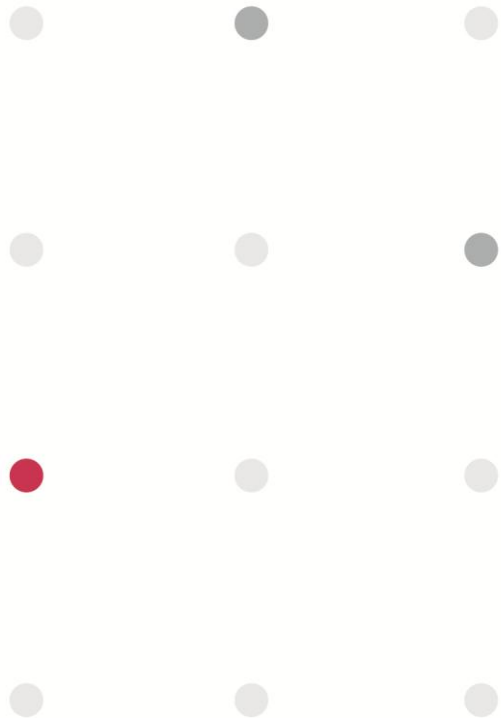


PSA

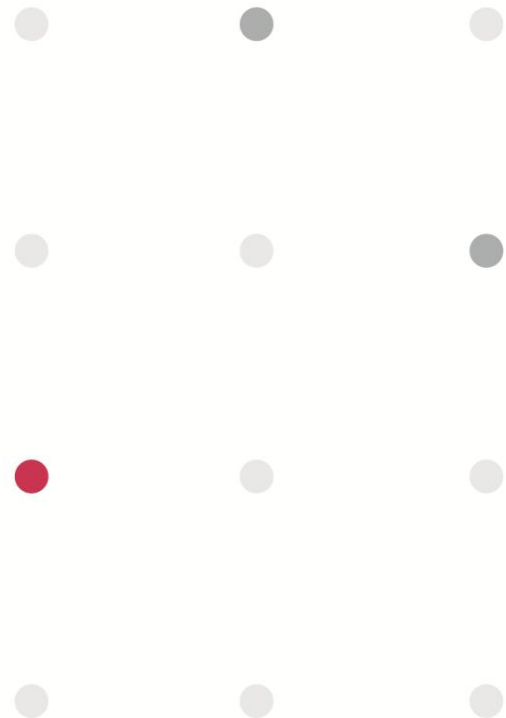
佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



瑞軒_2.4G Golden for Module test

Presented by

Calvin

2025/ 12/ 01

Version	Date	Description	Author
V01	2025/07/07	New Release	Calvin
V02	2025/07/07	增加反射板提高2G peak gain	Calvin
V03	2025/12/01	新增FCC認證資料	Calvin

OUTLINE

1. Measurement Information

1.1 Experimental Setup

1.2 Antenna Solution Detail

2. Antenna Characteristics

2.1 S-Parameter

2.2 Antenna Efficiency and Peak Gain

2.3 3 views of antenna & 2D Radiation Patterns

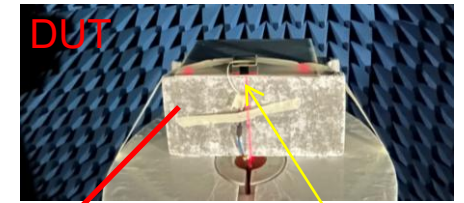
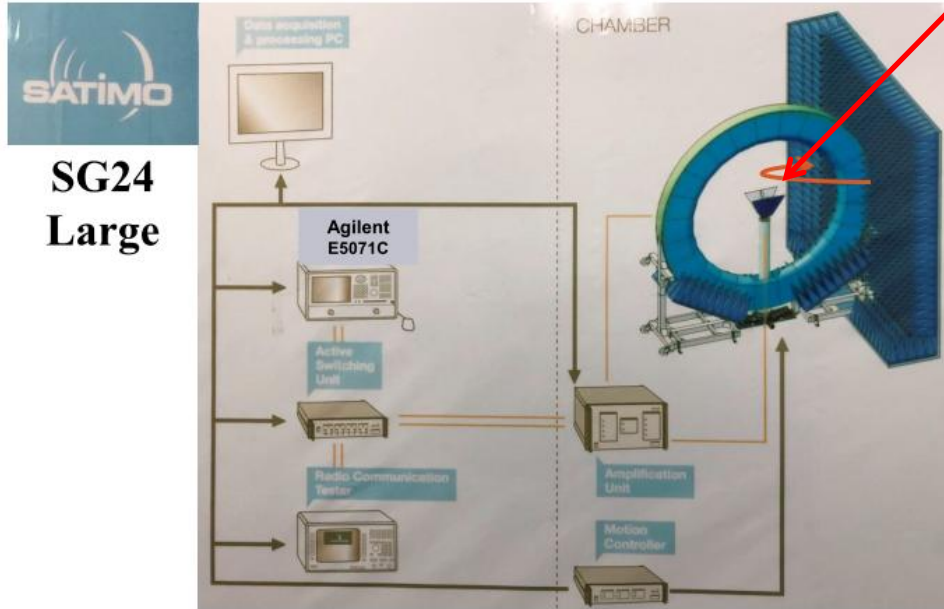
3. Summary & Antenna Information

1. Measurement Information

1.1 Experimental Setup

Test Equipment

- Network Analyzer : Rohde&schwarz ZNB20
- 3D Antenna Chamber : SATIMO SG24 (Large)



Antenna position

1. Measurement Information

1.1 Experimental Setup

Operating instructions:

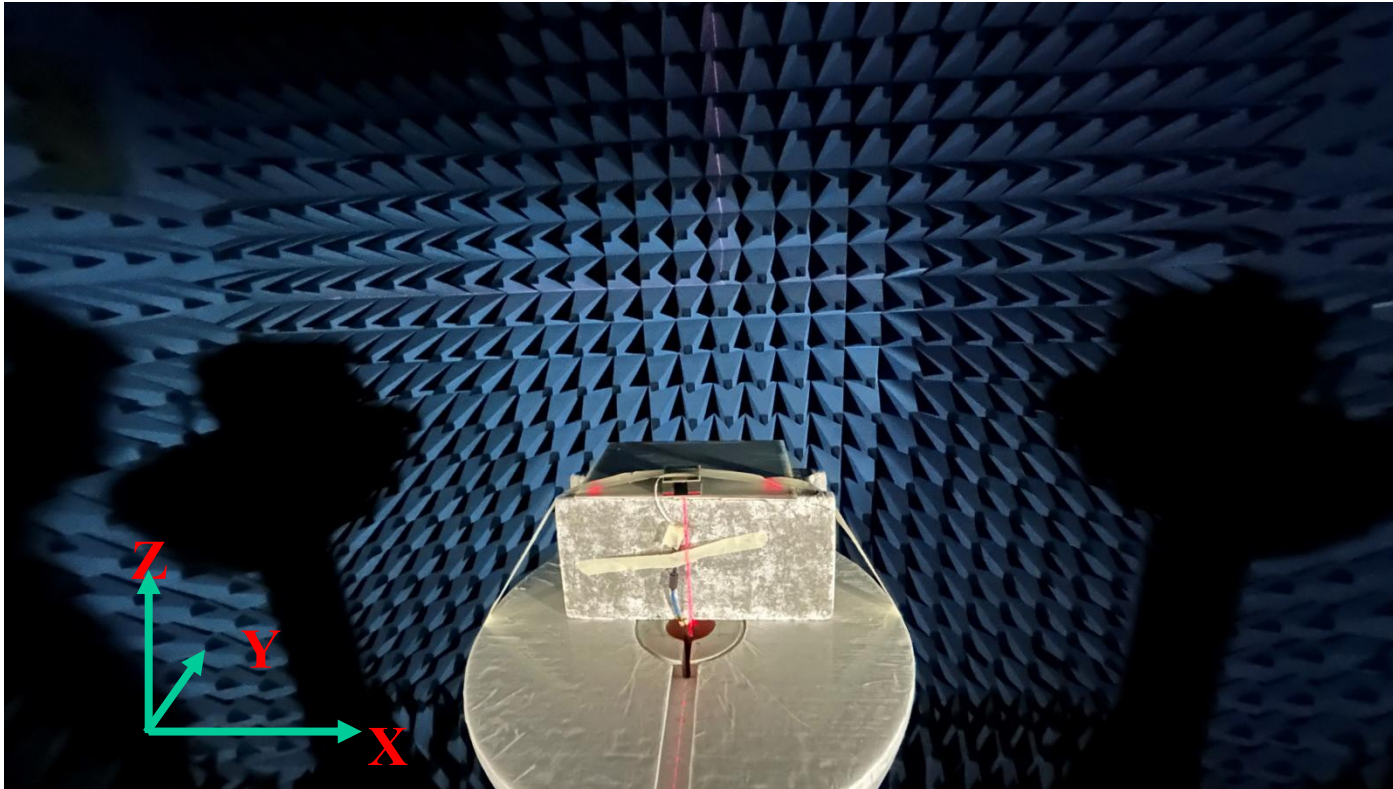
- 1.Place the DUT at the center of the turntable,
- 2.Connecting the test cable to the DUT, and use the SPM software for passive measurement.
- 3.During the measured process, SATIMO SG24 will conduct radiation testing with the DUT through 23 probes by a vertical 360- degree; then the turntable will rotate a horizontal 180- degree.
4. After, a complete measurement of spherical 3D is completed.

Tester : Calvin Liu

Test Data : 2025/07/07

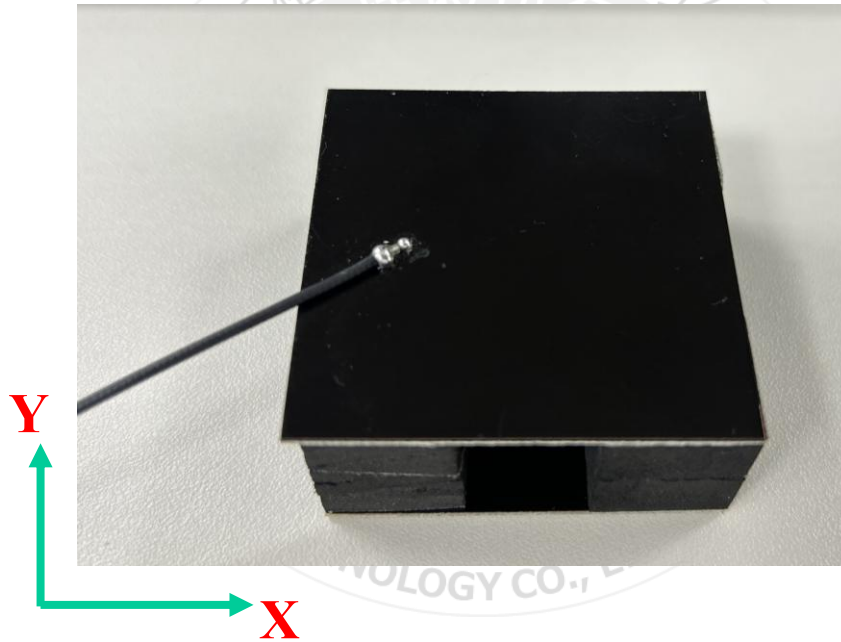
1. Measurement Information

1.1 Experimental Setup



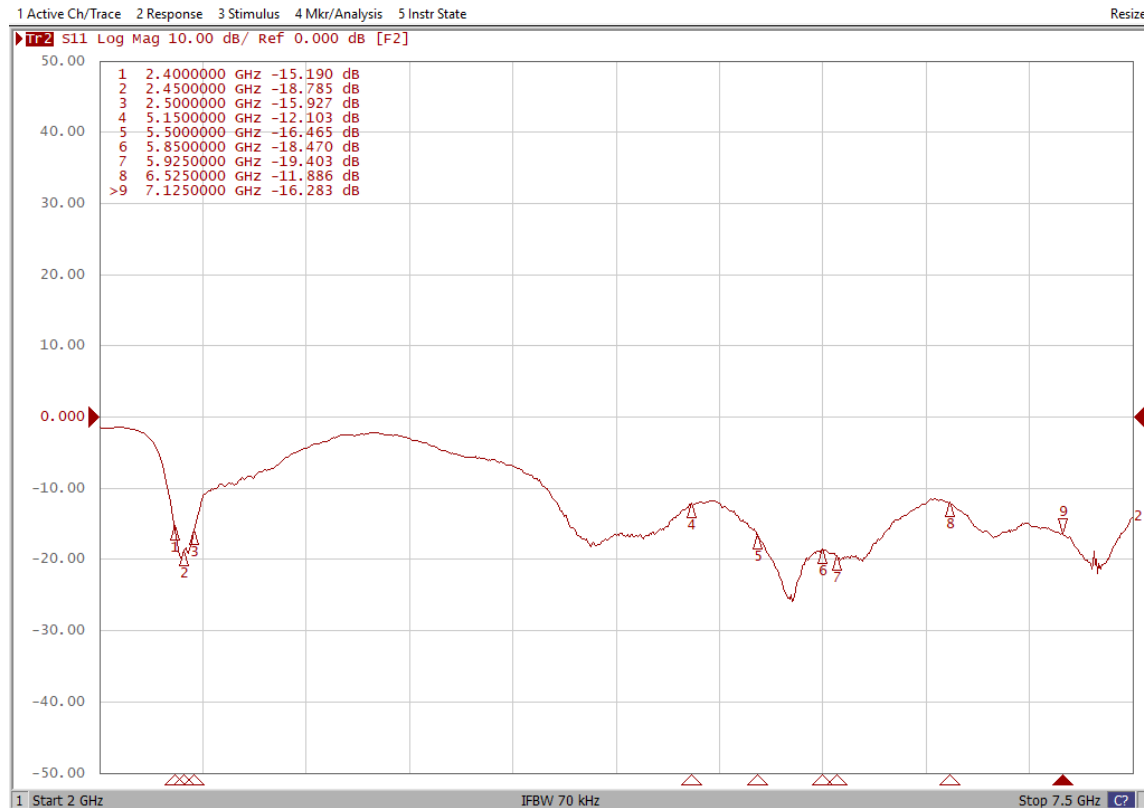
1. Measurement Information

1.2 Antenna Solution Detail



2. Antenna Characteristics

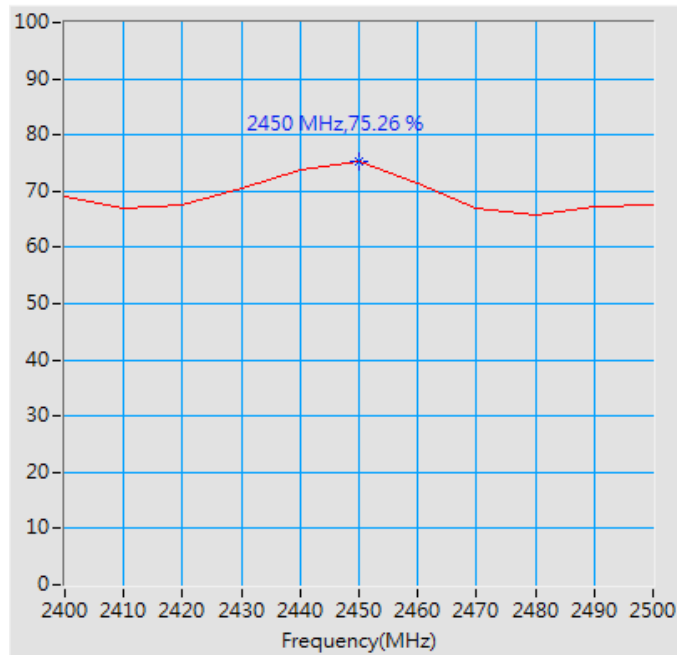
2.1 S-Parameter



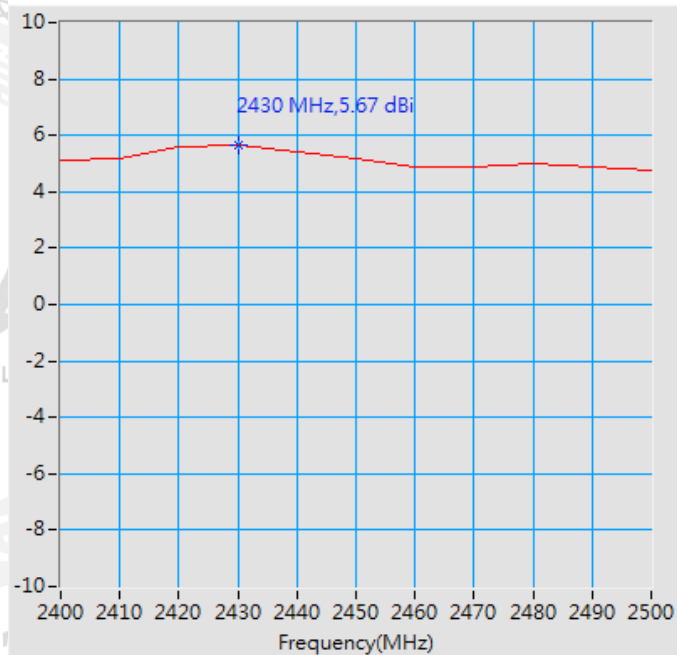
2. Antenna Characteristics

2.4G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2450 MHz : 75.26 %

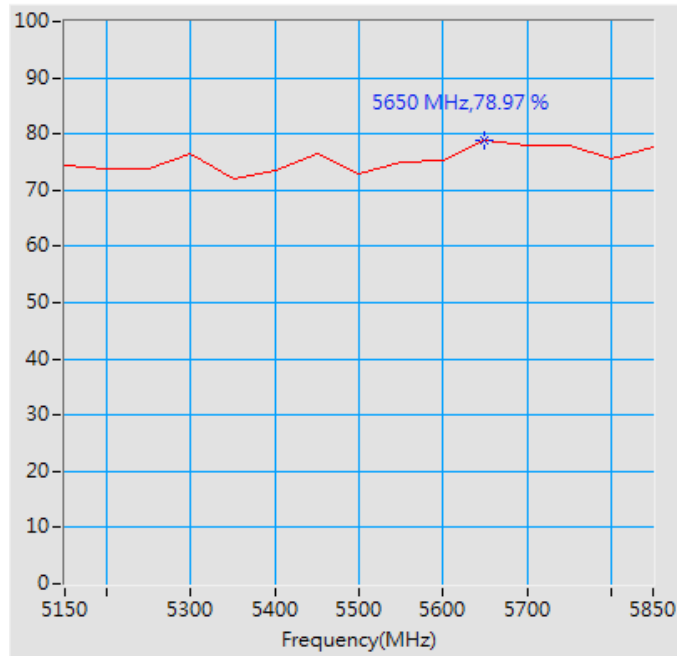


Maximum Peak Gain at 2430 MHz : 5.67 dBi

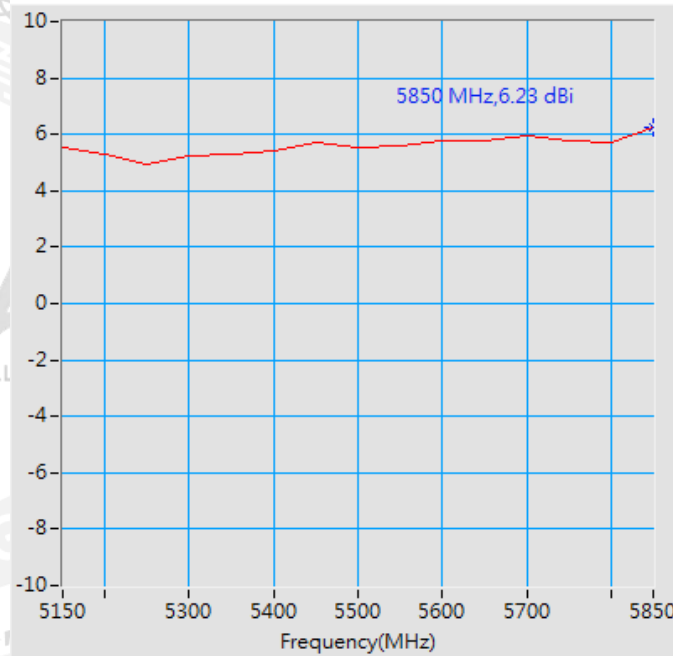
2. Antenna Characteristics

5G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 5650 MHz : 78.97 %

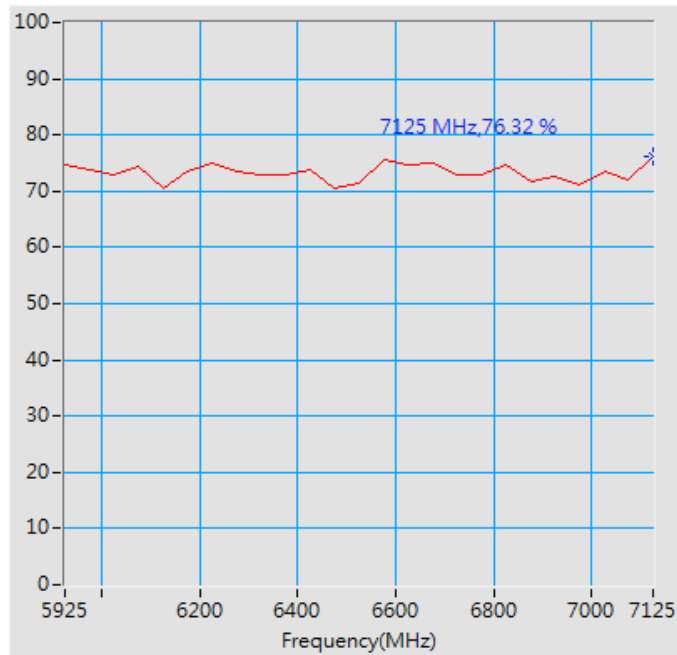


Maximum Peak Gain at 5850 MHz : 6.23 dBi

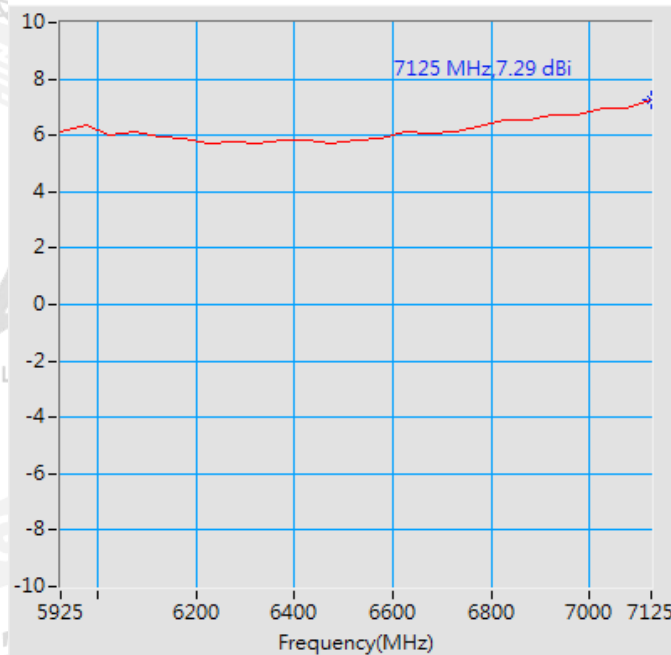
2. Antenna Characteristics

6G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 7125 MHz : 76.32 %



Maximum Peak Gain at 7125 MHz : 7.29 dBi

2. Antenna Characteristics

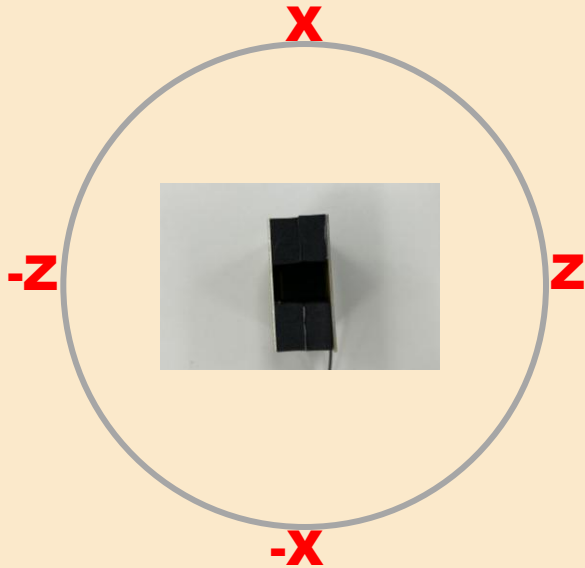
2.2 Antenna Efficiency and Peak Gain

Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
2.4	68.94	5.14
2.45	75.26	5.17
2.5	67.49	4.76
5.15	74.26	5.51
5.5	72.96	5.55
5.85	77.80	6.23
5.925	74.84	6.11
6.525	71.28	5.81
7.125	76.32	7.29

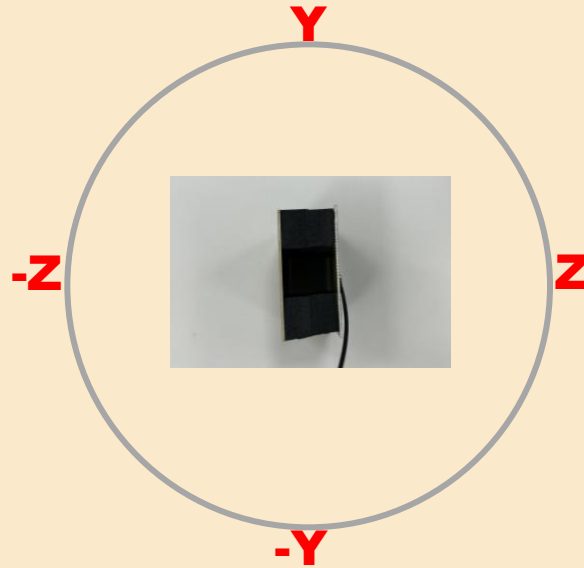
2. Antenna Characteristics

2.3 3 views of antenna

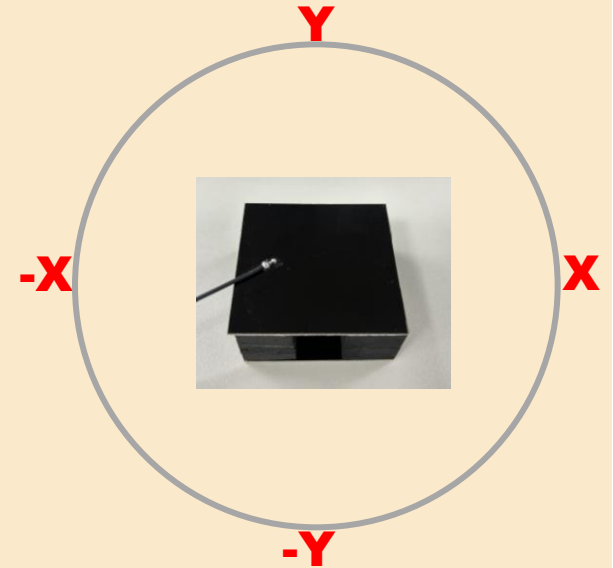
X-Z plane



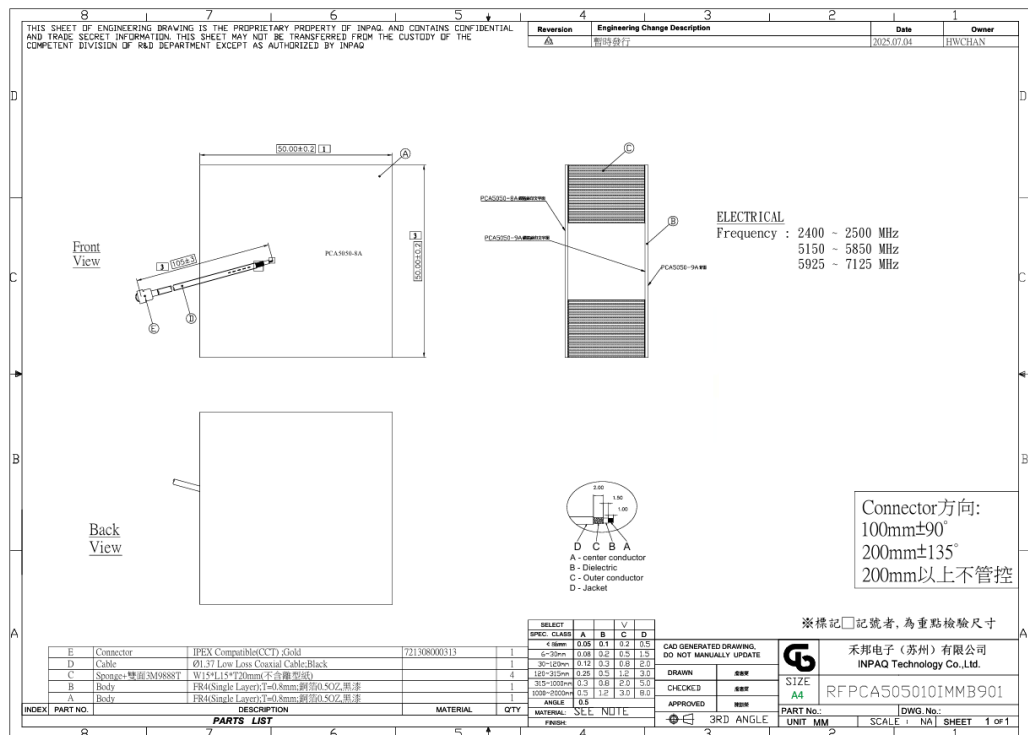
Y-Z plane



X-Y plane



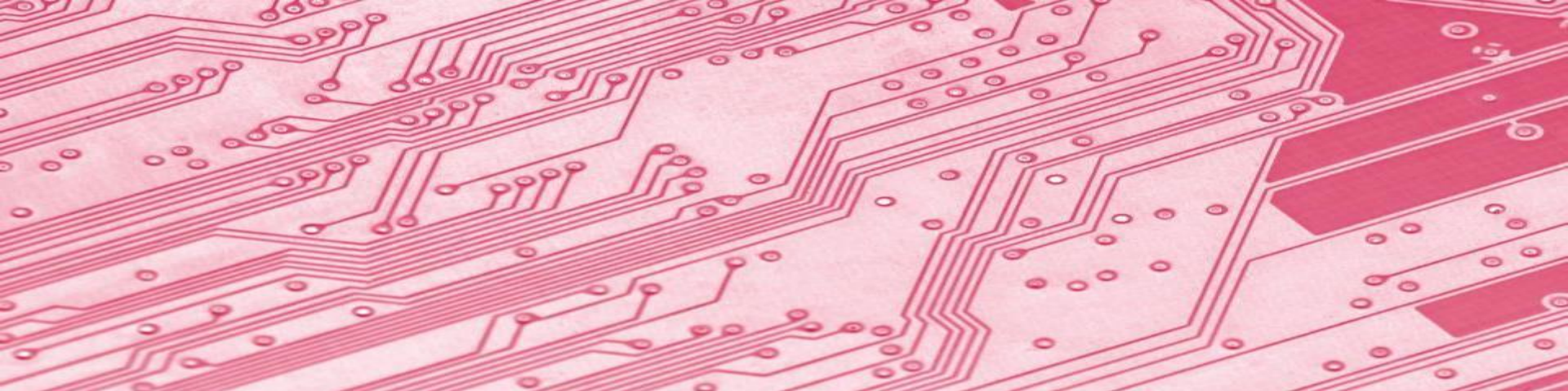
3. Summary & Antenna Information



3. Summary & Antenna Information

- The performance of antennas is shown in table

	Maximum Efficiency (%)	Maximum Gain (dBi)
2.4G	75.26	5.67
5G	78.97	6.23
6G	76.32	7.29



Title for Image (above image could be replaced)

Content Details

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INPAQ TECHNOLOGY CO., LTD.

Thank you

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