



APPROVAL SHEET

Customer Name: *Compal Electronics, Inc.*

Date: 2021/01/28

Doc. Version: AO

| | |
|--------------------|---------------------|
| OEM P/N | |
| HLN P/N | 260-25094 |
| Description | PiFA Antenna |
| Version | |

| Provided By Hong-Lin Technology | Reviewed By Hong-Lin Technology | Approved By Customer |
|--|--|---------------------------------|
| | | |

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Index

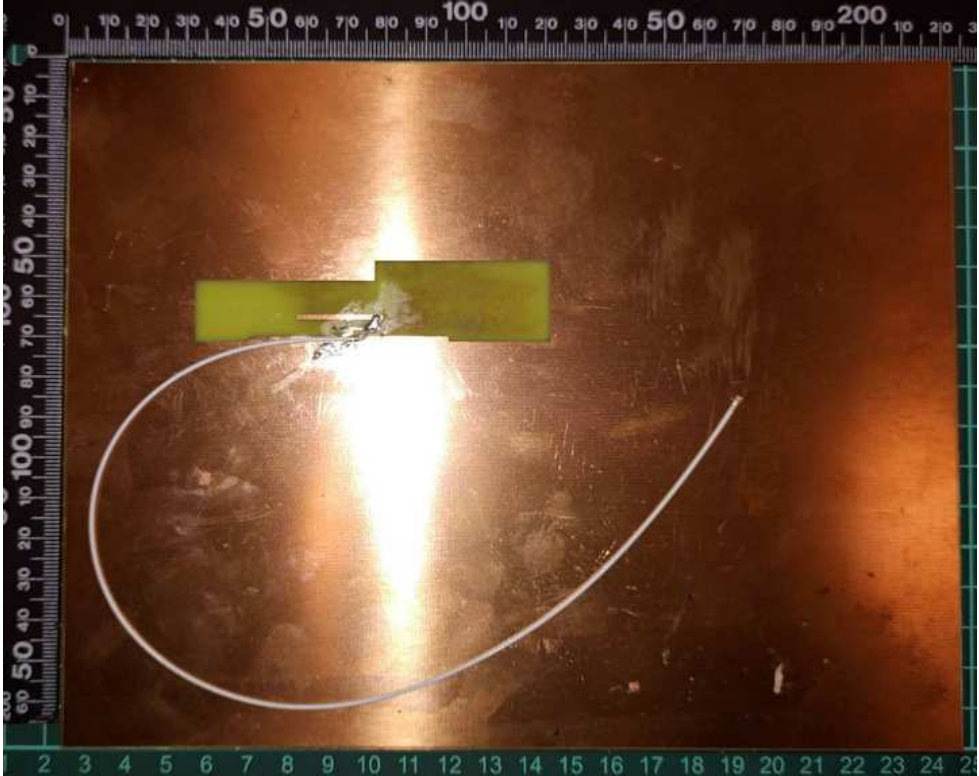
- 1. Introduction**
- 2. Revision History**
- 3. Product Specifications**
- 4. Antenna Performance**
- 5. FAI & CPK**

1.1 Antenna

1.1.1 Location: Base

1.1.2 Cable Length: L=300mm;

Connector: I-PEX MHF 4L Plug for OD 1.13mm (20565-001R-13)

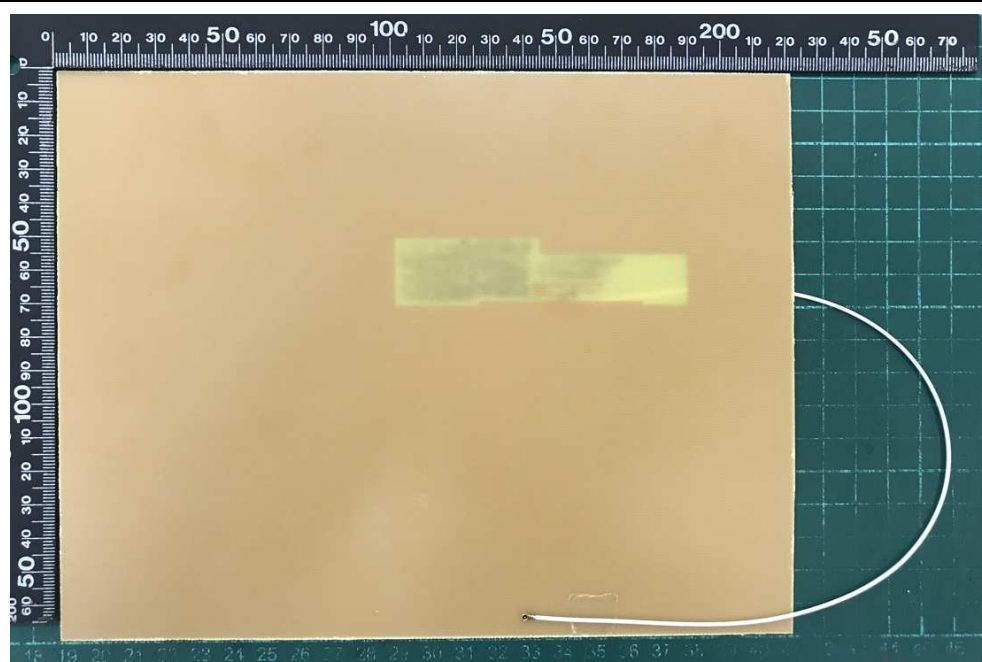
| | |
|---------------------|---|
| | WiFi PIFA |
| Antenna Type | PIFA |
| Cable | 1.13 LLS WiFi White Cable |
| Photo Front |  |



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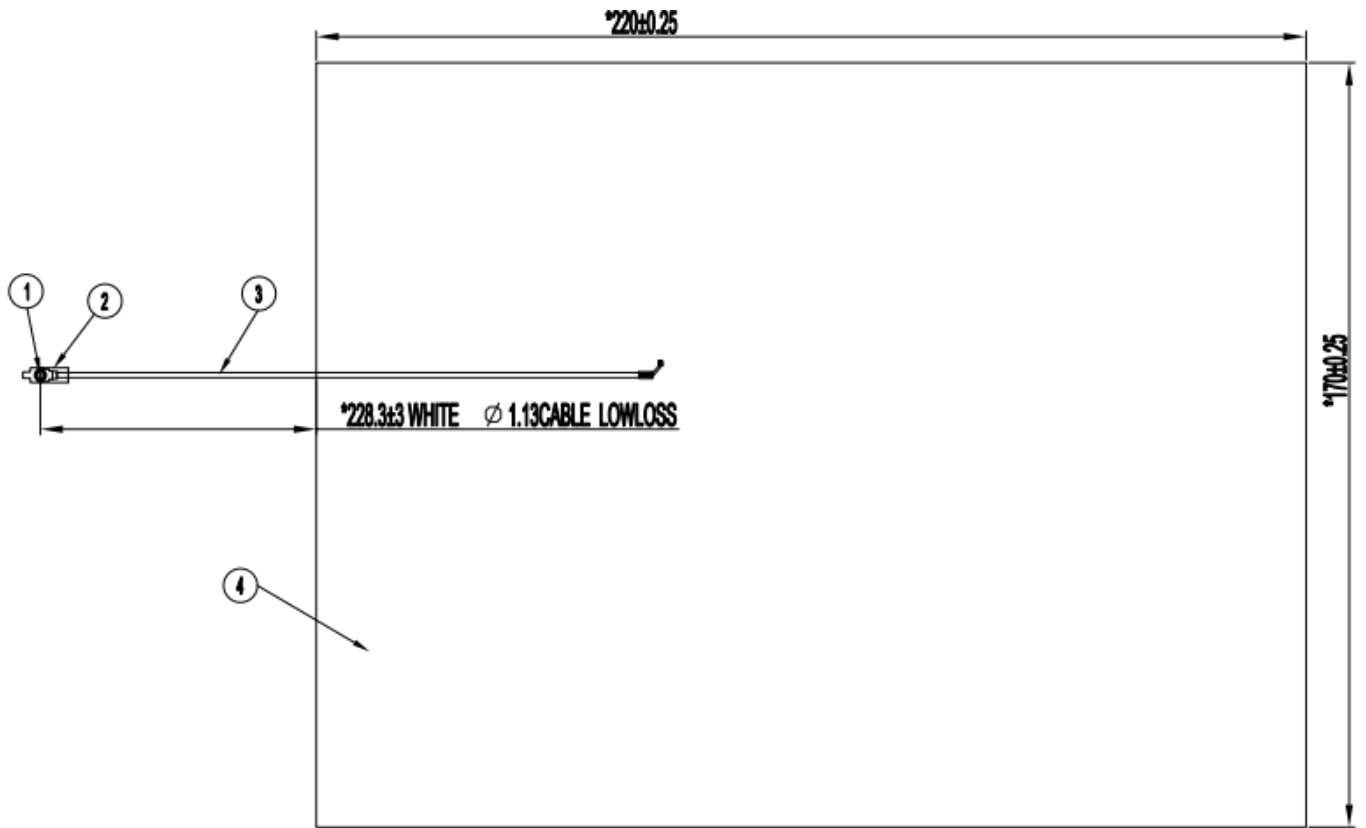
Photo back



2.Revision History

| Date | Version | Revision History |
|------------|---------|------------------|
| 2021/01/25 | A0 | New Release |

3.1 Mechanical Specifications

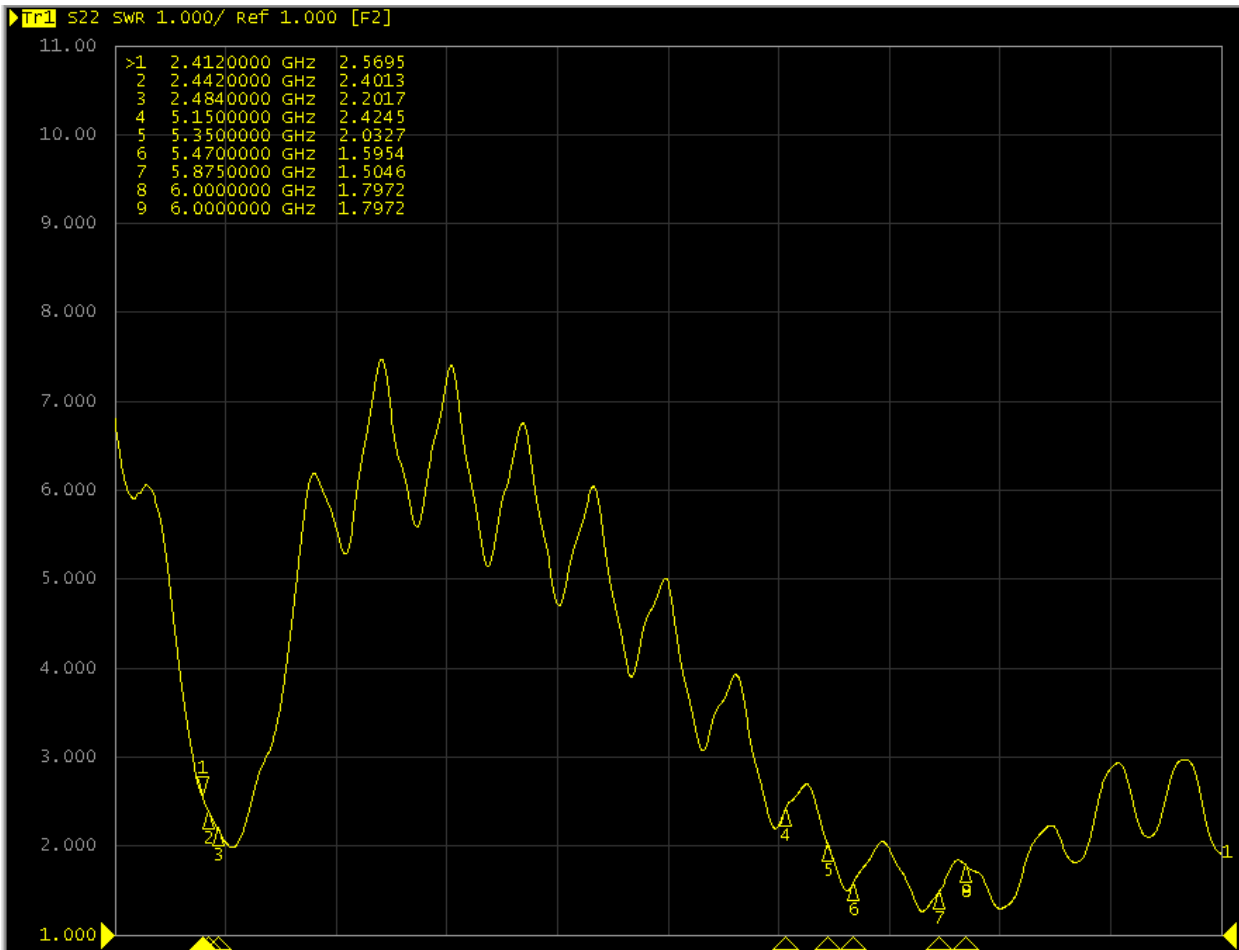


3.2 Antenna Material List

| | | | | |
|-----|------|---|------|--------|
| 4. | | Pifa2.4_5G_ANT_PCB W170*L220 T=0.8MM (金安國紀) | 1 | |
| 3. | | Pifa2.4_5G_ANT_Cable ϕ 1.13 LOW LOSS (White) (FEP) | 1 | 神宇 |
| 2. | | ϕ 1.5 L=20mm PE軟套管(熱膠套管): 透明 | 1 | |
| 1. | | MHF 4L Plug for OD 1.13mm (20565-001R-13) | 1 | I-PEX |
| NO. | SORT | SPECIFICATION | Q'TY | VENDOR |

4 .Antenna Performance

4.1 VSWR



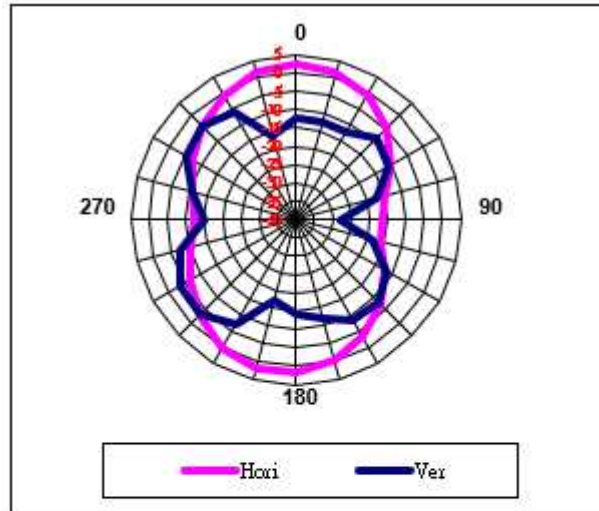
4.3 Antenna Pattern

Antenna Peak Gain Table:

| Frequency (MHz) | Tx1 antenna | | |
|--------------------|-------------|----------|------------|
| | Horizontal | Vertical | Cable Loss |
| | (dBi) | (dBi) | |
| 2412 | 2.55 | -3.08 | 0.74 |
| 2422 | 2.72 | -2.96 | 0.74 |
| 2437 | 3.01 | -2.75 | 0.74 |
| 2442 | 3.17 | -2.53 | 0.74 |
| 2452 | 3.32 | -2.49 | 0.75 |
| 2484 | 3.53 | -2.11 | 0.76 |
| 5150 | -3.10 | 2.32 | 1.13 |
| 5180 | -3.24 | 2.51 | 1.14 |
| 5250 | -2.56 | 3.06 | 1.16 |
| 5320 | -2.08 | 3.03 | 1.17 |
| 5350 | -2.07 | 3.07 | 1.18 |
| 5470 | -1.22 | 4.81 | 1.20 |
| 5500 | -1.18 | 4.53 | 1.26 |
| 5725 | 0.57 | 4.09 | 1.27 |
| 5785 | 0.73 | 4.20 | 1.27 |
| 5805 | 0.59 | 4.15 | 1.28 |
| 5850 | 0.22 | 4.07 | 1.29 |

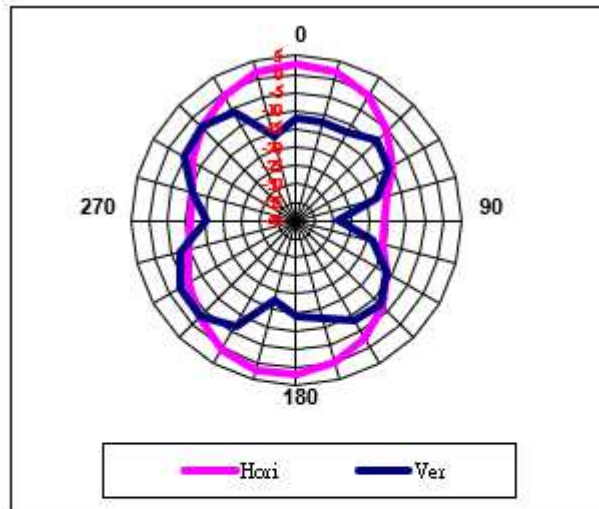
Section 3. Radiation characteristics of antennae Loaded in Host Platform

Ant : 2412 MHz



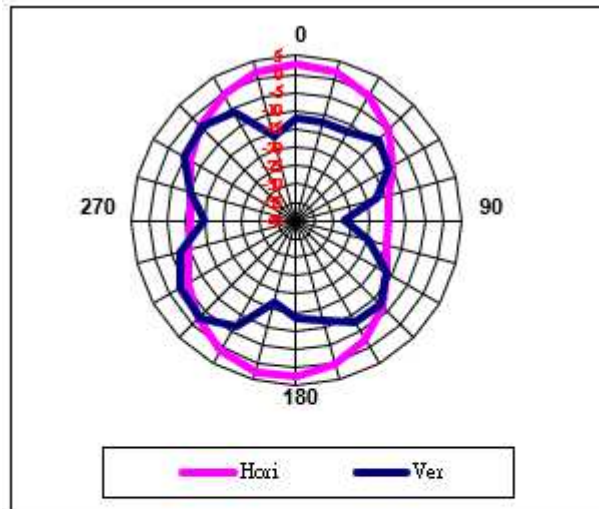
| | |
|----------------------------|-------|
| Frequency (MHz) | 2412 |
| Horizontal peak gain (dBi) | 2.55 |
| Vertical peak gain (dBi) | -3.08 |

Ant : 2422 MHz



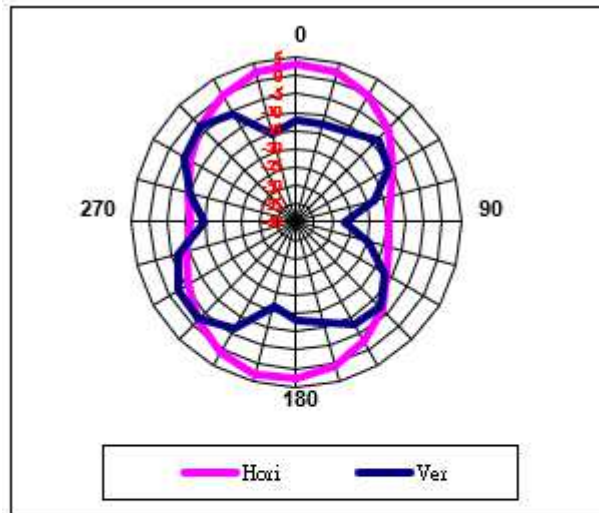
| | |
|----------------------------|-------|
| Frequency (MHz) | 2422 |
| Horizontal peak gain (dBi) | 2.72 |
| Vertical peak gain (dBi) | -2.96 |

Ant :2437 MHz



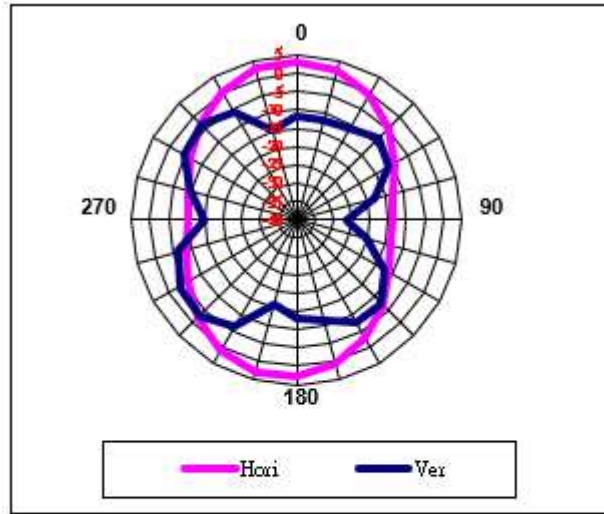
| | |
|----------------------------|-------|
| Frequency (MHz) | 2437 |
| Horizontal peak gain (dBi) | 3.01 |
| Vertical peak gain (dBi) | -2.75 |

Ant :2442 MHz



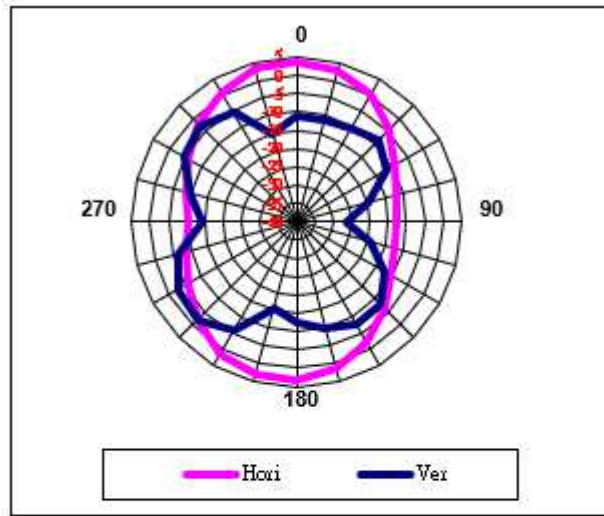
| | |
|----------------------------|-------|
| Frequency (MHz) | 2442 |
| Horizontal peak gain (dBi) | 3.17 |
| Vertical peak gain (dBi) | -2.53 |

Ant : 2452MHz



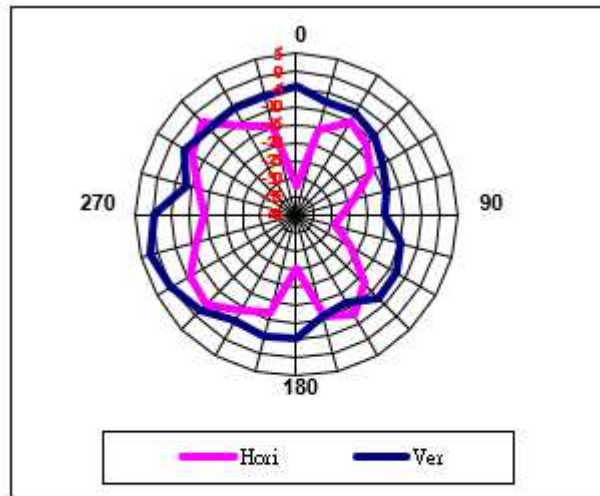
| | |
|----------------------------|-------|
| Frequency (MHz) | 2452 |
| Horizontal peak gain (dBi) | 3.32 |
| Vertical peak gain (dBi) | -2.49 |

Ant : 2484 MHz



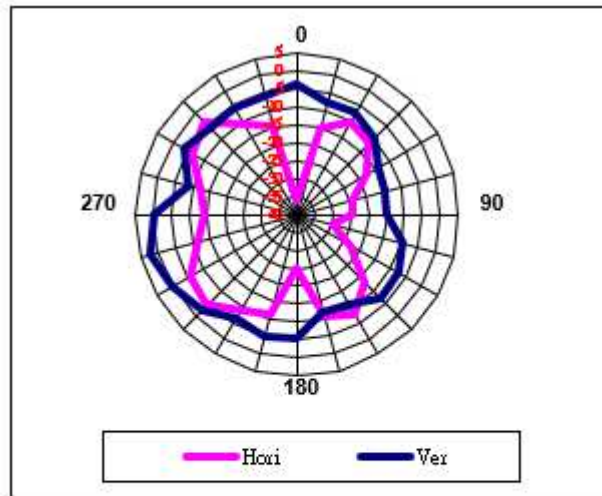
| | |
|----------------------------|-------|
| Frequency (MHz) | 2484 |
| Horizontal peak gain (dBi) | 3.53 |
| Vertical peak gain (dBi) | -2.11 |

Ant : 5150 MHz



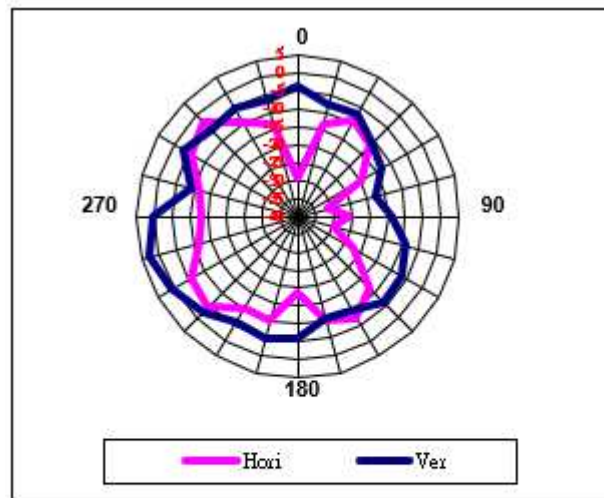
| | |
|----------------------------|-------|
| Frequency (MHz) | 5150 |
| Horizontal peak gain (dBi) | -3.10 |
| Vertical peak gain (dBi) | 2.32 |

Ant : 5180 MHz



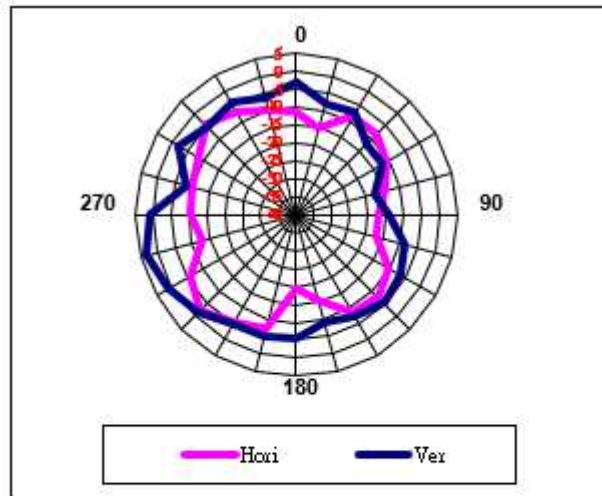
| | |
|----------------------------|-------|
| Frequency (MHz) | 5180 |
| Horizontal peak gain (dBi) | -3.24 |
| Vertical peak gain (dBi) | 2.51 |

Ant : 5250 MHz



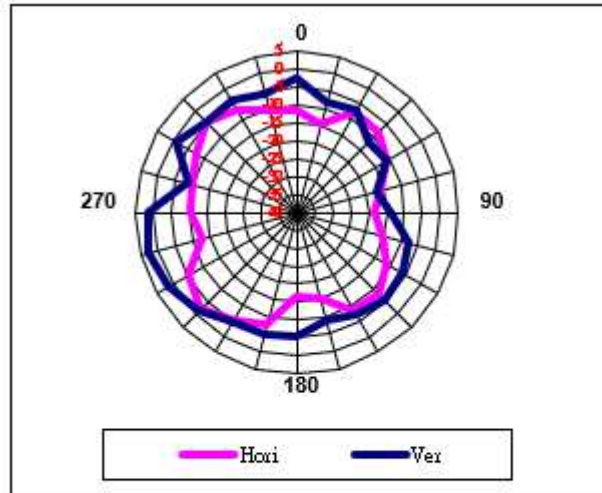
| | |
|----------------------------|-------|
| Frequency (MHz) | 5250 |
| Horizontal peak gain (dBi) | -2.56 |
| Vertical peak gain (dBi) | 3.06 |

Ant : 5320 MHz



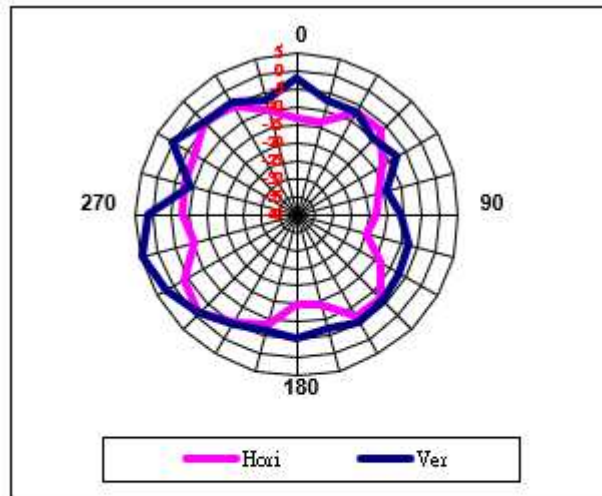
| | |
|----------------------------|-------|
| Frequency (MHz) | 5320 |
| Horizontal peak gain (dBi) | -2.08 |
| Vertical peak gain (dBi) | 3.03 |

Ant : 5350 MHz



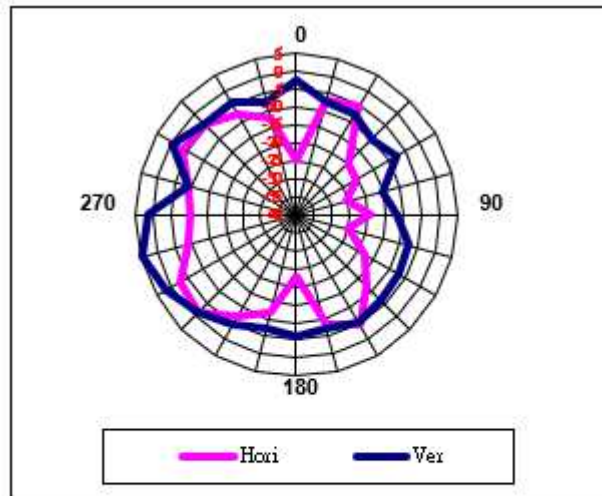
| | |
|----------------------------|-------|
| Frequency (MHz) | 5350 |
| Horizontal peak gain (dBi) | -2.07 |
| Vertical peak gain (dBi) | 3.07 |

Ant : 5470 MHz



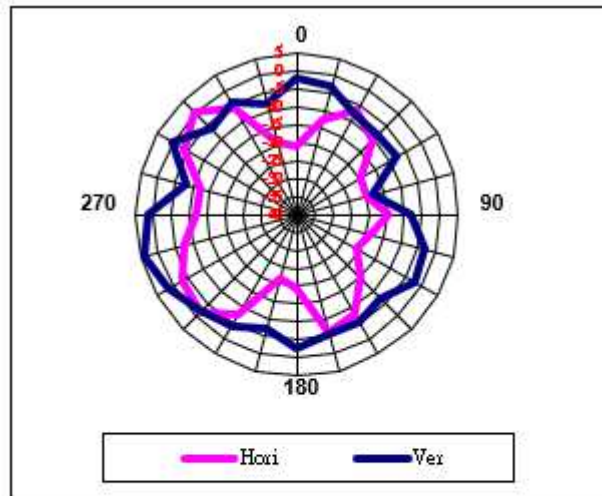
| | |
|----------------------------|-------|
| Frequency (MHz) | 5470 |
| Horizontal peak gain (dBi) | -1.22 |
| Vertical peak gain (dBi) | 4.81 |

Ant : 5500 MHz



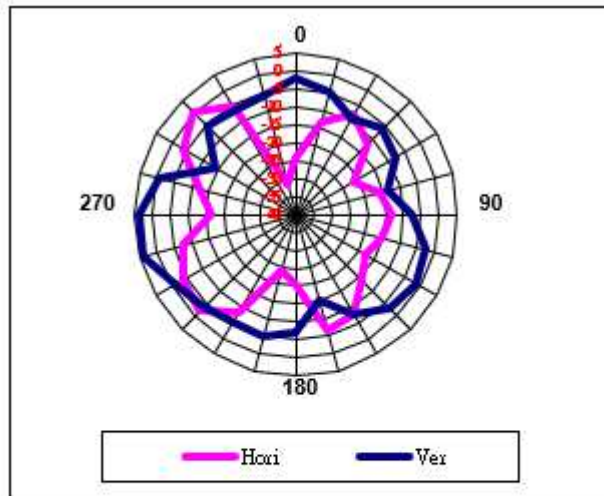
| | |
|----------------------------|-------|
| Frequency (MHz) | 5500 |
| Horizontal peak gain (dBi) | -1.18 |
| Vertical peak gain (dBi) | 4.53 |

Ant : 5725 MHz



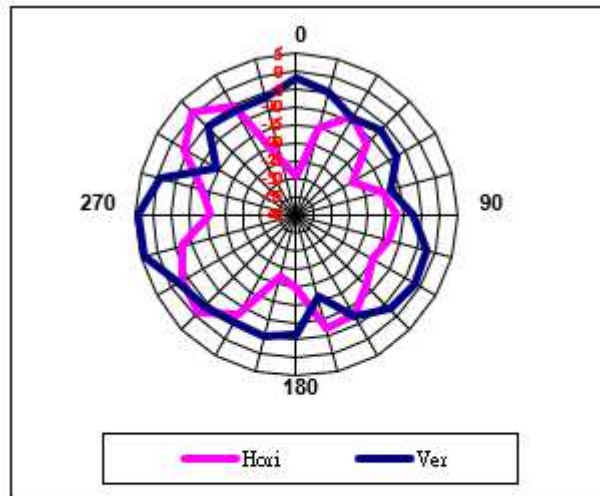
| | |
|----------------------------|------|
| Frequency (MHz) | 5725 |
| Horizontal peak gain (dBi) | 0.57 |
| Vertical peak gain (dBi) | 4.09 |

Ant : 5785 MHz



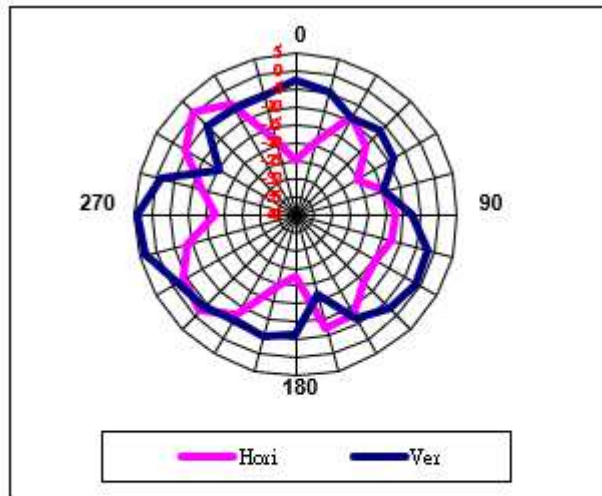
| | |
|----------------------------|------|
| Frequency (MHz) | 5785 |
| Horizontal peak gain (dBi) | 0.73 |
| Vertical peak gain (dBi) | 4.20 |

Ant : 5805 MHz



| | |
|----------------------------|------|
| Frequency (MHz) | 5805 |
| Horizontal peak gain (dBi) | 0.59 |
| Vertical peak gain (dBi) | 4.15 |

Ant : 5850 MHz



| | |
|----------------------------|------|
| Frequency (MHz) | 5850 |
| Horizontal peak gain (dBi) | 0.22 |
| Vertical peak gain (dBi) | 4.07 |