

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Project Name: S97B

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

DATE: 2023-10-17

ADDRESS: Room503-505,Building211,

Tairan IndustrialandTradePark,Chegongmiao,FutianDistrict,Shenzhen

1.Test Project

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

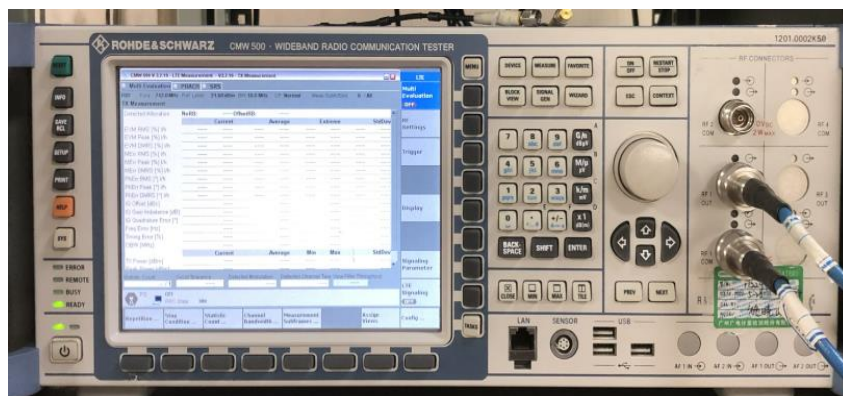
2. Test Equipment



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

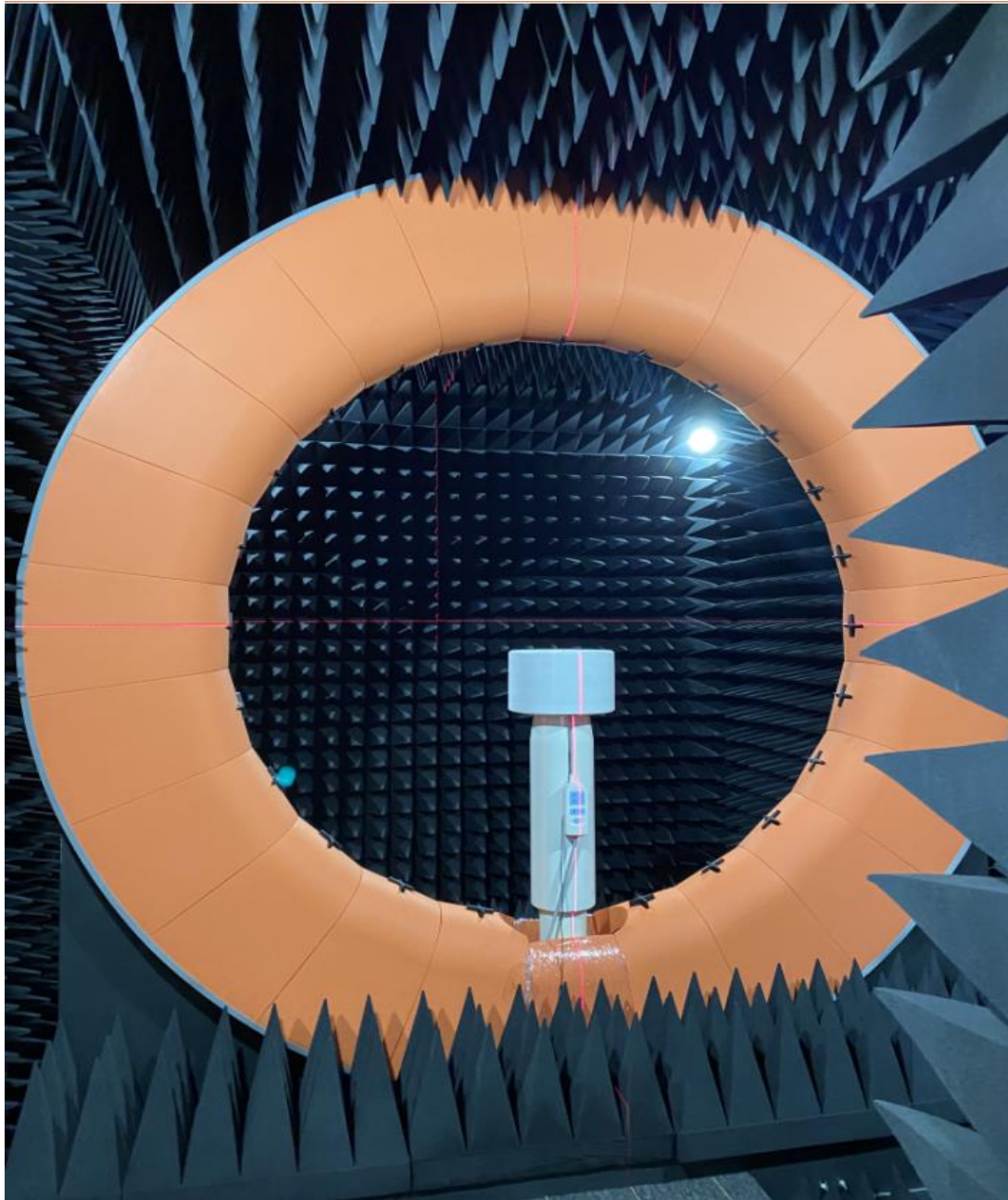


Agilent 8960 (2G/3G Test Equipment)



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

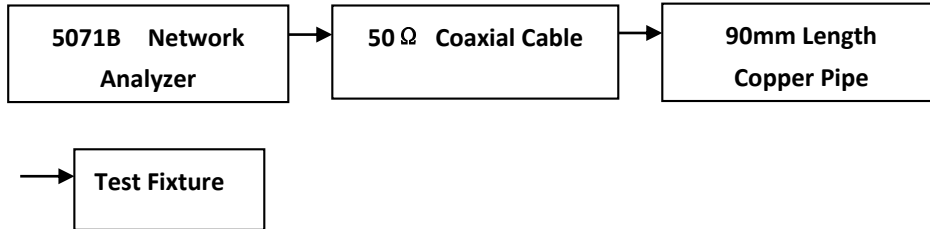
3. TestEnvironment



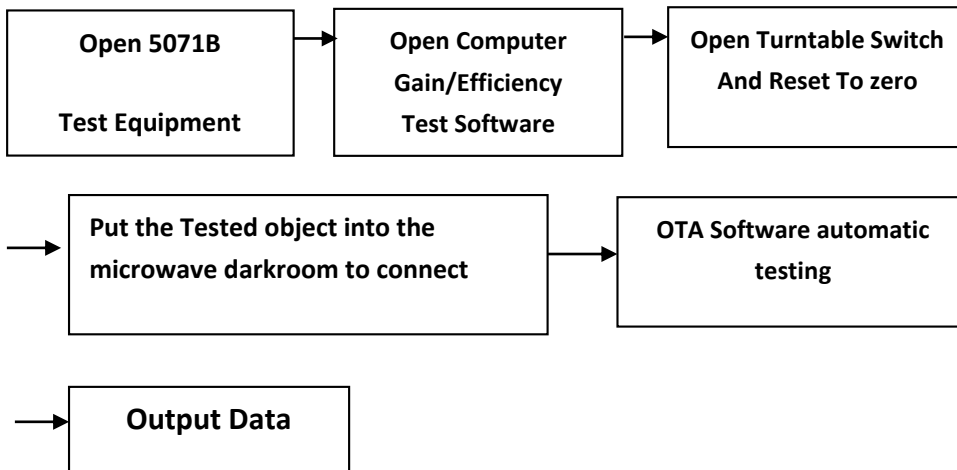
Microwave Anechoic Chamber

4. Test Steps

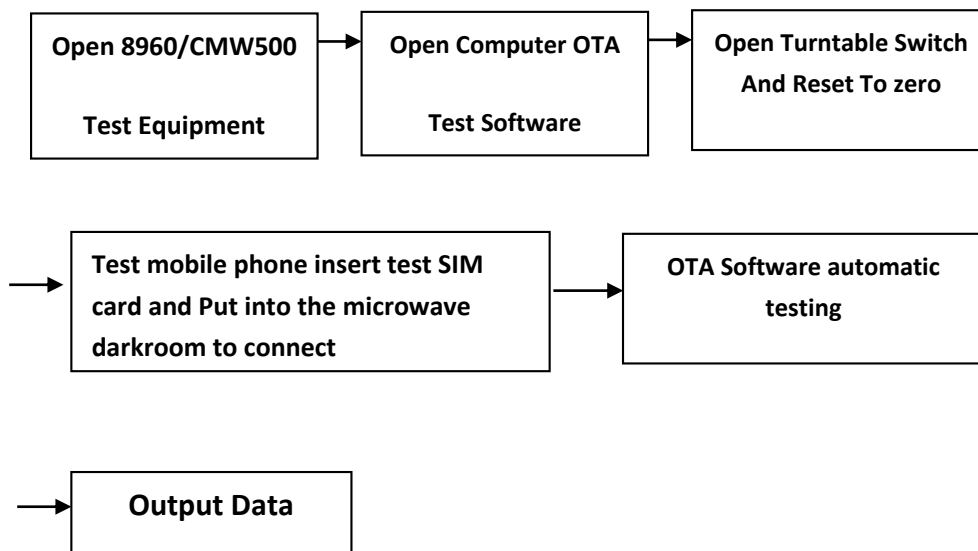
Passive VSWR/RL Test Steps:



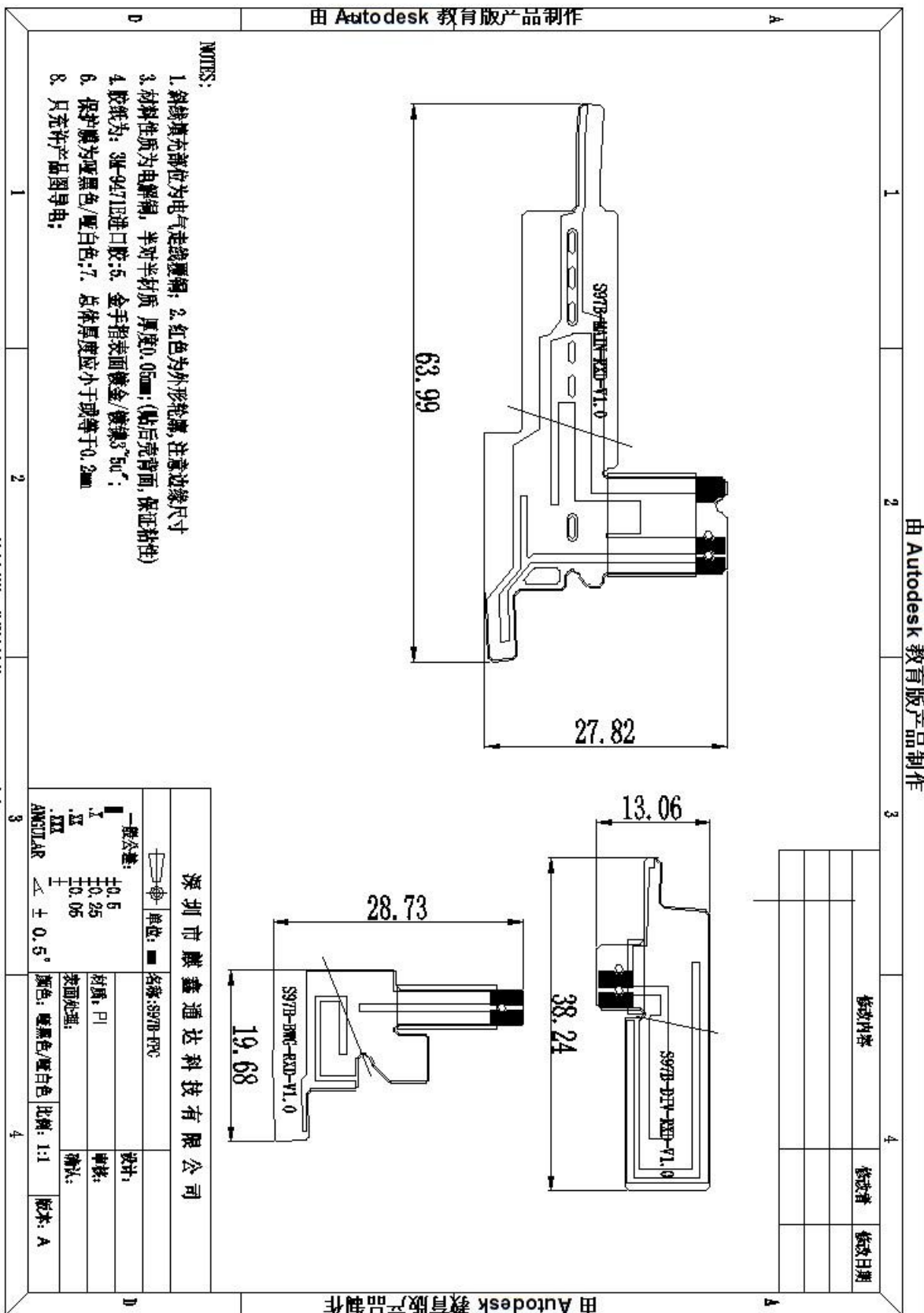
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Dimensions



6.Introduction to Antenna Information

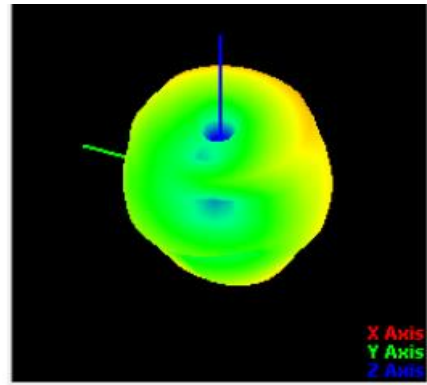
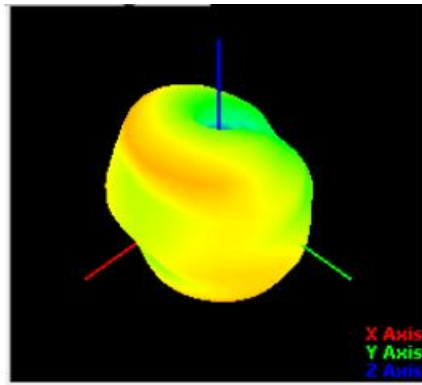
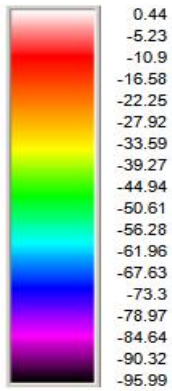
S97B	
Antenna type and frequency band	1、MAIN ANTENNA (S97B-MAIN-RXD-V1.0) (<u>PIFA</u>) : 2G/3G/4G 2、DIV ANTENNA (S97B-DIV-RXD-V1.0) (<u>PIFA</u>) : 2G/3G/4G 3、GPS/WIFI/BT ANTENNA (S97B-BWG-RXD-V1.0) (<u>PIFA</u>) :L1/2.4G/WIFI/5G/WIFI/BT
Antenna materia	FPC

7. Antenna Gain

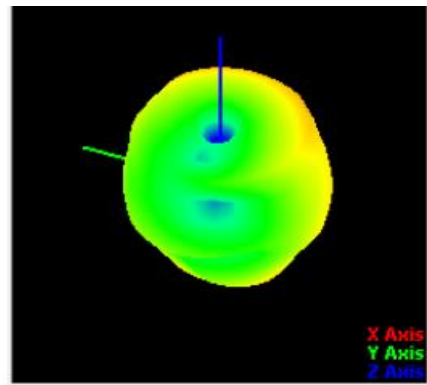
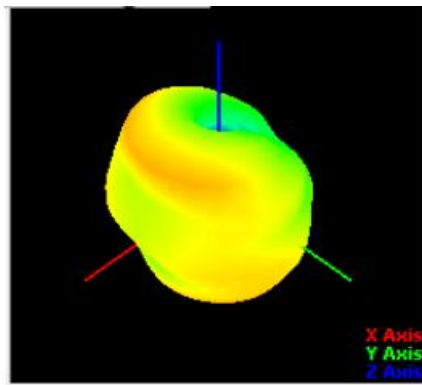
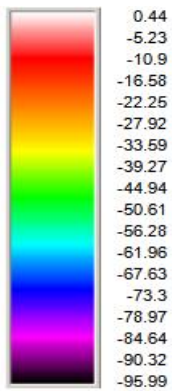
Band	Max Gain
GSM850	-2.13dBi
GSM900	-2.04dBi
DCS1800	-1.26dBi
PCS1900	-1.06dBi
WCDMA2100	-1.11dBi
WCDMA1900	-1.06dBi
WCDMA1700	-1.11dBi
WCDMA850	-2.13dBi
WCDMA900	-2.04dBi
BAND 1	-1.11dBi
BAND 2	-1.06dBi
BAND 3	-1.26dBi
BAND 4	-1.11dBi
BAND 5	-2.13dBi
BAND 7	0.83dBi
BAND 8	-2.04dBi
BAND 12	-3.05dBi
BAND 13	-2.29dBi
BAND 17	-3.05dBi
BAND 18	-2.13dBi
BAND 19	-2.13dBi
BAND 20	-2.13dBi
BAND 25	-1.06dBi
BAND 26	-2.13dBi
BAND 28	-3.05dBi
BAND 66	-1.11dBi
BAND 38	0.83dBi
BAND 40	2.12dBi
BAND 41	0.83dBi
GPS	-0.36dBi
2.4GWIFI	0.44dBi
BT	0.44dBi
5GWIFI	1.54dBi

8.3D Lobe Diagram

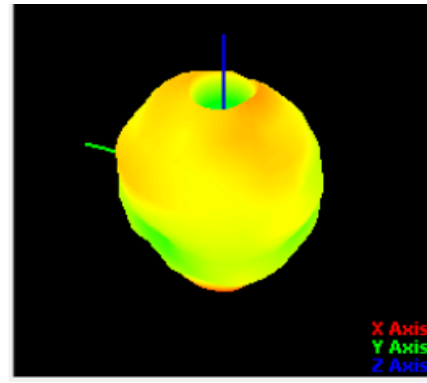
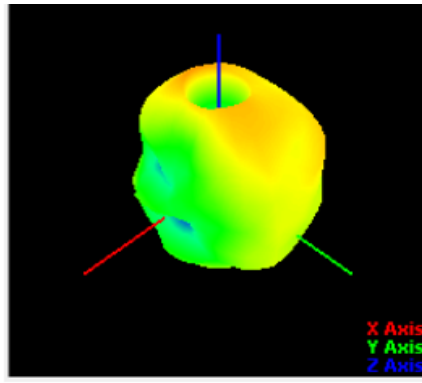
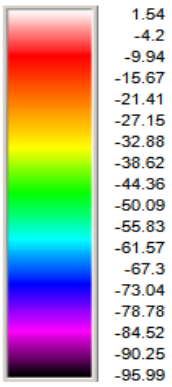
2.4G-WIFI



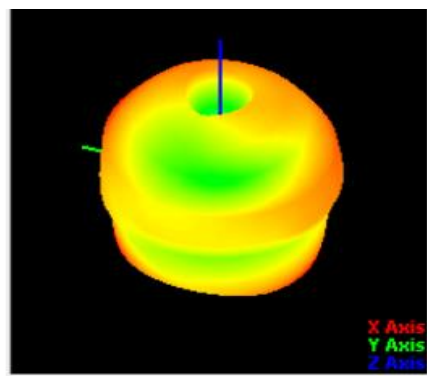
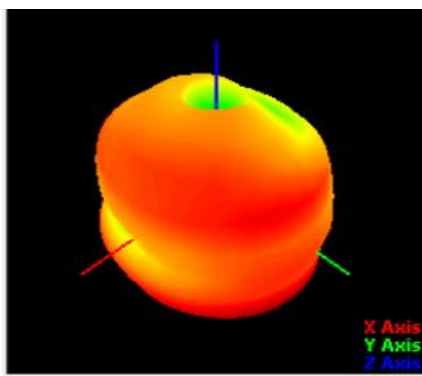
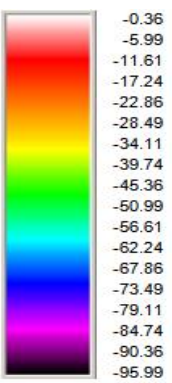
BT



5GWIFI



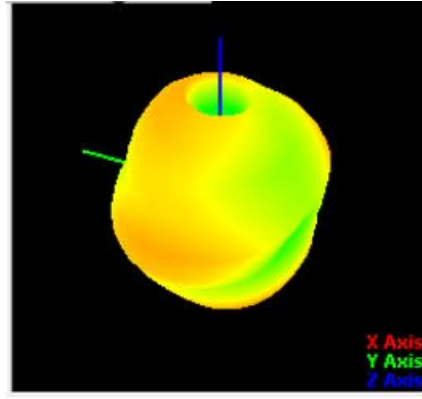
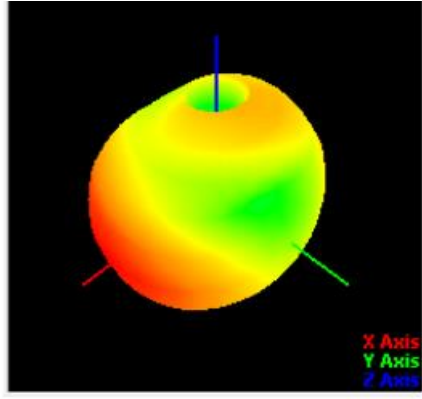
GPS



GSM850



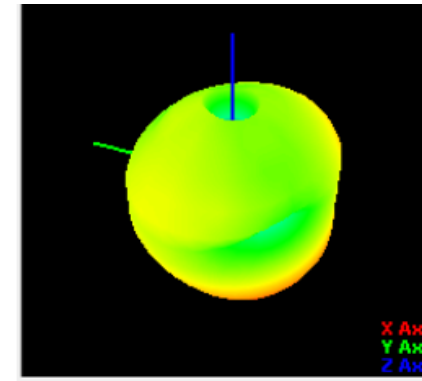
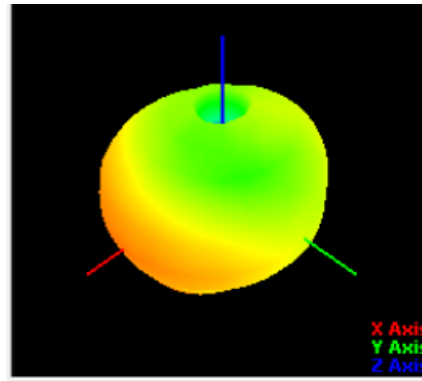
-2.13
-7.65
-13.17
-18.69
-24.21
-29.73
-35.25
-40.78
-46.3
-51.82
-57.34
-62.86
-68.38
-73.9
-79.43
-84.95
-90.47
-95.99



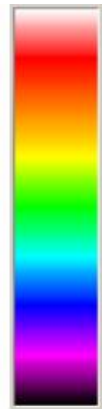
GSM900



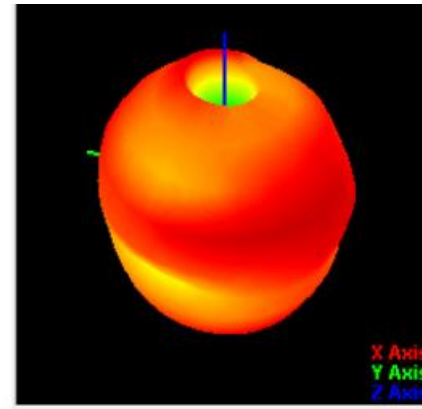
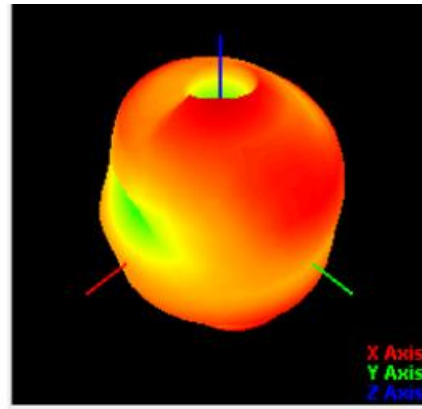
-2.04
-7.57
-13.09
-18.62
-24.15
-29.67
-35.2
-40.73
-46.25
-51.78
-57.31
-62.83
-68.36
-73.88
-79.41
-84.94
-90.46
-95.99



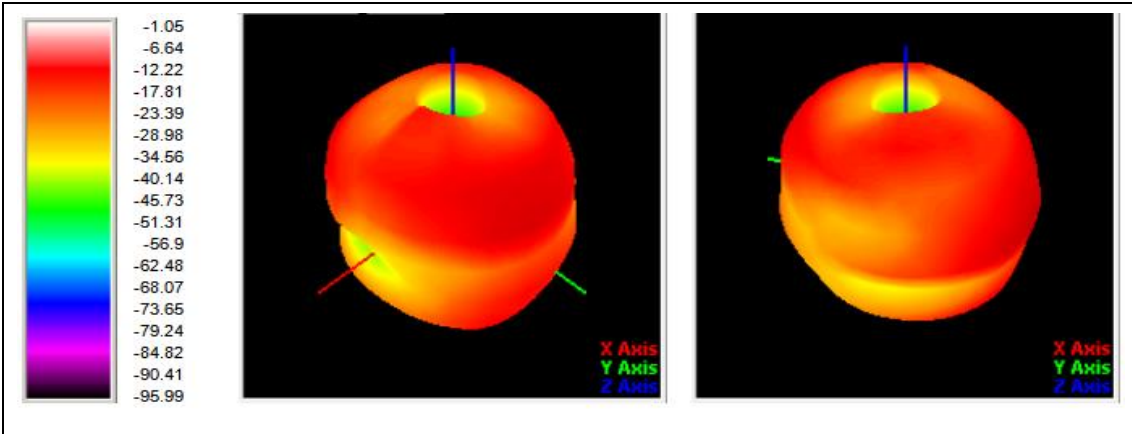
DCS1800



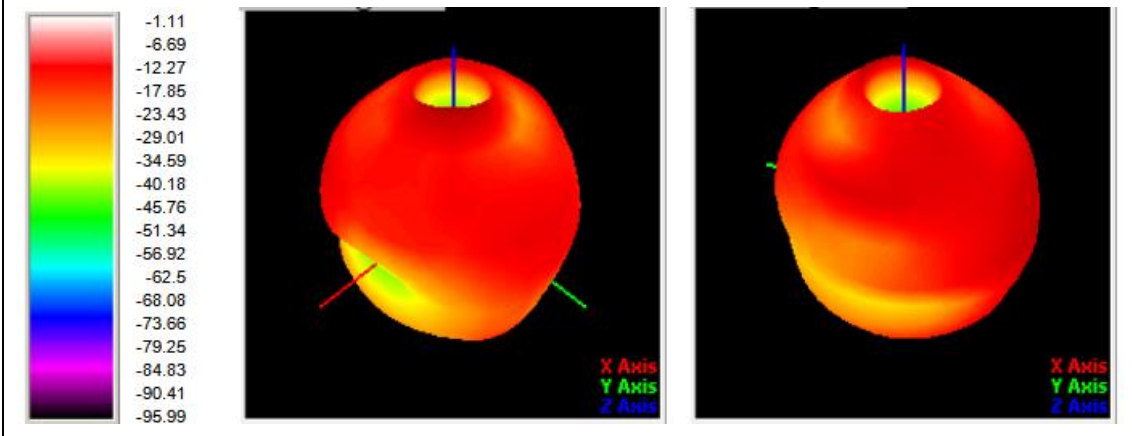
-1.25
-6.82
-12.4
-17.97
-23.54
-29.11
-34.69
-40.26
-45.83
-51.41
-56.98
-62.55
-68.13
-73.7
-79.27
-84.84
-90.42
-95.99



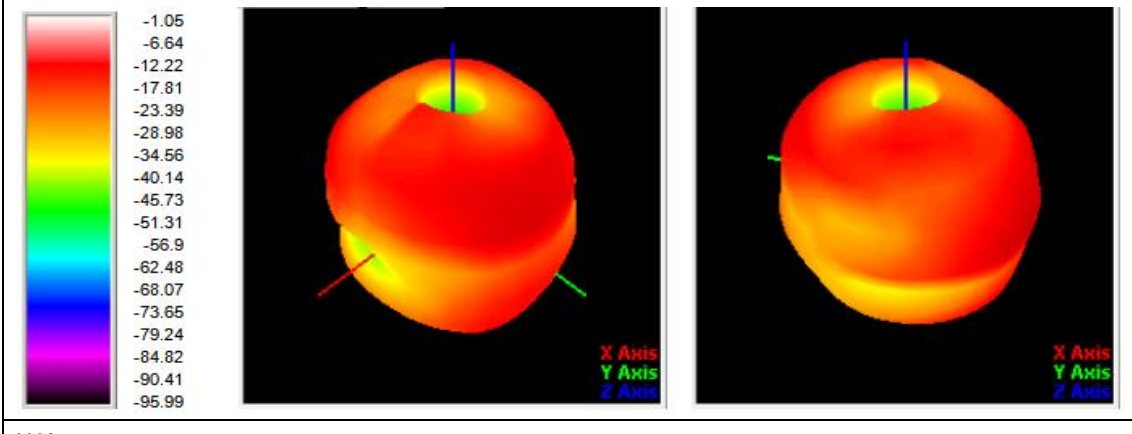
PCS1900



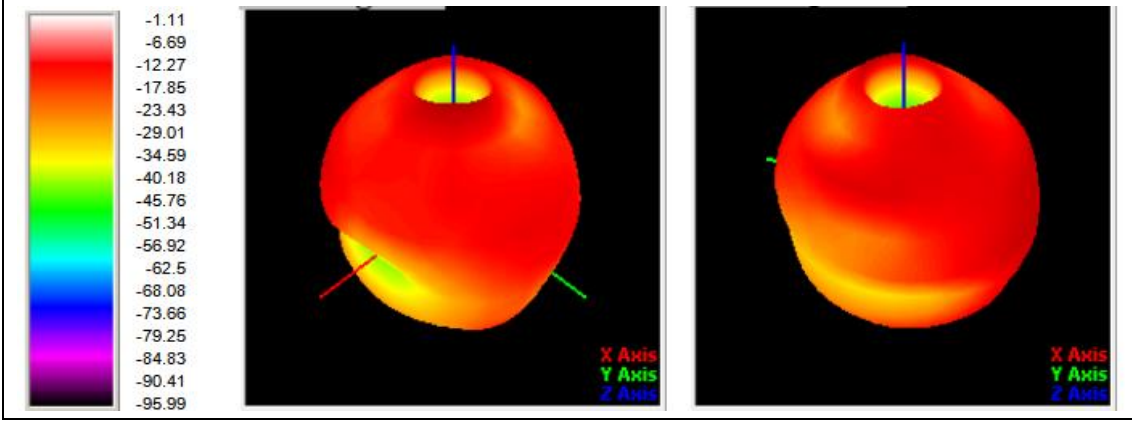
W1



W2



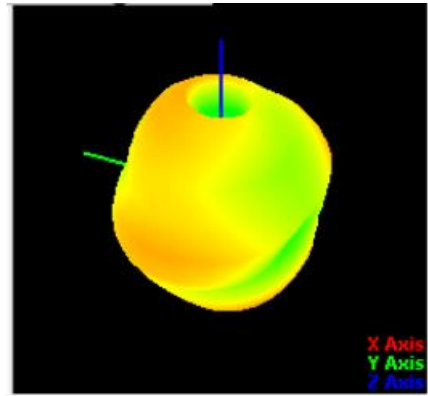
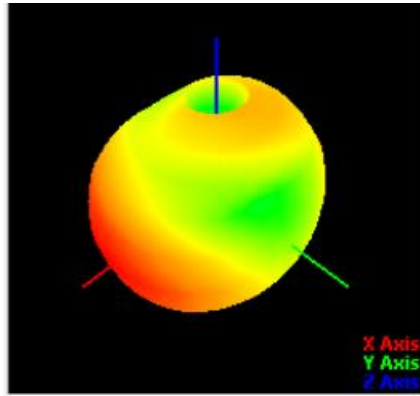
W4



W5



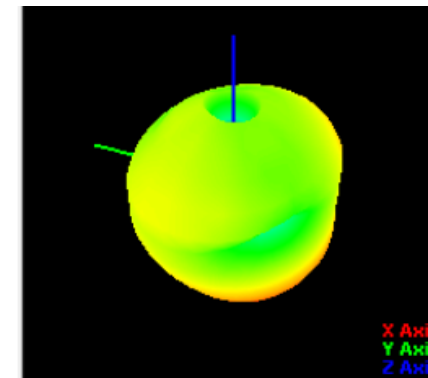
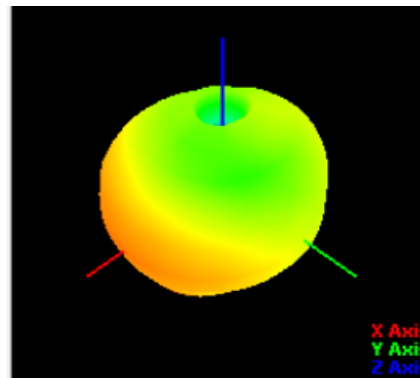
-2.13
-7.65
-13.17
-18.69
-24.21
-29.73
-35.25
-40.78
-46.3
-51.82
-57.34
-62.86
-68.38
-73.9
-79.43
-84.95
-90.47
-95.99



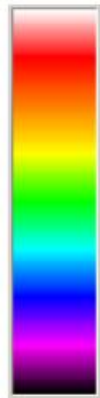
W8



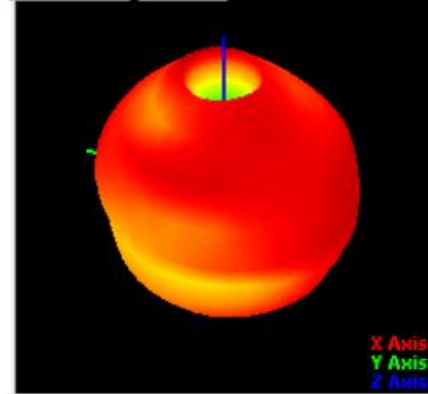
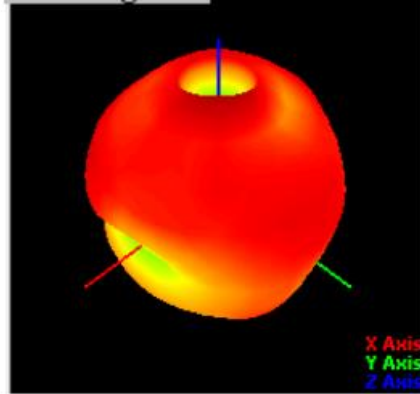
-2.04
-7.57
-13.09
-18.62
-24.15
-29.67
-35.2
-40.73
-46.25
-51.78
-57.31
-62.83
-68.36
-73.88
-79.41
-84.94
-90.46
-95.99



FDD-B1



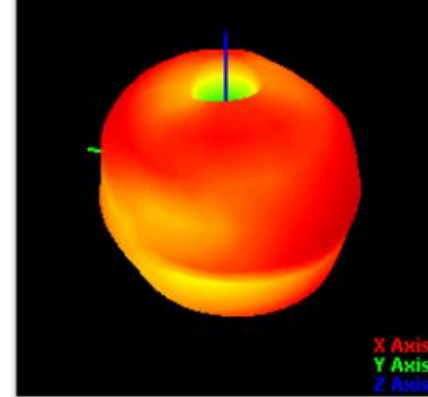
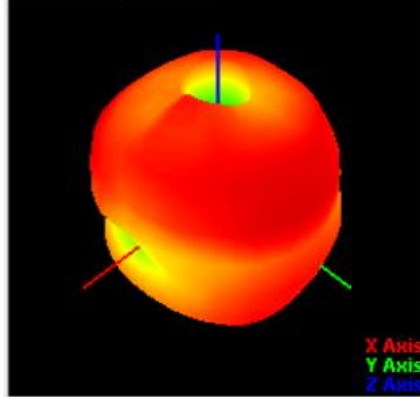
-1.11
-6.69
-12.27
-17.85
-23.43
-29.01
-34.59
-40.18
-45.76
-51.34
-56.92
-62.5
-68.08
-73.66
-79.25
-84.83
-90.41
-95.99



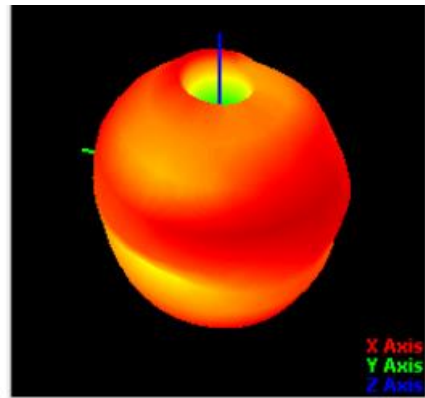
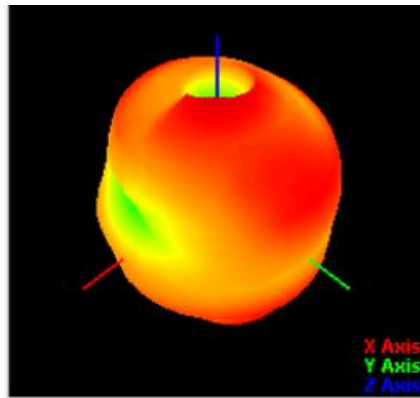
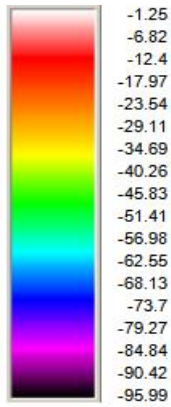
FDD-B2



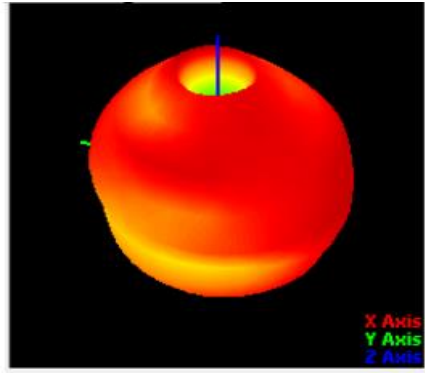
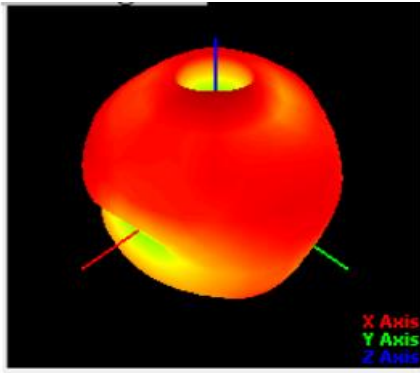
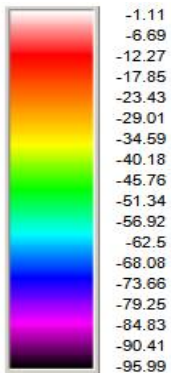
-1.05
-6.64
-12.22
-17.81
-23.39
-28.98
-34.56
-40.14
-45.73
-51.31
-56.9
-62.48
-68.07
-73.65
-79.24
-84.82
-90.41
-95.99



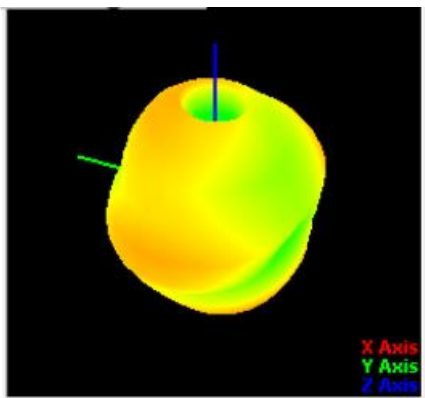
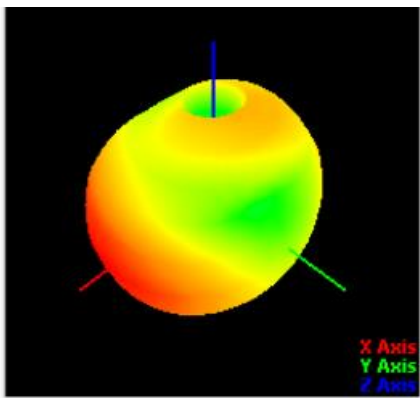
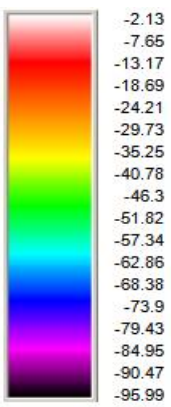
FDD-B3



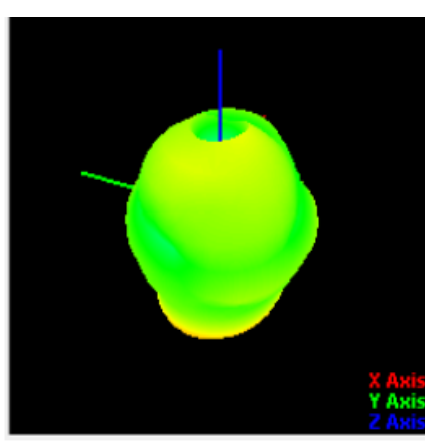
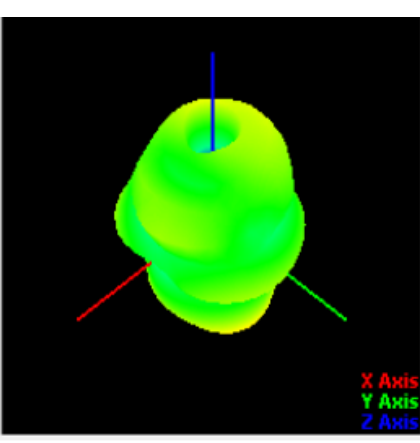
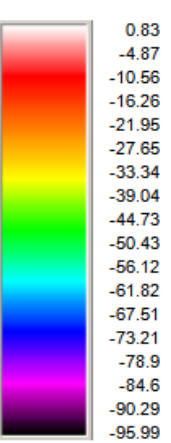
FDD-B4



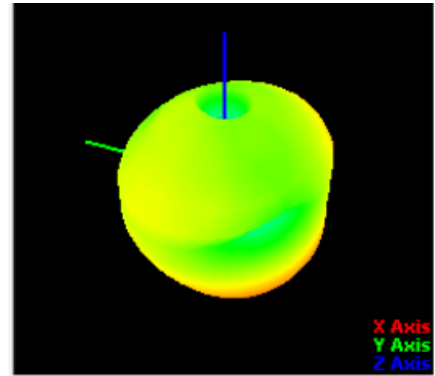
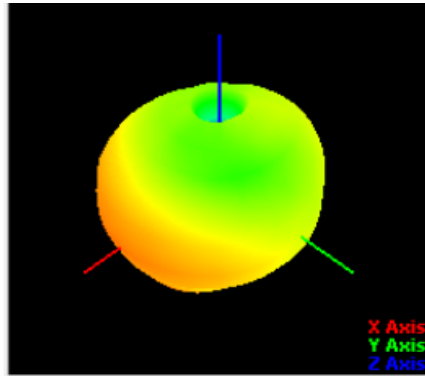
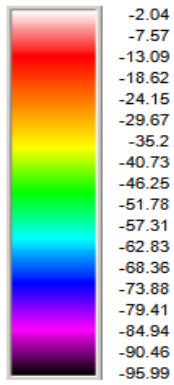
FDD-B5



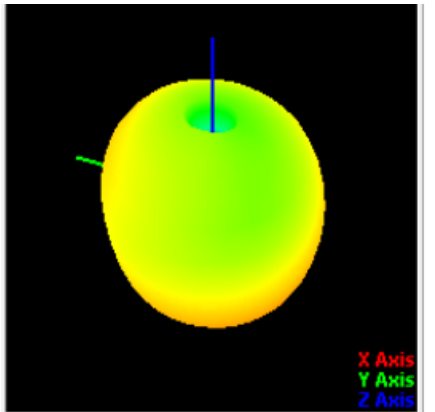
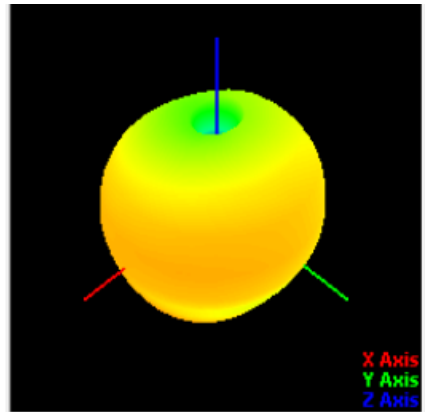
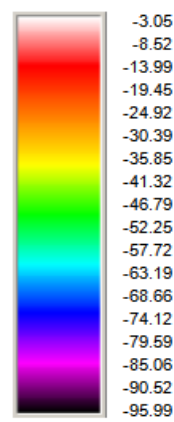
FDD-B7



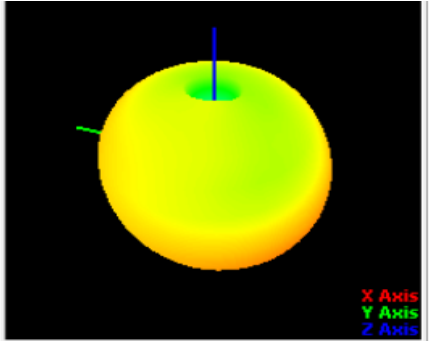
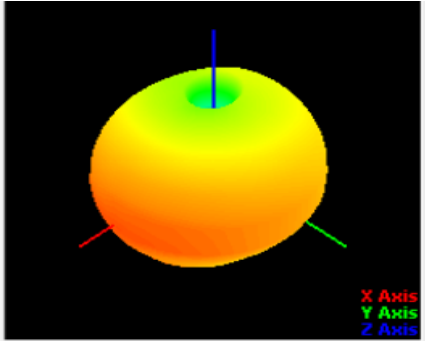
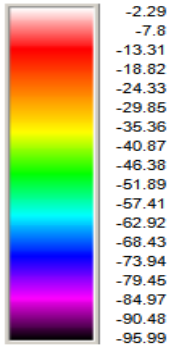
FDD-B8



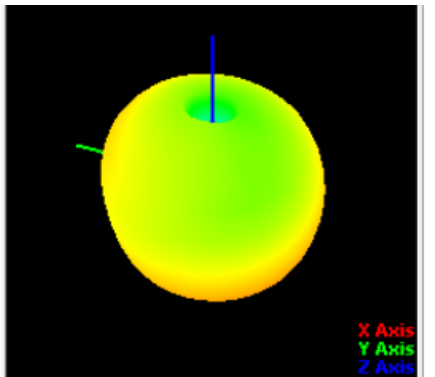
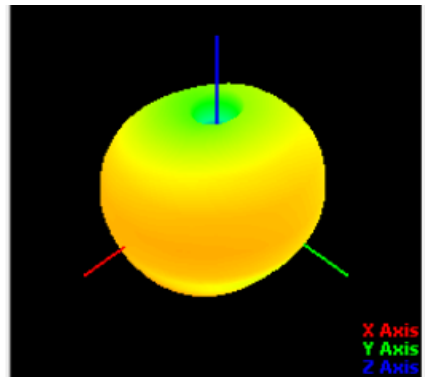
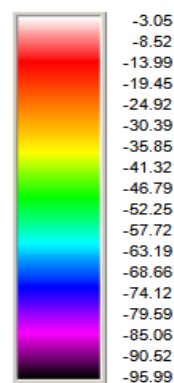
FDD-B12



FDD-B13



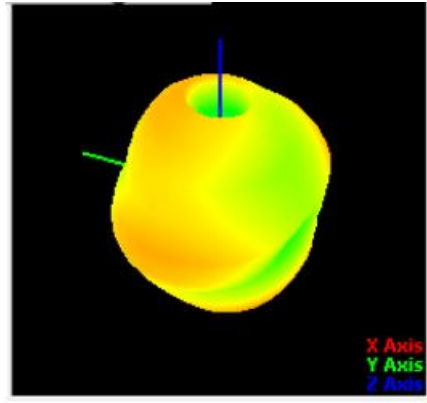
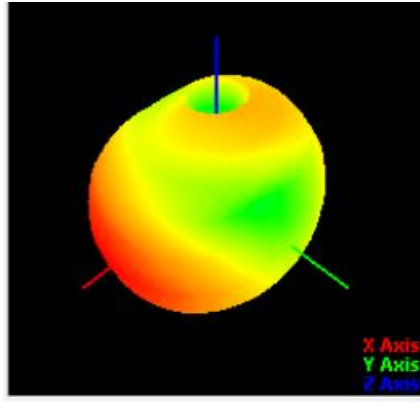
FDD-B17



FDD-B18



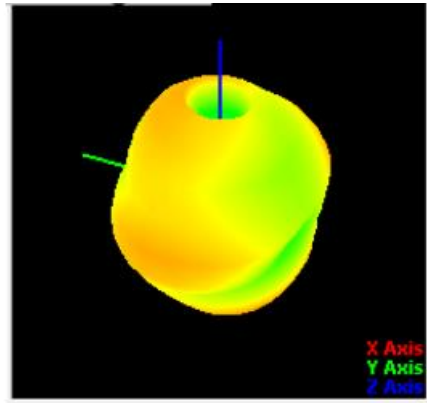
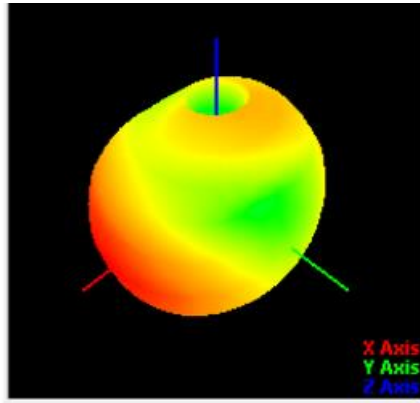
-2.13
-7.65
-13.17
-18.69
-24.21
-29.73
-35.25
-40.78
-46.3
-51.82
-57.34
-62.86
-68.38
-73.9
-79.43
-84.95
-90.47
-95.99



FDD-B19



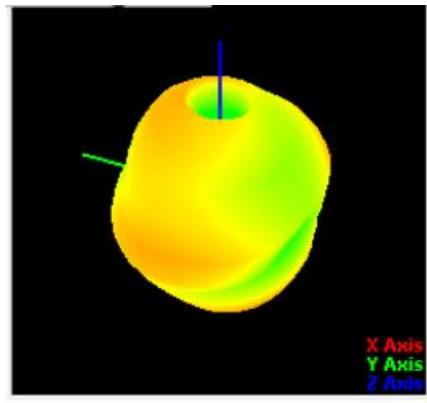
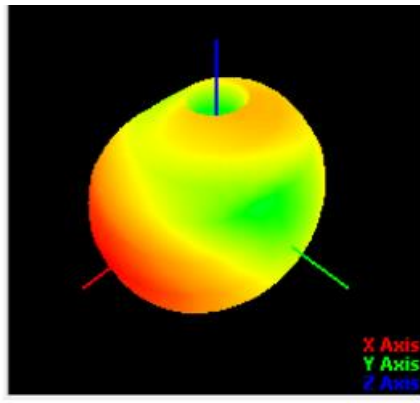
-2.13
-7.65
-13.17
-18.69
-24.21
-29.73
-35.25
-40.78
-46.3
-51.82
-57.34
-62.86
-68.38
-73.9
-79.43
-84.95
-90.47
-95.99



FDD-B20



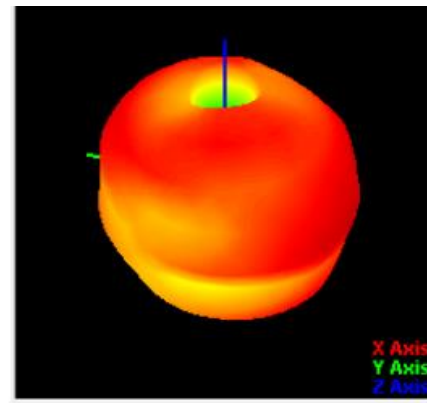
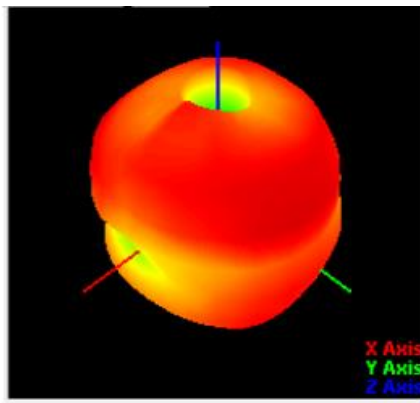
-2.13
-7.65
-13.17
-18.69
-24.21
-29.73
-35.25
-40.78
-46.3
-51.82
-57.34
-62.86
-68.38
-73.9
-79.43
-84.95
-90.47
-95.99



FDD-B25



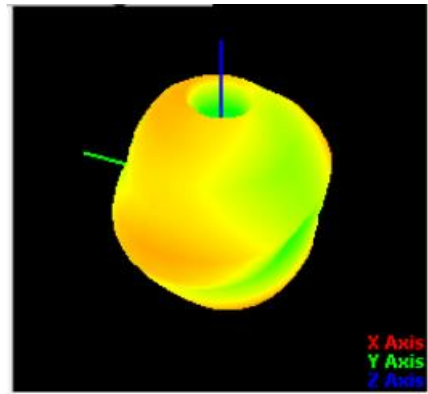
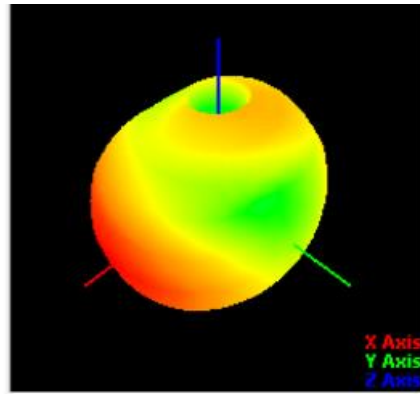
-1.05
-6.64
-12.22
-17.81
-23.39
-28.98
-34.56
-40.14
-45.73
-51.31
-56.9
-62.48
-68.07
-73.65
-79.24
-84.82
-90.41
-95.99



FDD-B26



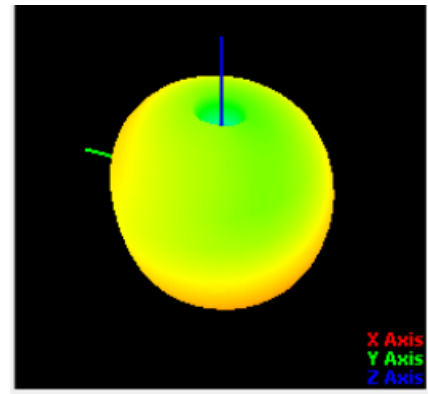
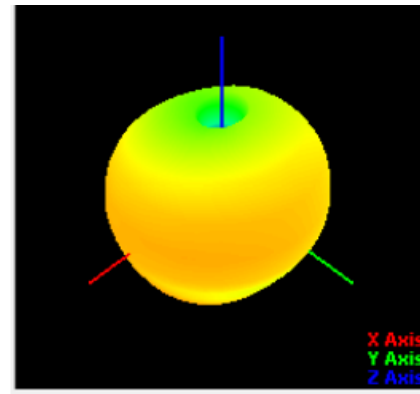
-2.13
-7.65
-13.17
-18.69
-24.21
-29.73
-35.25
-40.78
-46.3
-51.82
-57.34
-62.86
-68.38
-73.9
-79.43
-84.95
-90.47
-95.99



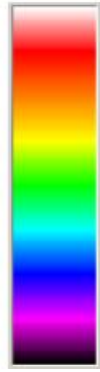
FDD-B28



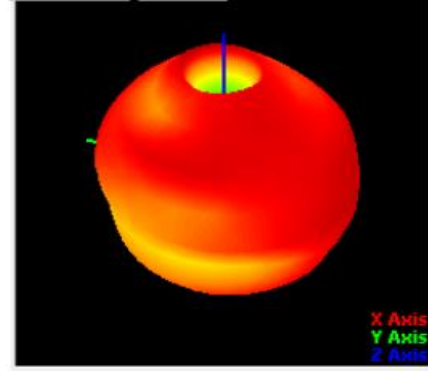
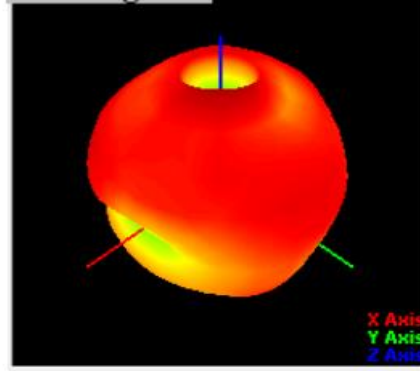
-3.05
-8.52
-13.99
-19.45
-24.92
-30.39
-35.85
-41.32
-46.79
-52.25
-57.72
-63.19
-68.66
-74.12
-79.59
-85.06
-90.52
-95.99



FDD-B66



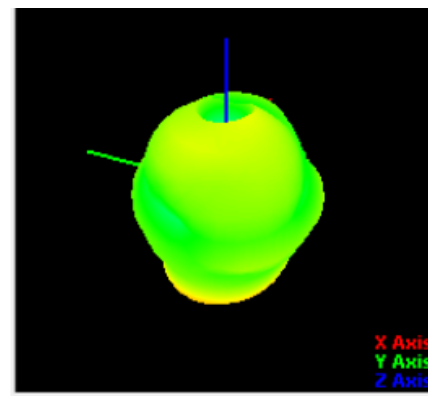
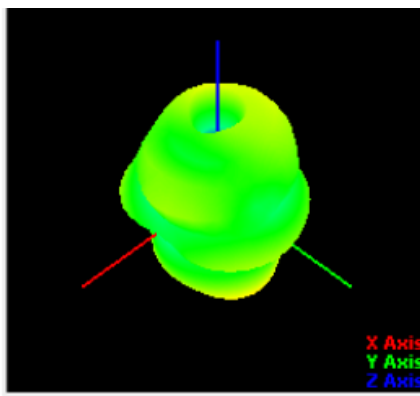
-1.11
-6.69
-12.27
-17.85
-23.43
-29.01
-34.59
-40.18
-45.76
-51.34
-56.92
-62.5
-68.08
-73.66
-79.25
-84.83
-90.41
-95.99



TDD-B38



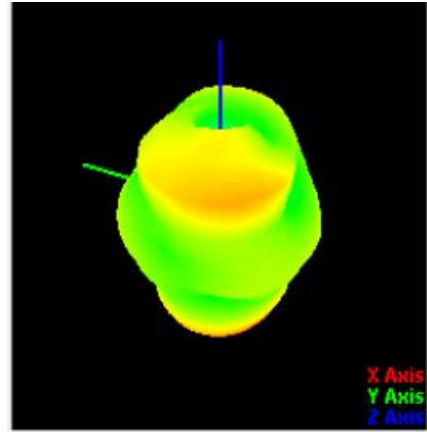
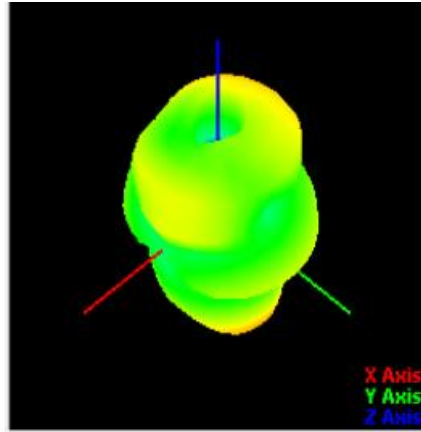
0.83
-4.87
-10.56
-16.26
-21.95
-27.65
-33.34
-39.04
-44.73
-50.43
-56.12
-61.82
-67.51
-73.21
-78.9
-84.6
-90.29
-95.99



TDD-B40



2.12
-3.65
-9.42
-15.2
-20.97
-26.74
-32.51
-38.28
-44.05
-49.82
-55.59
-61.36
-67.13
-72.91
-78.68
-84.45
-90.22
-95.99



TDD-B41



0.83
-4.87
-10.56
-16.26
-21.95
-27.65
-33.34
-39.04
-44.73
-50.43
-56.12
-61.82
-67.51
-73.21
-78.9
-84.6
-90.29
-95.99

