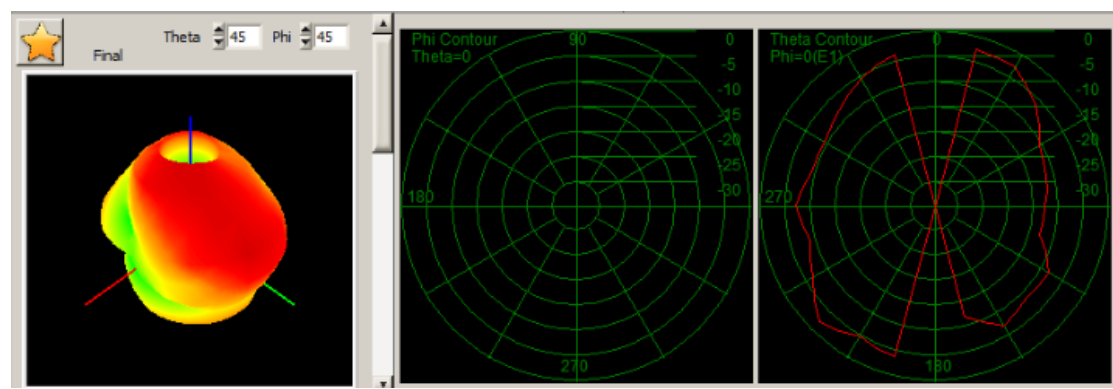
GSM900



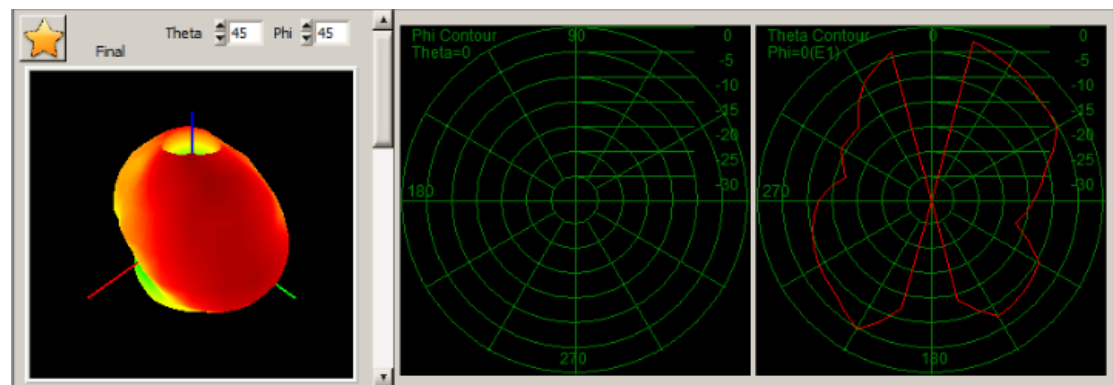
DSC1800



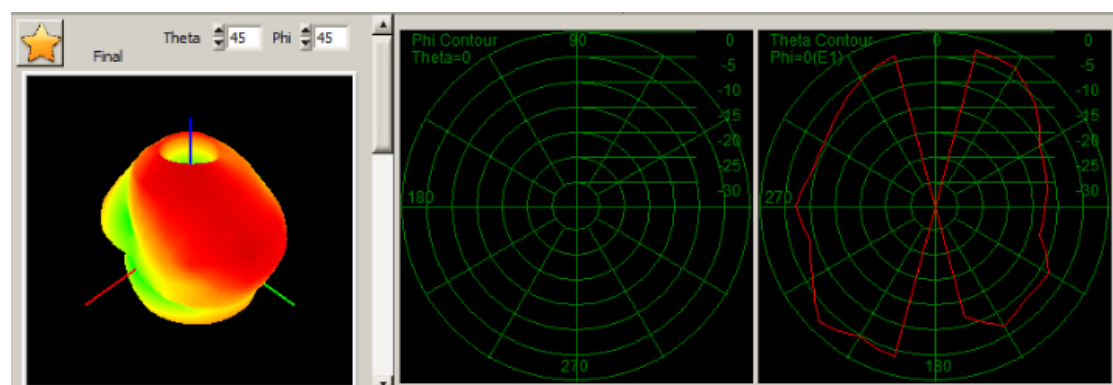
PCS1900



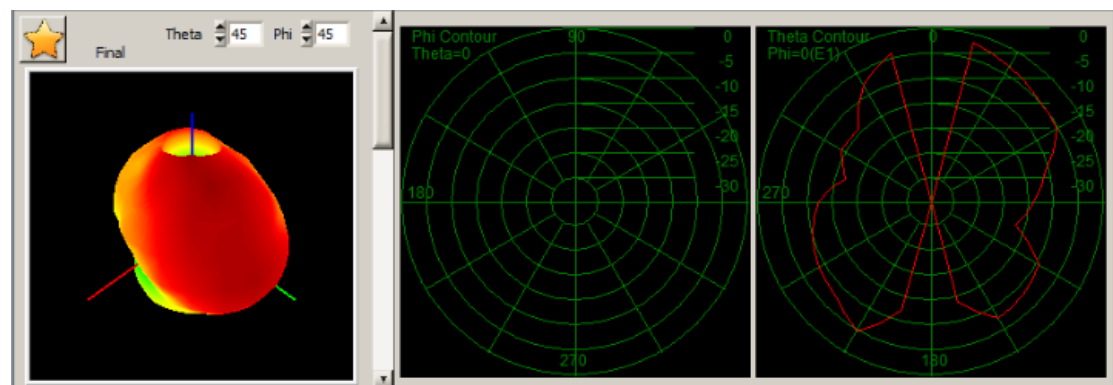
W2100



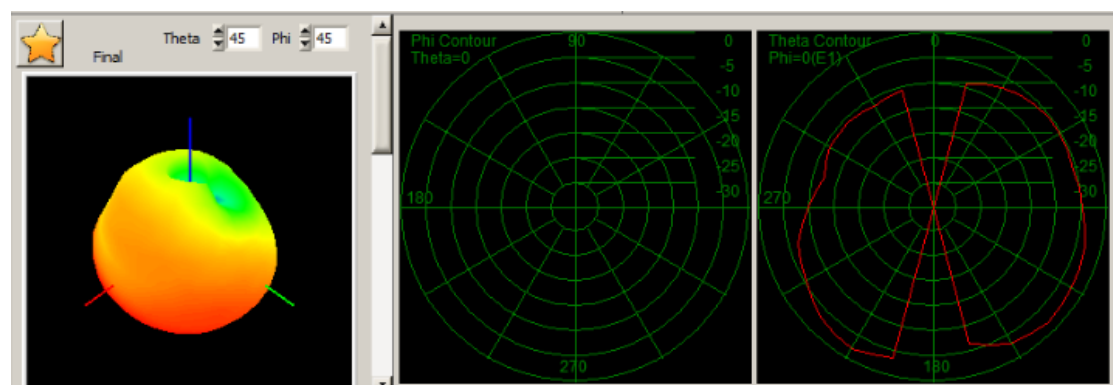
W1900



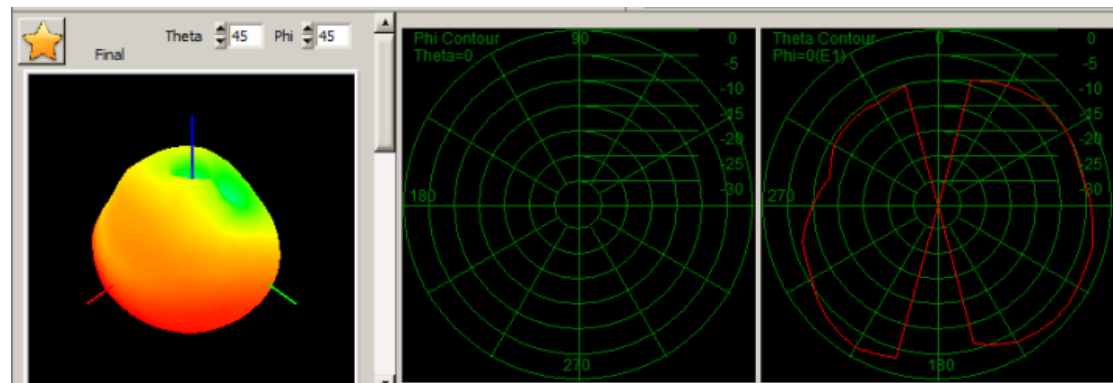
W1700



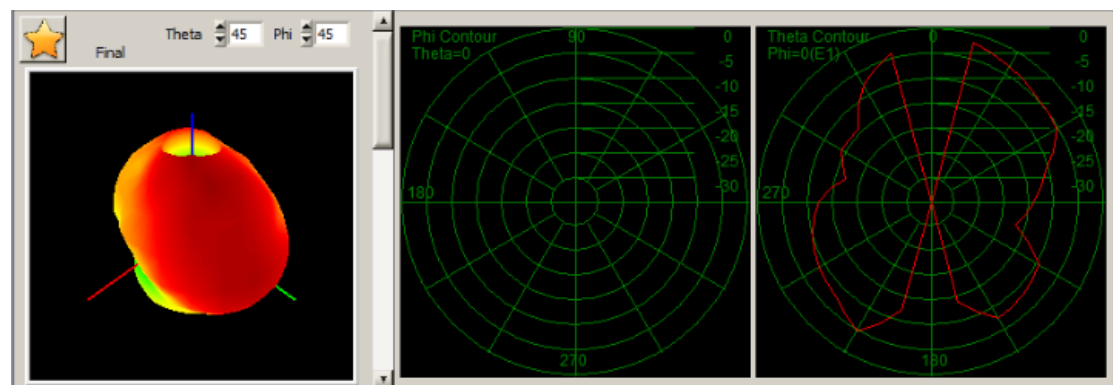
W850



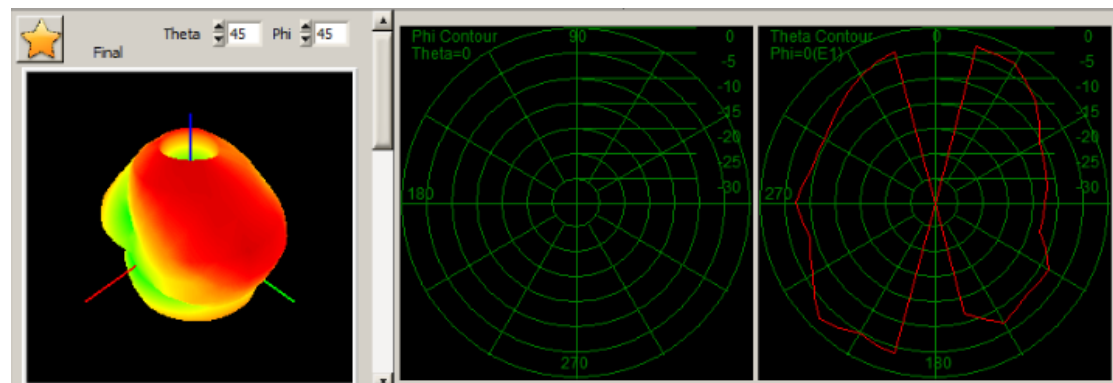
W900



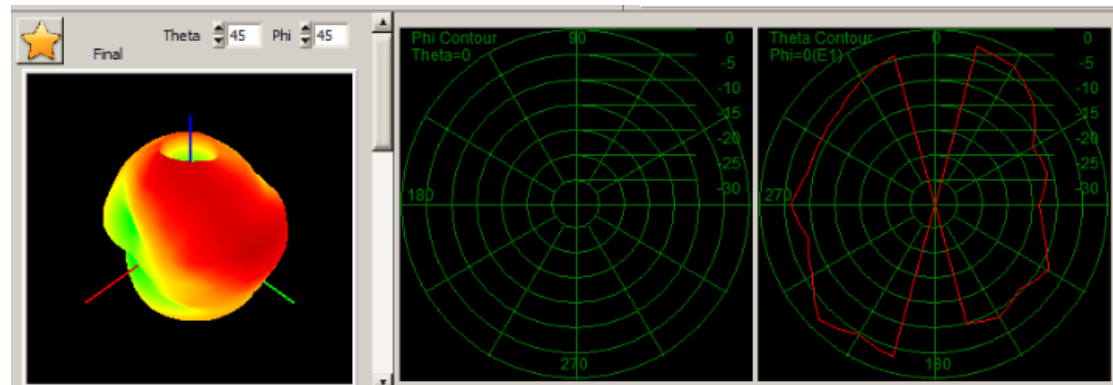
FDD-B1



FDD-B2



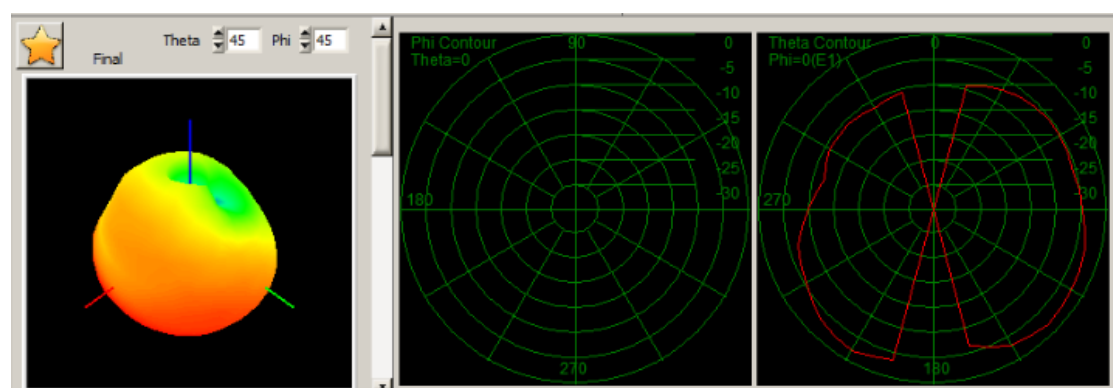
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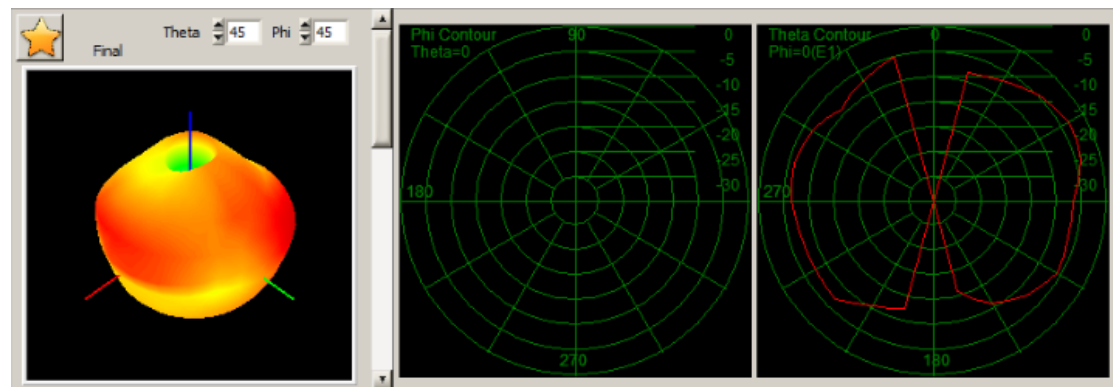
FDD-B4



FDD-B5



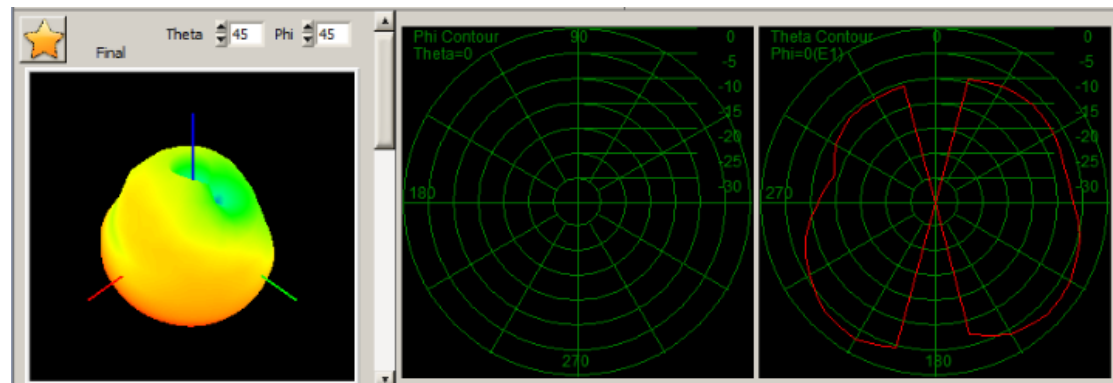
FDD-B7



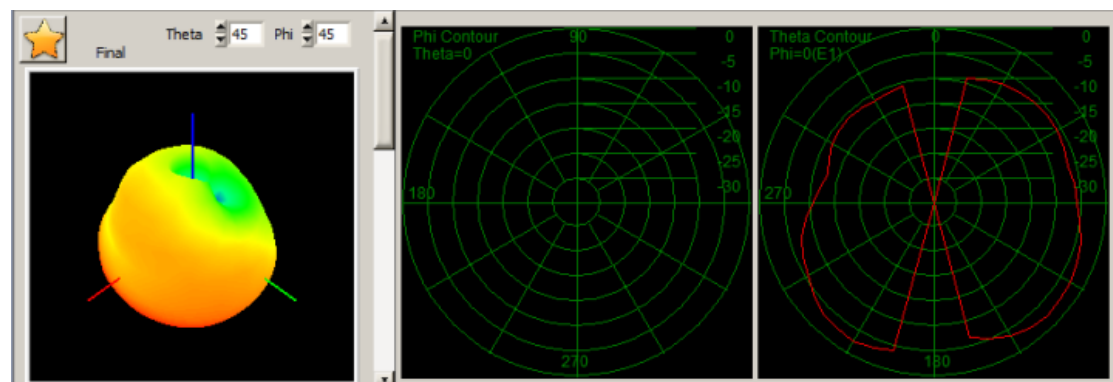
FDD-B8



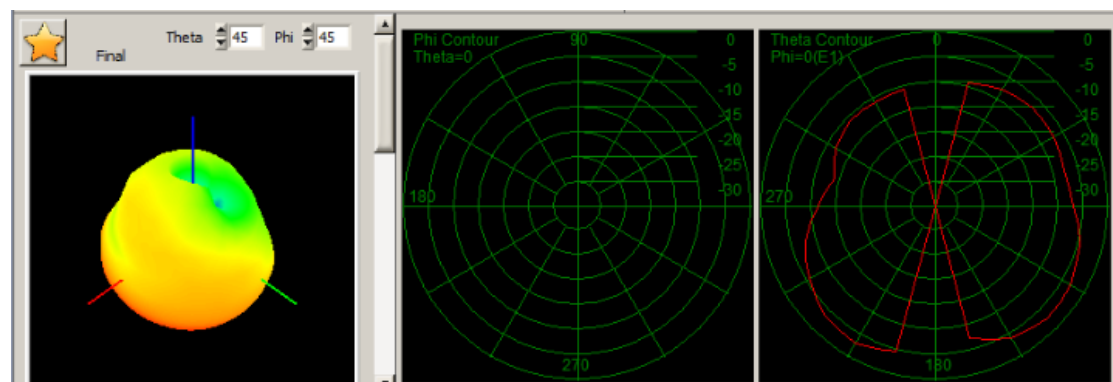
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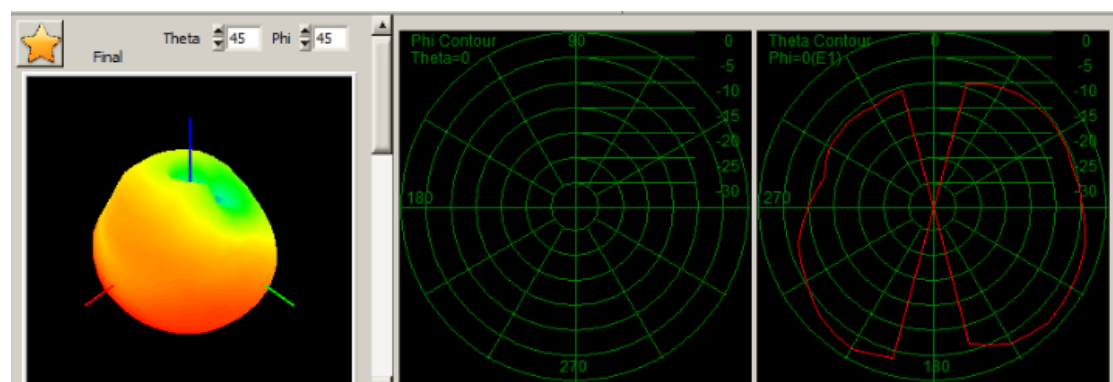
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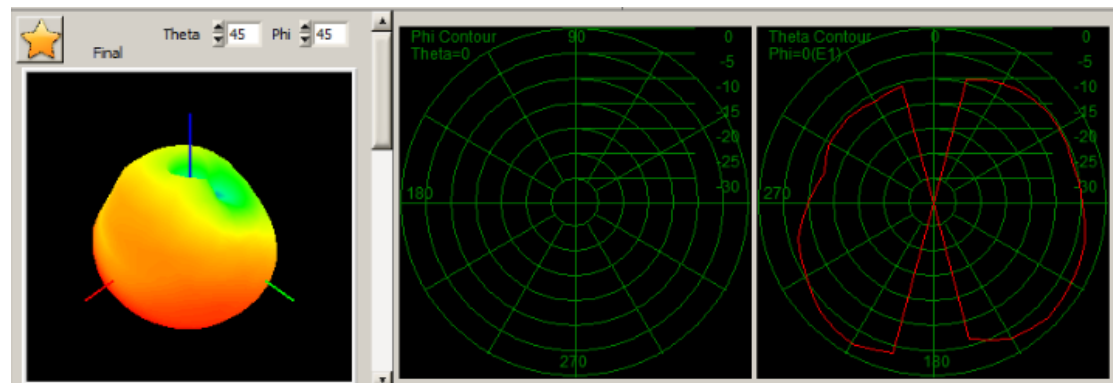
FDD-B17



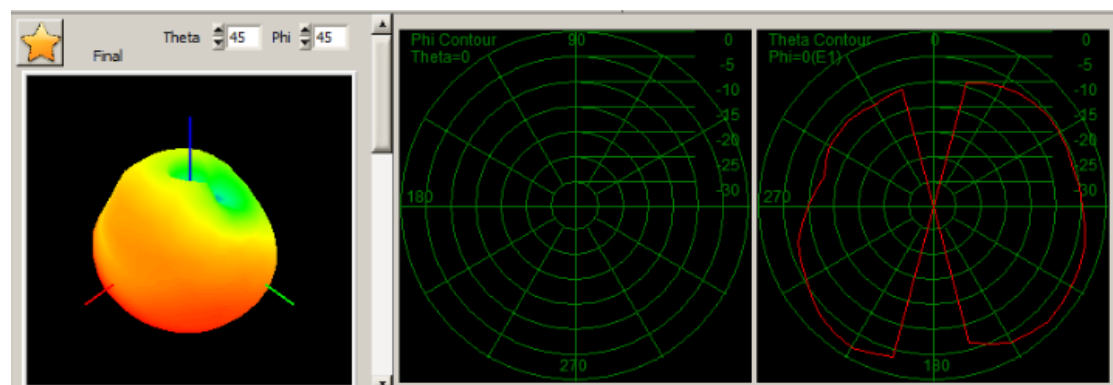
FDD-B18



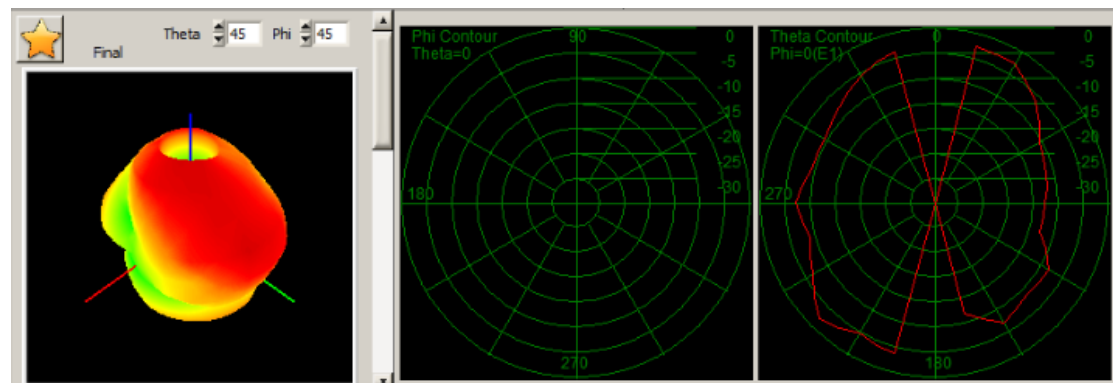
FDD-B19



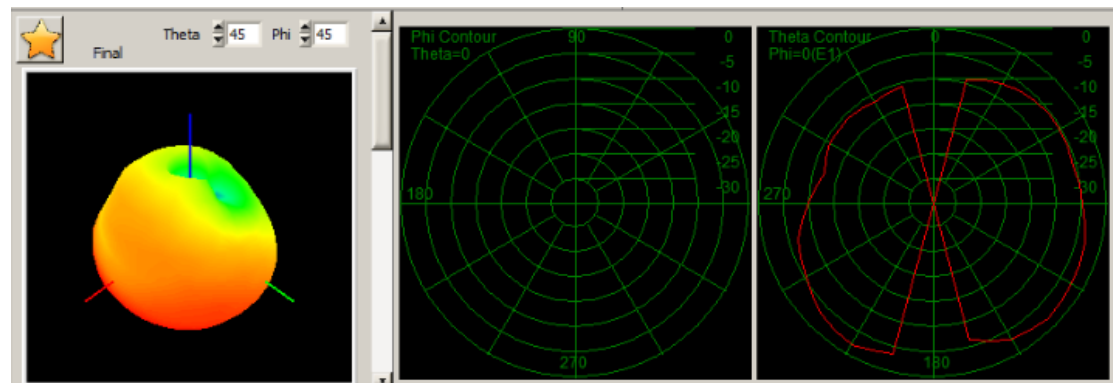
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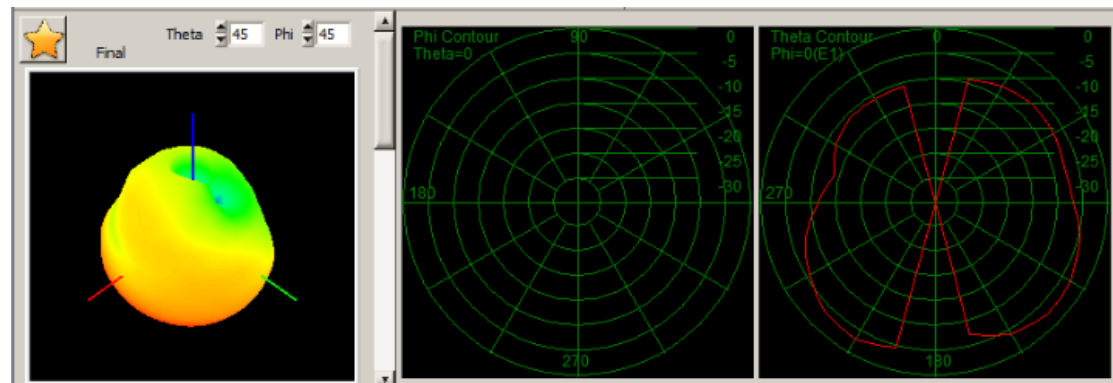
FDD-B25



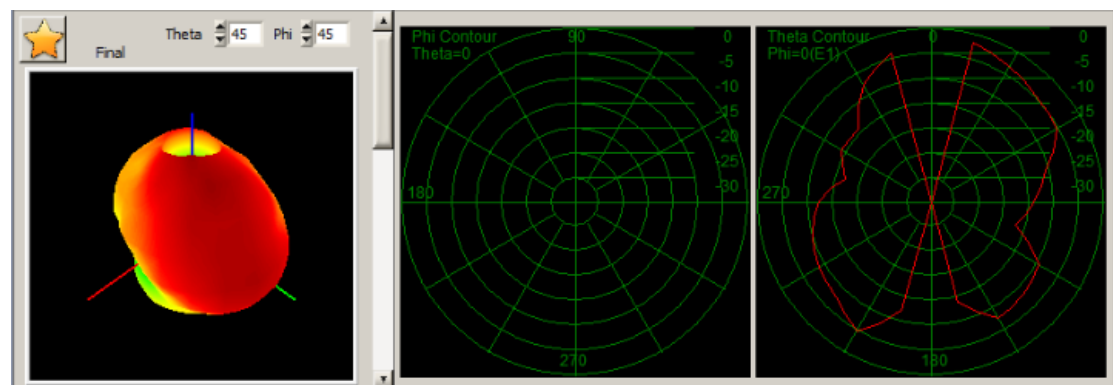
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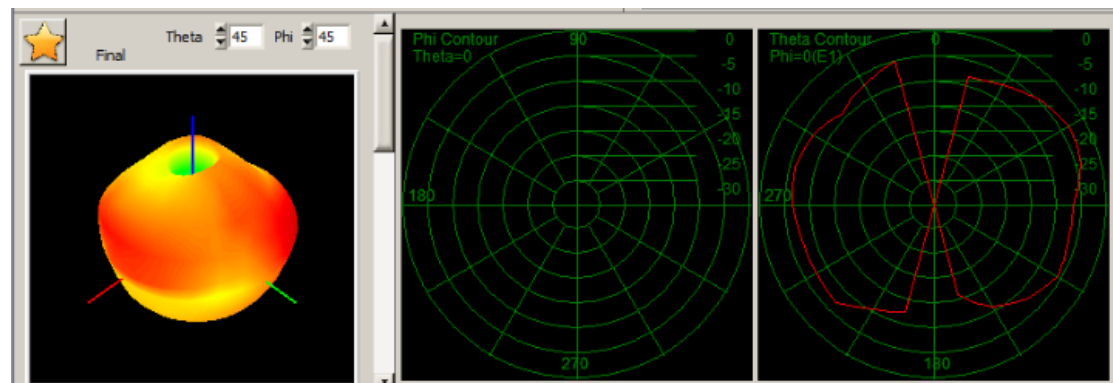
FDD-B28



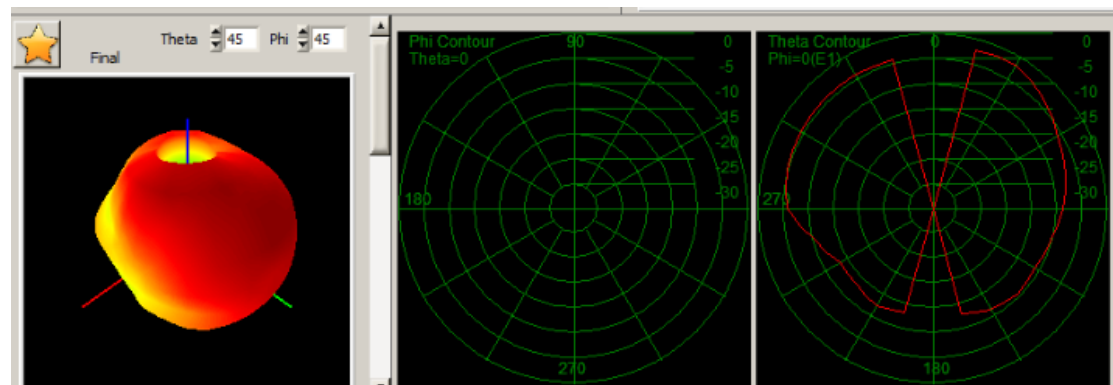
FDD-B66



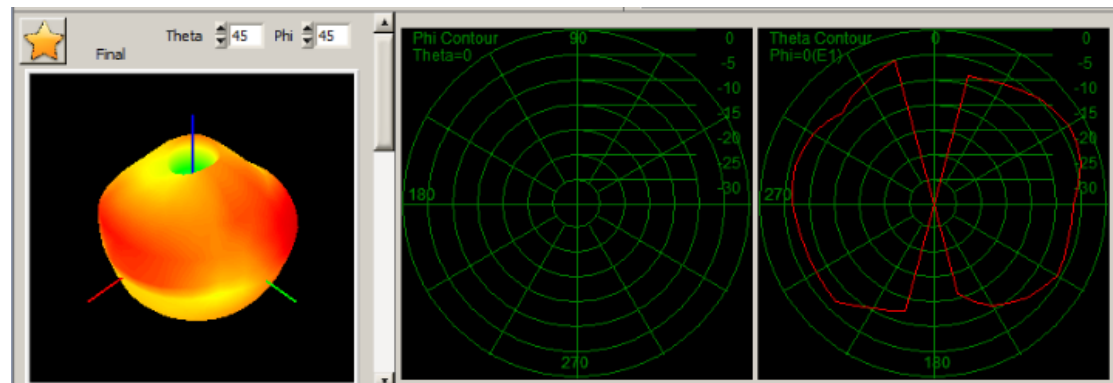
TDD-B38



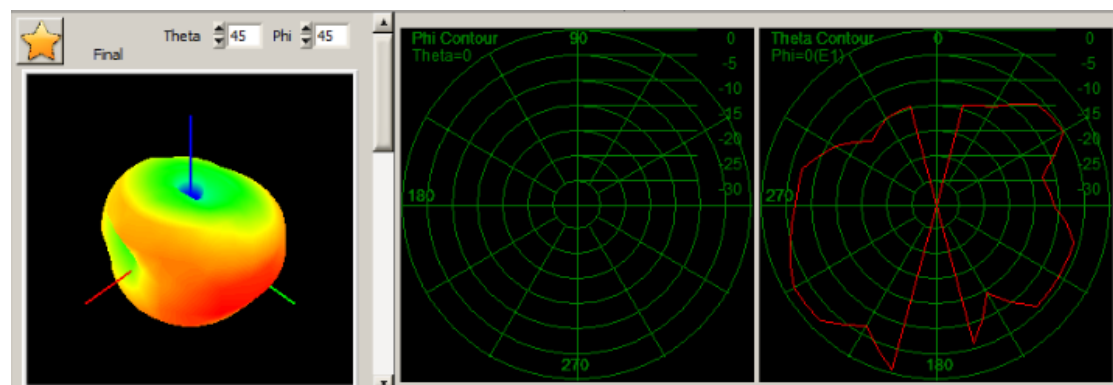
TDD-B40



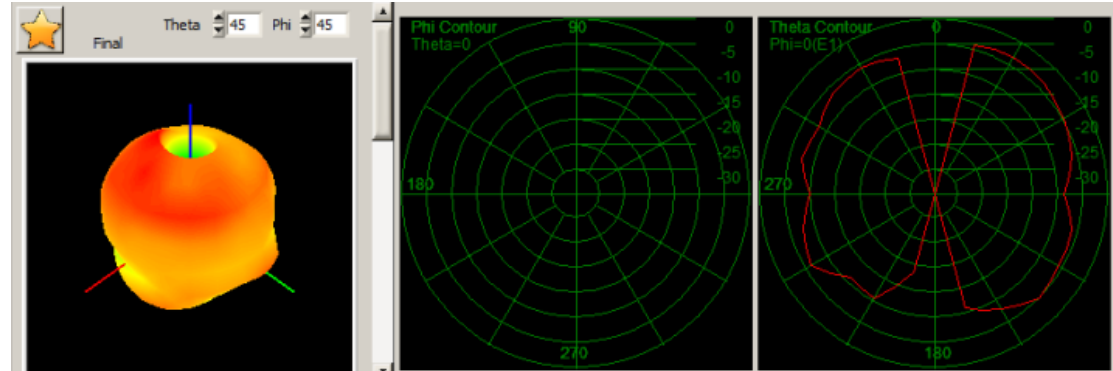
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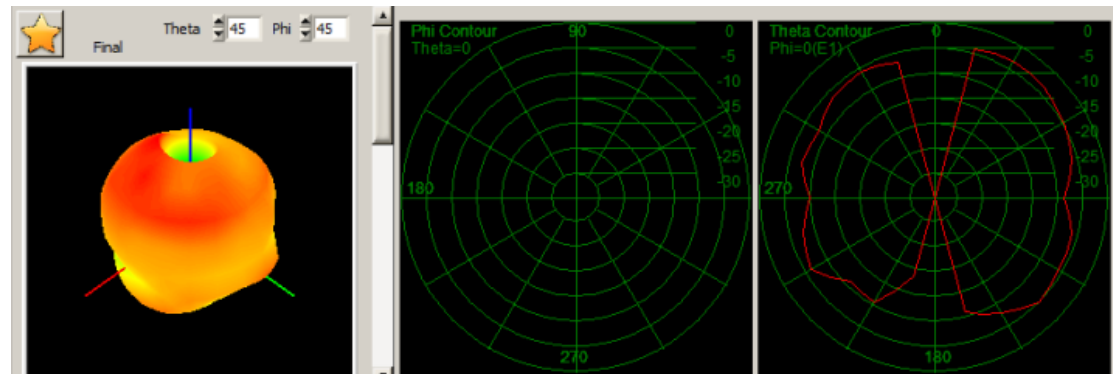
GPS



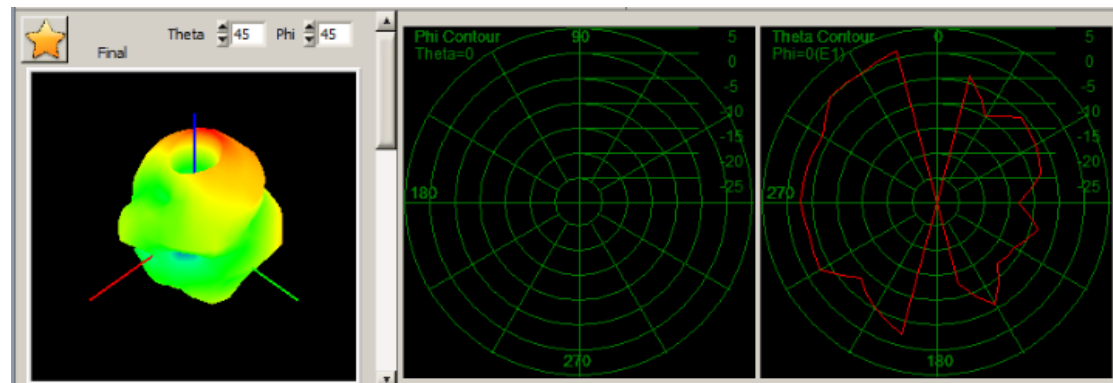
BT



2.4G-WIFI



5.1G-WIFI



5.8G-WIFI

