

Project name:SA-7758

WIFI天線Test Report

RD Number: SA-7758

Create Date: 2023/06/19

Create By : Robin

Manufacture: Dexatek

Address:16F-1, No.81, Sec.1, Xintai 5th Rd.,
Xizhi Dist., New Taipei City 22101, Taiwan

History

Version	Description	Date	Prepare	Check
01	天線場型測試及Gain efficiency	2023/06/19	Robin	Matt

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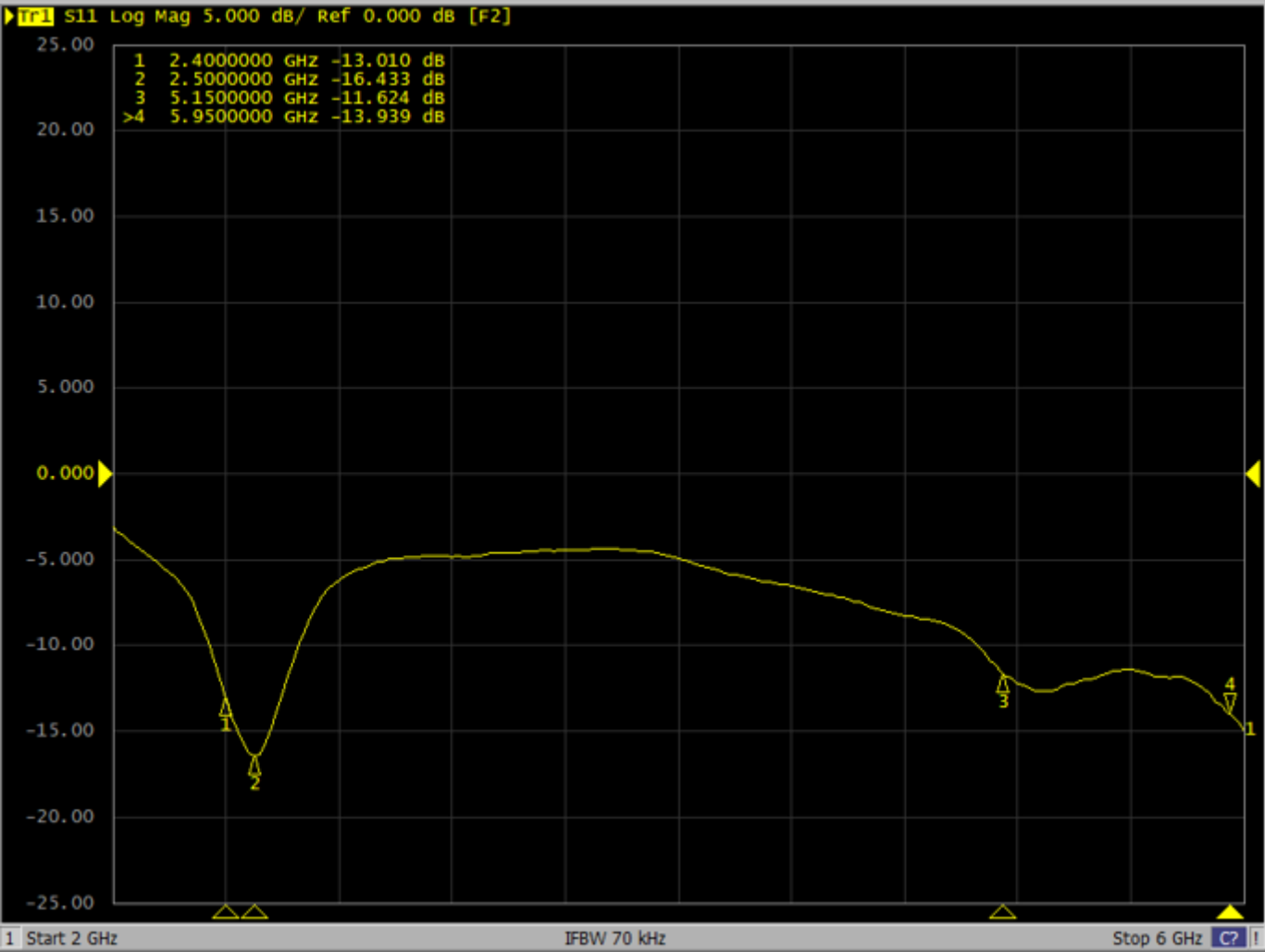
測試敘述(Test Description)

- 測試地點(Test Site) : JOYMAX R&D Dept. & JOYMAX Sub-6G Chamber
- 測試者 (Testers) : Robin Tseng
- 測試設備(Test Equipment) :
Agilent E5071B / ETS-3164 Dual Polarized Horn 8*6*6m
- 測試數量(Number of DUT) : 1
- 測試環境(Test Environment) :
 - 溫度 (Temperature) : 26 °C
 - 溼度(Humidity) : 40 %

測試條件(Test Condition)

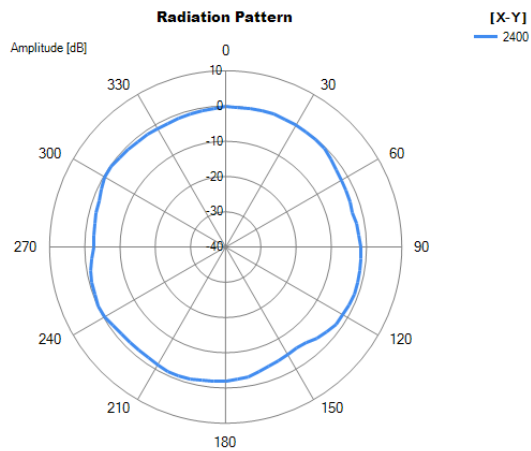
- 網路分析儀Return Loss & V.S.W.R.測試校正(VNA Return Loss & V.S.W.R. Test Calibration) : One port Type K Calibration
- 網路分析儀頻率範圍(VNA Frequency Range) : 2~6.5 GHz
- 網路分析儀頻率點數(VNA Number Points) : 201
- Chamber頻率範圍(Chamber Frequency Range) : 100MHz~6GHz
- Chamber頻率點數(Chamber Number Points) : 6
- Chamber 校正時間:2023/03/08

ANT S-Parameter

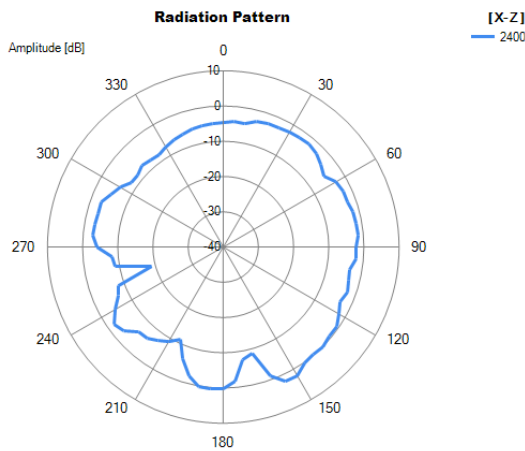


2D Radiation 2400MHz

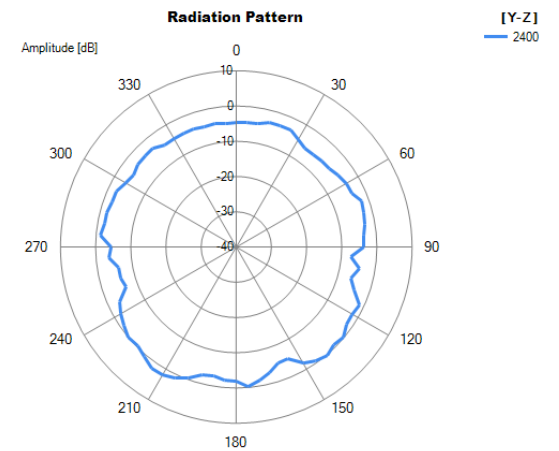
X-Y



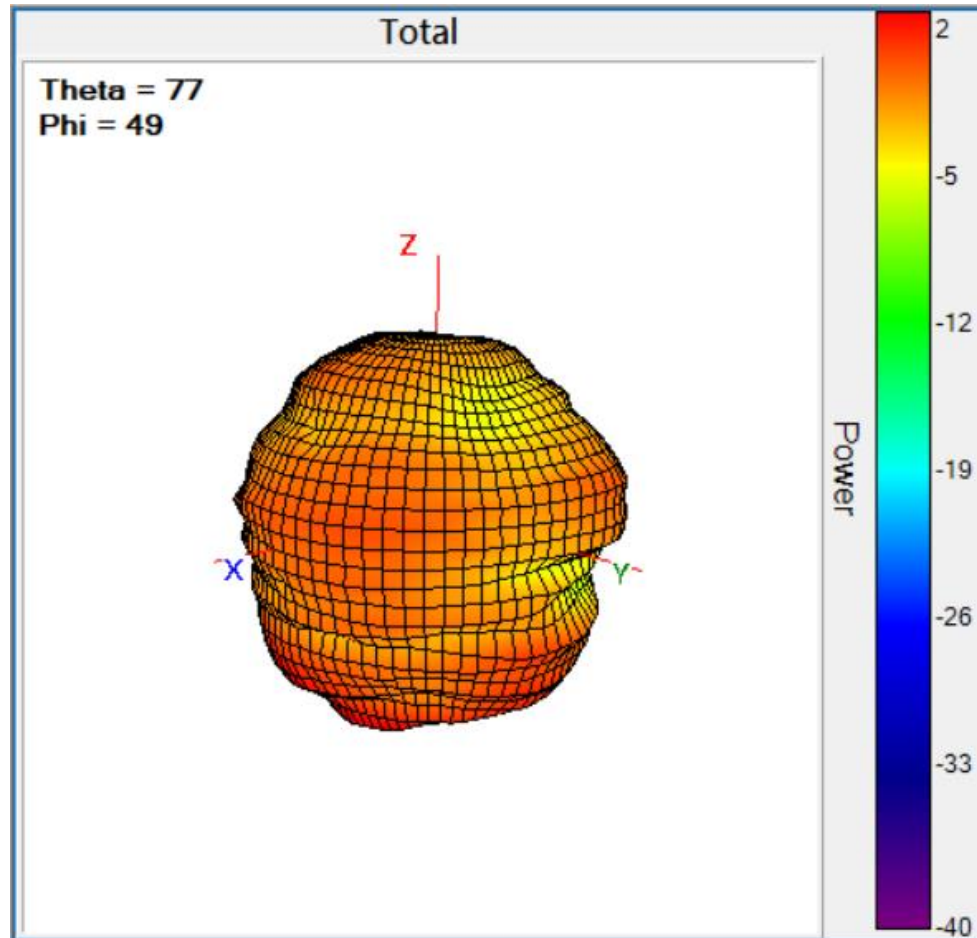
X-Z



Y-Z

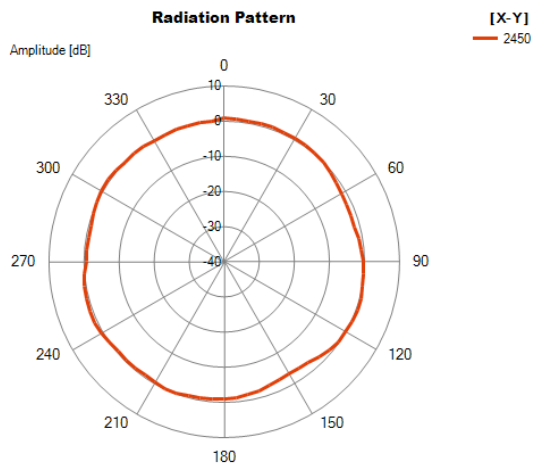


3D Radiation 2400MHz

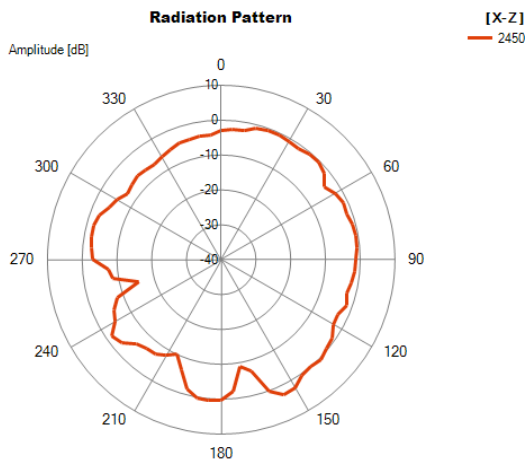


2D Radiation 2450MHz

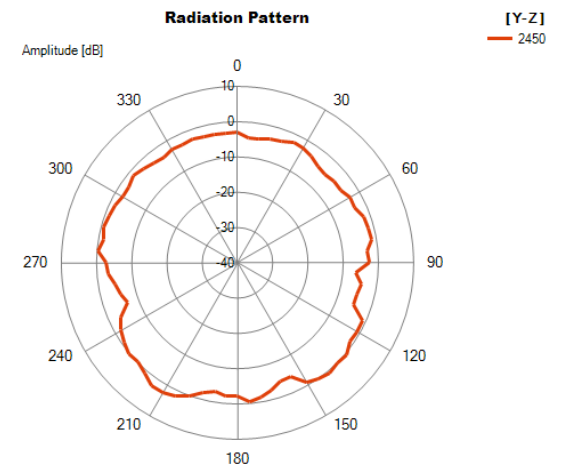
X-Y



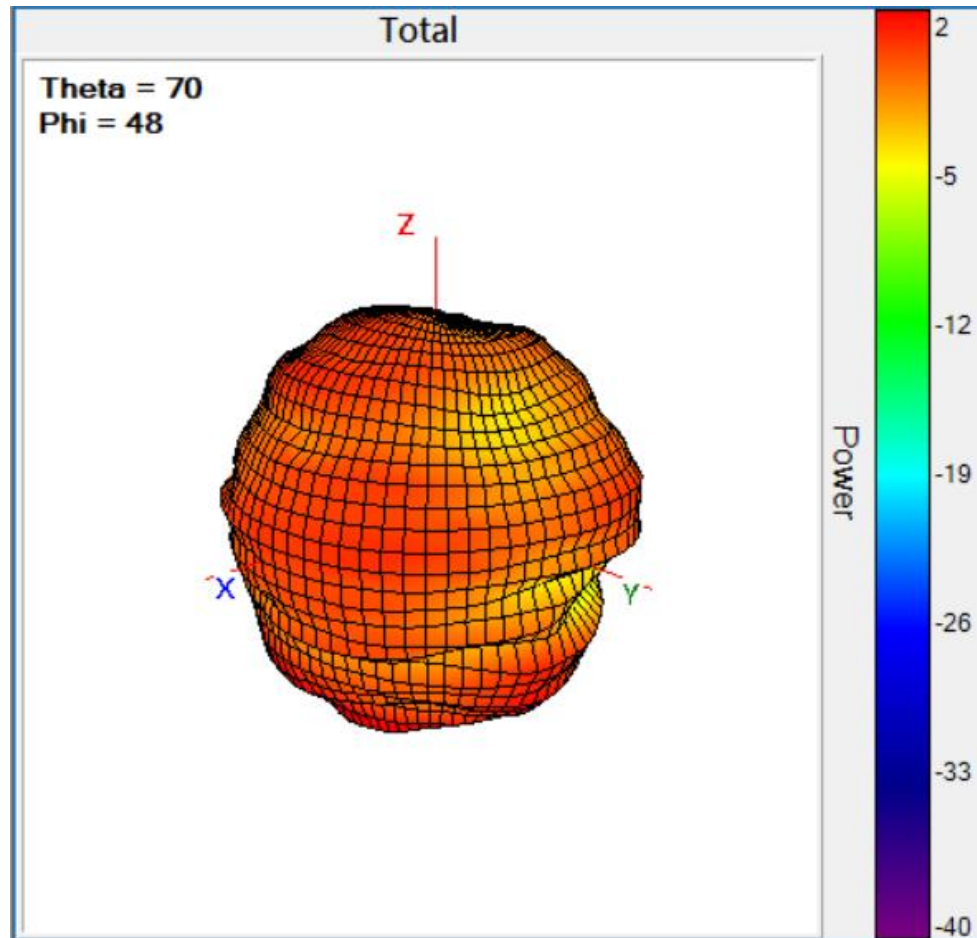
X-Z



Y-Z

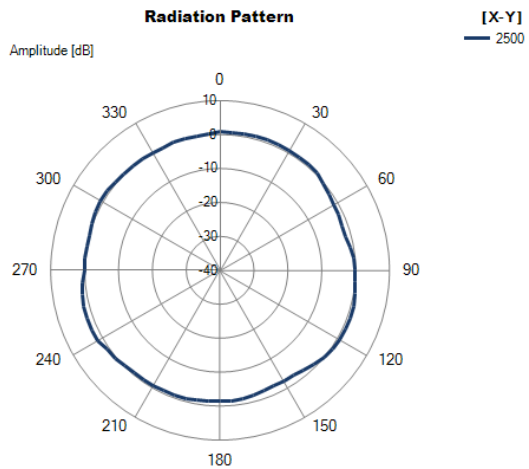


3D Radiation 2450MHz

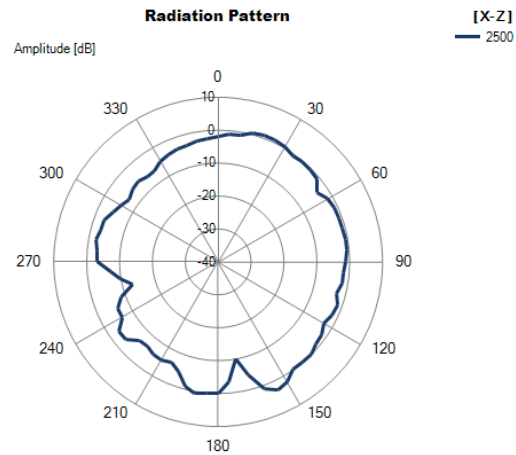


2D Radiation 2500MHz

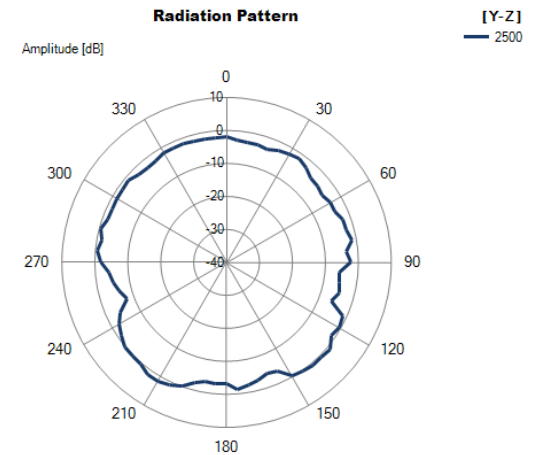
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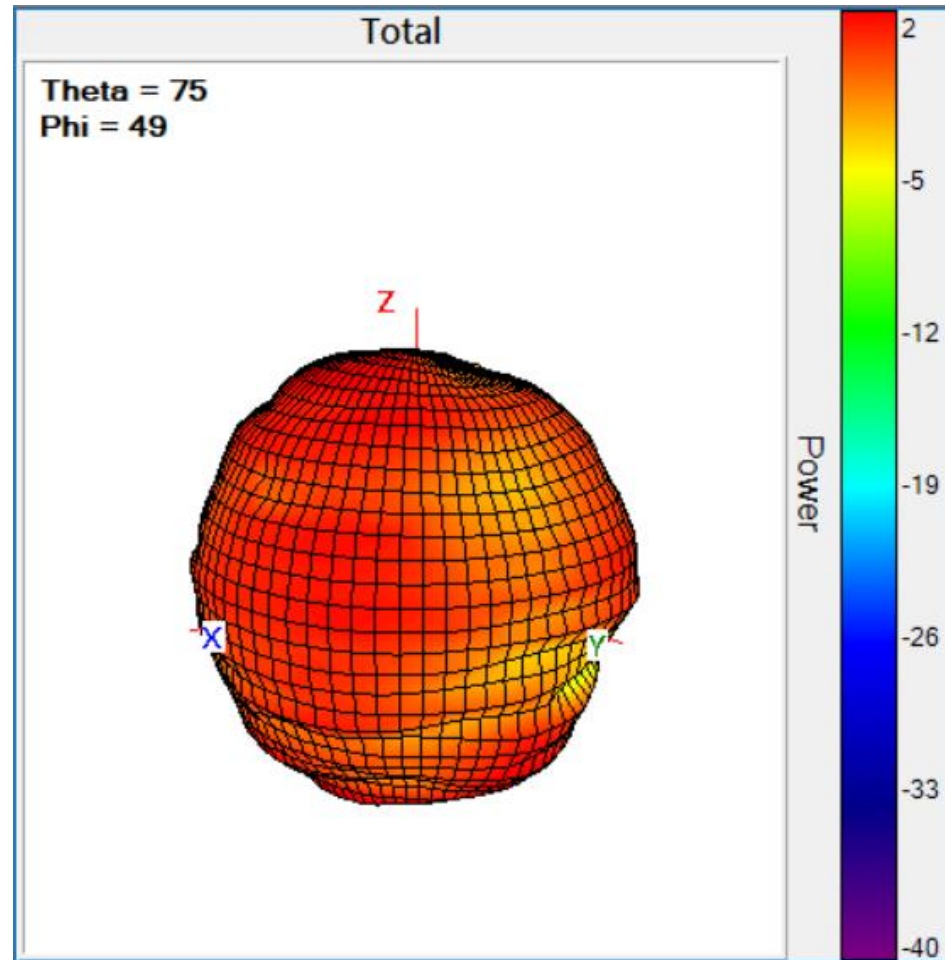
X-Z



Y-Z

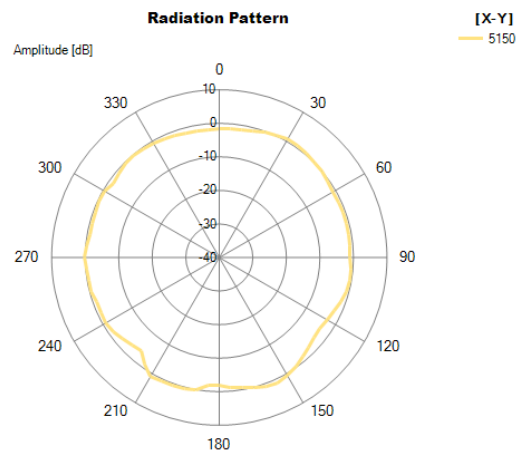


3D Radiation 2500MHz

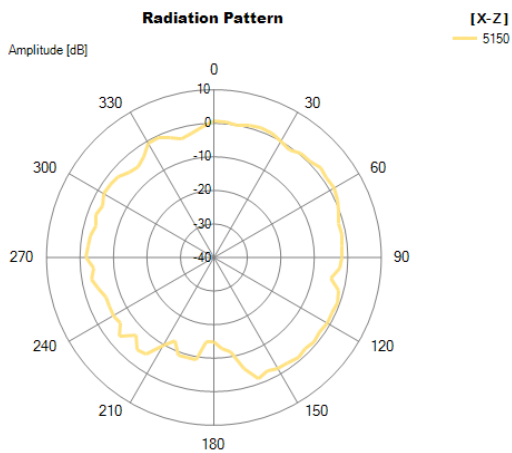


2D Radiation 5150MHz

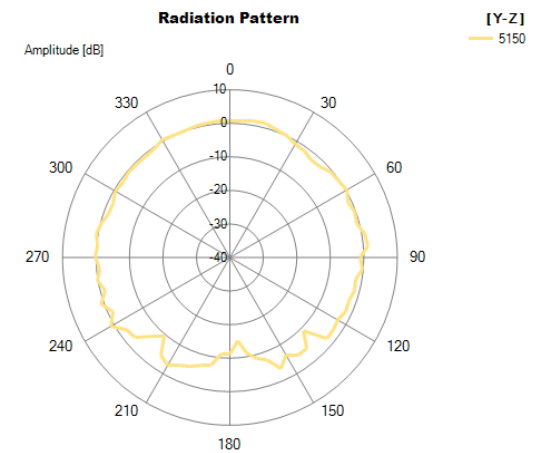
X-Y



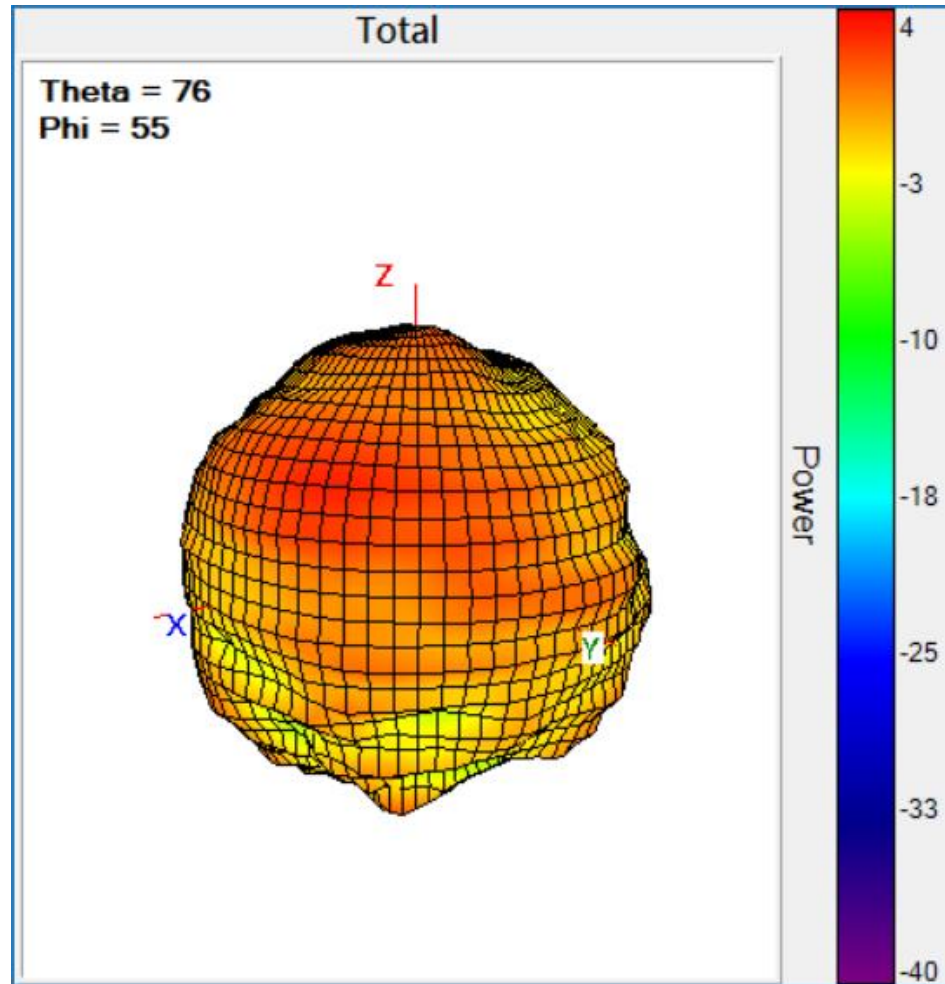
X-Z



Y-Z

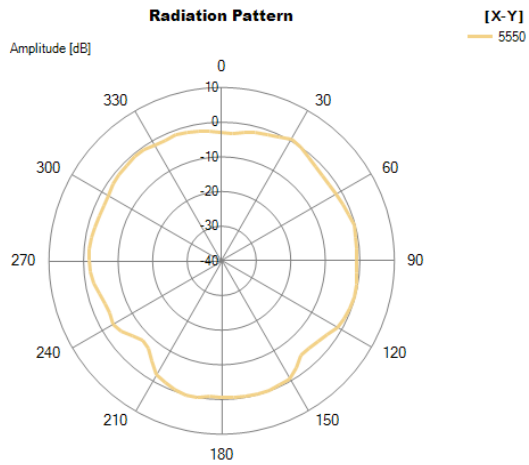


3D Radiation 5150MHz

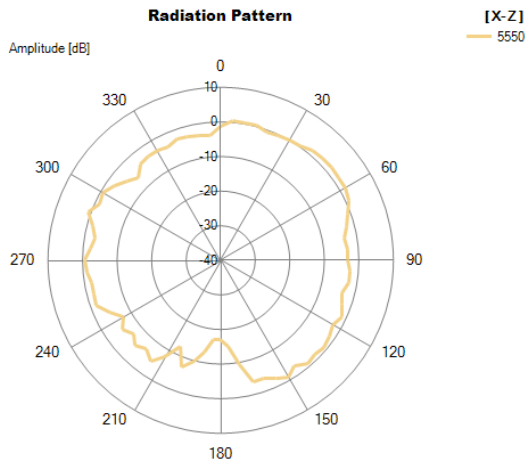


2D Radiation 5550MHz

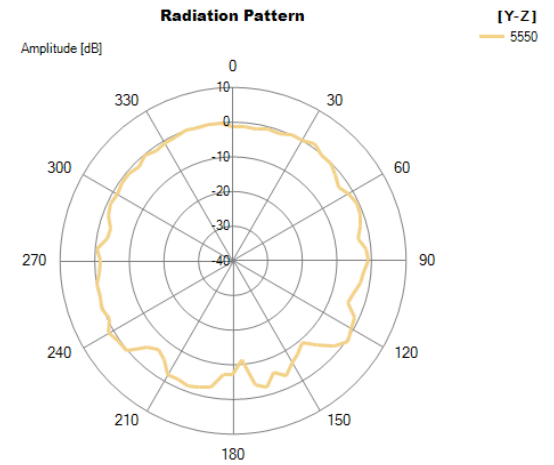
X-Y



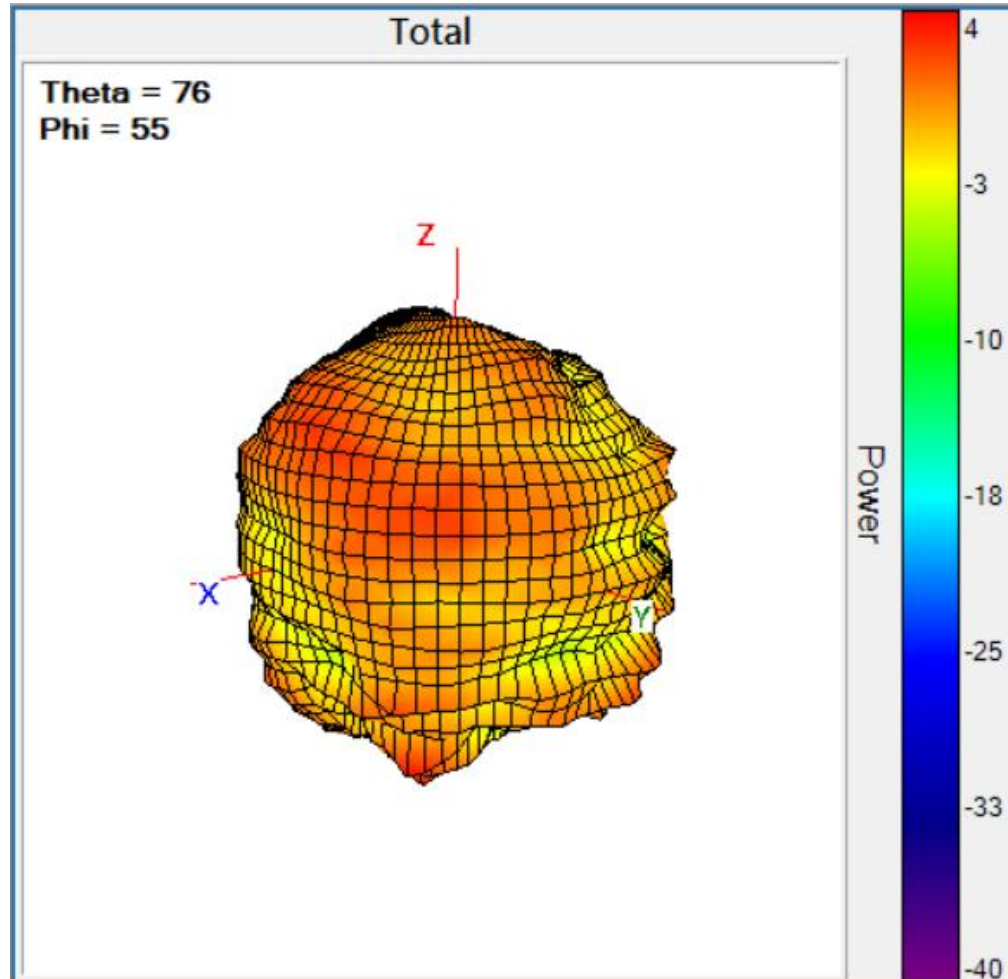
X-Z



Y-Z

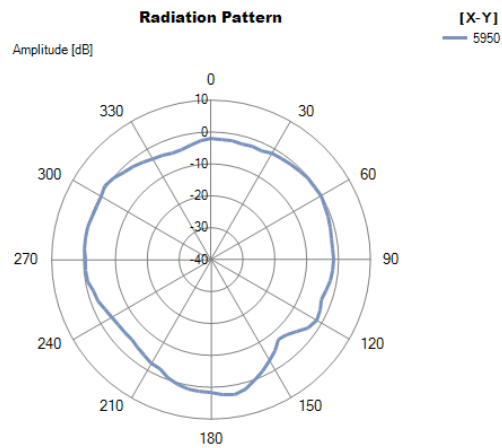


3D Radiation 5550MHz

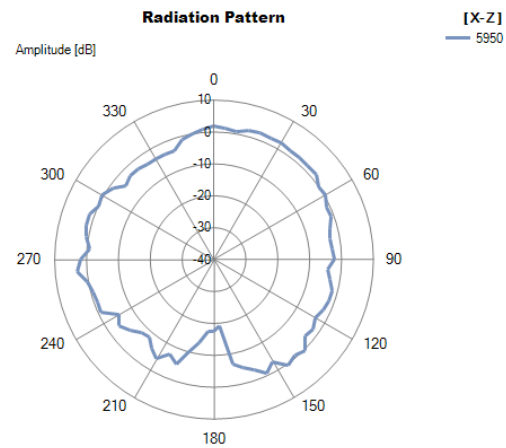


2D Radiation 5950MHz

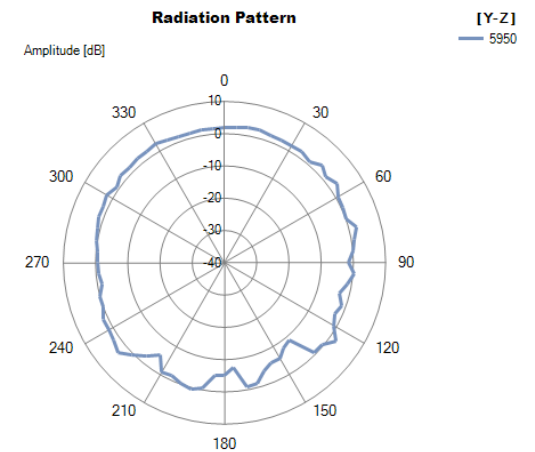
X-Y



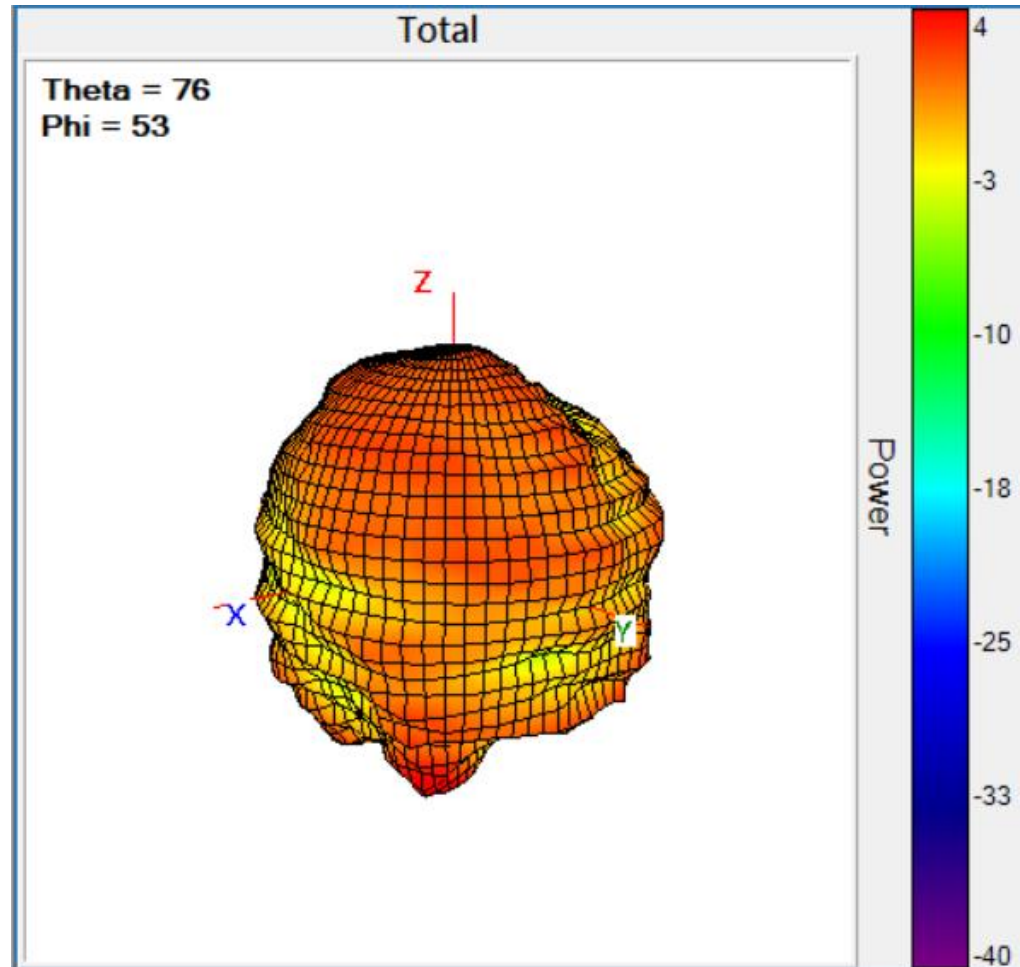
X-Z



Y-Z



3D Radiation 5950MHz



Gain & efficiency Table

Frequency(MHz)	2400	2450	2500
Gain(dBi)	2.52	2.55	2.58
Efficiency(%)	60.1	60.8	60.9

Frequency(MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950
Gain(dBi)	4.08	4.04	4.02	4.08	4.09	4.02	4.06	4.07	4.04
Efficiency(%)	66.45	66.18	65.88	65.13	65.21	64.73	64.4	65.16	65.44



THANK YOU.