

PASSIVE SYSTEM ALLIANCE
WALSIN TECHNOLOGY CORPORATION

Coral_ABR-D01-XX

Presented by

Jack Yeh

Walsin Technology Corporation

2022/ 07/ 13

| Version | Date | Description | Author |
|----------------|-------------|--------------------|---------------|
| V01 | 2022/07/13 | New Release | Jack |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

OUTLINE

1. Measurement Information

1.1 Experimental Setup

1.2 Antenna Solution Detail

2. Antenna Characteristics

2.1 S-Parameters

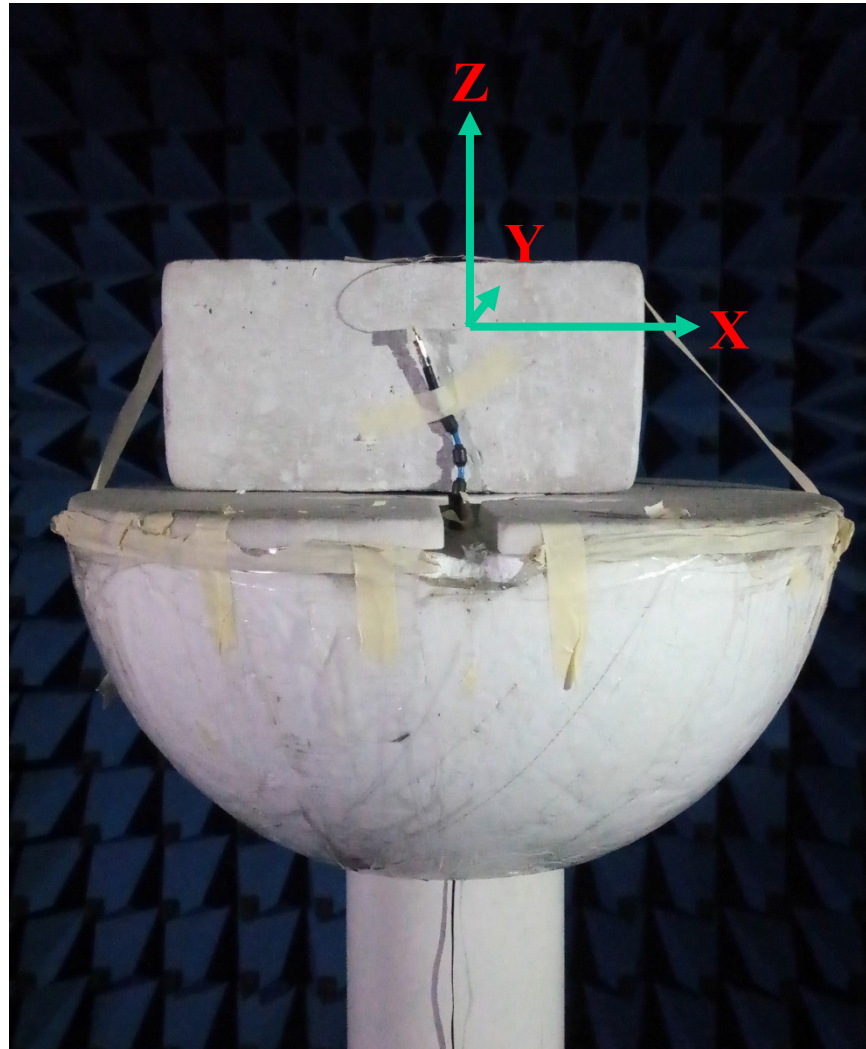
2.2 Antenna Efficiency and Peak Gain

2.3 3 views of antenna & 2D Radiation Patterns

3. Summary

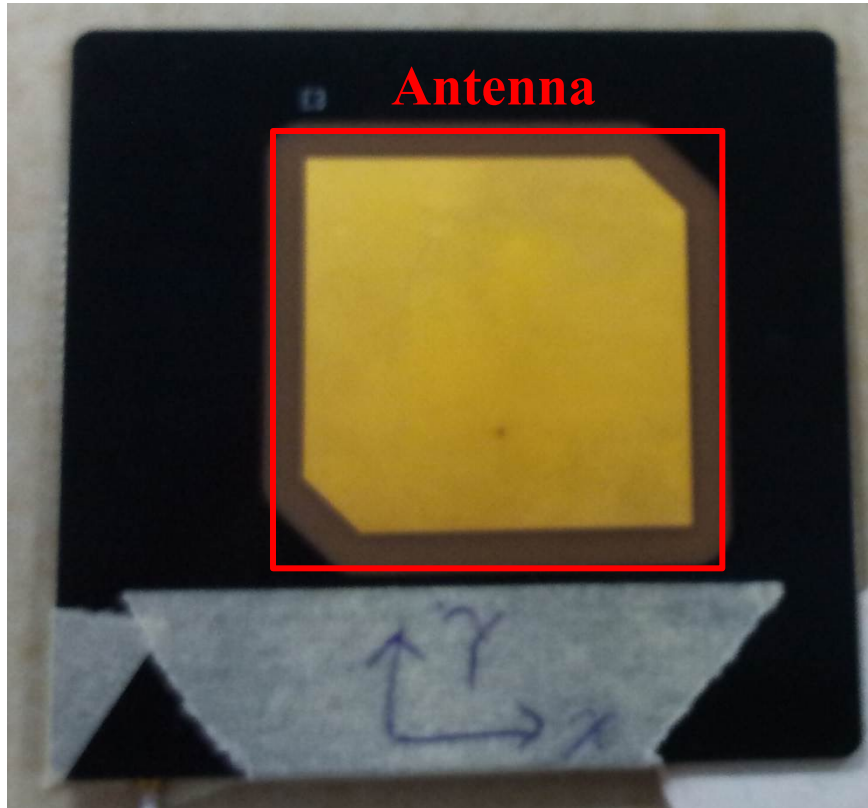
1. Measurement Information

1.1 Experimental Setup



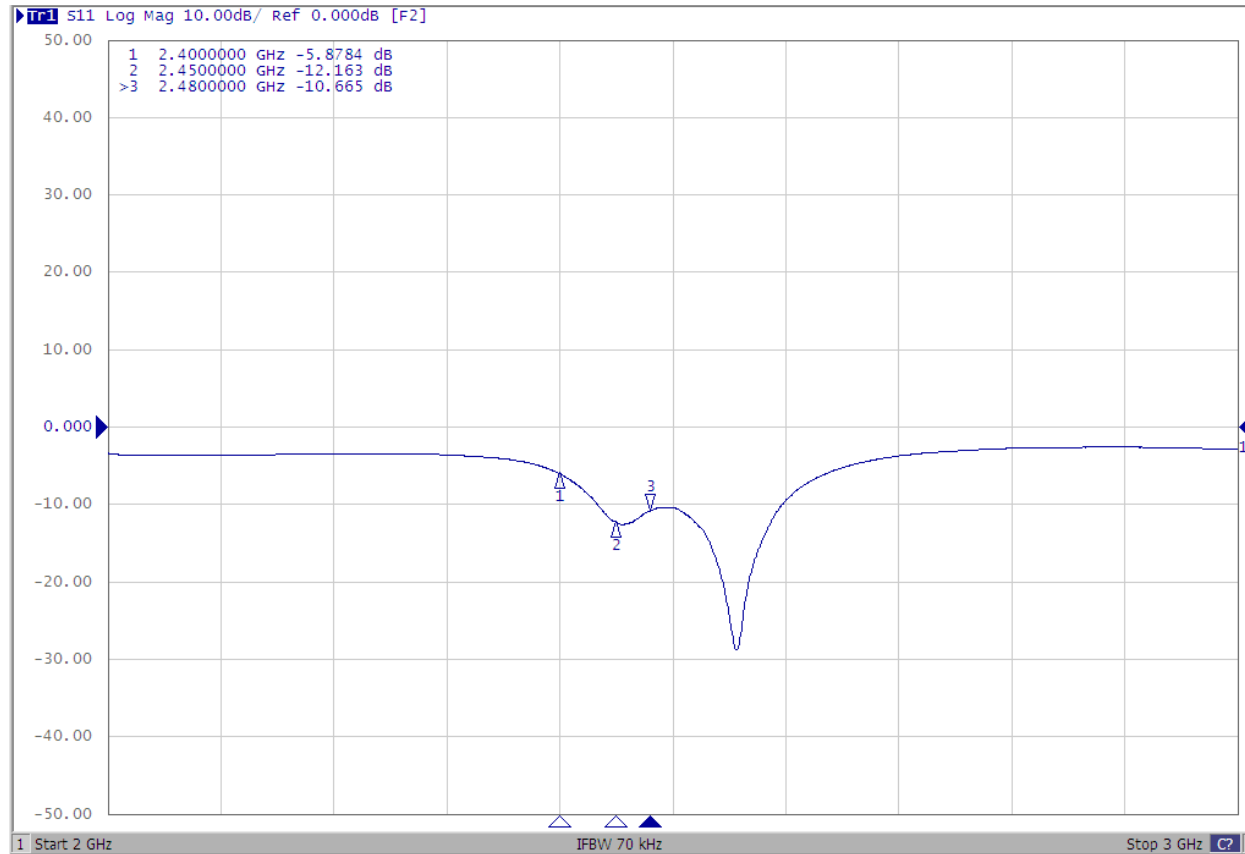
1. Measurement Information

1.2 Antenna Solution Detail



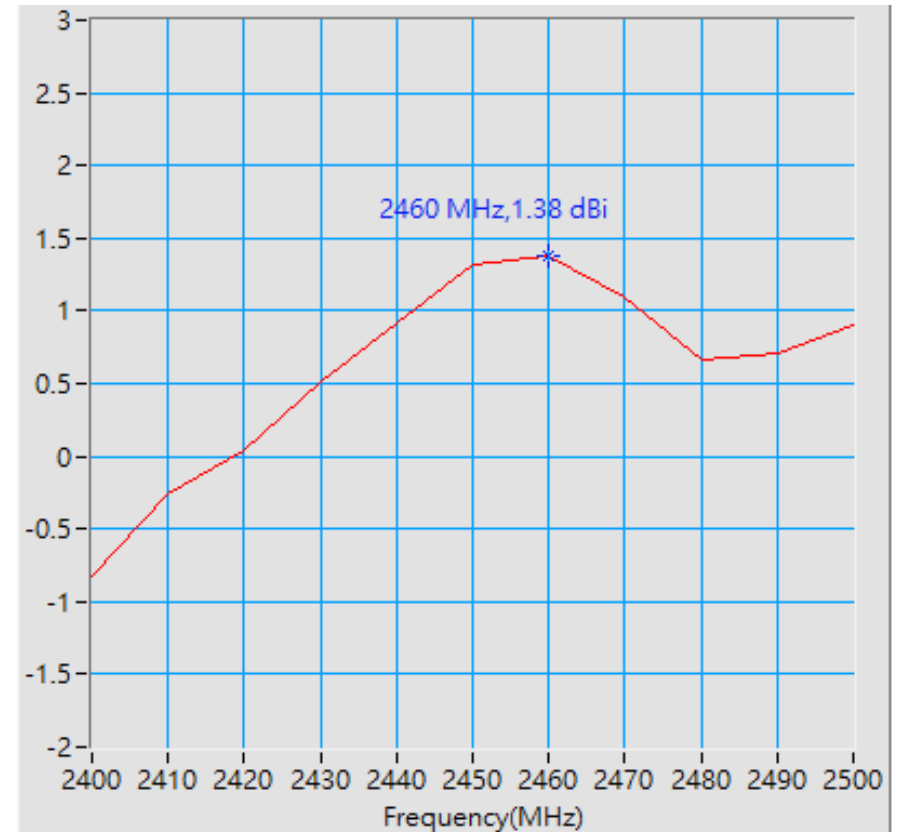
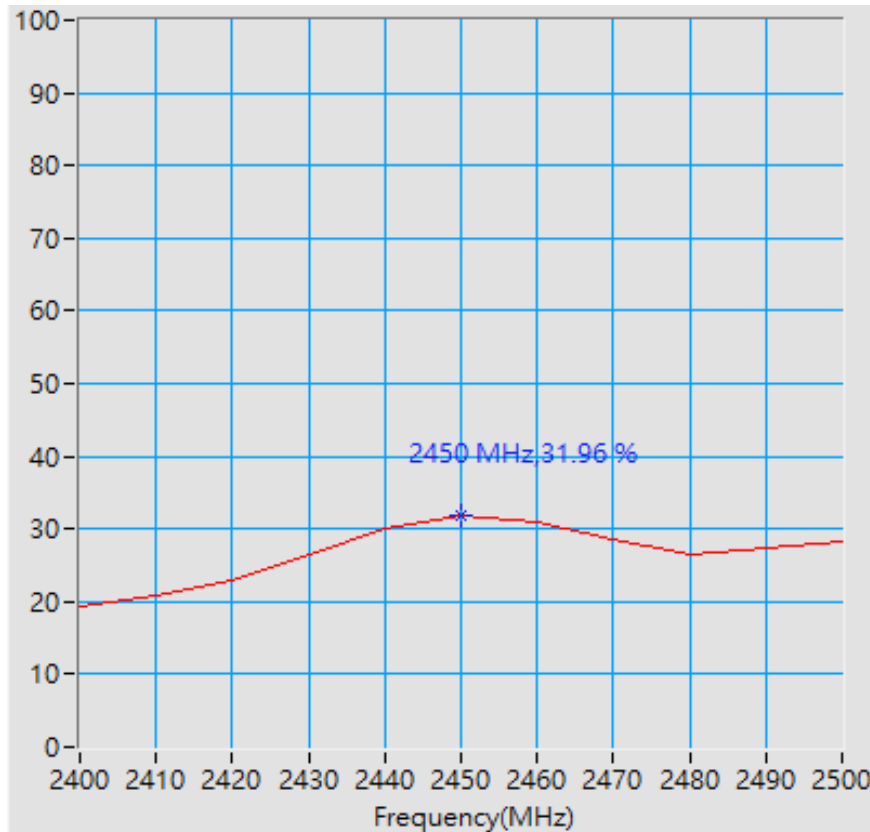
2. Antenna Characteristics

2.1 S-Parameter



2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain



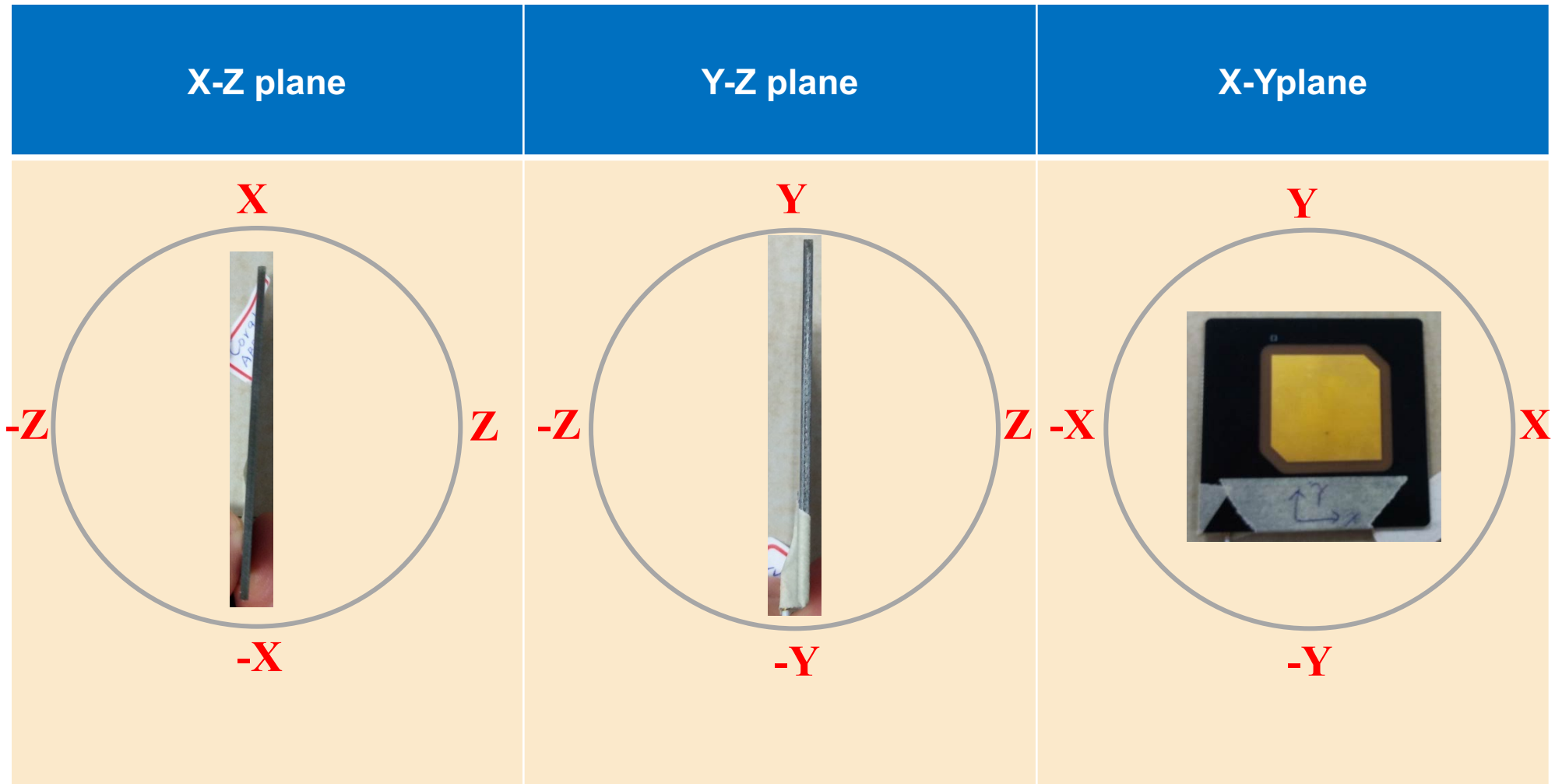
2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

| | Antenna Performance | |
|--------------------|---------------------|--------------------|
| Frequency (GHz) | Efficiency (%) | Peak gain (dBi) |
| 2.4 | 19.24 | -0.83 |
| 2.45 | 31.96 | 1.31 |
| 2.5 | 28.30 | 0.90 |

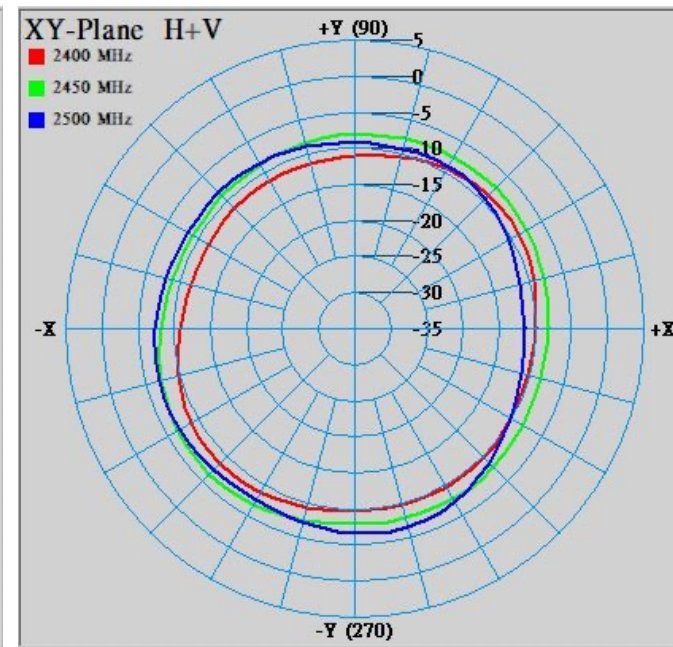
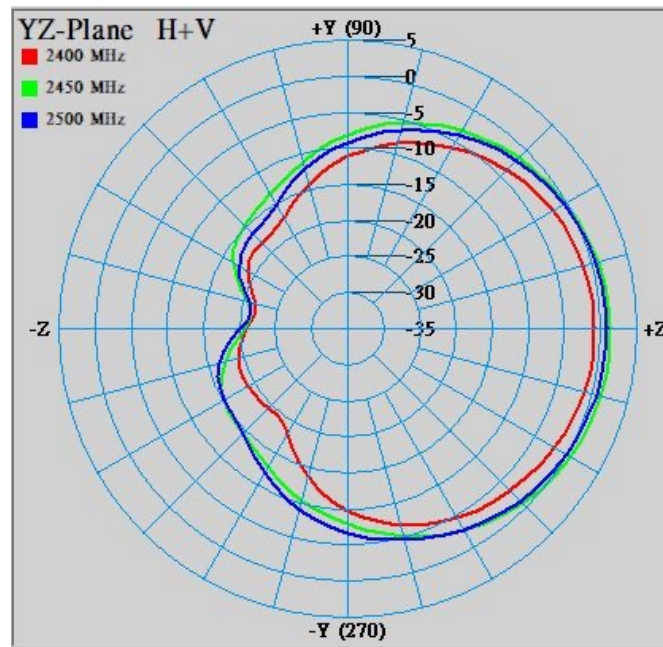
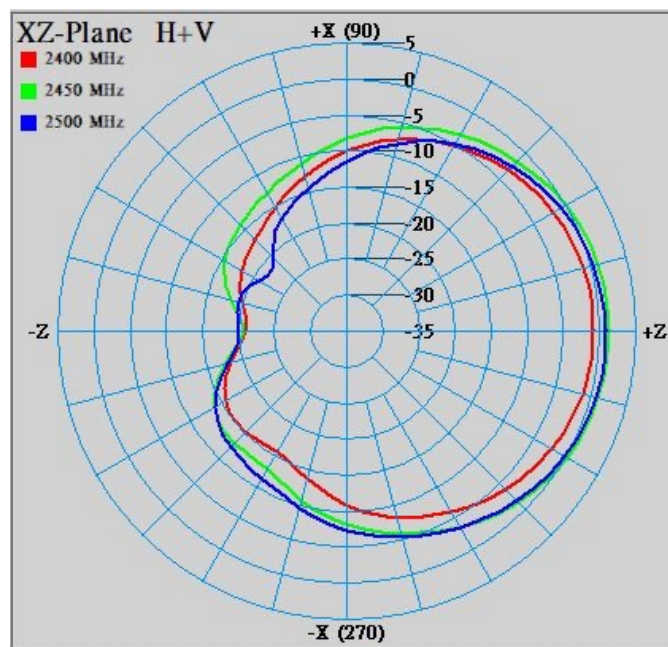
2. Antenna Characteristics

2.3 3 views of antenna



2. Antenna Characteristics

2.3 2D Radiation Patterns



| | ZX plane | | ZY plane | | XY plane | |
|-----------------|----------------|--------------|----------------|--------------|----------------|--------------|
| Frequency [MHz] | Max Value [dB] | Average [dB] | Max Value [dB] | Average [dB] | Max Value [dB] | Average [dB] |
| 2400 | -0.83 | -6.17 | -0.83 | -6.16 | -8.58 | -9.93 |
| 2450 | 1.28 | -4.04 | 1.31 | -3.89 | -6.50 | -7.86 |
| 2500 | 0.90 | -4.59 | 0.86 | -4.26 | -6.52 | -8.38 |

3. Summary

- The performance of antennas is shown in table

| | Antenna Performance |
|-----------------|---------------------|
| Efficiency (%) | 19 ~ 32 |
| Peak Gain (dBi) | -0.8 ~ 1.4 |

Thank you

本資料均屬機密，僅供指定之收件人使用，未經寄件人許可不得揭露、複製或散佈本信件。

This message and any attachments are confidential and may be legally privileged. Any unauthorized review, use or distribution by anyone other than the intended recipient is strictly prohibited. If you are not the intended recipient, please immediately notify the sender, completely delete this documents, and destroy all copies. Your cooperation will be highly appreciated.