

APPROVAL SHEET

Customer Name: *Compal Electronics, Inc.*

Date: 2021/01/28

Doc. Version: AO

| | |
|--------------------|-------------------------|
| OEM P/N | |
| HLN P/N | 260-25084 |
| Description | Monopole Antenna |
| Version | |

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

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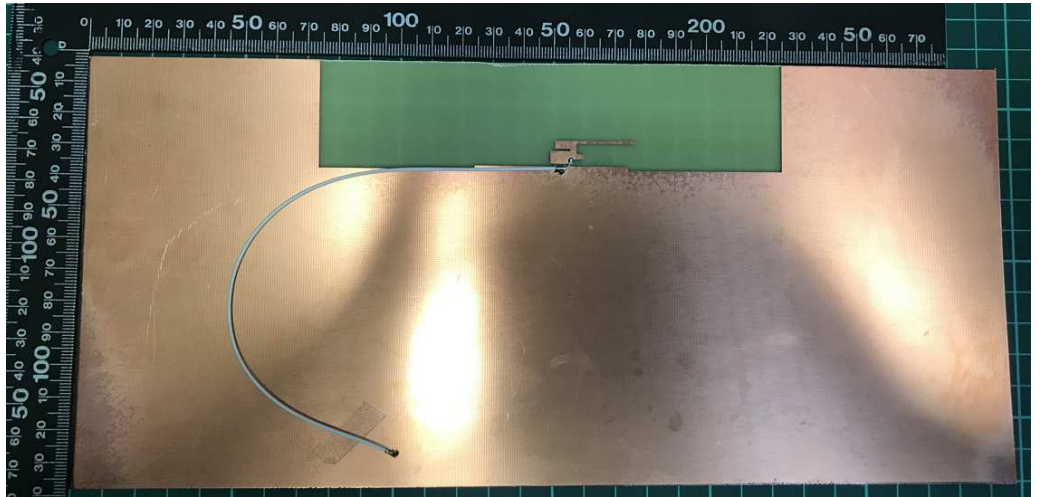
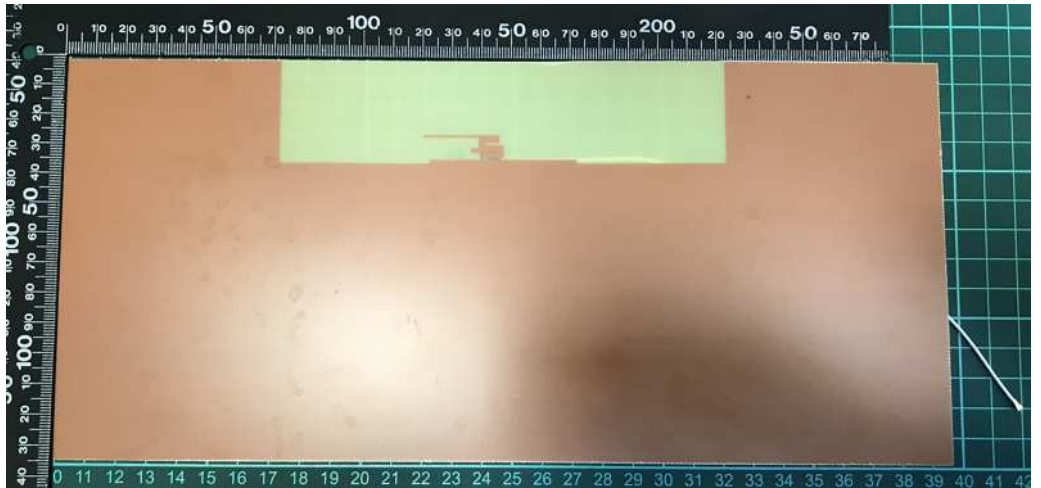
1.Introduction

1.1 Antenna

1.1.1 Location: Base

1.1.2 Cable Length: L=200mm;

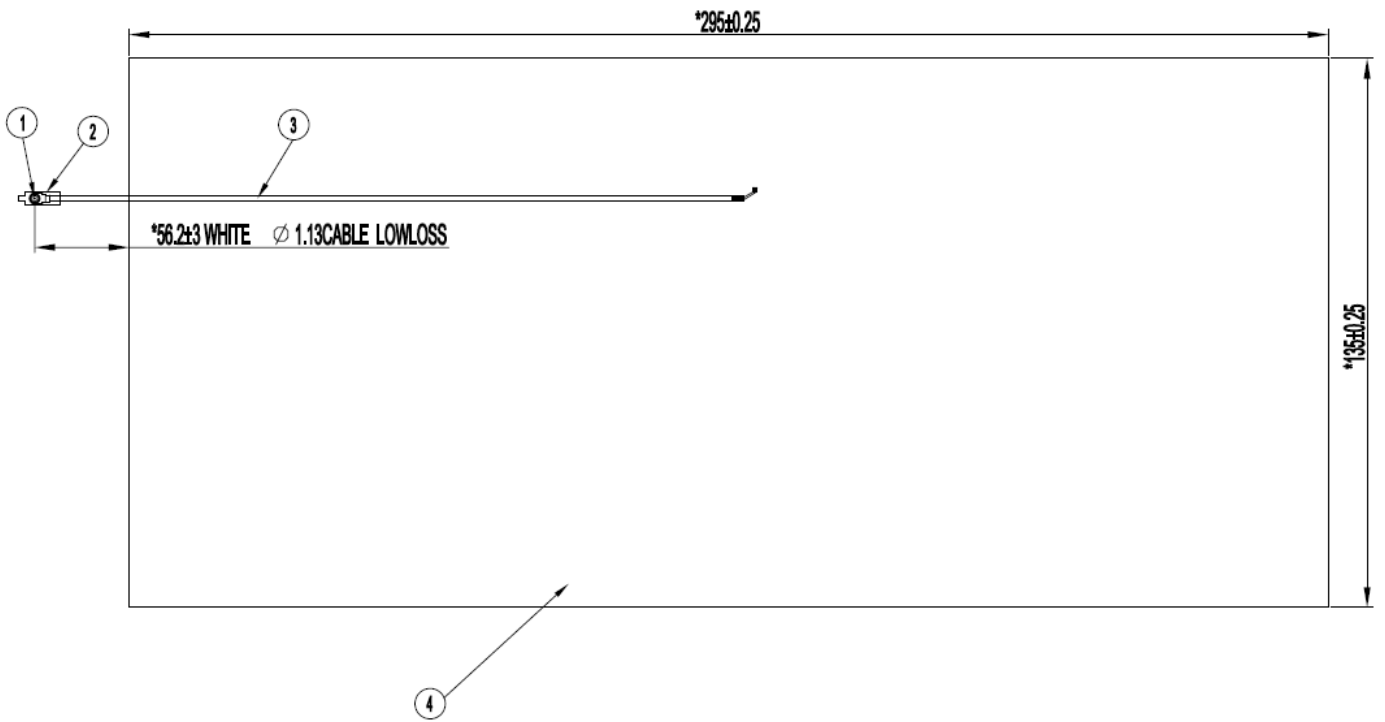
Connector: I-PEX MHF 4L Plug for OD 1.13mm (20565-001R-13)

| | |
|---------------------|--|
| | WiFi Monopole |
| Antenna Type | Monopole |
| Cable | 1.13 LLS WiFi White Cable |
| Photo Front |  |
| Photo back |  |

2.Revision History

| Date | Version | Revision History |
|------------|---------|------------------|
| 2021/01/21 | A0 | New Release |

3.1 Mechanical Specifications

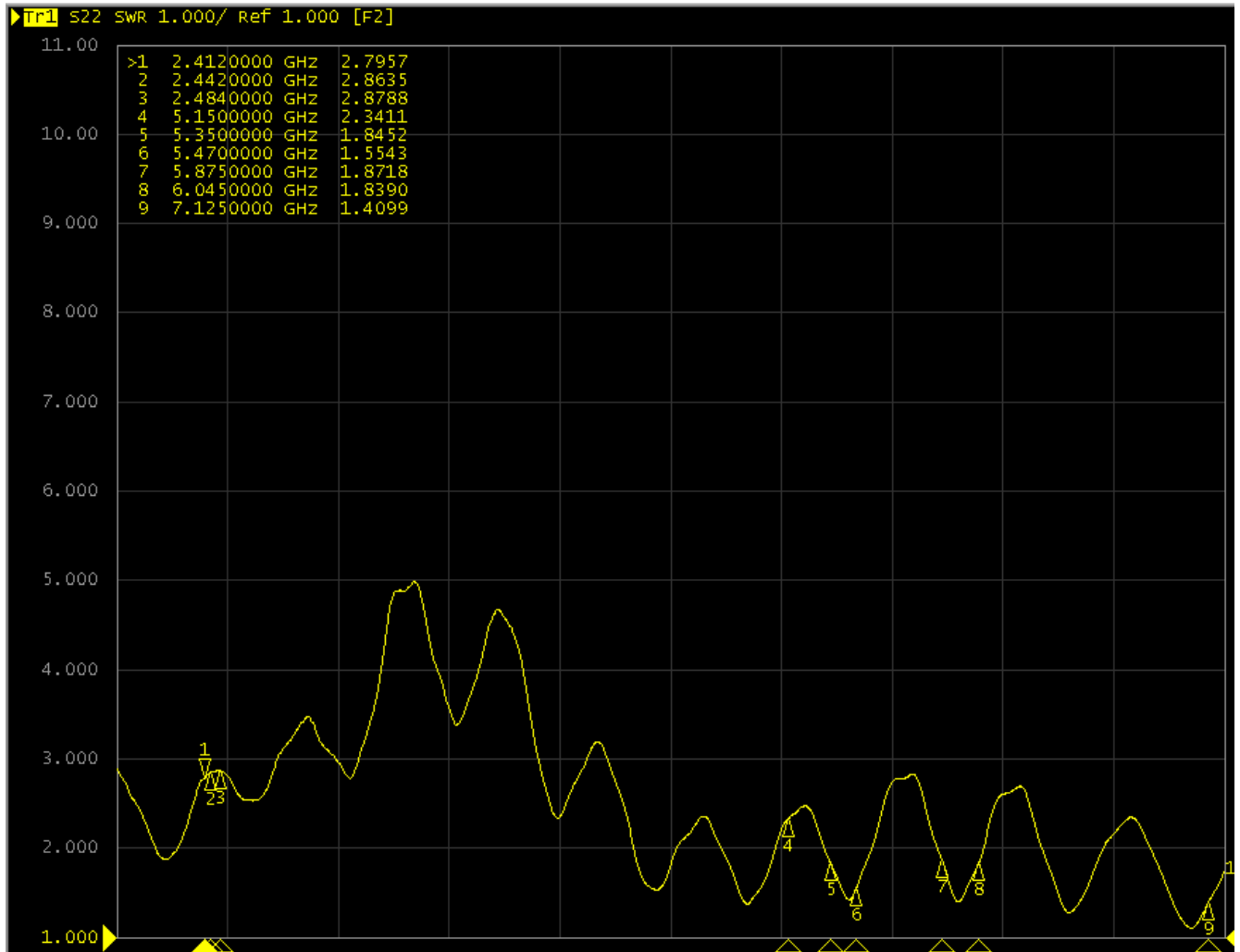


3.2 Antenna Material List

| | | | | |
|-----|------|---|-----|--------|
| 4. | | Monopole_ANT_PCB W135*L295 T=0.4MM (金安國紀) | 1 | |
| 3. | | Monopole_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 | QTY | VENDOR |

4 .Antenna Performance

4.1 VSWR



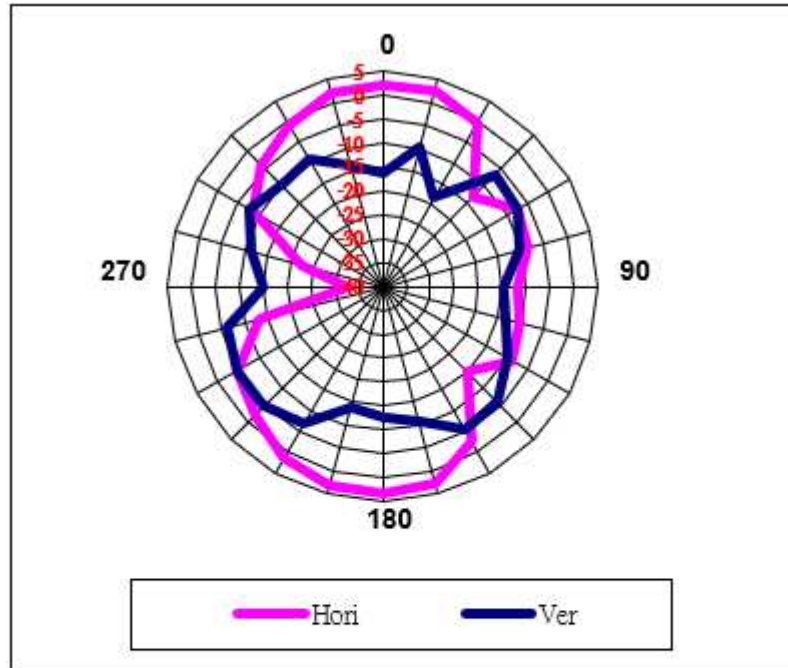
4.2 Antenna Pattern

Antenna Peak Gain Table:

| Frequency (MHz) | Tx1 antenna | | |
|--------------------|-------------|----------|------------|
| | Horizontal | Vertical | Cable Loss |
| | (dBi) | (dBi) | |
| 2412 | 3.14 | -4.59 | 0.49 |
| 2422 | 3.14 | -4.30 | 0.49 |
| 2437 | 3.14 | -4.09 | 0.50 |
| 2442 | 3.22 | -3.96 | 0.50 |
| 2452 | 3.18 | -3.86 | 0.50 |
| 2484 | 3.12 | -3.54 | 0.51 |
| 5150 | -1.21 | 3.21 | 0.76 |
| 5180 | -0.88 | 3.35 | 0.76 |
| 5250 | -1.39 | 3.19 | 0.77 |
| 5320 | -1.99 | 3.37 | 0.78 |
| 5350 | -2.07 | 3.42 | 0.78 |
| 5470 | -2.34 | 4.46 | 0.80 |
| 5500 | -1.85 | 4.77 | 0.81 |
| 5725 | -0.98 | 4.29 | 0.84 |
| 5785 | -0.37 | 4.49 | 0.85 |
| 5805 | -0.46 | 4.72 | 0.85 |
| 5850 | -0.68 | 4.71 | 0.86 |
| 5875 | -0.78 | 4.64 | 0.86 |
| 5925 | -1.54 | 4.71 | 0.87 |
| 6085 | -1.86 | 4.75 | 0.87 |
| 6245 | -2.29 | 4.74 | 0.88 |
| 6405 | -3.69 | 4.70 | 0.90 |
| 6425 | -3.63 | 4.25 | 0.90 |
| 6465 | -3.32 | 4.29 | 0.91 |
| 6525 | -2.61 | 4.22 | 0.92 |
| 6645 | -2.09 | 4.78 | 0.93 |
| 6795 | -1.37 | 4.81 | 0.96 |
| 6875 | -1.57 | 4.71 | 0.97 |
| 6975 | 1.46 | 4.74 | 0.98 |
| 7095 | 2.10 | 4.74 | 0.99 |
| 7125 | -0.79 | 4.71 | 1.00 |

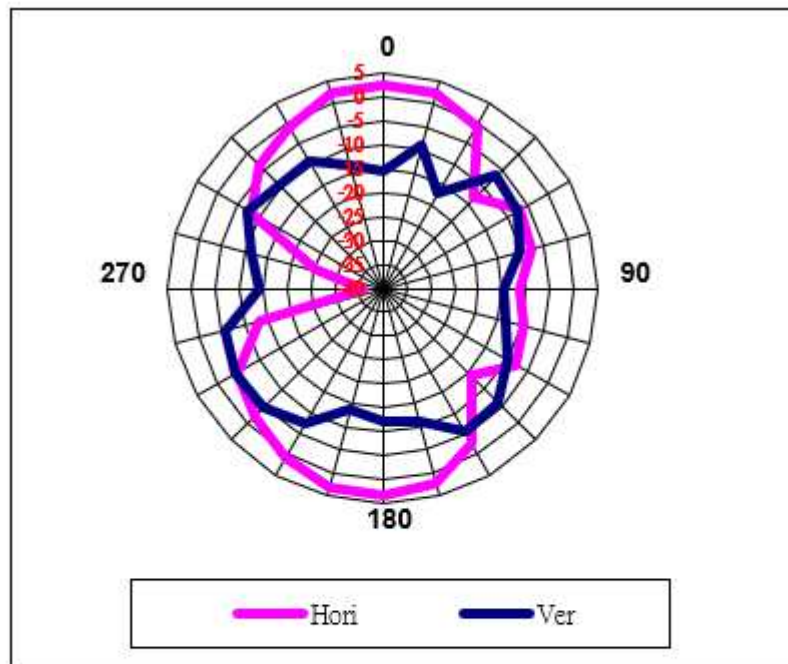
Section 3. Radiation characteristics of antennae Loaded in Host Platform

Ant : 2412 MHz



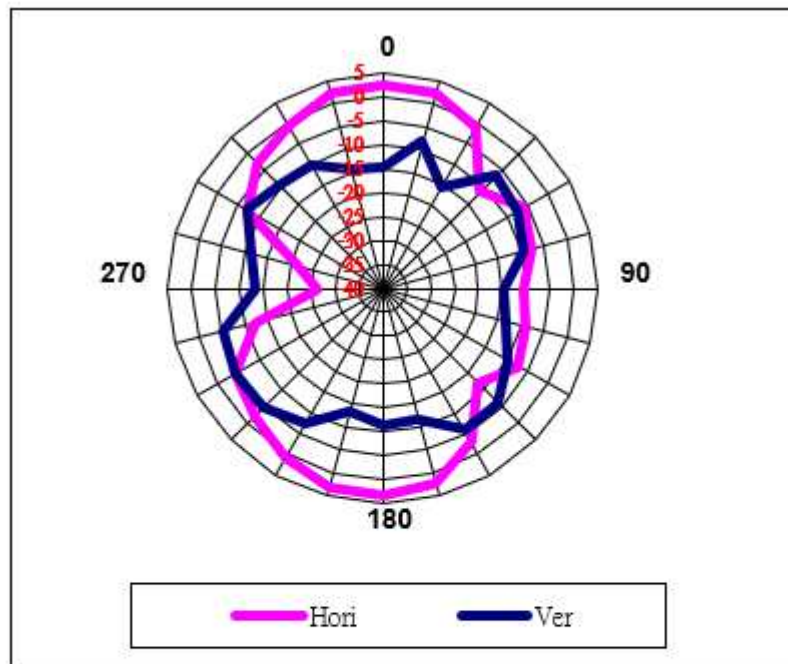
| | |
|----------------------------|-------|
| Frequency (MHz) | 2412 |
| Horizontal peak gain (dBi) | 3.14 |
| Vertical peak gain (dBi) | -4.59 |

Ant : 2422 MHz



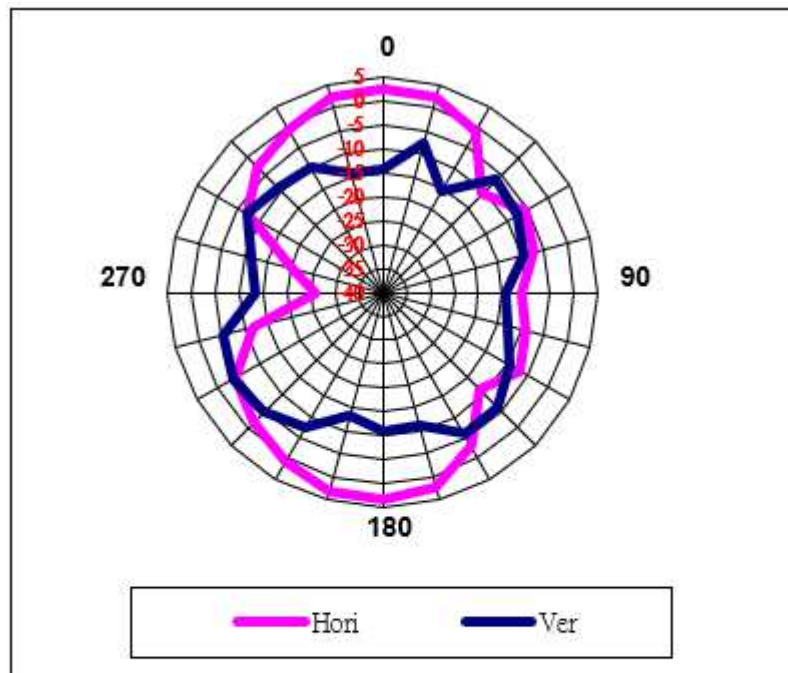
| | |
|----------------------------|-------|
| Frequency (MHz) | 2422 |
| Horizontal peak gain (dBi) | 3.14 |
| Vertical peak gain (dBi) | -4.30 |

Ant : 2437 MHz



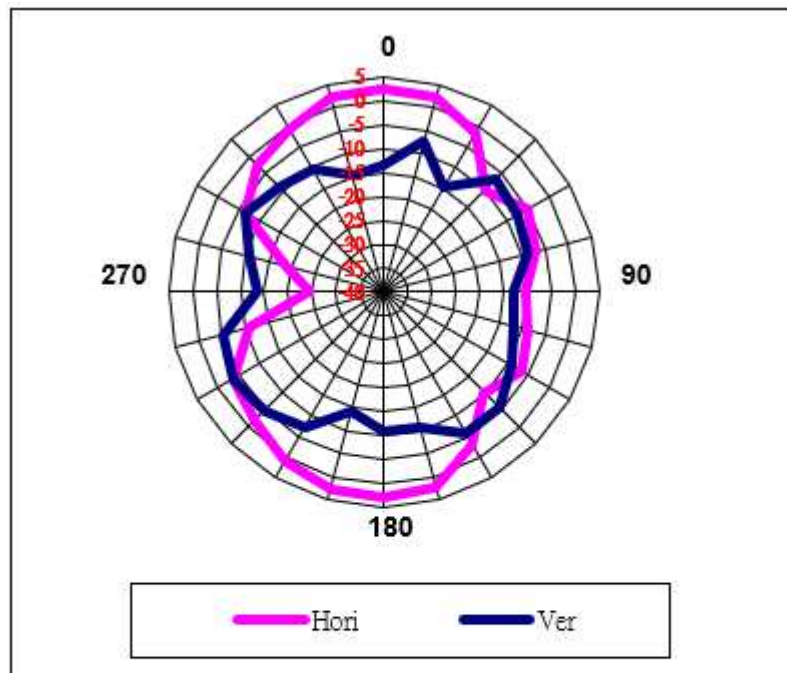
| | |
|----------------------------|-------|
| Frequency (MHz) | 2437 |
| Horizontal peak gain (dBi) | 3.14 |
| Vertical peak gain (dBi) | -4.09 |

Ant :2442 MHz



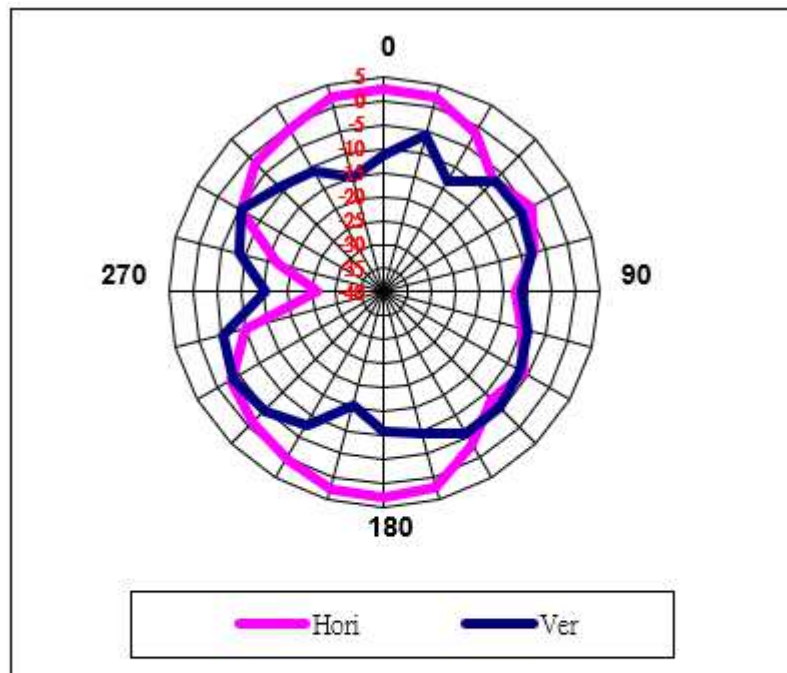
| | |
|----------------------------|-------|
| Frequency (MHz) | 2442 |
| Horizontal peak gain (dBi) | 3.22 |
| Vertical peak gain (dBi) | -3.96 |

Ant : 2452MHz



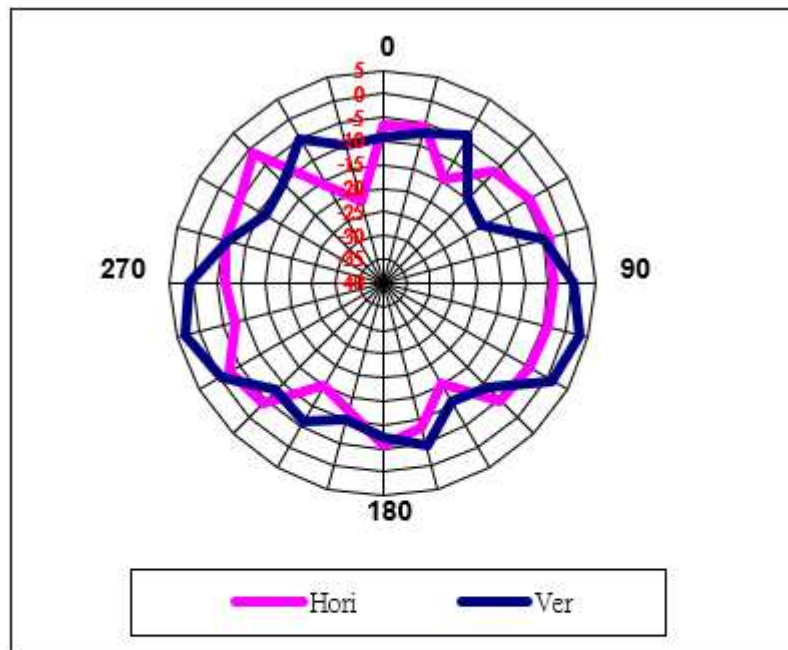
| | |
|----------------------------|-------|
| Frequency (MHz) | 2452 |
| Horizontal peak gain (dBi) | 3.18 |
| Vertical peak gain (dBi) | -3.86 |

Ant : 2484 MHz



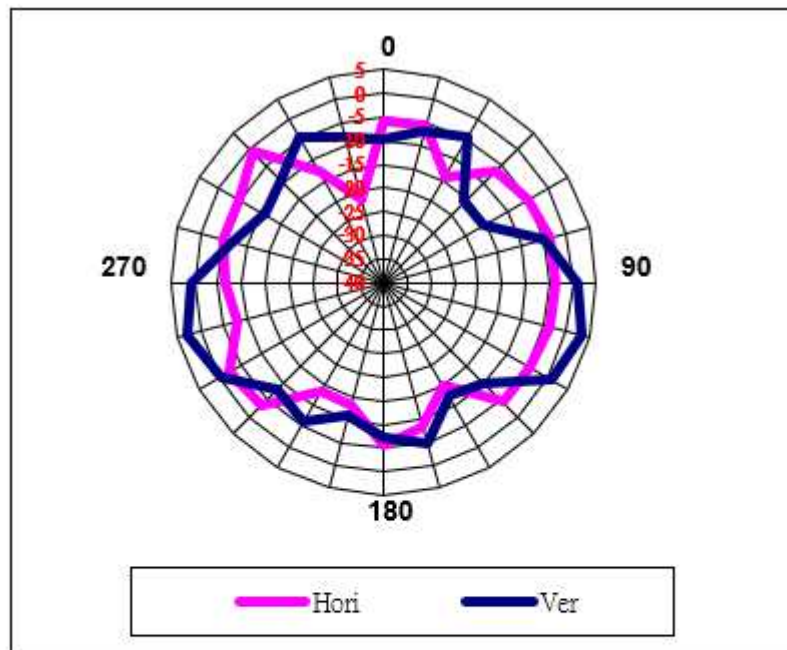
| | |
|----------------------------|-------|
| Frequency (MHz) | 2484 |
| Horizontal peak gain (dBi) | 3.12 |
| Vertical peak gain (dBi) | -3.54 |

Ant : 5150 MHz



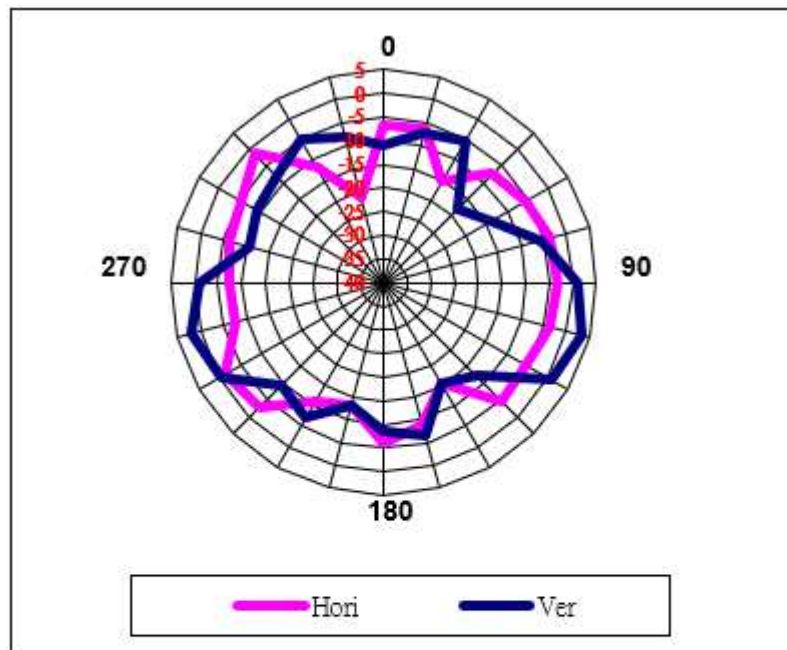
| | |
|----------------------------|-------|
| Frequency (MHz) | 5150 |
| Horizontal peak gain (dBi) | -1.21 |
| Vertical peak gain (dBi) | 3.21 |

Ant : 5180 MHz



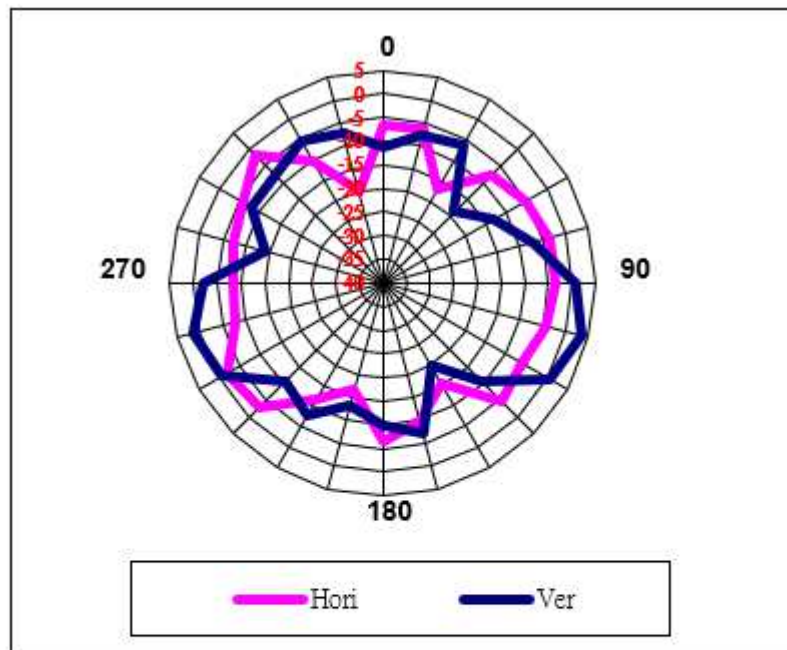
| | |
|----------------------------|-------|
| Frequency (MHz) | 5180 |
| Horizontal peak gain (dBi) | -0.88 |
| Vertical peak gain (dBi) | 3.35 |

Ant : 5250 MHz



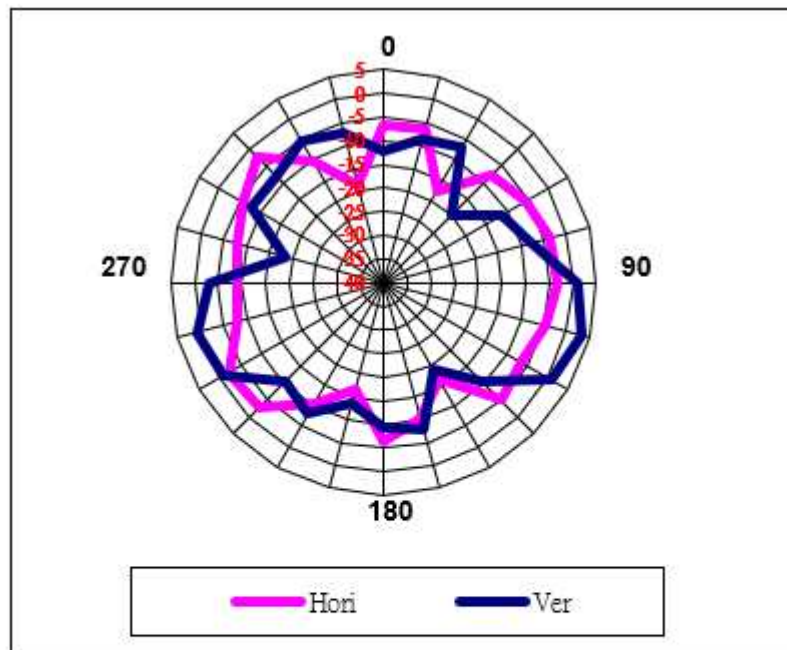
| | |
|----------------------------|-------|
| Frequency (MHz) | 5250 |
| Horizontal peak gain (dBi) | -1.39 |
| Vertical peak gain (dBi) | 3.19 |

Ant : 5320 MHz



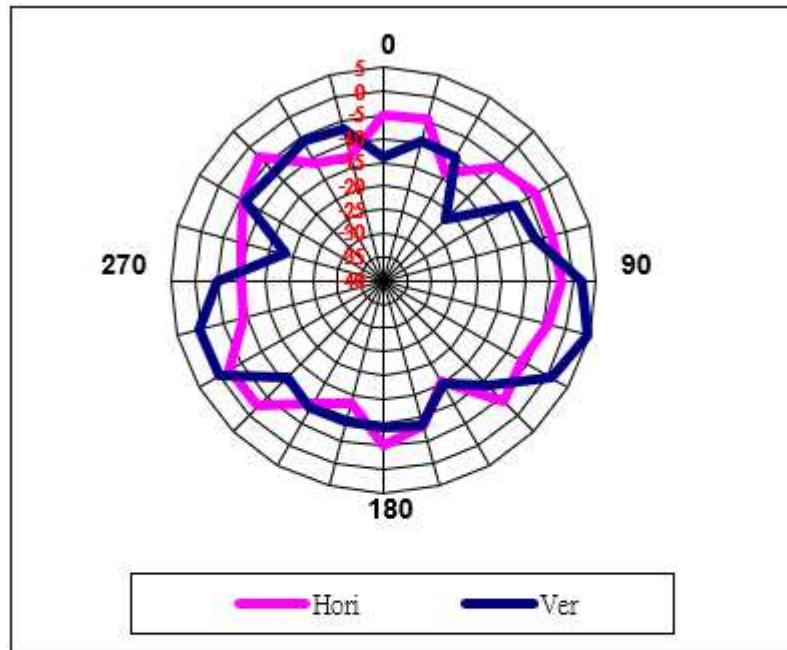
| | |
|----------------------------|-------|
| Frequency (MHz) | 5320 |
| Horizontal peak gain (dBi) | -1.99 |
| Vertical peak gain (dBi) | 3.37 |

Ant : 5350 MHz



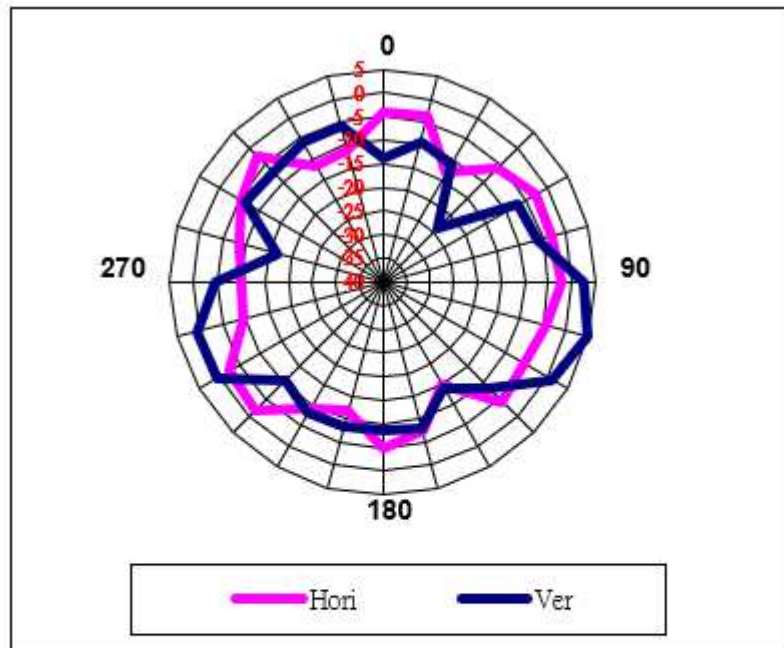
| | |
|----------------------------|-------|
| Frequency (MHz) | 5350 |
| Horizontal peak gain (dBi) | -2.07 |
| Vertical peak gain (dBi) | 3.42 |

Ant : 5470 MHz



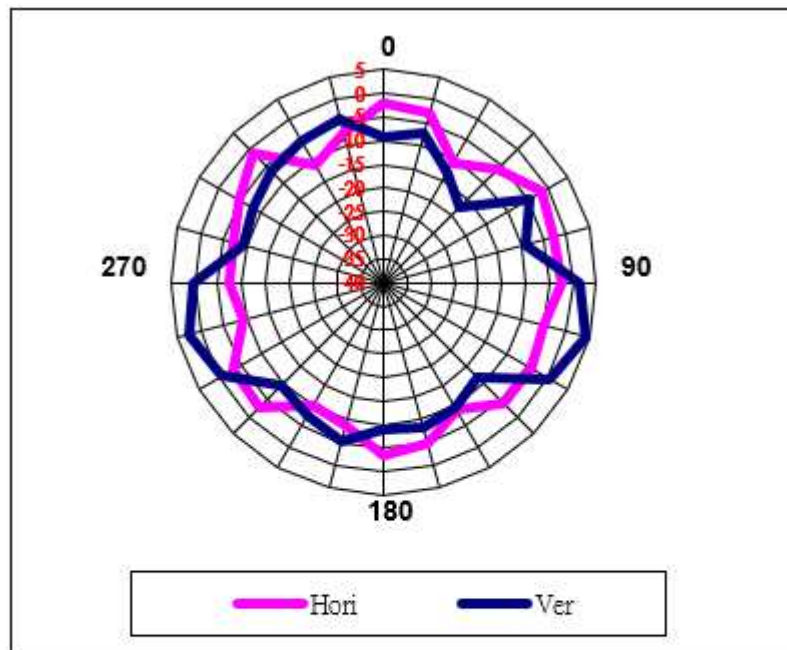
| | |
|----------------------------|-------|
| Frequency (MHz) | 5470 |
| Horizontal peak gain (dBi) | -2.34 |
| Vertical peak gain (dBi) | 4.46 |

Ant : 5500 MHz



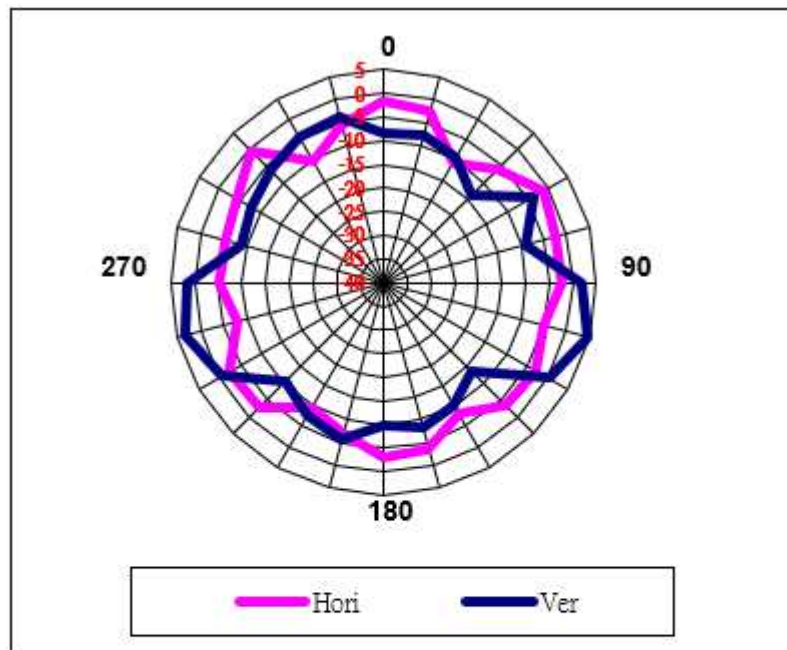
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|----------------------------|-------|
| Frequency (MHz) | 5500 |
| Horizontal peak gain (dBi) | -1.85 |
| Vertical peak gain (dBi) | 4.77 |

Ant : 5725 MHz



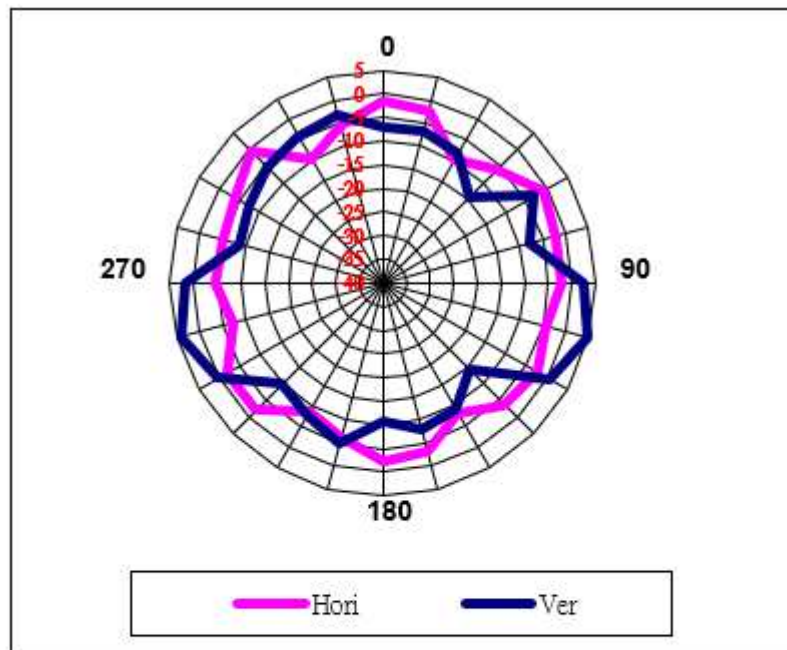
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|----------------------------|-------|
| Frequency (MHz) | 5725 |
| Horizontal peak gain (dBi) | -0.98 |
| Vertical peak gain (dBi) | 4.29 |

Ant : 5785 MHz



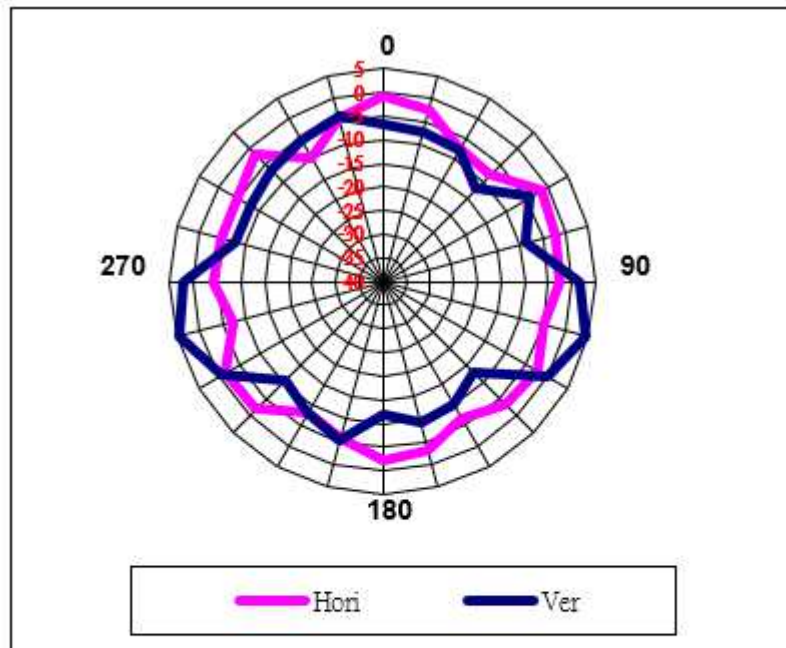
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|----------------------------|-------|
| Frequency (MHz) | 5785 |
| Horizontal peak gain (dBi) | -0.37 |
| Vertical peak gain (dBi) | 4.49 |

Ant : 5805 MHz



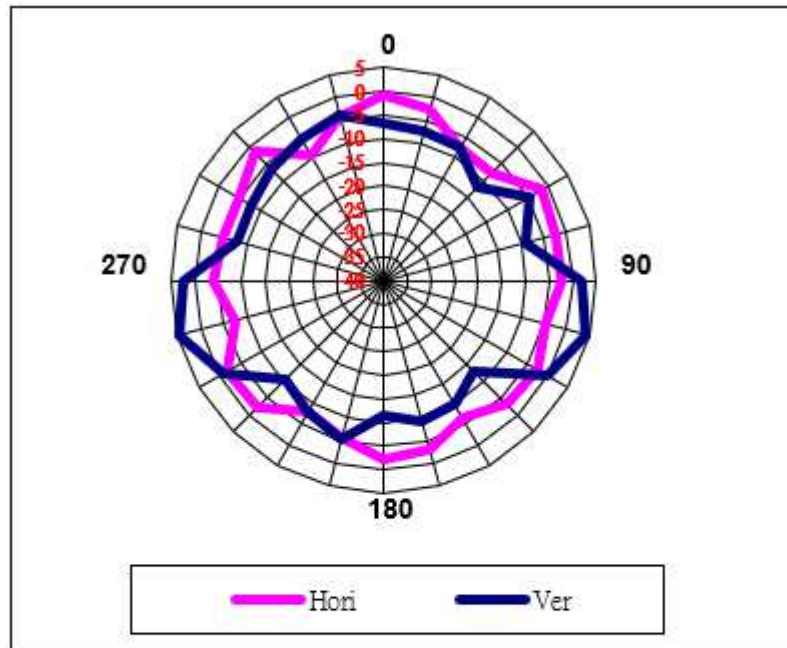
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|----------------------------|-------|
| Frequency (MHz) | 5805 |
| Horizontal peak gain (dBi) | -0.46 |
| Vertical peak gain (dBi) | 4.72 |

Ant : 5850 MHz



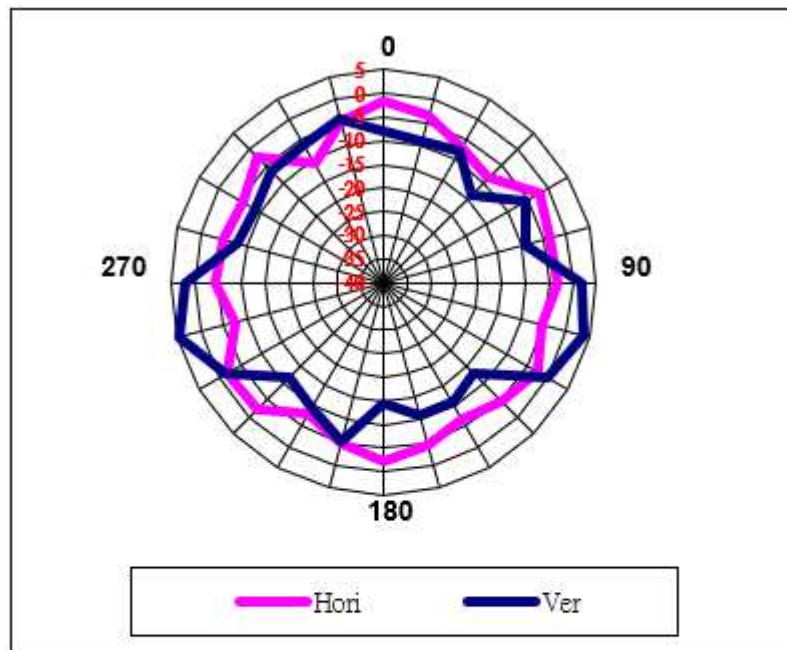
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|----------------------------|-------|
| Frequency (MHz) | 5850 |
| Horizontal peak gain (dBi) | -0.68 |
| Vertical peak gain (dBi) | 4.71 |

Ant : 5875 MHz



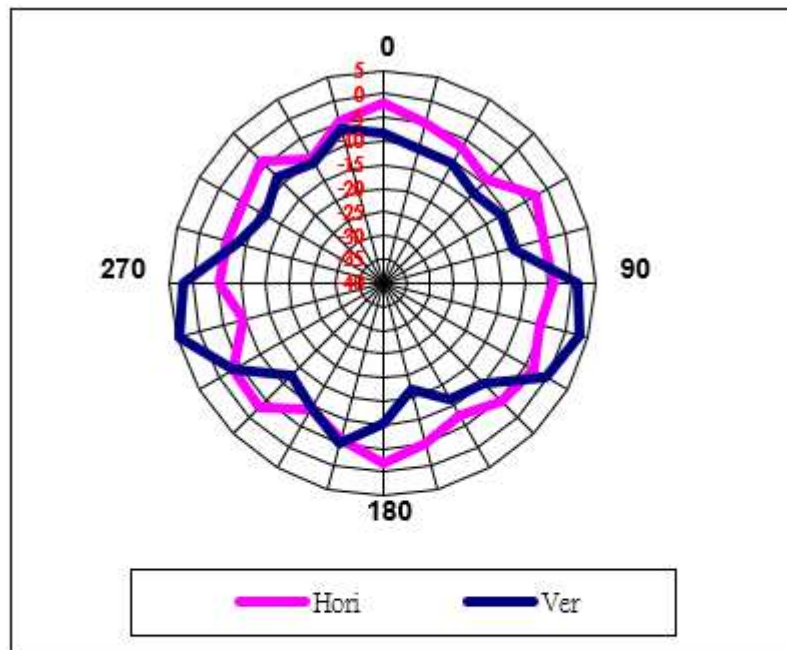
| | |
|----------------------------|-------|
| Frequency (MHz) | 5875 |
| Horizontal peak gain (dBi) | -0.78 |
| Vertical peak gain (dBi) | 4.64 |

Ant : 5925 MHz



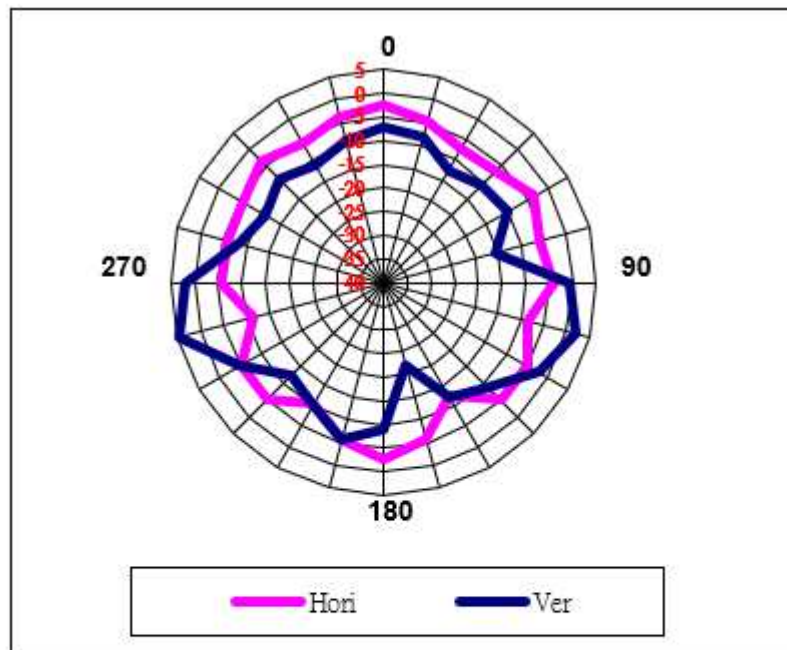
| | |
|----------------------------|-------|
| Frequency (MHz) | 5925 |
| Horizontal peak gain (dBi) | -1.54 |
| Vertical peak gain (dBi) | 4.71 |

Ant : 6085 MHz



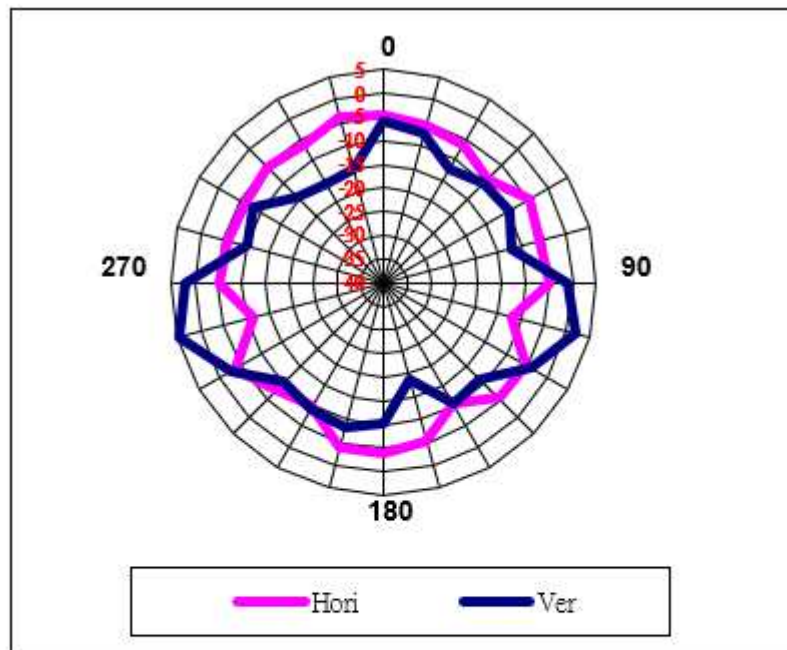
| | |
|----------------------------|-------|
| Frequency (MHz) | 6085 |
| Horizontal peak gain (dBi) | -1.86 |
| Vertical peak gain (dBi) | 4.75 |

Ant : 6245 MHz



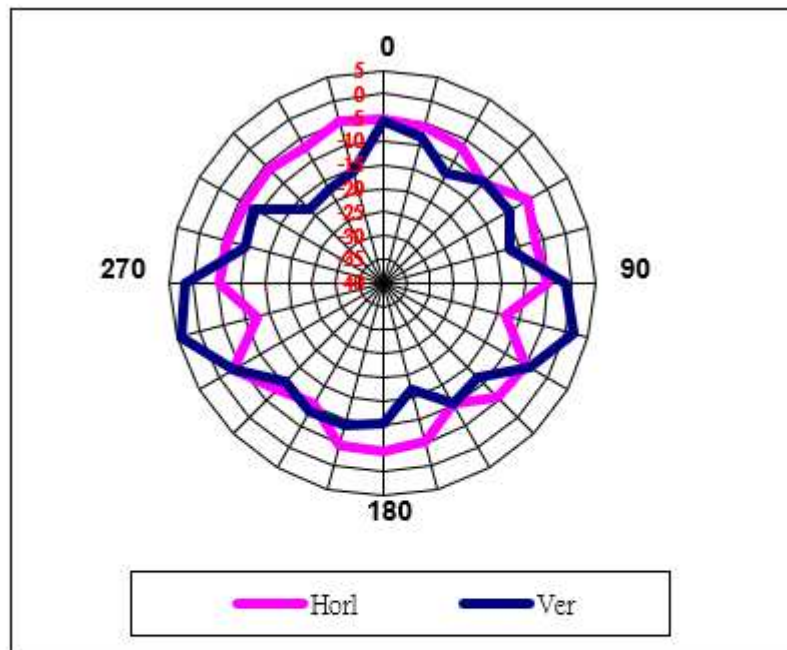
| | |
|----------------------------|-------|
| Frequency (MHz) | 6245 |
| Horizontal peak gain (dBi) | -2.29 |
| Vertical peak gain (dBi) | 4.74 |

Ant : 6405 MHz



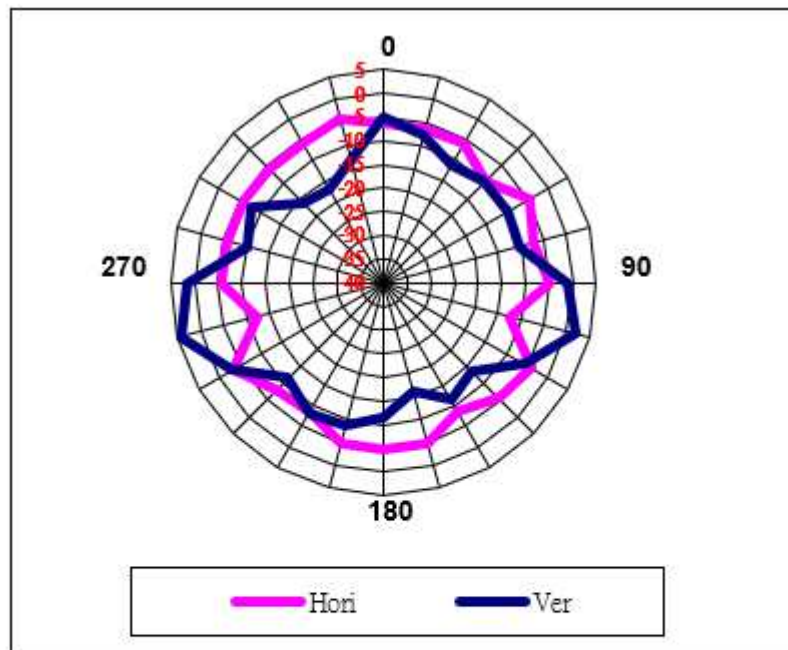
| | |
|----------------------------|-------|
| Frequency (MHz) | 6405 |
| Horizontal peak gain (dBi) | -3.69 |
| Vertical peak gain (dBi) | 4.70 |

Ant : 6425 MHz



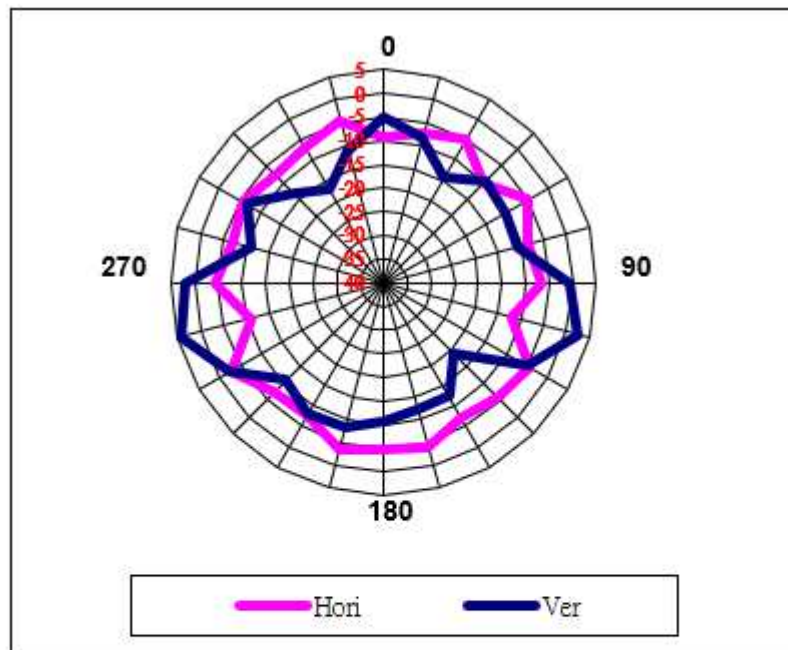
| | |
|----------------------------|-------|
| Frequency (MHz) | 6425 |
| Horizontal peak gain (dBi) | -3.63 |
| Vertical peak gain (dBi) | 4.25 |

Ant : 6465 MHz



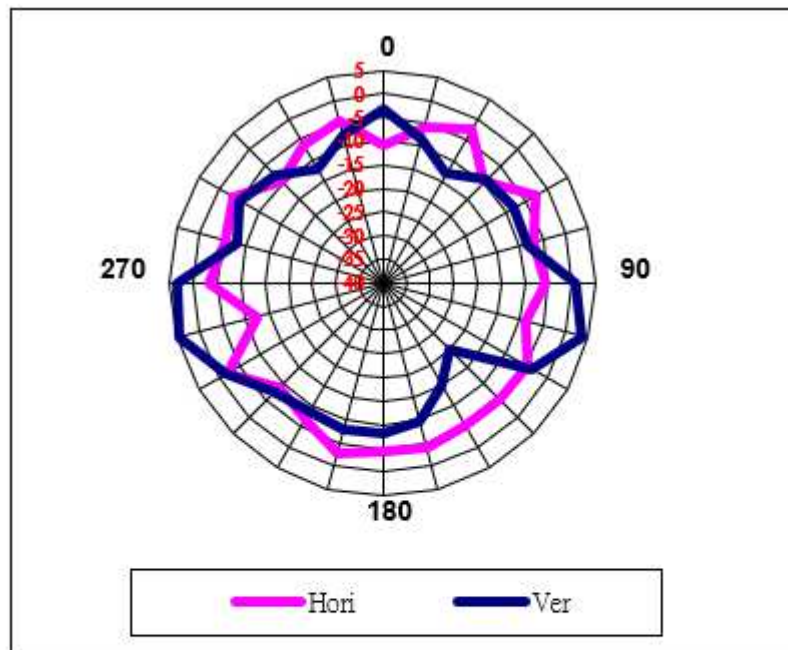
| | |
|----------------------------|-------|
| Frequency (MHz) | 6465 |
| Horizontal peak gain (dBi) | -3.32 |
| Vertical peak gain (dBi) | 4.29 |

Ant : 6525 MHz



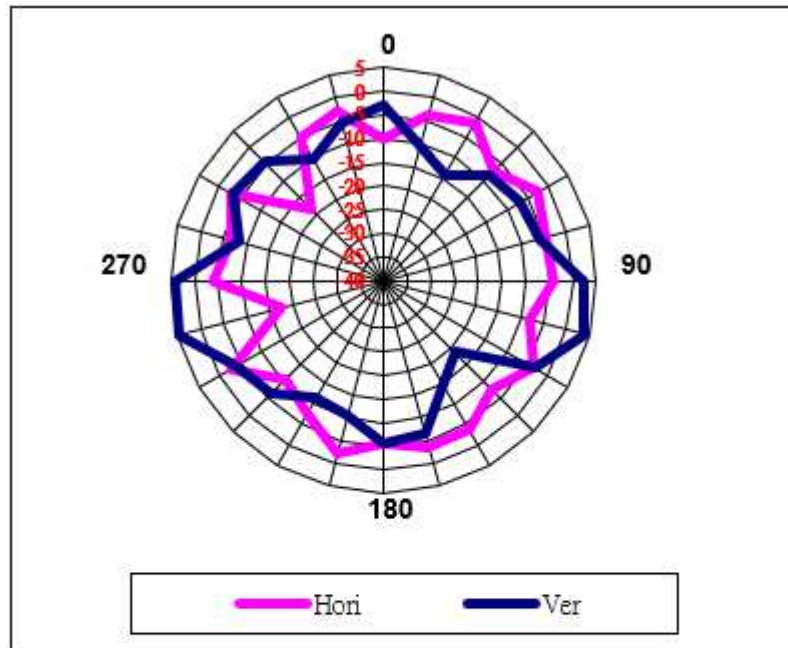
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|----------------------------|-------|
| Frequency (MHz) | 6525 |
| Horizontal peak gain (dBi) | -2.61 |
| Vertical peak gain (dBi) | 4.22 |

Ant : 6645 MHz



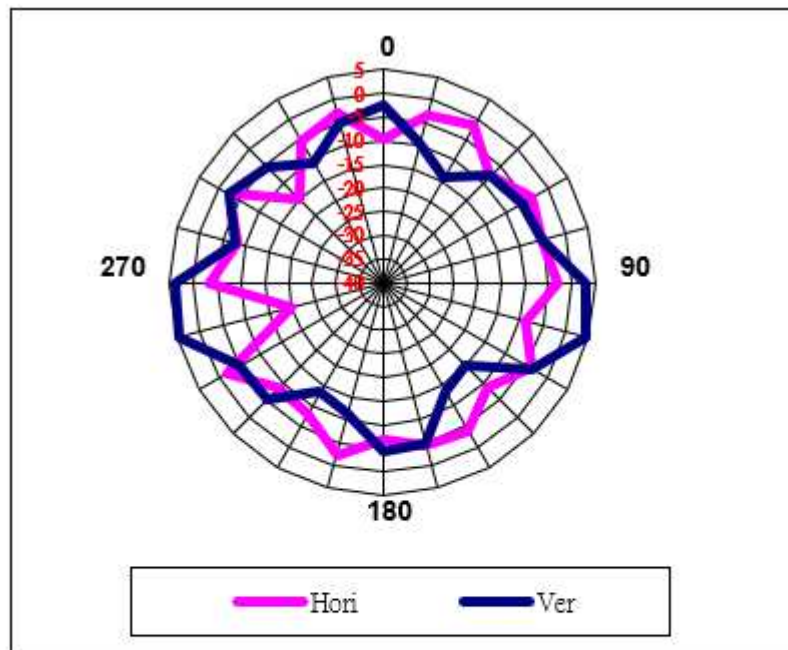
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|----------------------------|-------|
| Frequency (MHz) | 6645 |
| Horizontal peak gain (dBi) | -2.09 |
| Vertical peak gain (dBi) | 4.78 |

Ant : 6795 MHz



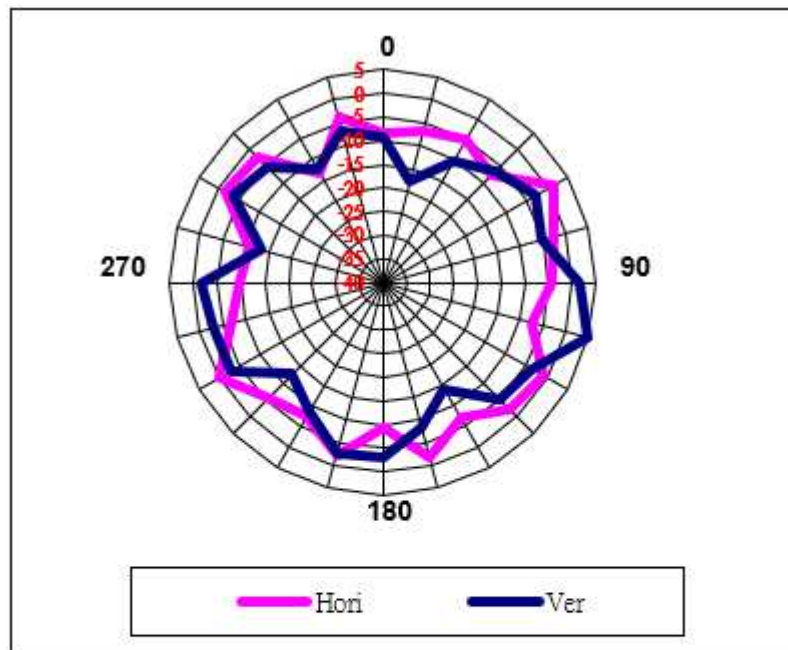
| | |
|----------------------------|-------|
| Frequency (MHz) | 6795 |
| Horizontal peak gain (dBi) | -1.37 |
| Vertical peak gain (dBi) | 4.81 |

Ant : 6875 MHz



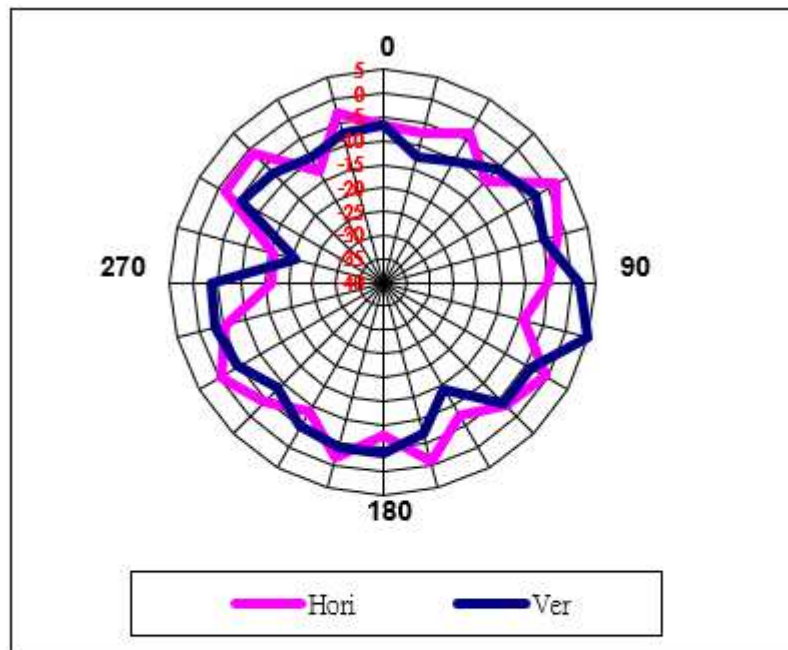
| | |
|----------------------------|-------|
| Frequency (MHz) | 6875 |
| Horizontal peak gain (dBi) | -1.57 |
| Vertical peak gain (dBi) | 4.71 |

Ant : 6975 MHz



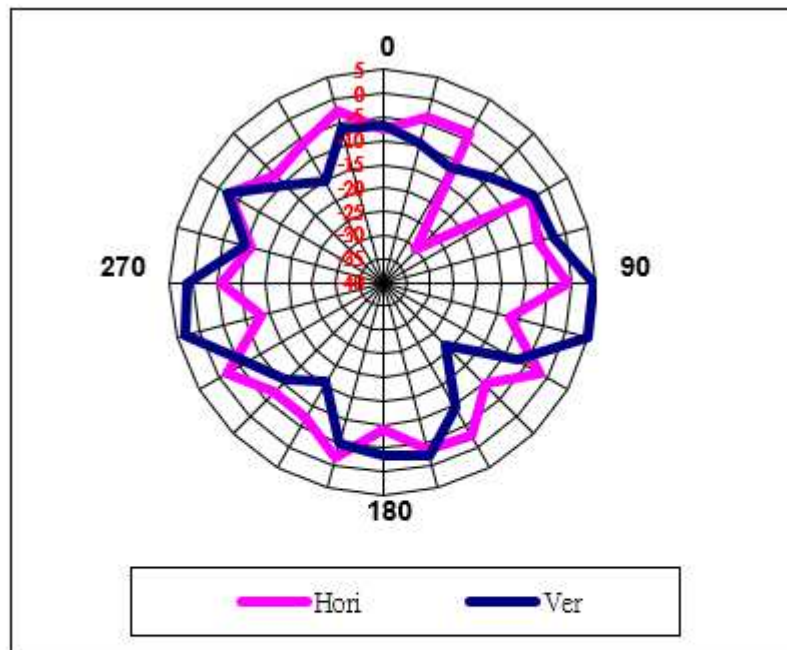
| | |
|----------------------------|------|
| Frequency (MHz) | 6975 |
| Horizontal peak gain (dBi) | 1.46 |
| Vertical peak gain (dBi) | 4.74 |

Ant : 7095 MHz



| | |
|----------------------------|------|
| Frequency (MHz) | 7095 |
| Horizontal peak gain (dBi) | 2.10 |
| Vertical peak gain (dBi) | 4.74 |

Ant : 7125 MHz



| | |
|----------------------------|-------|
| Frequency (MHz) | 7125 |
| Horizontal peak gain (dBi) | -0.79 |
| Vertical peak gain (dBi) | 4.71 |