

深圳市麒鑫通达科技有限公司

天线测试数据报告

客户：欧奇

项目：S157

GSM: B2/B3/B5/B8

CDMA:BC0/BC1/BC10

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/n12/n20/n25/n28/n38/n40/n41/n66/n71/n77/n78

工程：熊工（187 1893 6792）

日期：2025-02-21

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

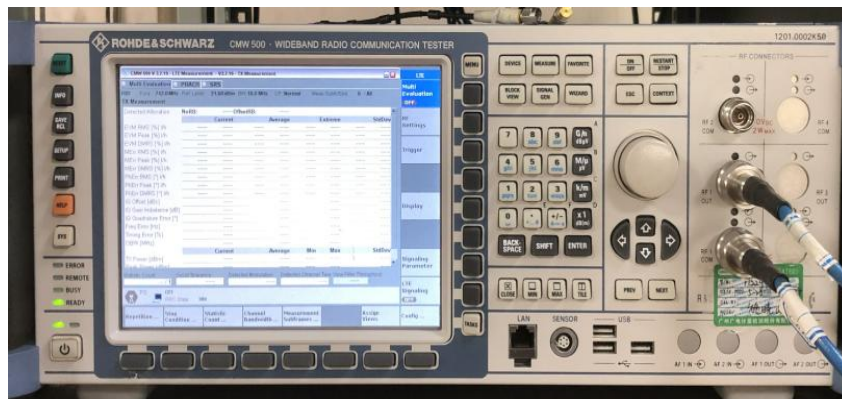
2. Test Equipment



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



Agilent 8960 (2G/3GTest Equipment)

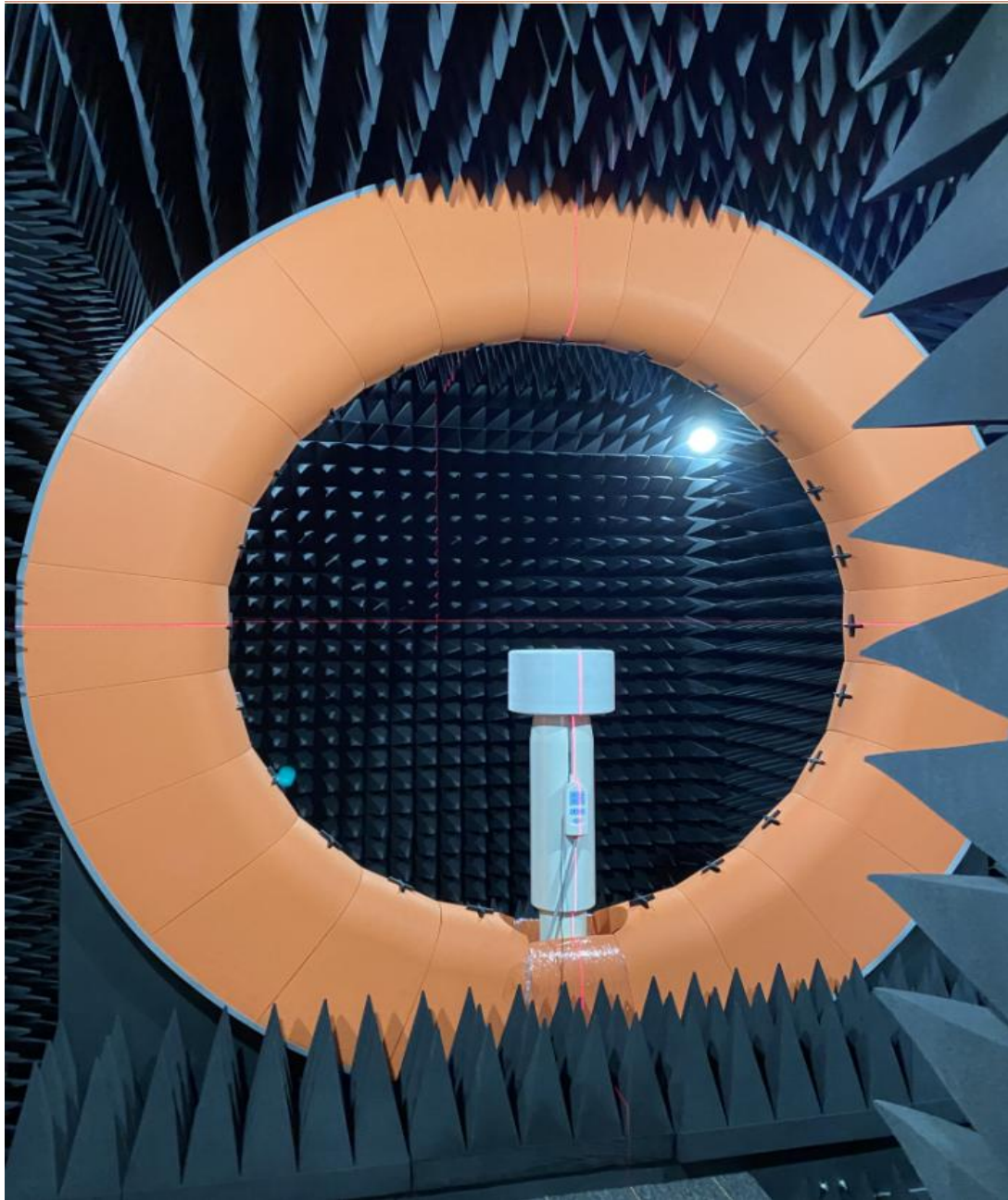


CMW 500 (2G/3G/4GTest Equipment)



SP9500 (5GTest Equipment)

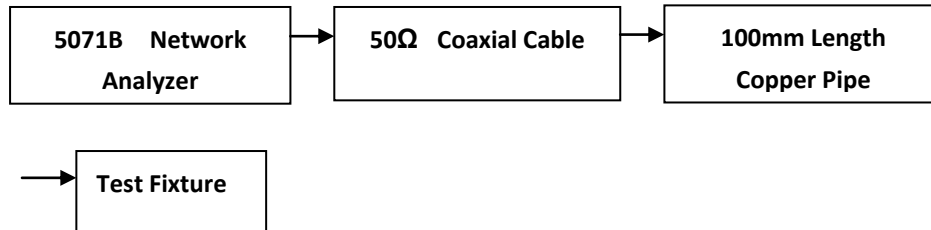
3. TestEnvironment



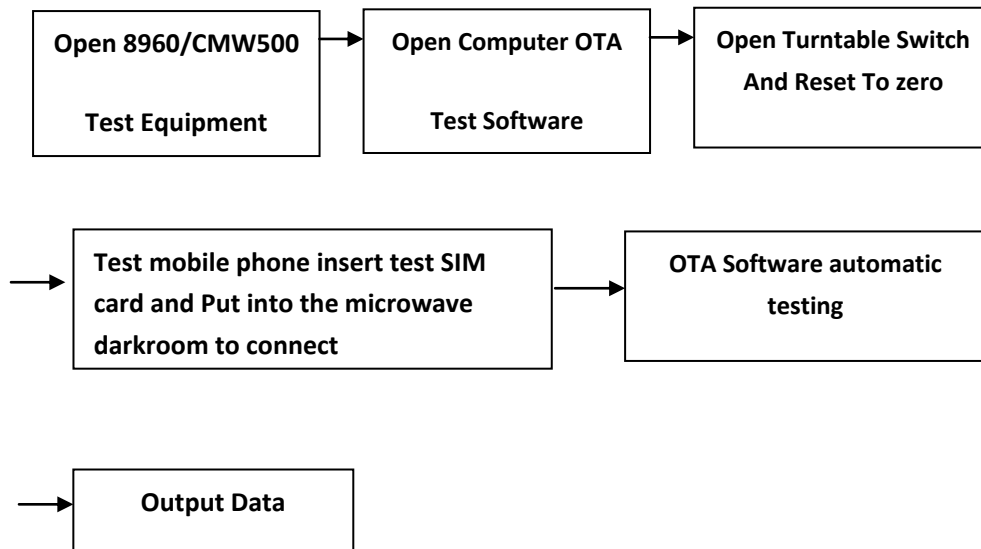
Microwave Anechoic Chamber

4.Test Steps

Passive VSWR/RL Test Steps:



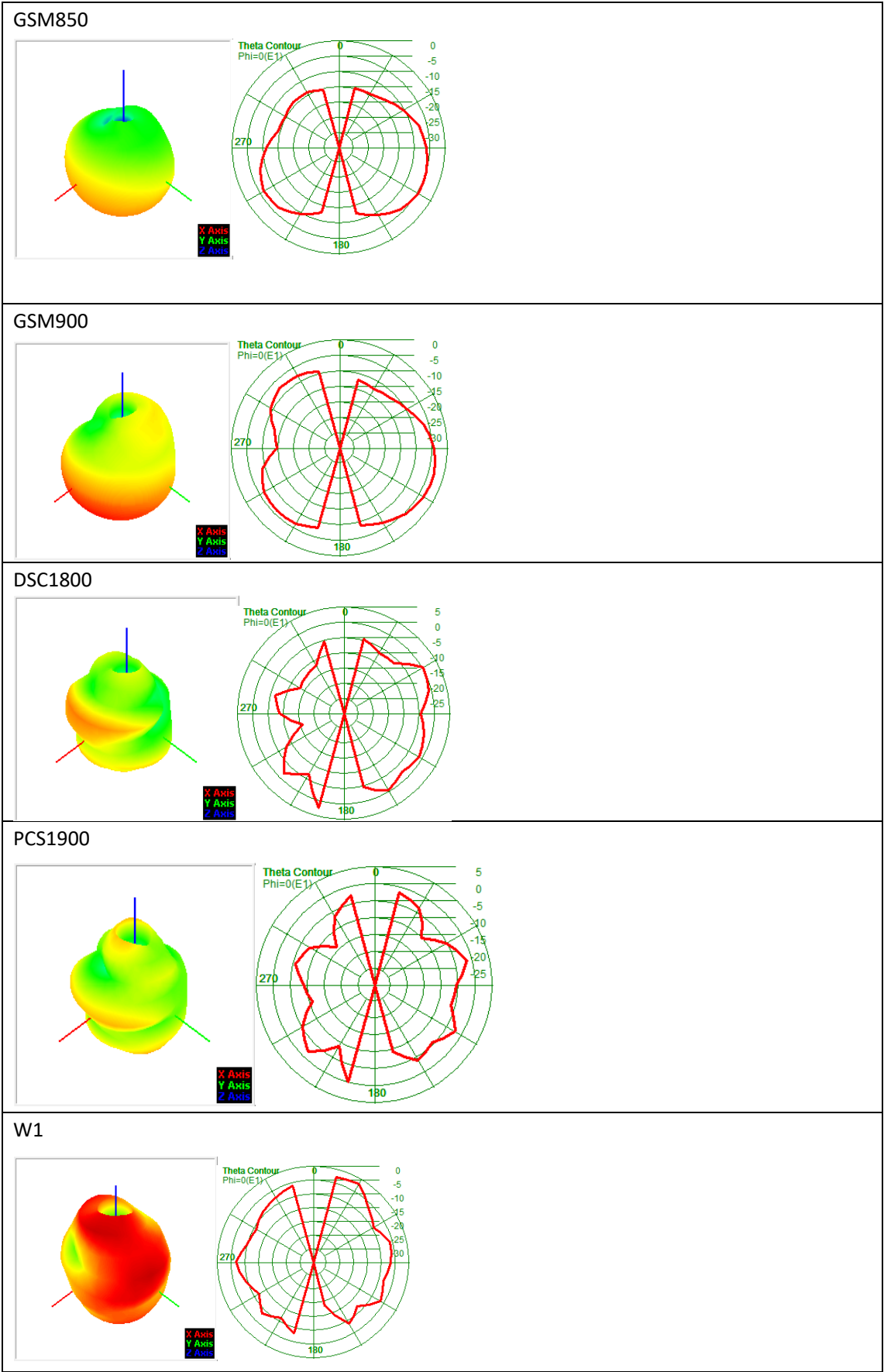
Active TRP/TIS Test Steps:



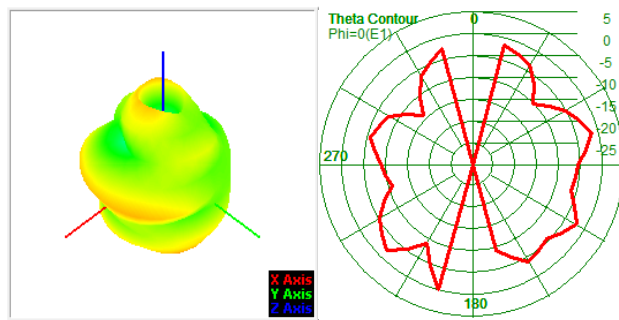
5. Antenna Gain

Band	Max Gain	Band	Max Gain
GSM850	-0.87	NR-B1	-0.17
GSM900	-0.71	NR-B2	0.47
DCS1800	0.85	NR-B3	0.85
PCS1900	0.47	NR-B5	-0.87
WCDMA1	-0.17	NR-B7	-0.47
WCDMA2	0.47	NR-B8	-0.71
WCDMA4	0.54	NR-B12	-1.22
WCDMA5	-0.87	NR-B20	-0.87
WCDMA8	-0.71	NR-B25	0.47
WCDMA19	-0.87	NR-B28	-1.33
LTE-B1	-0.17	NR-B38	-0.78
LTE-B2	0.47	NR-B40	-0.58
LTE-B3	0.85	NR-B41	-0.79
LTE-B4	0.54	NR-B66	0.58
LTE-B5	-0.87	NR-B71	-2.08
LTE-B7	-0.47	NR-B77	0.53
LTE-B8	-0.71	NR-B78	0.50
LTE-B12	-1.22		
LTE-B13	-1.45	BC0	-0.87
LTE-B17	-1.25	BC1	0.47
LTE-B18	-0.87	BC10	-0.87
LTE-B19	-0.89		
LTE-B20	-0.87		
LTE-B25	0.47	Bluetooth	-0.13
LTE-B26	-0.87	WIFI-2.4G	-0.13
LTE-B28	-1.33	WIFI-5.1G	-0.38
LTE-B66	0.58	WIFI-5.8G	-0.50
LTE-B71	-2.08	GPS	-0.31
LTE-B34	0.17		
LTE-B38	-0.78		
LTE-B39	0.85		
LTE-B40	-0.58		
LTE-B41	-0.79		

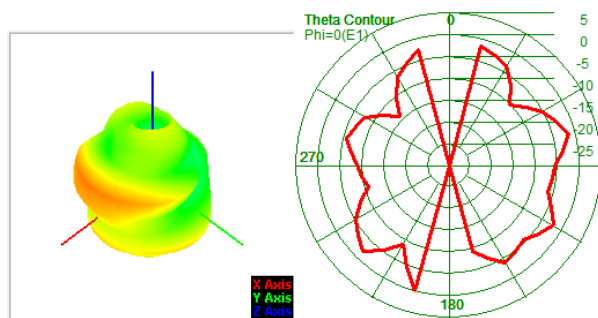
6.3D Lobe Diagram



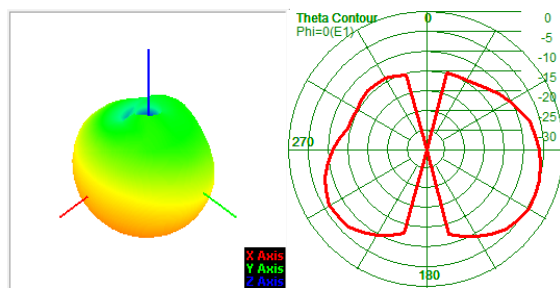
W2



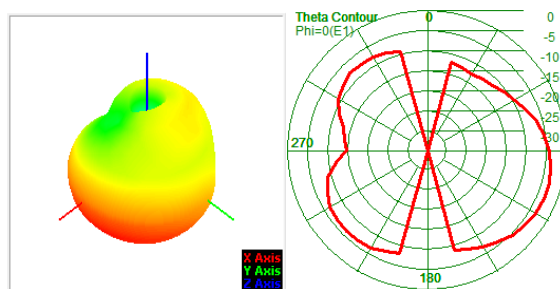
W4



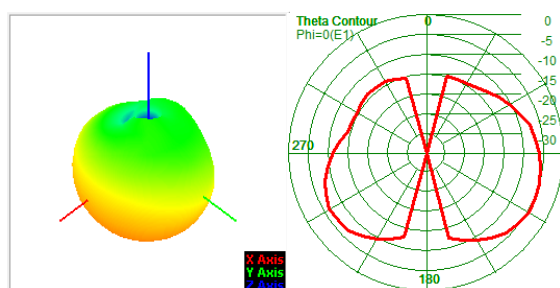
W5



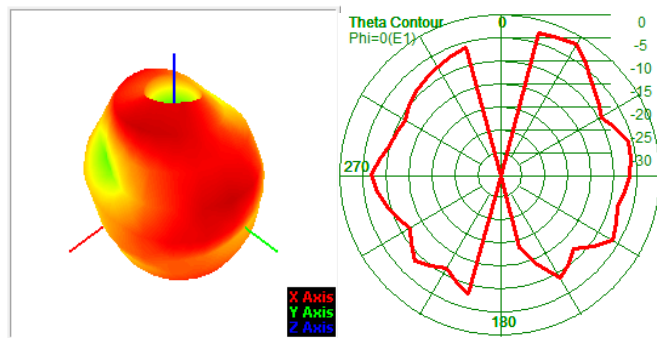
W8



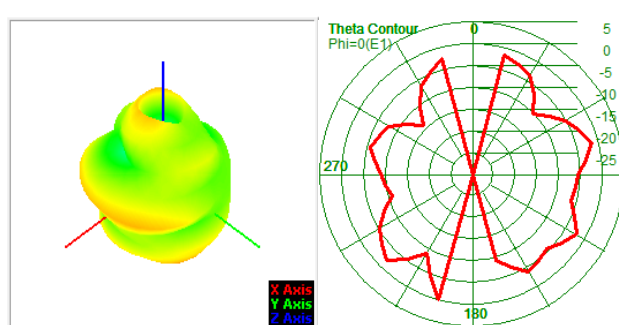
W19



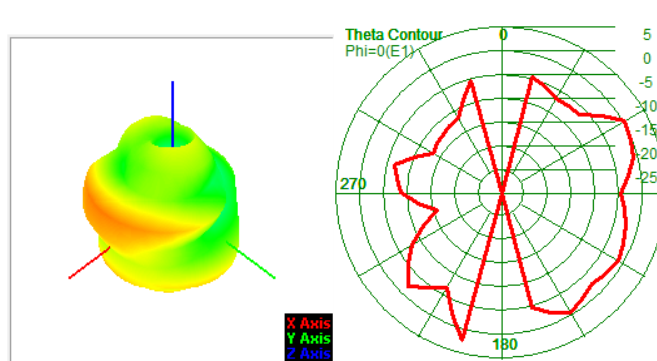
FDD-B1



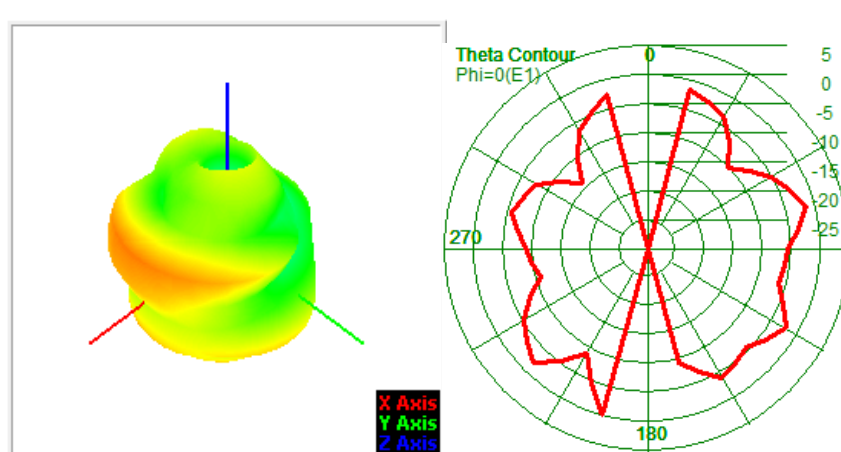
FDD-B2



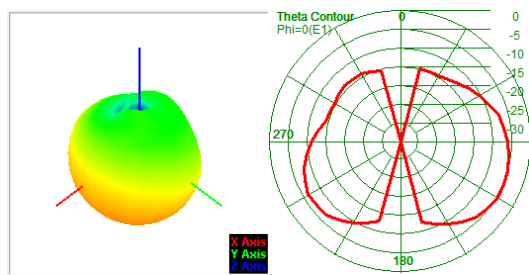
FDD-B3



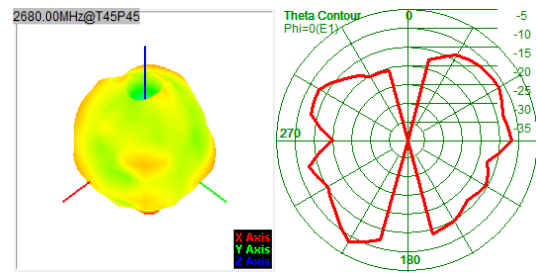
FDD-B4



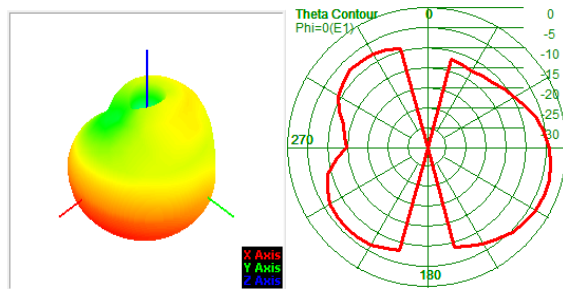
FDD-B5



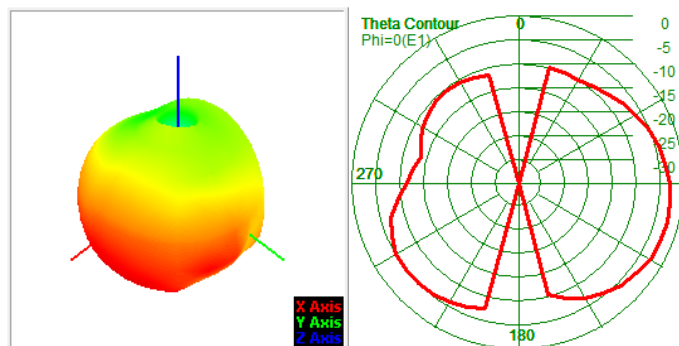
FDD-B7



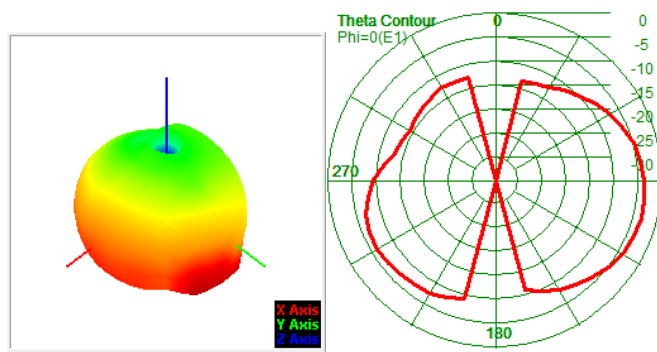
FDD-B8



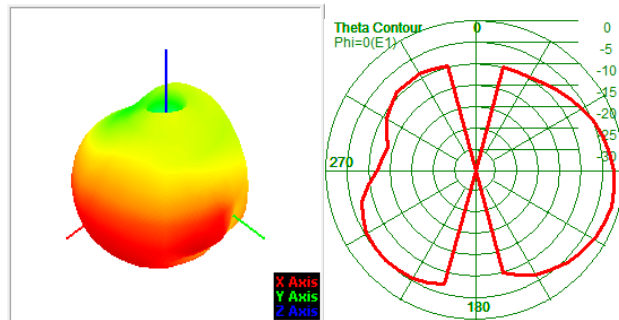
FDD-B12



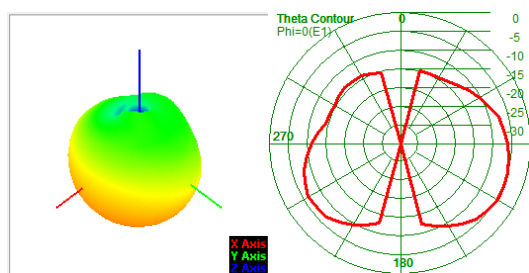
FDD-B13



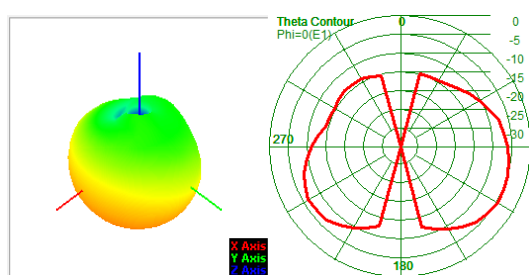
FDD-B17



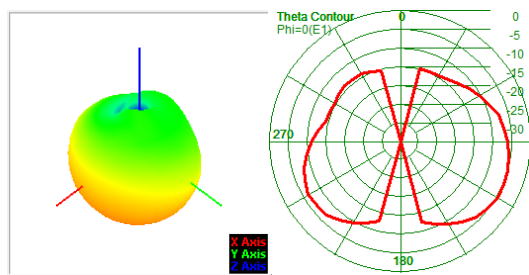
FDD-B18



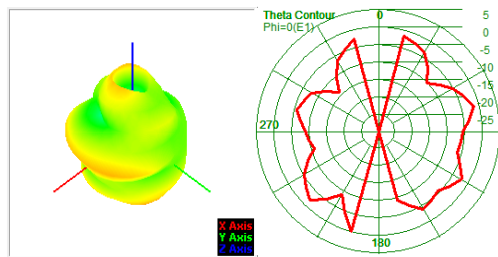
FDD-B19



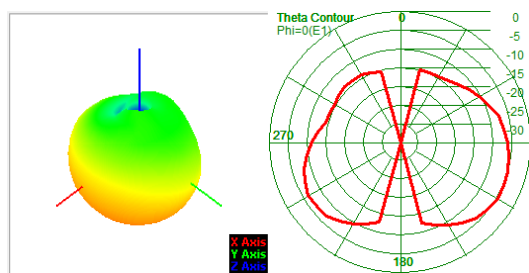
FDD-B20



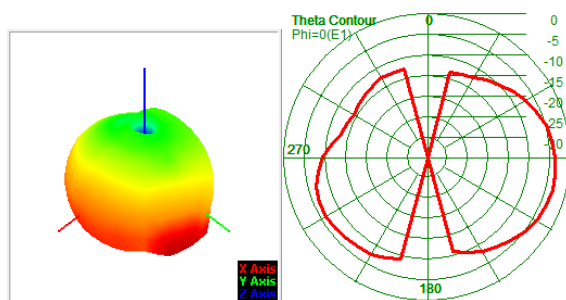
FDD-B25



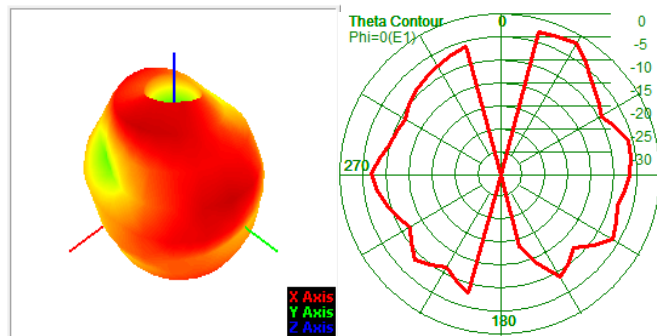
FDD-B26



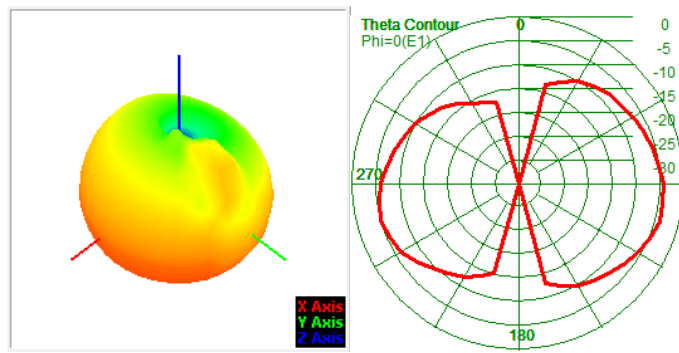
FDD-B28



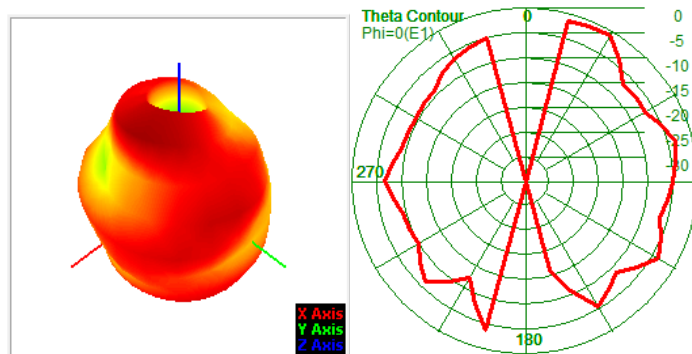
FDD-B66



FDD-B71

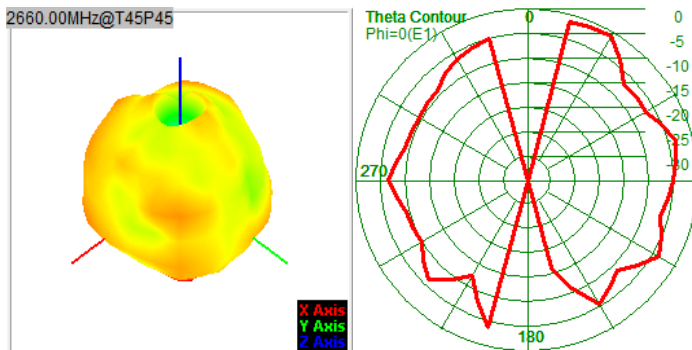


TDD-B34

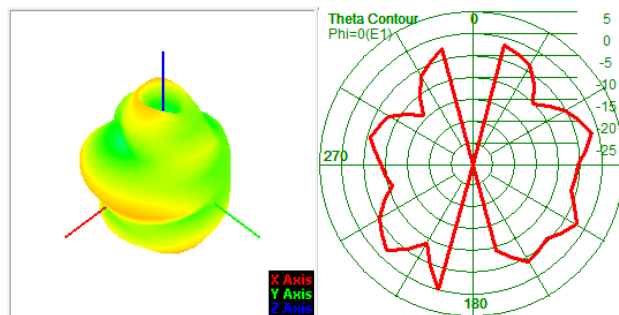


TDD-B38

2660.00MHz@T45P45

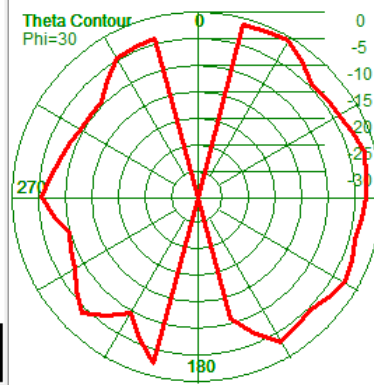
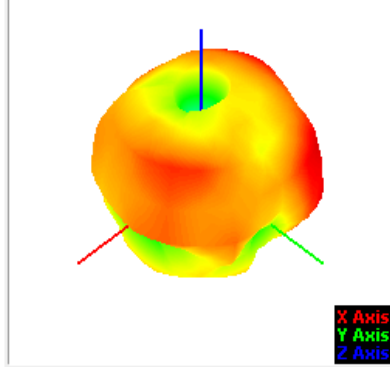


TDD-B39



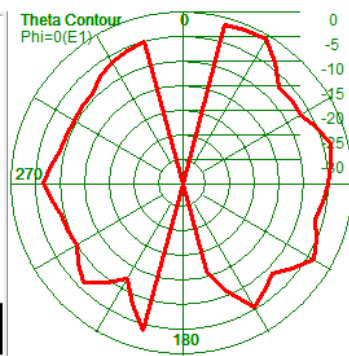
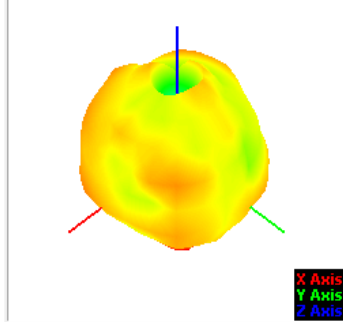
TDD-B40

2380.00MHz@T45P45

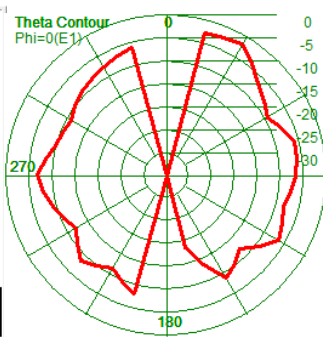
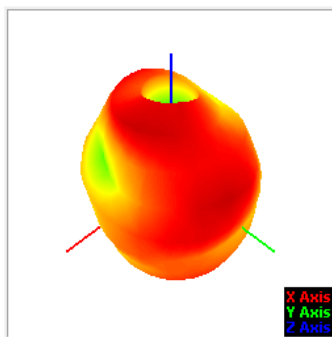


TDD-B41

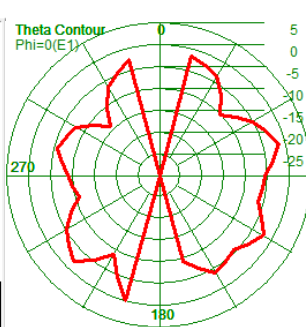
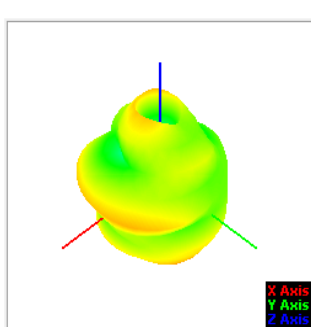
2660.00MHz@T45P45



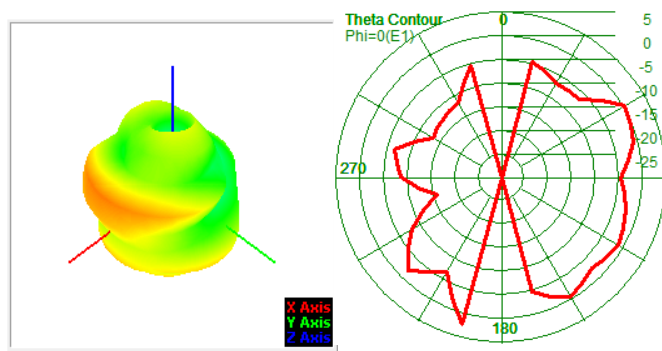
NR-1



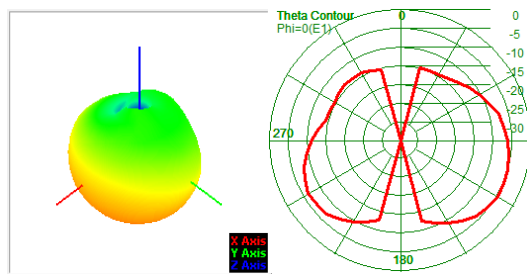
NR-2



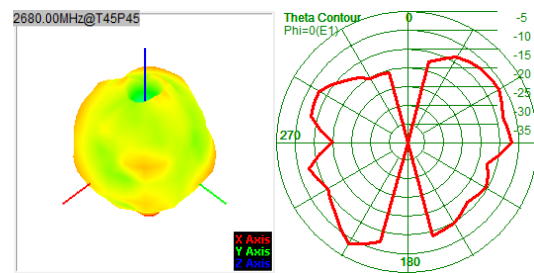
NR-3



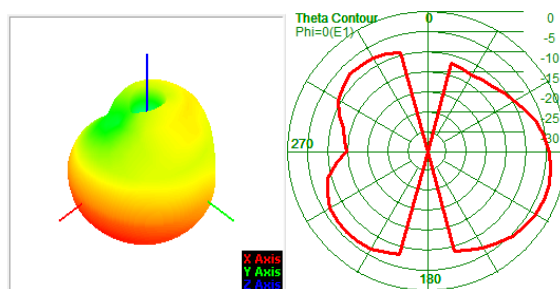
NR-5



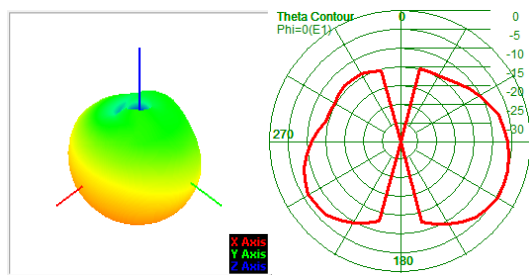
NR-7



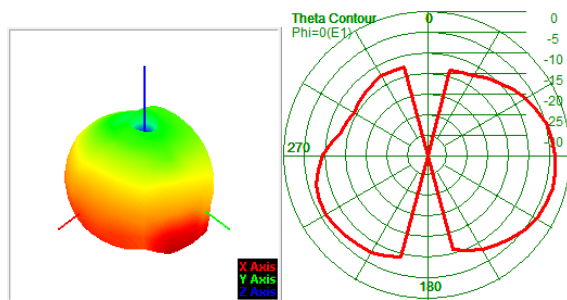
NR-8



NR-20

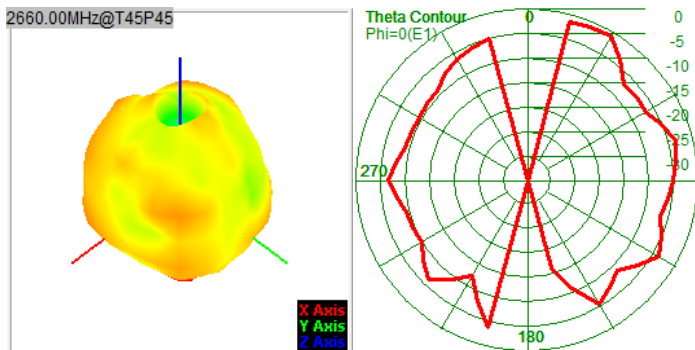


NR-28



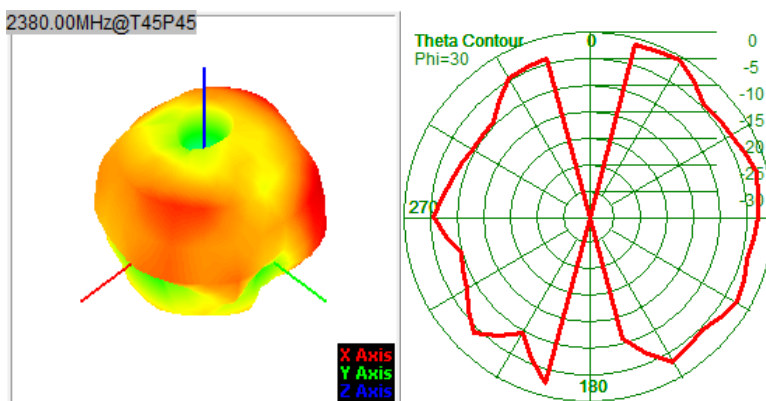
NR-38

2660.00MHz@T45P45



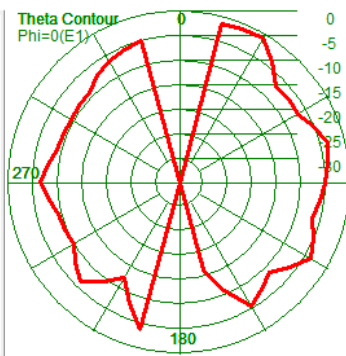
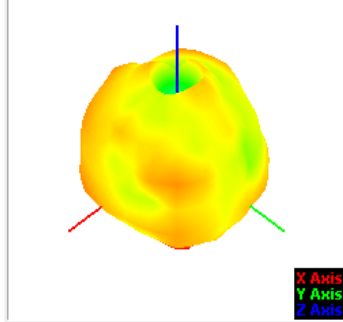
NR-40

2380.00MHz@T45P45

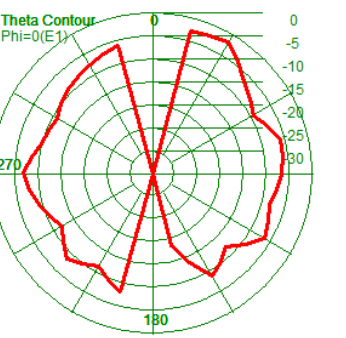
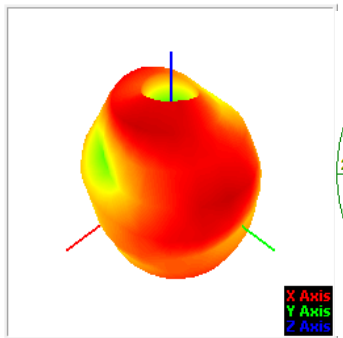


NR-41

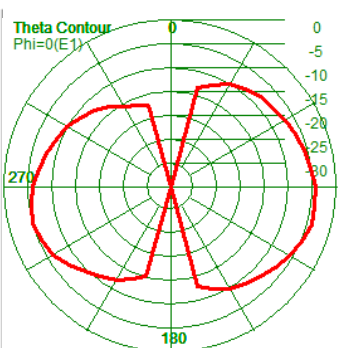
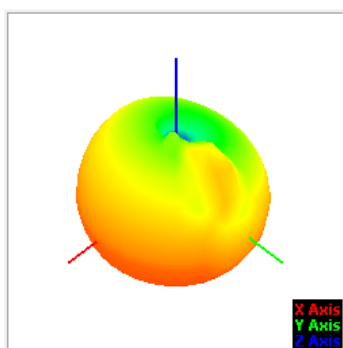
2660.00MHz@T45P45



NR-66

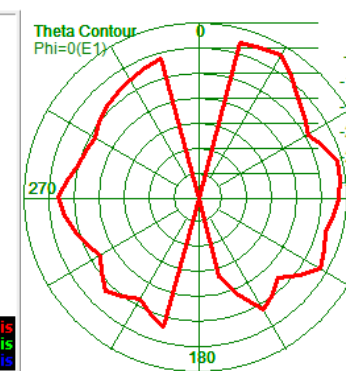
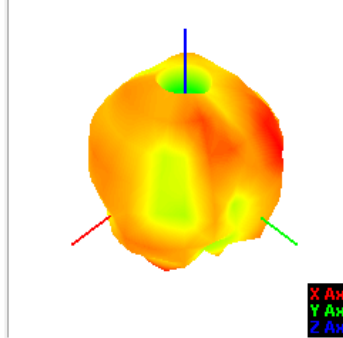


NR-71

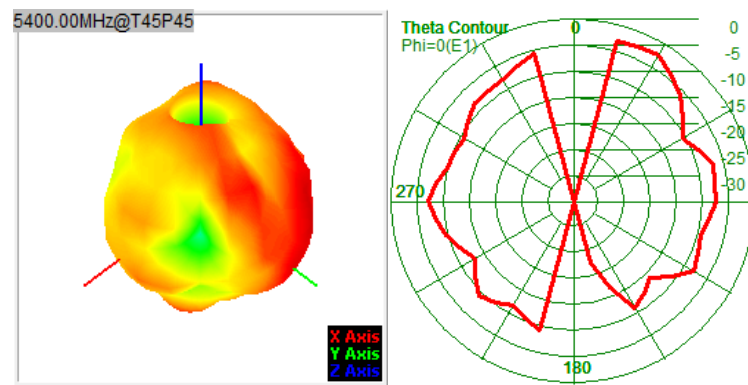


NR-77

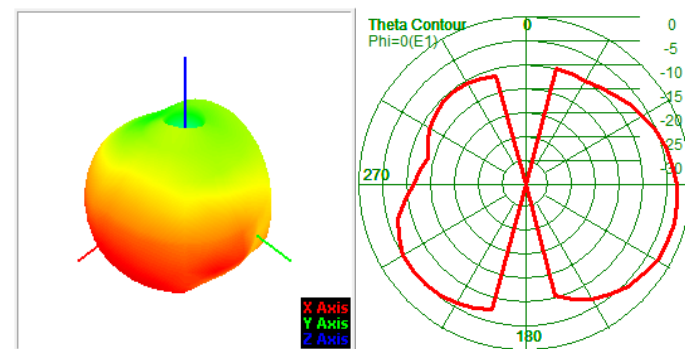
5150.00MHz@T45P45



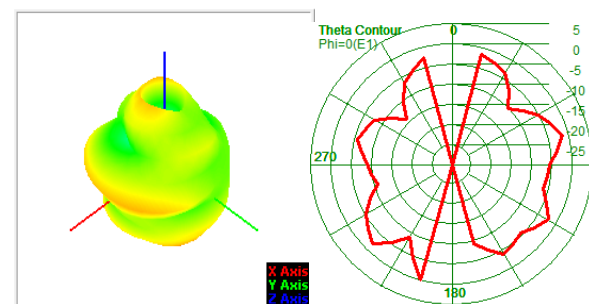
NR-78



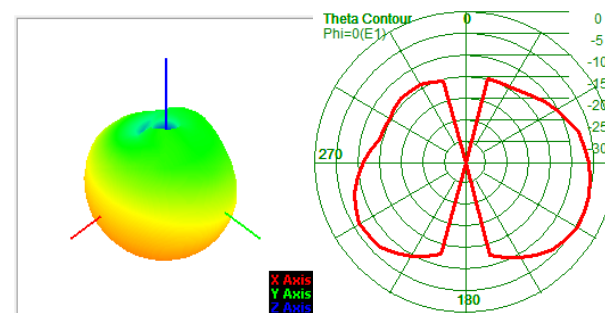
NR-12



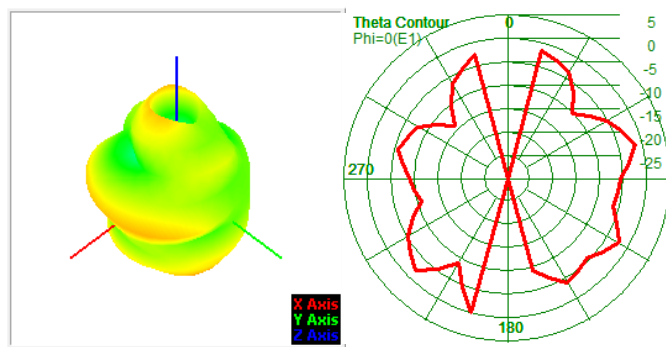
NR-25



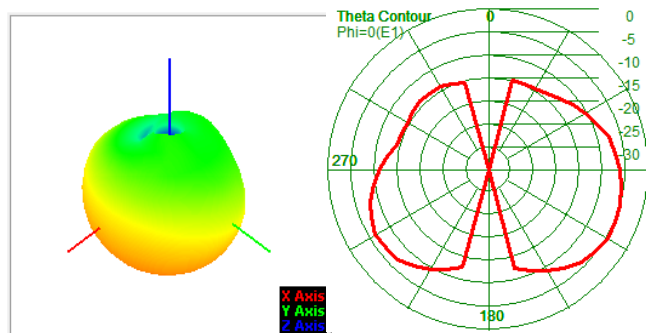
BC0



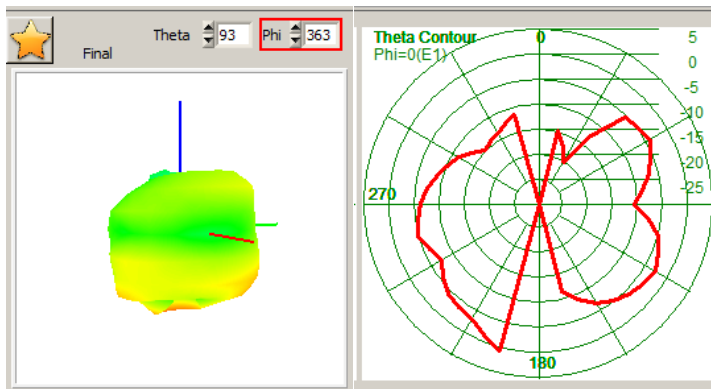
BC1



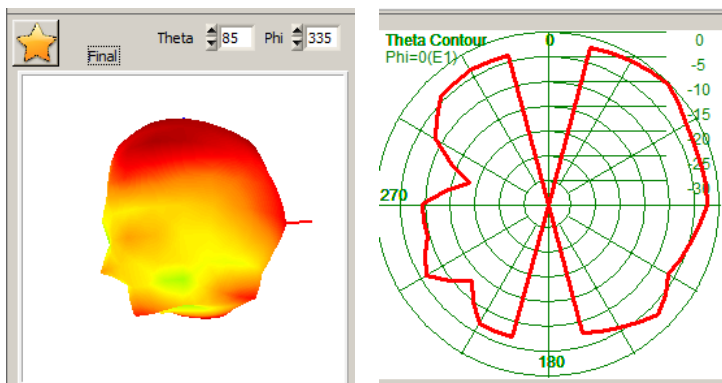
BC10



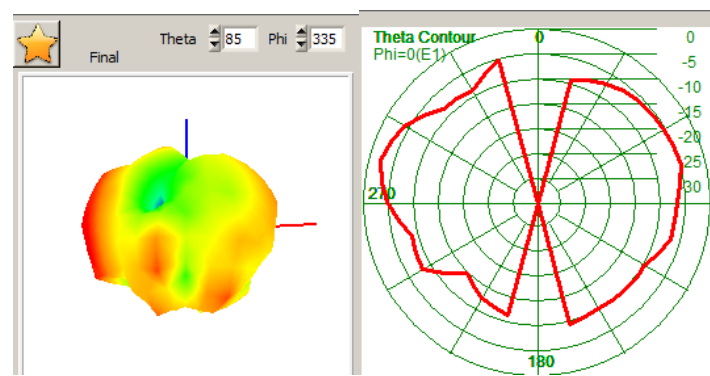
GPS



BT/WIFI-2.4



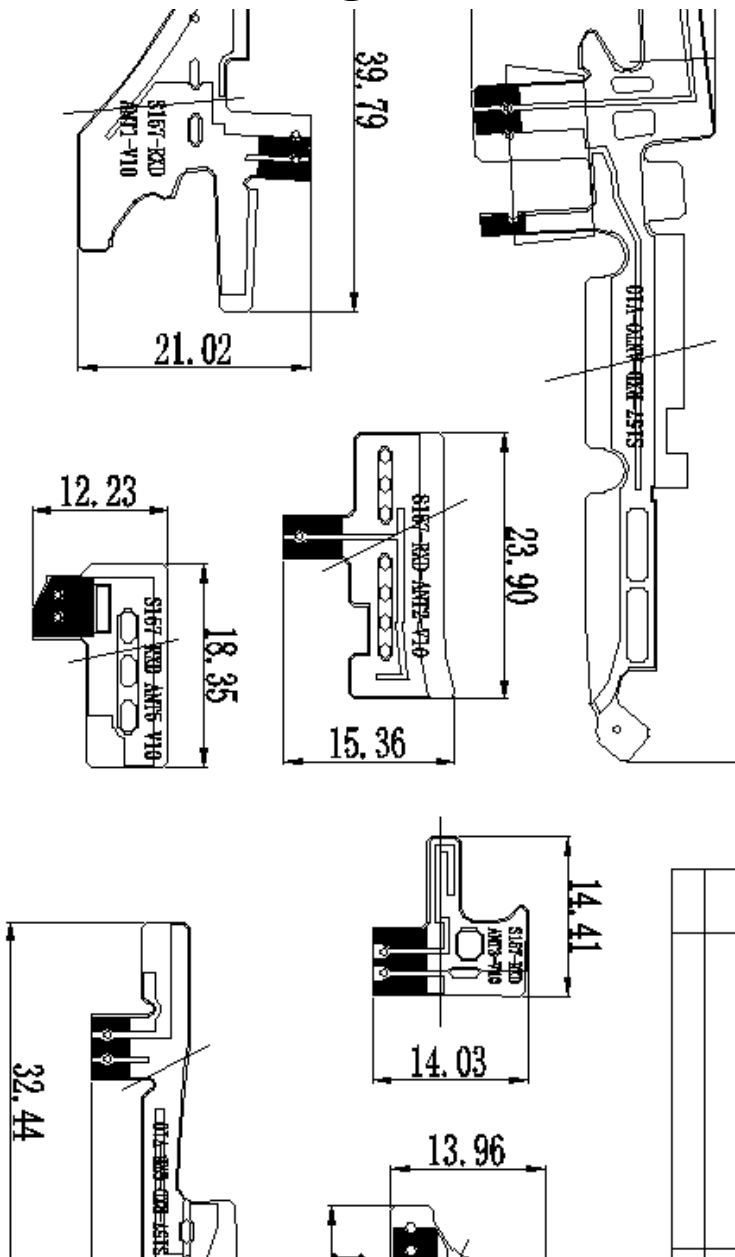
5.8G-WIFI



8.Introduction to Antenna Information

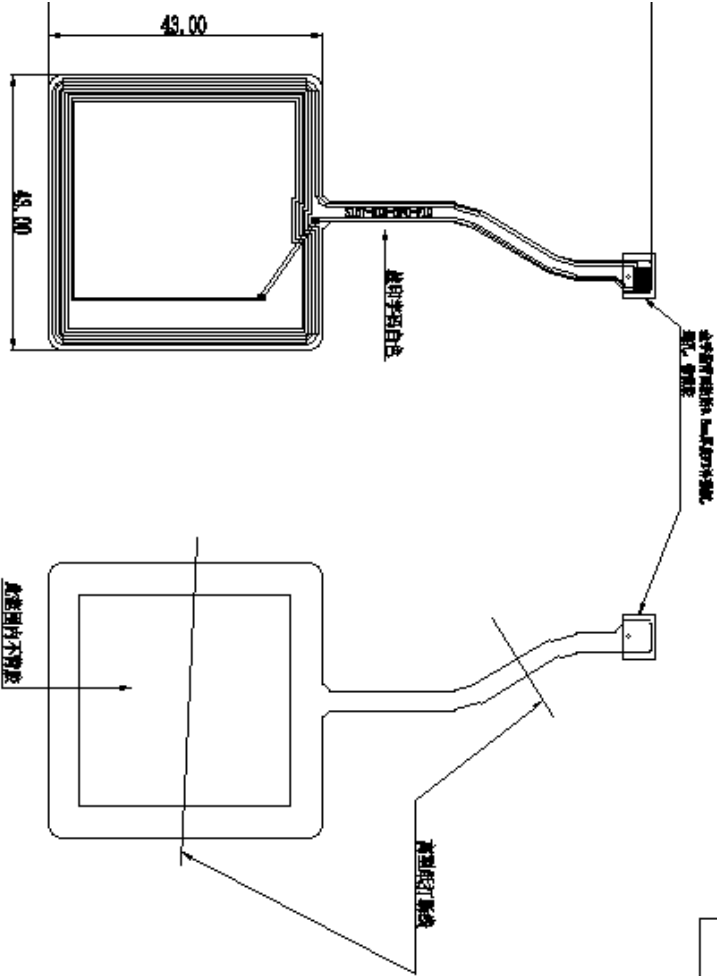
S157	
Antenna type and frequency band	MAIN ANTENNA(PIFA):2G/3G/4G/5G DIV ANTENNA(PIFA):2G/3G/4G/5G GPS/WIFI/BT ANTENNA(PIFA):L1/2.4GWIFI/BT
Antenna materia	FPC

9. Antenna NFC specification drawing



1. 为电气走线覆铜; 2. 红色为外形轮廓, 注意边缘尺寸
3. 解释: 半对半材质 厚度0.05mm; (贴后壳背面, 保证粘性)
4. 71B进口胶; 5. 金手指表面镀金/镀银3"5u";
黑色/覆白色; 7. 总体厚度应小于或等于0.2mm
图导电;

深圳市威鑫通达科技有限			
图例		名称: S167 NFC	
1	±0.5	材料: PI	1
2	±0.25	表面处理:	1
3	±0.05	颜色: 覆黑色/覆白色	比例: 1:1
4	±0.5°		
Autodesk 中			



铁氧体粘贴NFC表

铁氧体

部位为电气走线覆铜；2.红色为外形轮廓，注意边缘尺寸
为电解铜，半对半材质 厚度0.05mm；(贴后亮背面，保证粘性)
通9471B进口胶；5.金手指表面镀金/微镀3~5μ；
覆黑色/覆白色；7. 总体厚度应小于或等于0.2mm
产品图导电；

深圳市麒鑫通达科技有限公司			
尺寸		单位: mm	名称: S107-NFC
一般公差:		±0.5	材质: PI
J		±0.25	表面处理:
K		±0.05	颜色: 覆黑色/覆白色
M		±	比例: 1:1
ANGULAR		≤ ± 0.5°	
1	2	3	4