ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Project Name：CP680

FrequencyBand: GSM:B2/B3/B5/B8

WCDMA:B1/B2/B4/B5/B8

FDDLTE:B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B20/B25/B26/B28a+b/B66

TDD-LTE:B34/B38/B39/B40/B41

DATE：2024-12-20

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

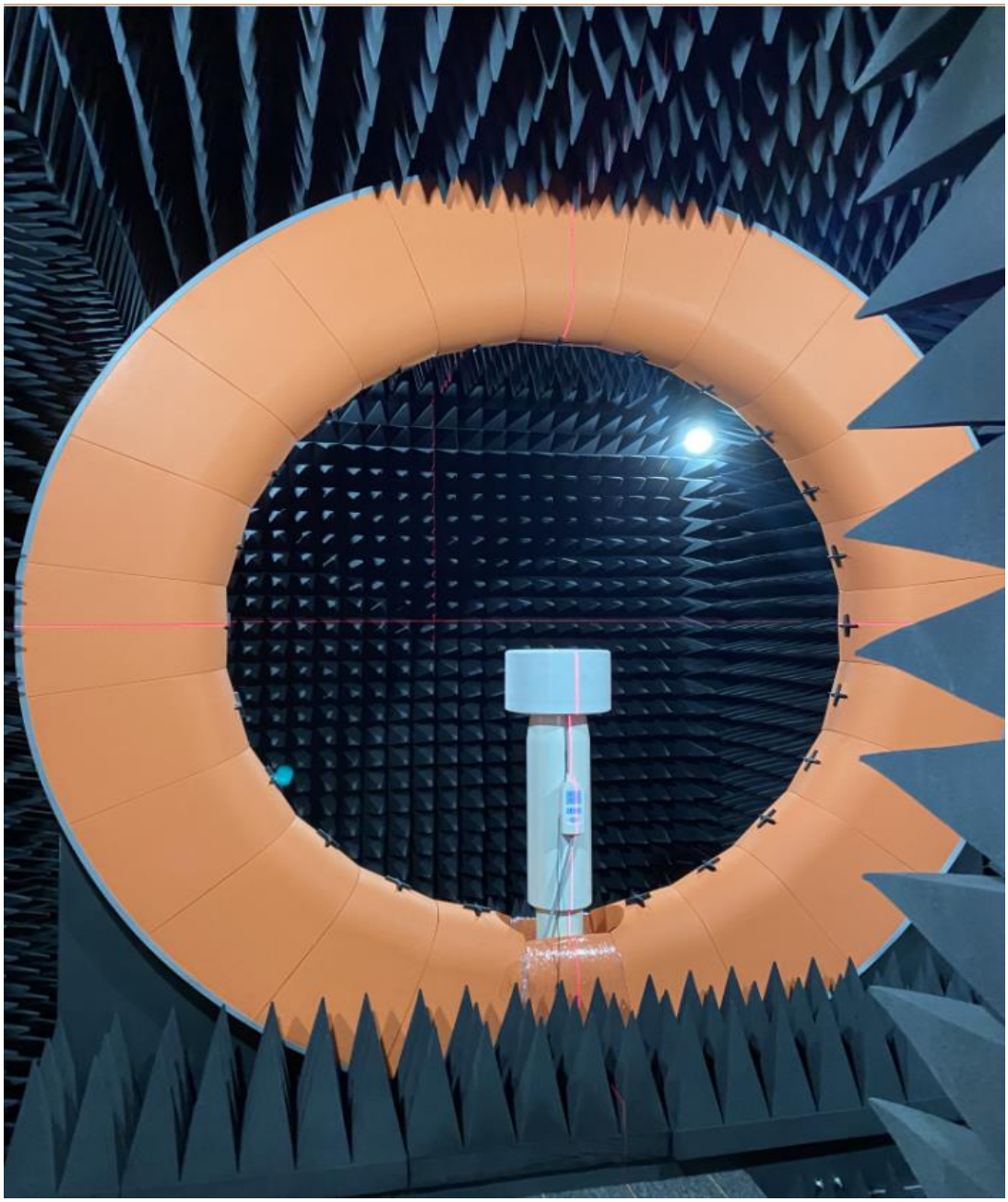
2.Test Equipment

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

Agilent 8960 （2G/3G Test Equipment）

CMW 500 （2G/3G/4GTest Equipment）

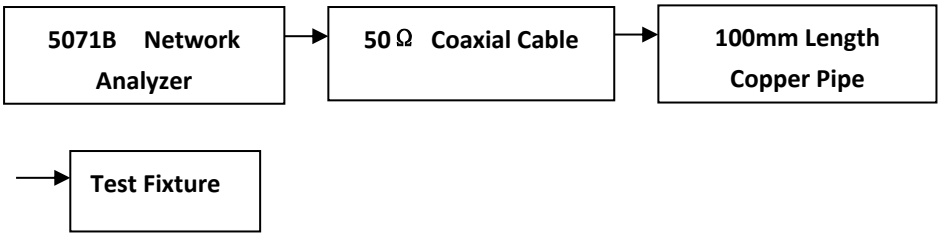
3. TestEnvironment



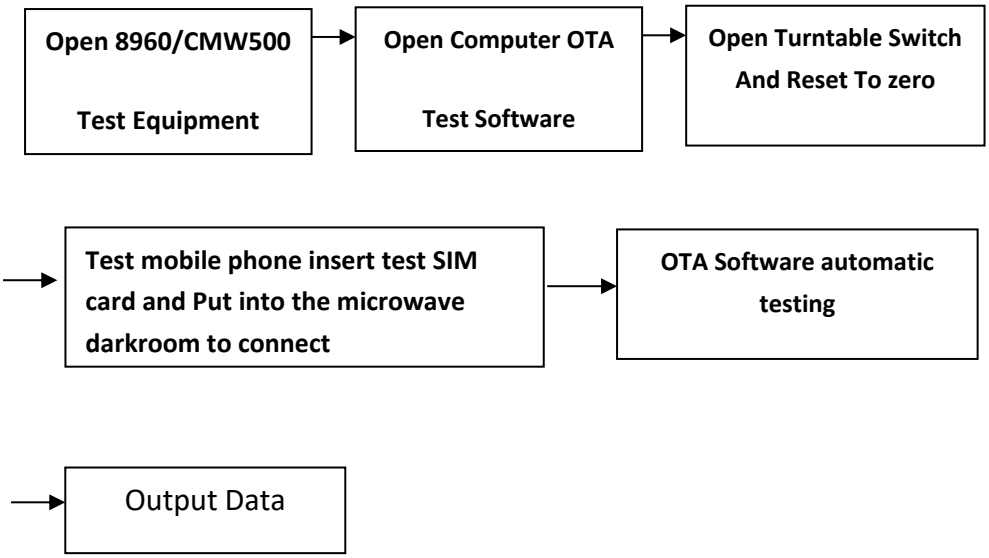
Microwave Anechoic Chamber

4.Test Steps

Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps：



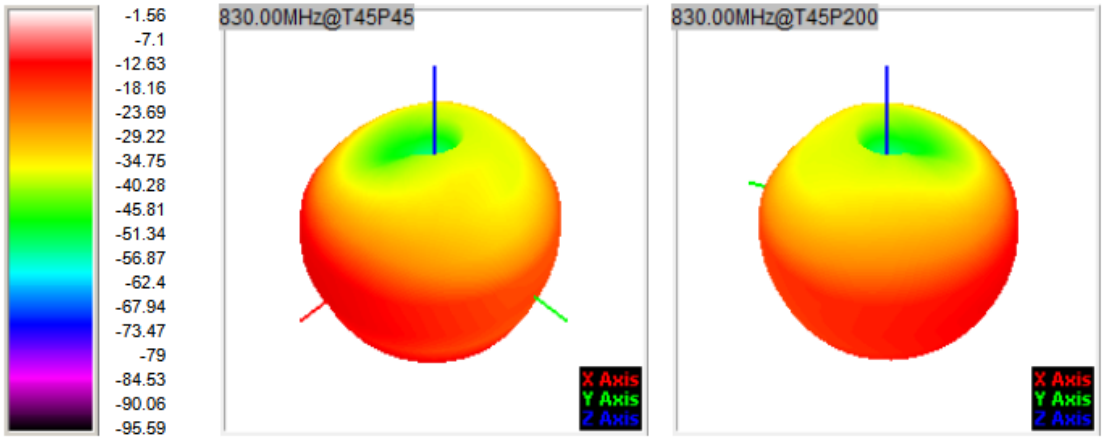
5.Antenna Gain

BAND	Peak Gain(dBi)
GSM	
850	-1.56
900	-1.32
1800	-0.85
1900	-1.20
WCDMA	
B1	-0.85
B2	-1.20
B4	-0.85
B5	-1.56
B8	-1.32
LTE	
B1	-0.85
B2	-1.20
B3	-0.85
B4	-0.85
B5	-1.56
B7	0.62
B8	-1.32
B12	-1.85
B13	-1.85
B17	-1.85
B18	-1.56
B19	-1.56
B20	-1.56
B25	-1.20

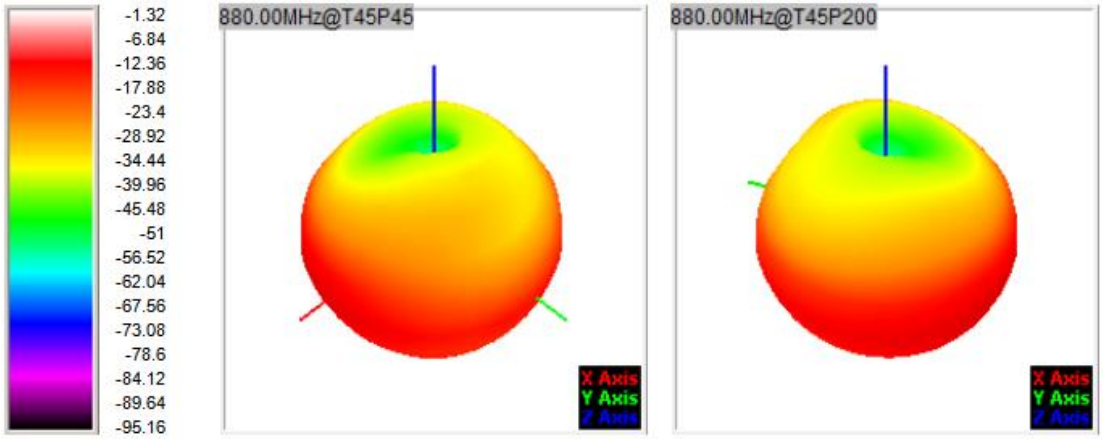
BAND	Peak Gain(dBi)
B26	-1.56
B28	-1.85
B66	-0.85
B34	-0.85
B38	0.62
B39	-1.20
B40	-1.26
B41	0.62
Bluetooth	1.45
WIFI-2.4G	1.45
WIFI-5G	-0.50

6.3D Lobe Diagram

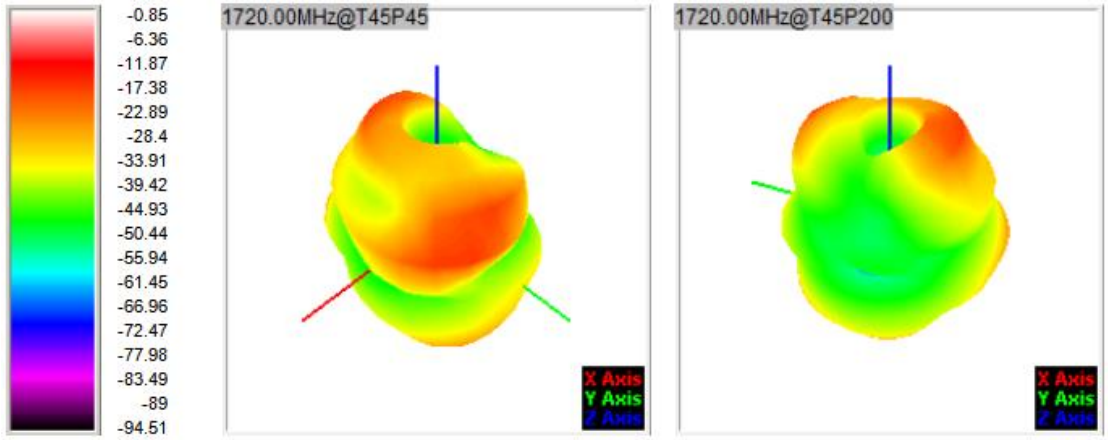
GSM850



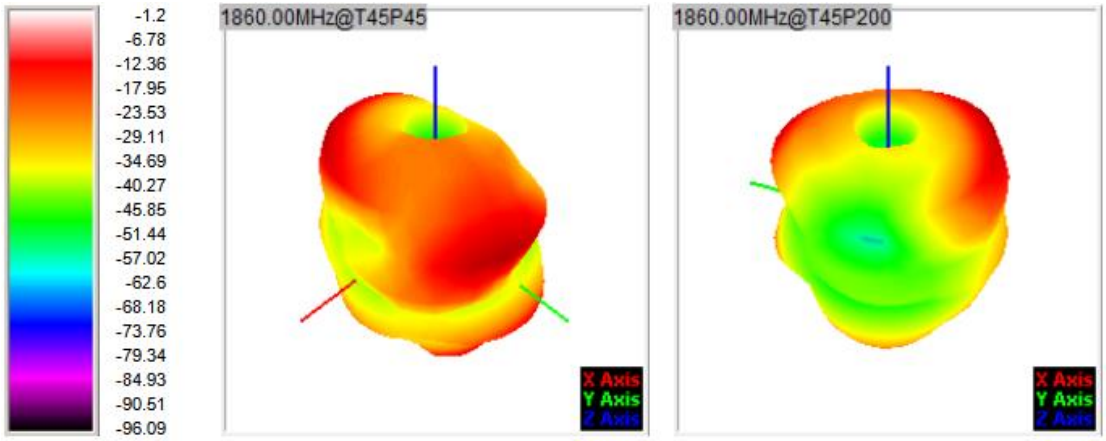
GSM900



DSC1800



PCS1900



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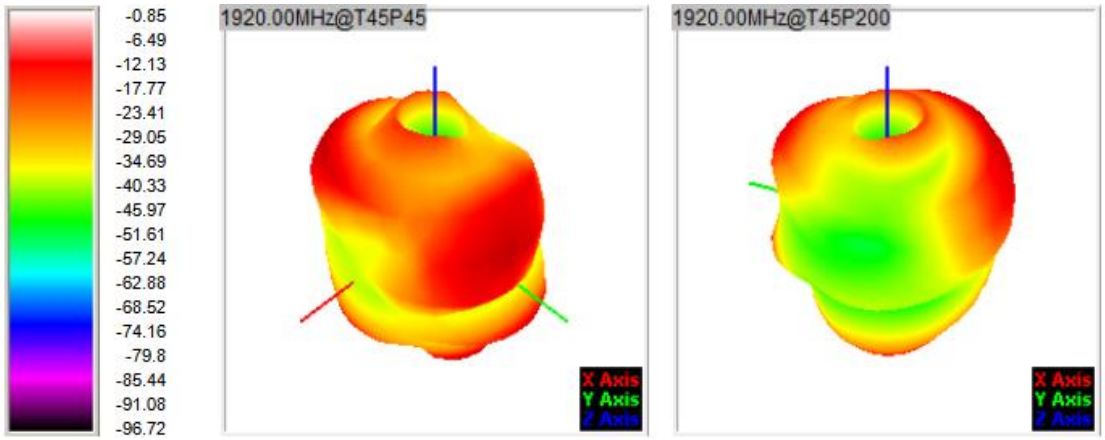

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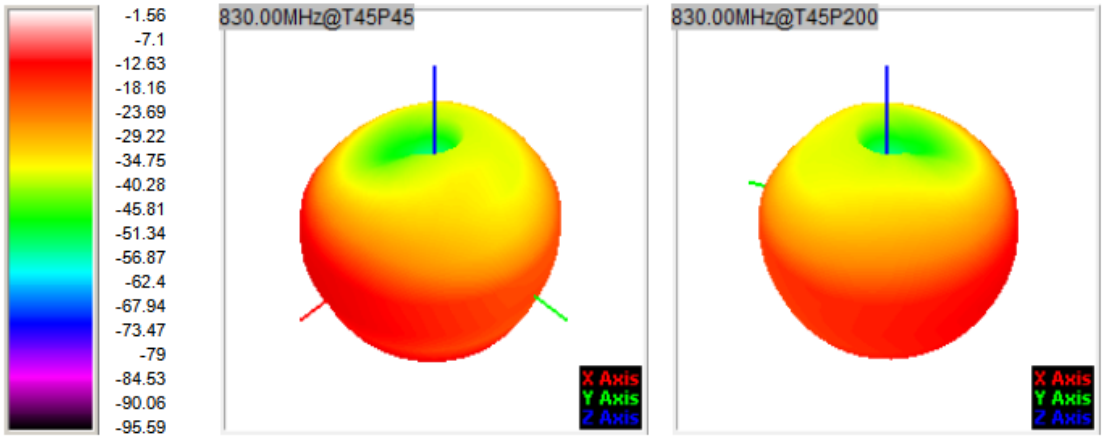

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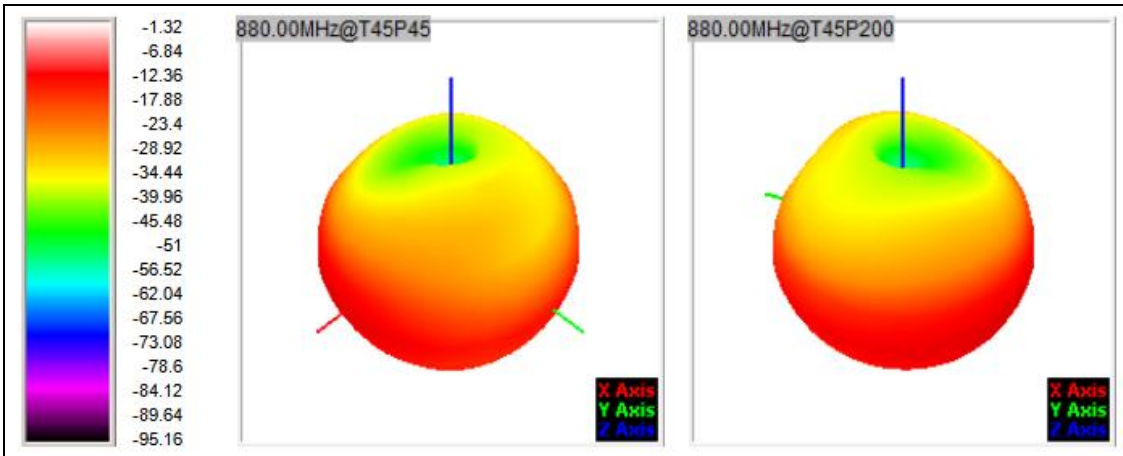
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-23.4
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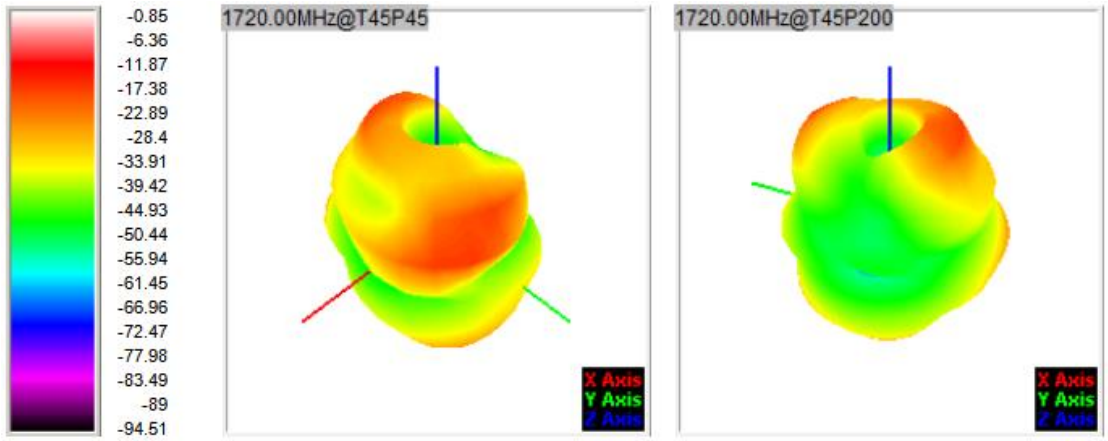
-45.48
-51
-56.52
-62.04
-67.56
-73.08
-78.6
-84.12
-89.64
-95.16
880.00MHz@T45P45
880.00MHz@T45P200
X Axis
Y Axis
Z Axis

W1700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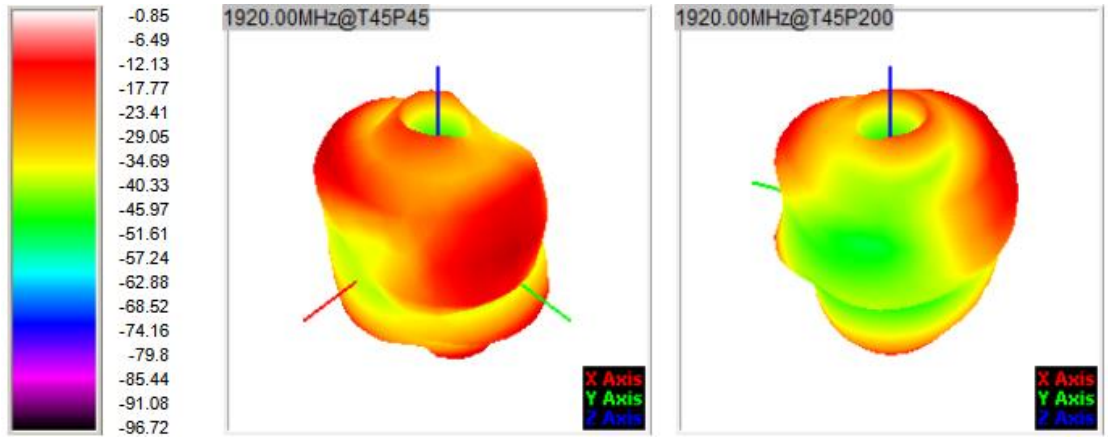
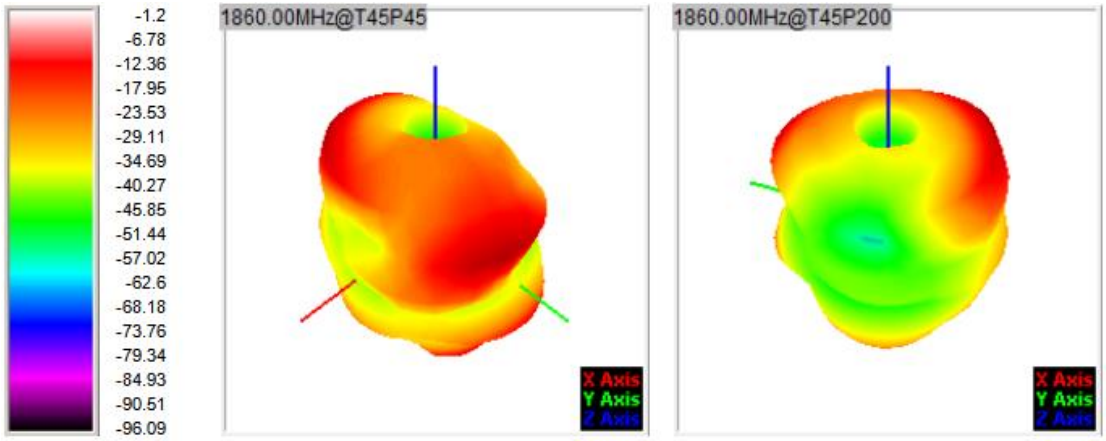
-39.42
-44.93
-50.44
-55.94
-61.45
-66.96
-72.47
-77.98
-83.49
-89
-94.51
1720.00MHz@T45P45
1720.00MHz@T45P200
X Axis
Y Axis
Z Axis

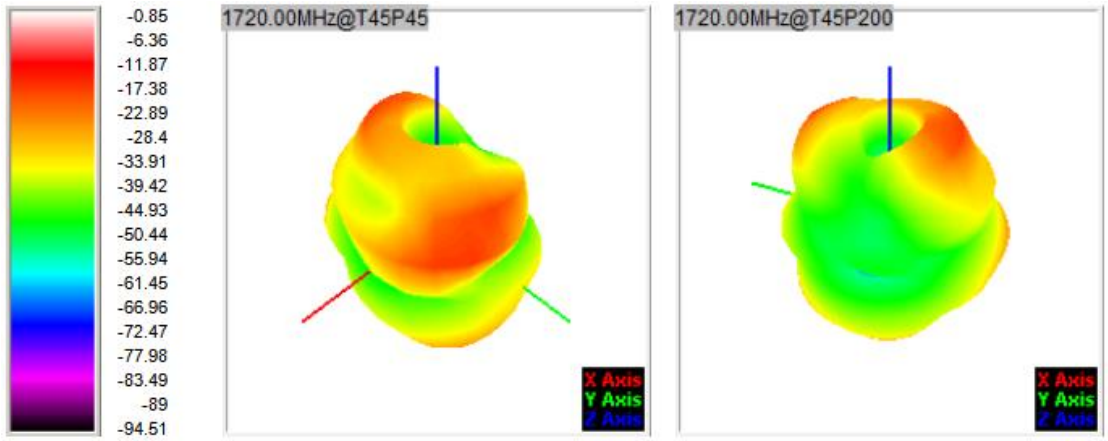
FDD-B1


-0.85
-6.49
-12.13
-17.77
-23.41
-29.05
-34.69
-40.33
-45.97
-51.61
-57.24
-62.88
-68.52
-74.16
-79.8
-85.44
-91.08
-96.72
1920.00MHz@T45P45
1920.00MHz@T45P200
X Axis
Y Axis
Z Axis

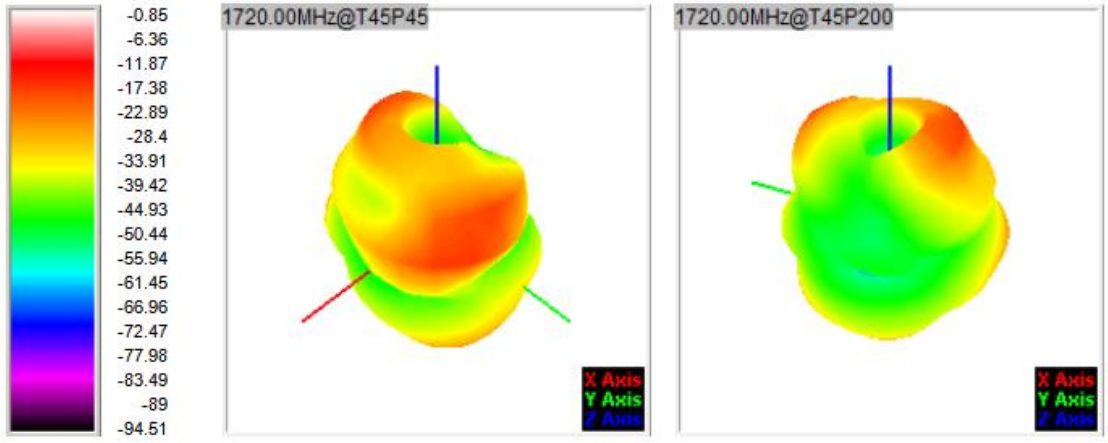
FDD-B2



FDD-B3



FDD-B4



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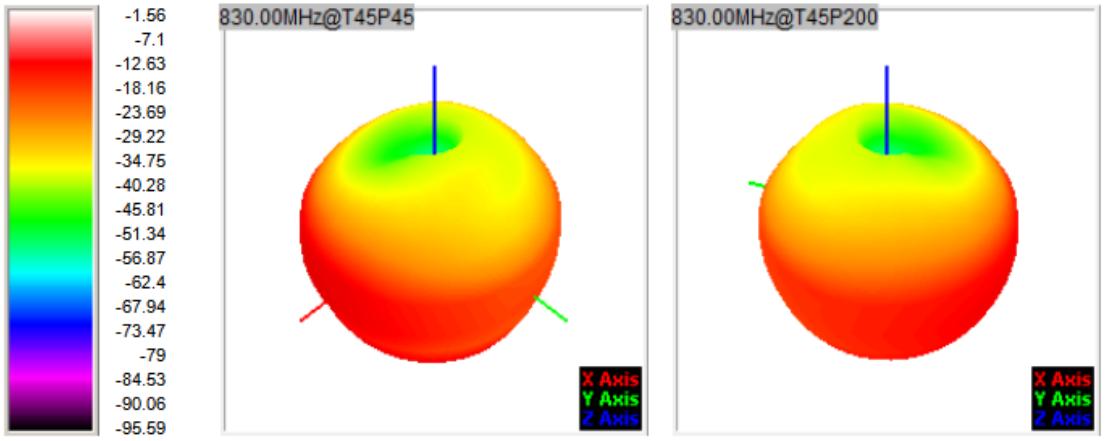

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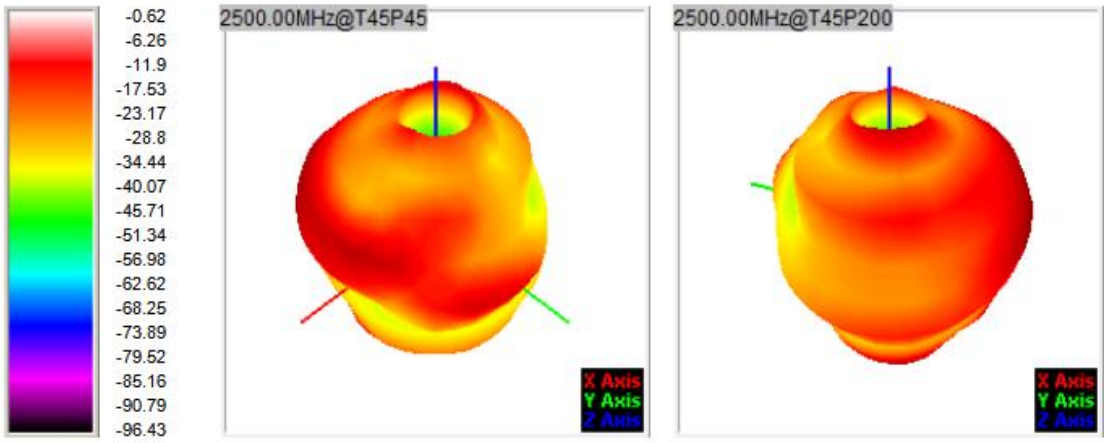

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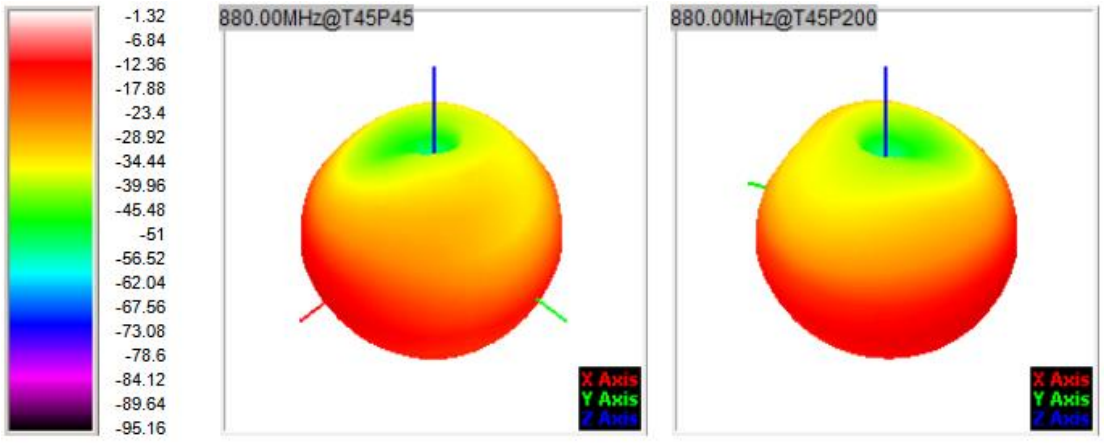

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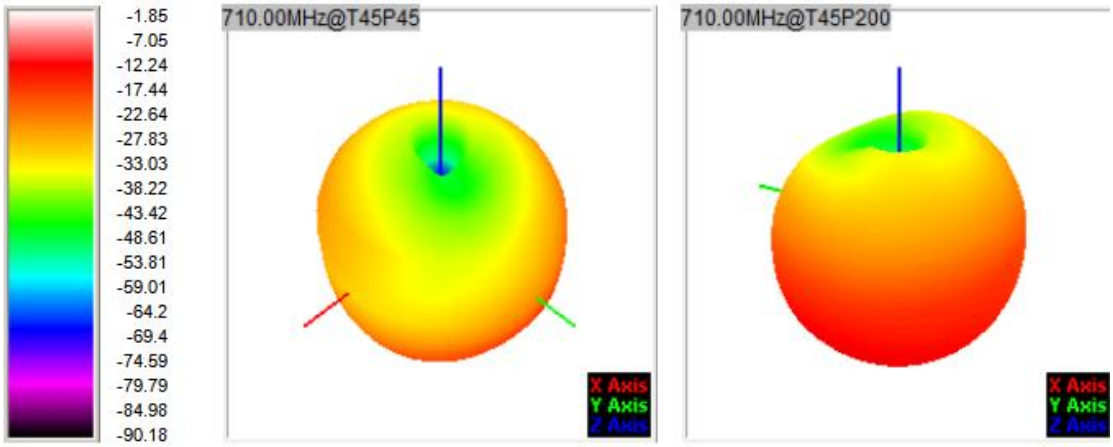

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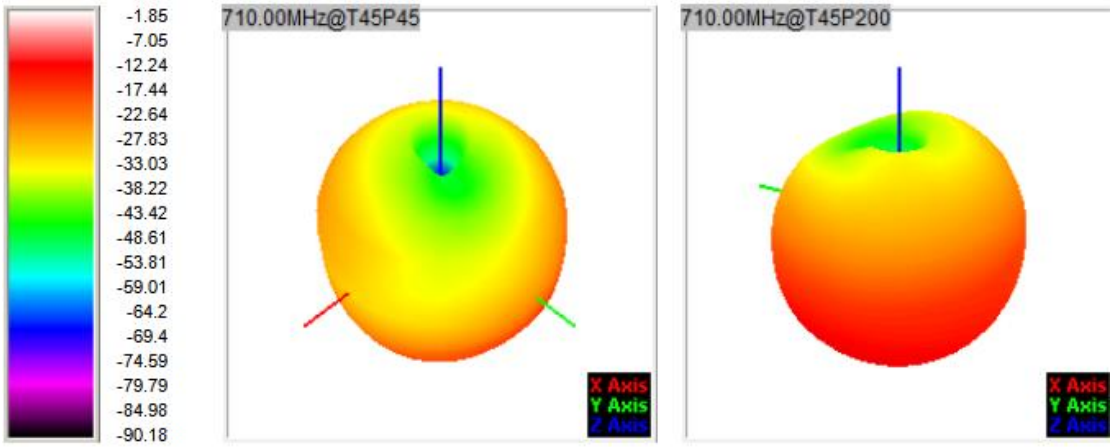

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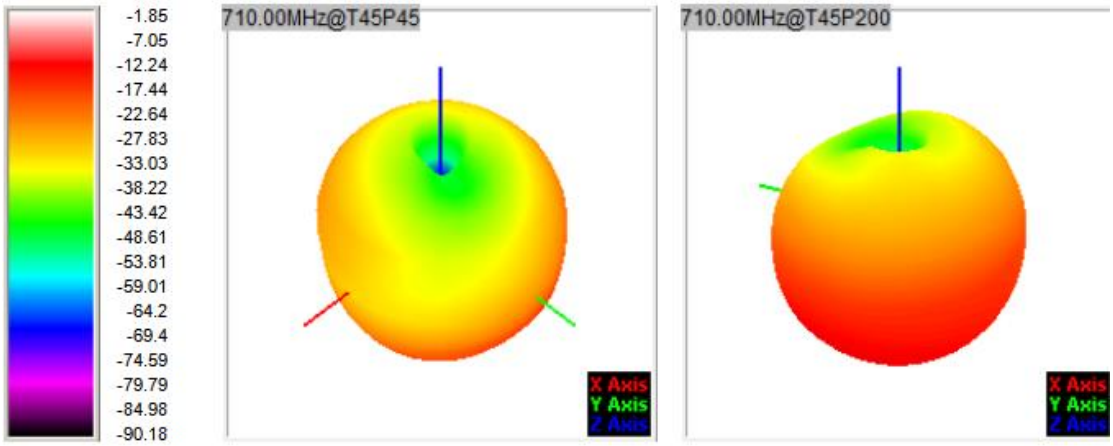

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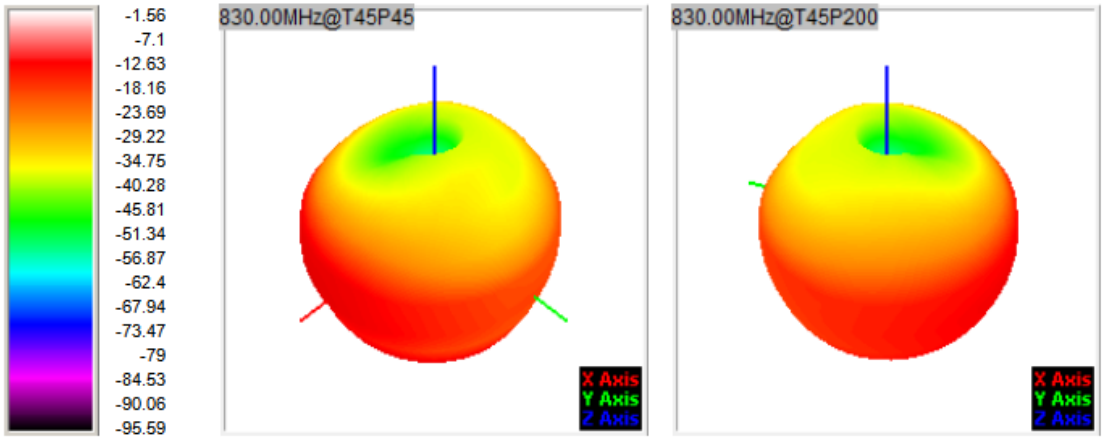

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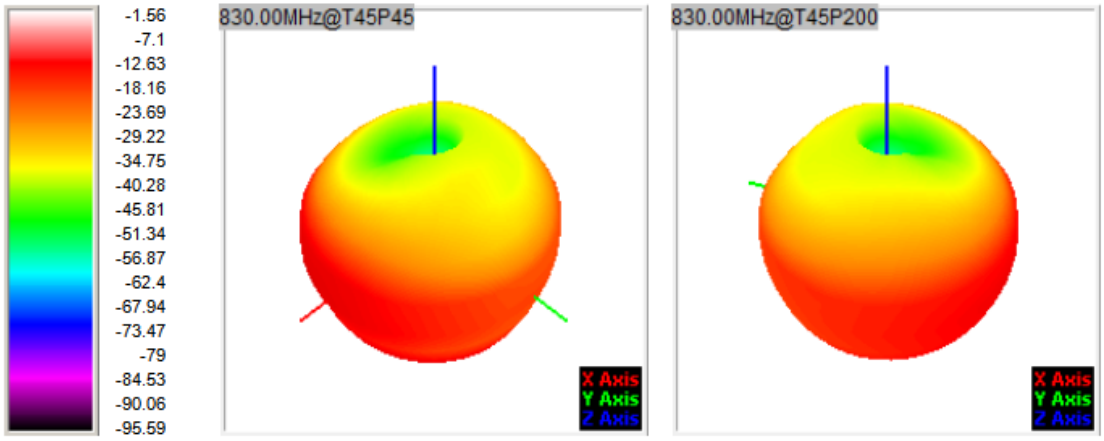

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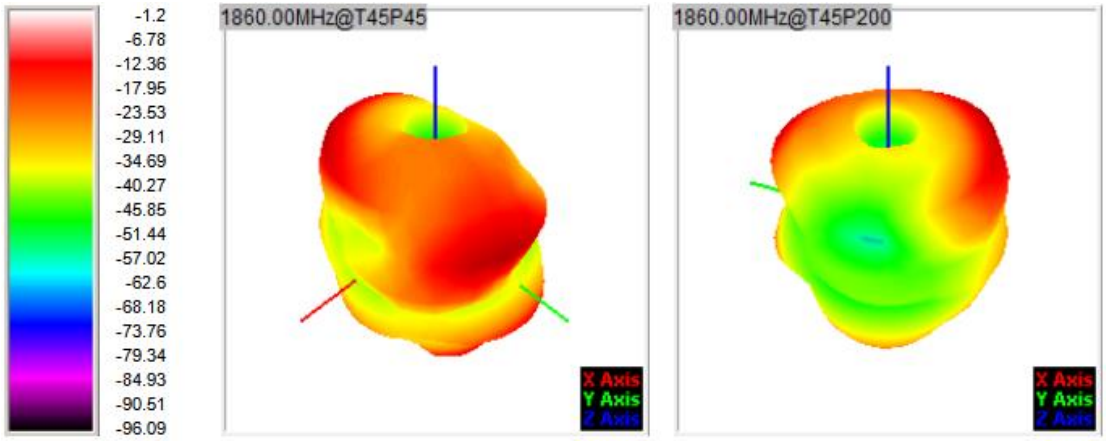

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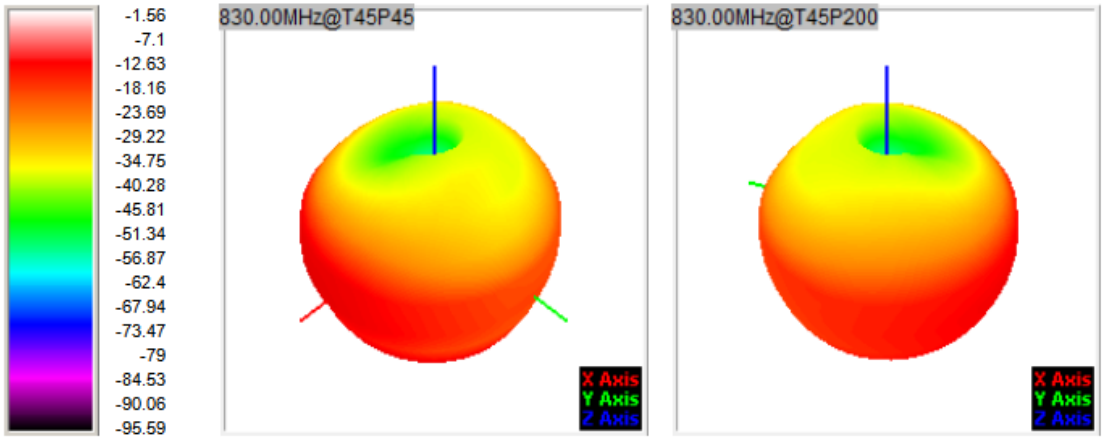

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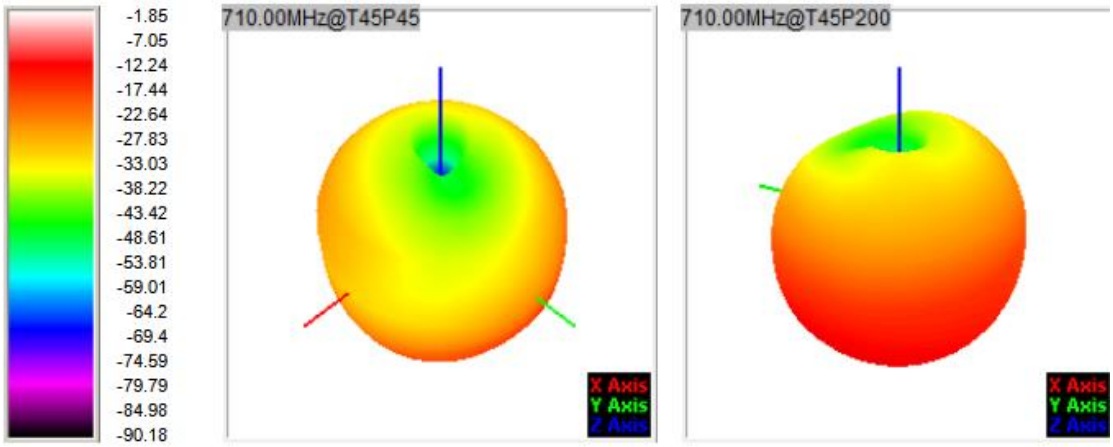

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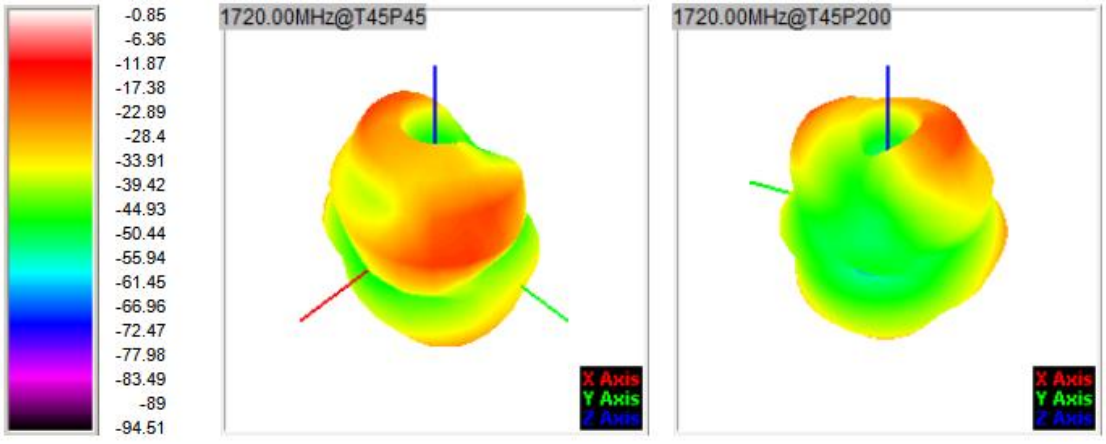

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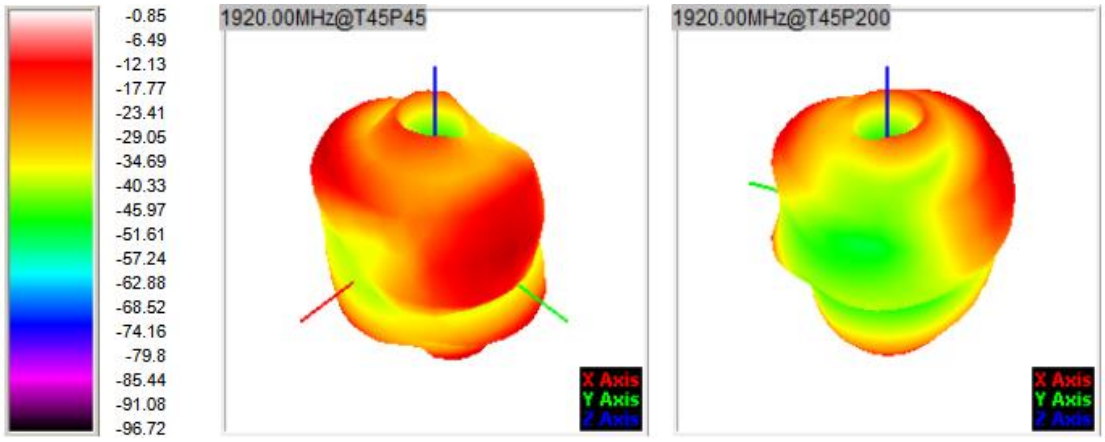

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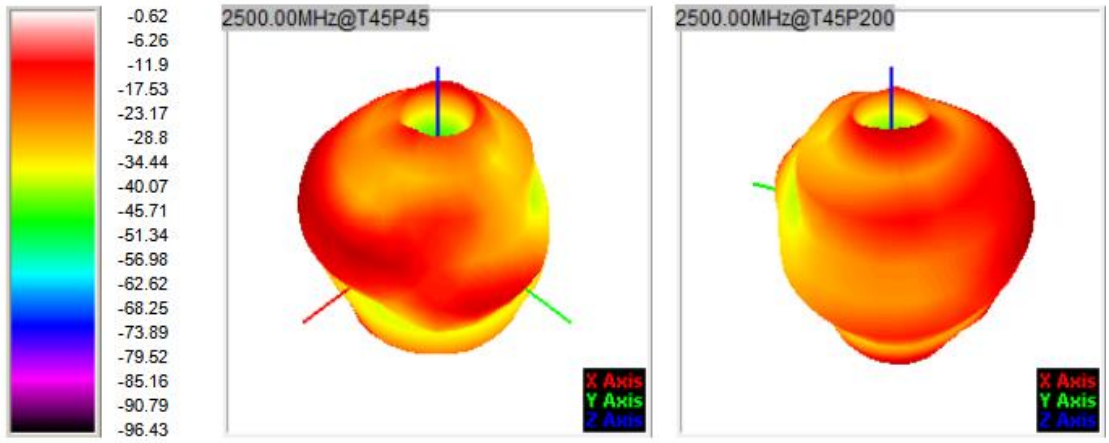

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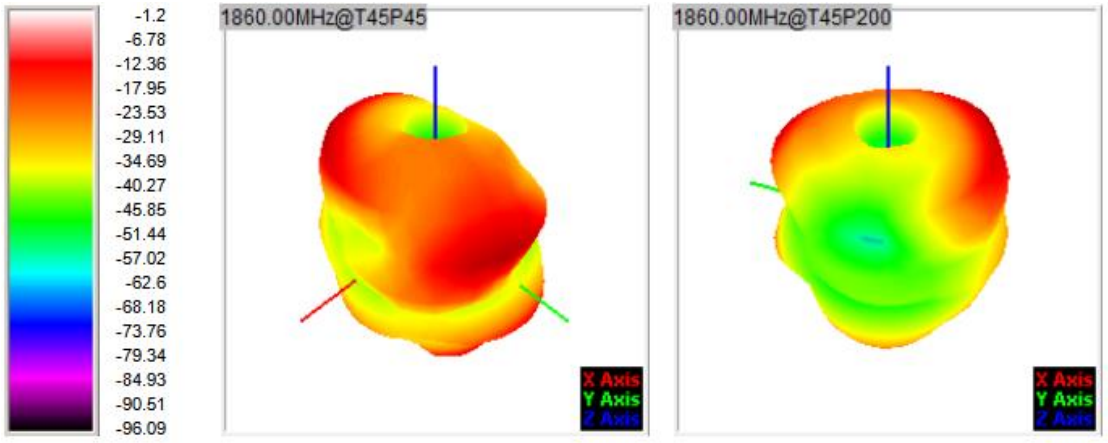

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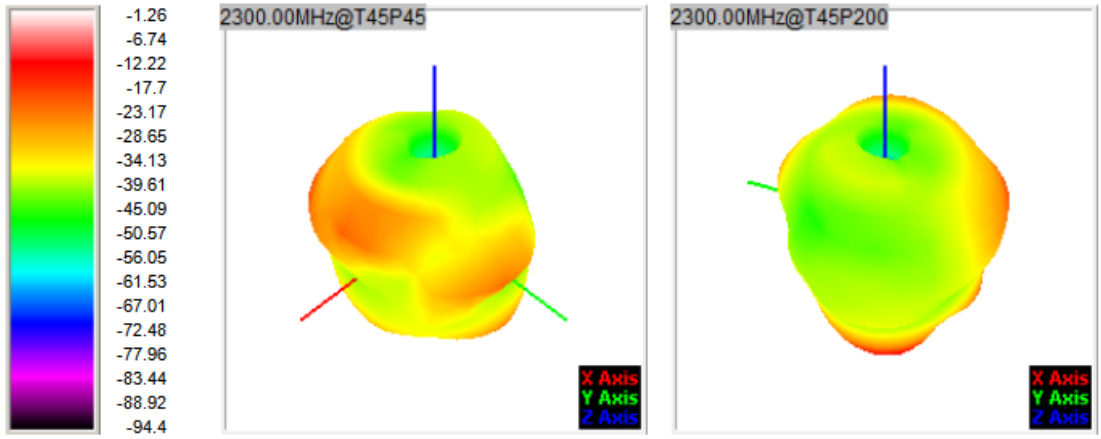

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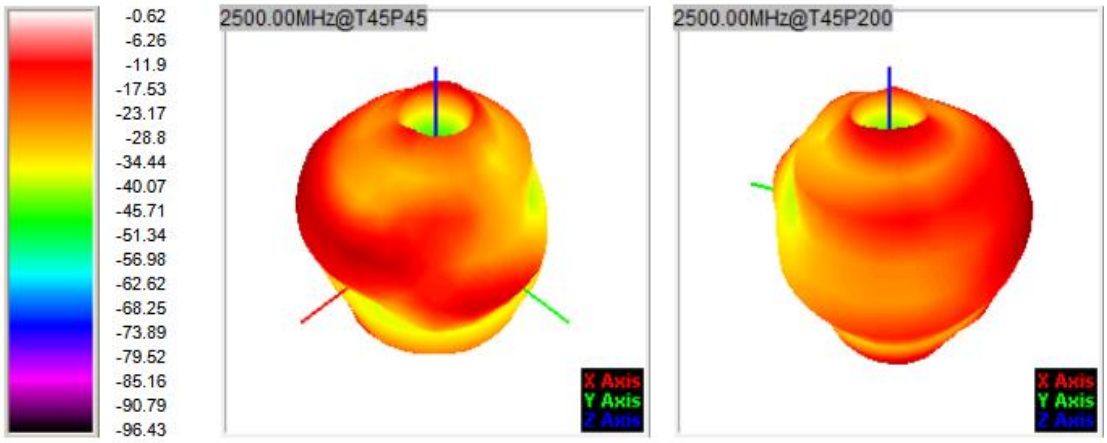

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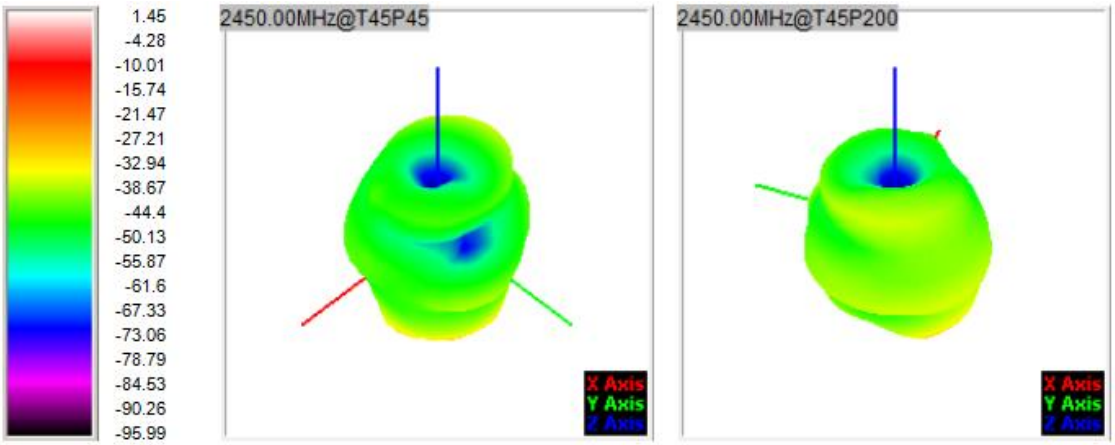

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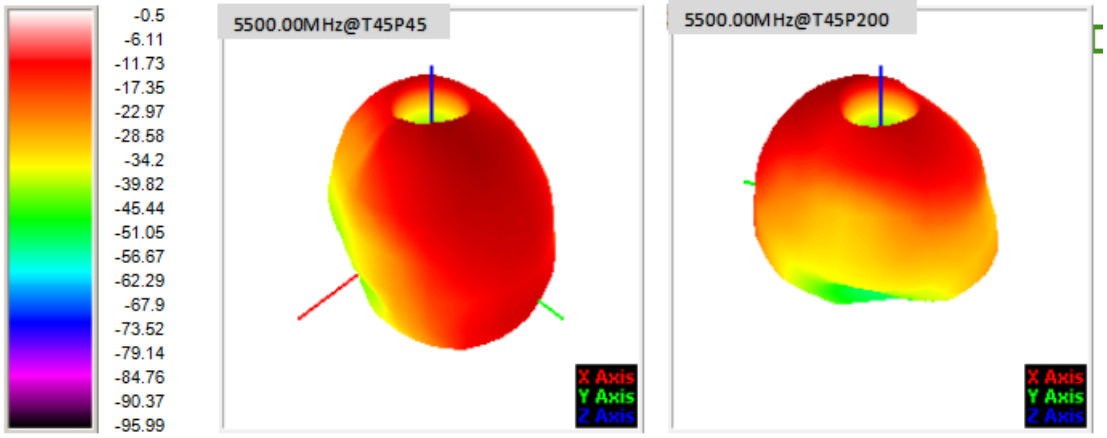
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-56.67
-62.29
-67.9
-73.52
-79.14
-84.76
-90.37
-95.99
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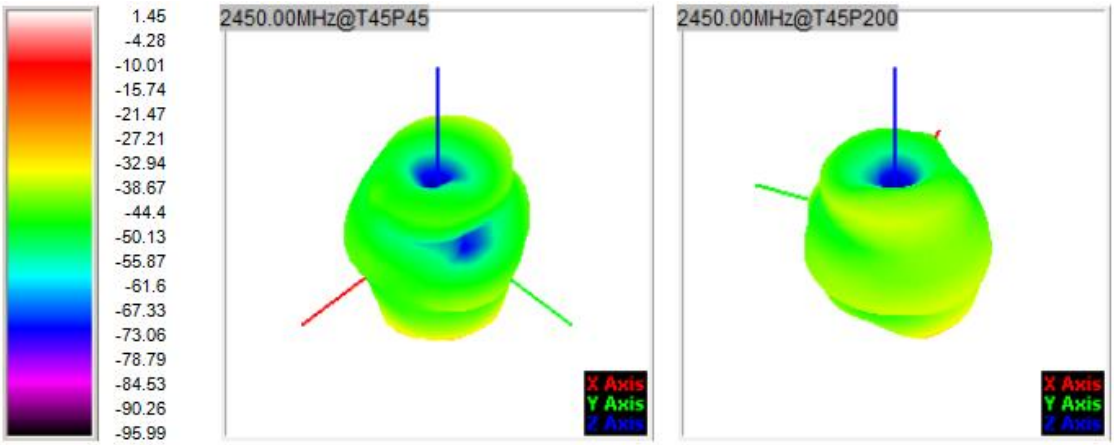
X Axis
Y Axis
Z Axis
5500.00MHz@T45P200
X Axis
Y Axis
Z Axis

BT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-61.6
-67.33
-73.06
-78.79
-84.53
-90.26
-95.99
2450.00MHz@T45P45
X Axis
Y Axis
Z Axis
2450.00MHz@T45P200
X Axis
Y Axis
Z Axis

7.Antenna drawing