

# APPROVAL SHEET

**Customer Name:** *Compal Electronics, Inc.*

**Date:** 2021/01/28

**Doc. Version:** AO

<b>OEM P/N</b>	
<b>HLN P/N</b>	<b>260-25084</b>
<b>Description</b>	<b>Monopole Antenna</b>
<b>Version</b>	

<b>Provided By Hong-Lin Technology</b>	<b>Reviewed By Hong-Lin Technology</b>	<b>Approved By Customer</b>

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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

## 2.Revision History

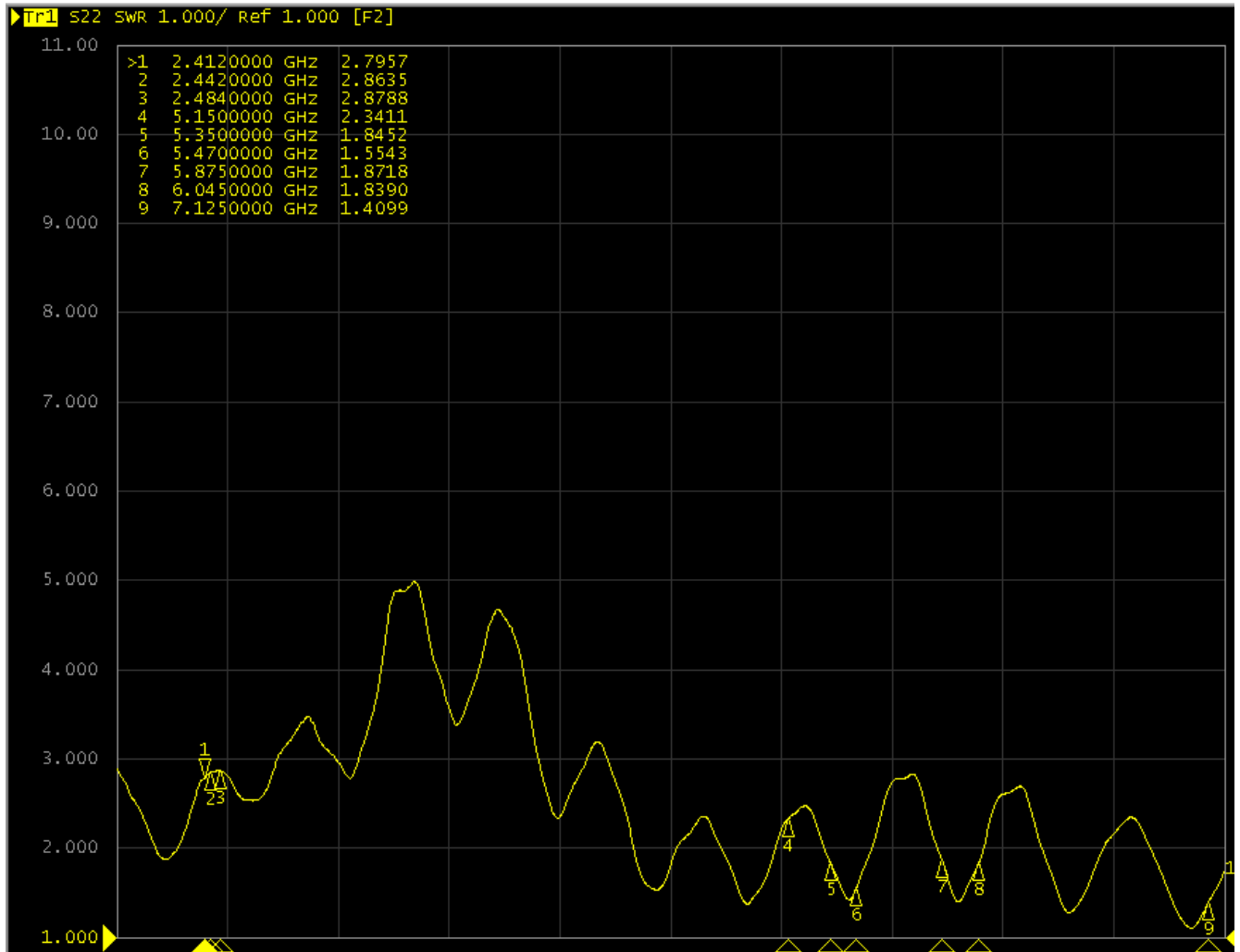
Date	Version	Revision History
2021/01/21	A0	New Release

### 3.2 Antenna Material List

4.		Monopole_ANT_PCB W135*L295 T=0.4MM (金安國紀)	1	
3.		Monopole_ANT_Cable $\phi$ 1.13 LOW LOSS (White) (FEP)	1	神宇
2.		$\phi$ 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



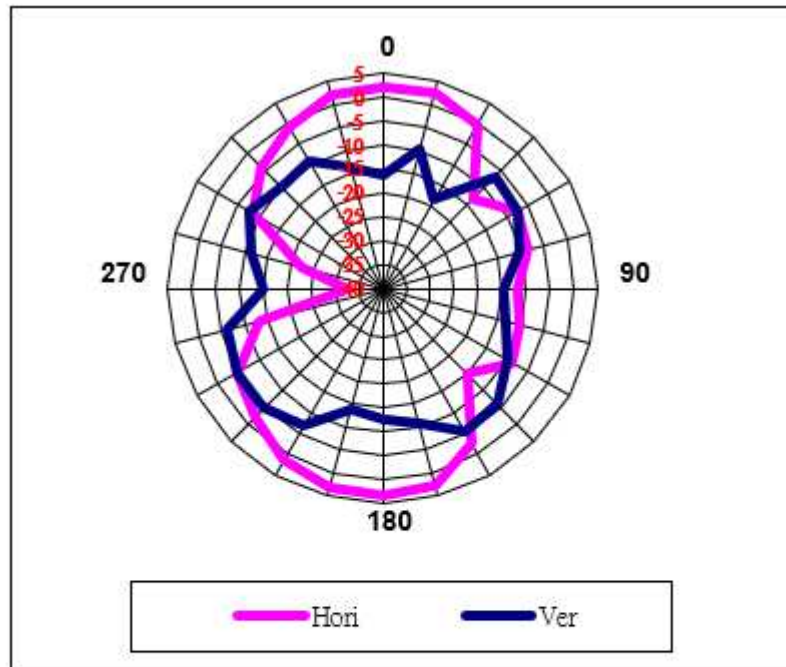
## 4.2 Antenna Pattern

**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

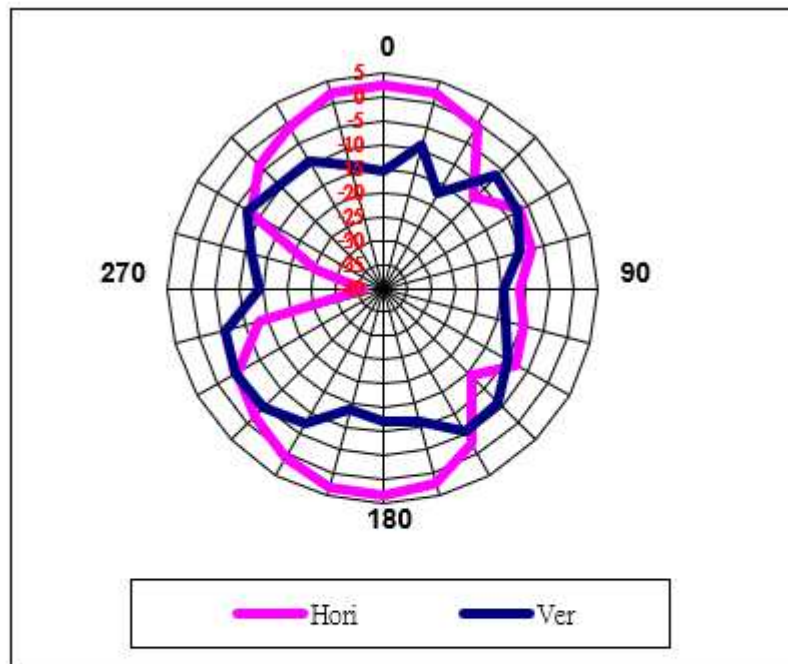
Ant : 2412 MHz



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

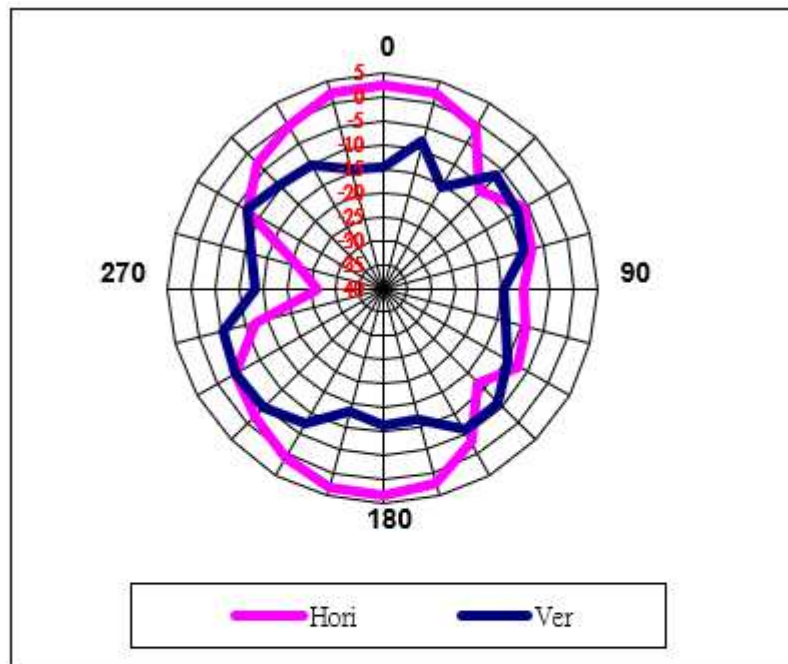


Ant : 2422 MHz



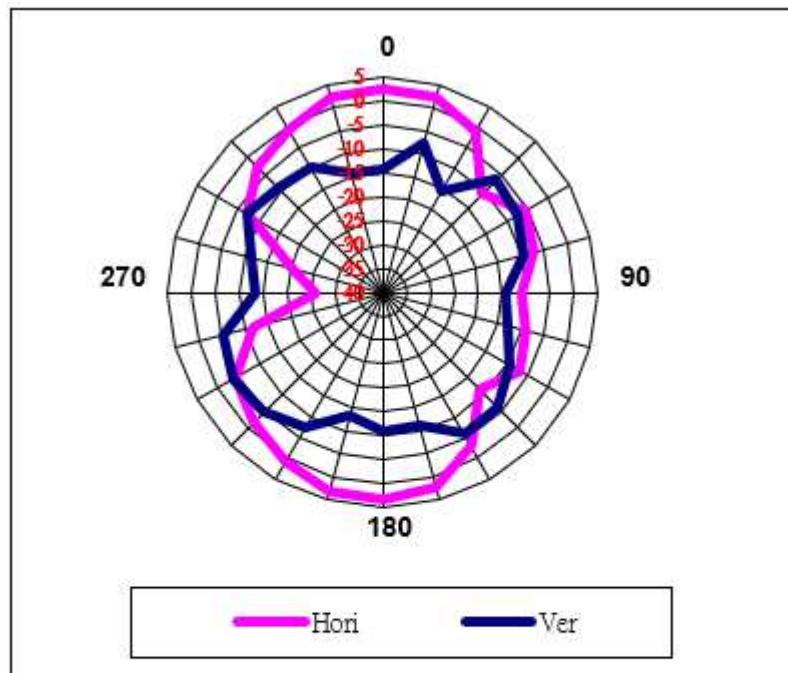
Frequency (MHz)	2422
Horizontal peak gain (dBi)	3.14
Vertical peak gain (dBi)	-4.30

Ant : 2437 MHz



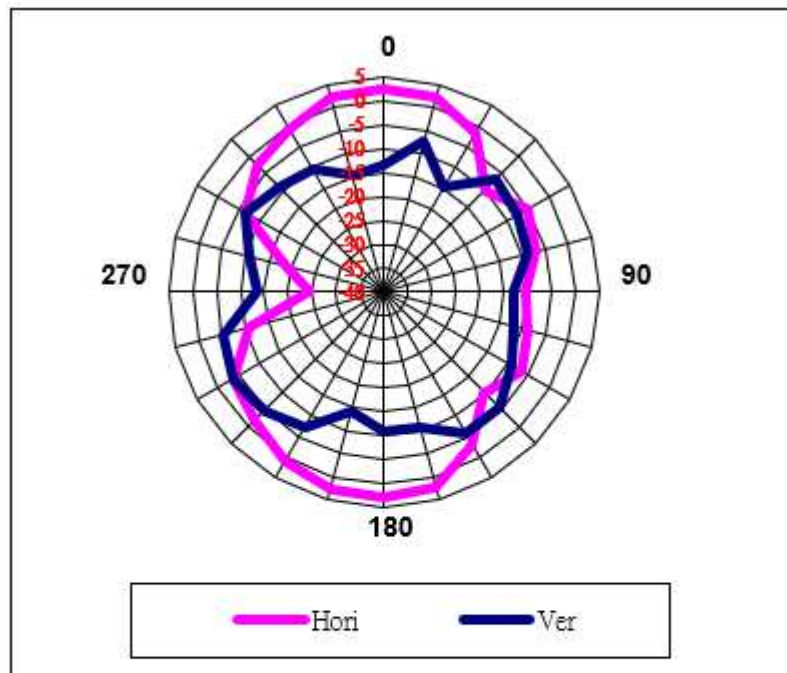
Frequency (MHz)	2437
Horizontal peak gain (dBi)	3.14
Vertical peak gain (dBi)	-4.09

Ant :2442 MHz



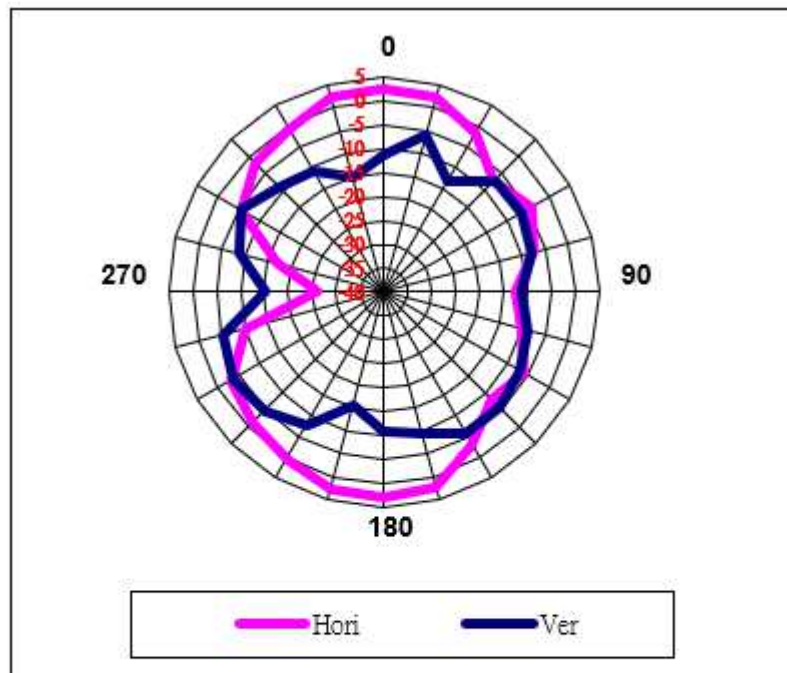
Frequency (MHz)	2442
Horizontal peak gain (dBi)	3.22
Vertical peak gain (dBi)	-3.96

Ant : 2452MHz



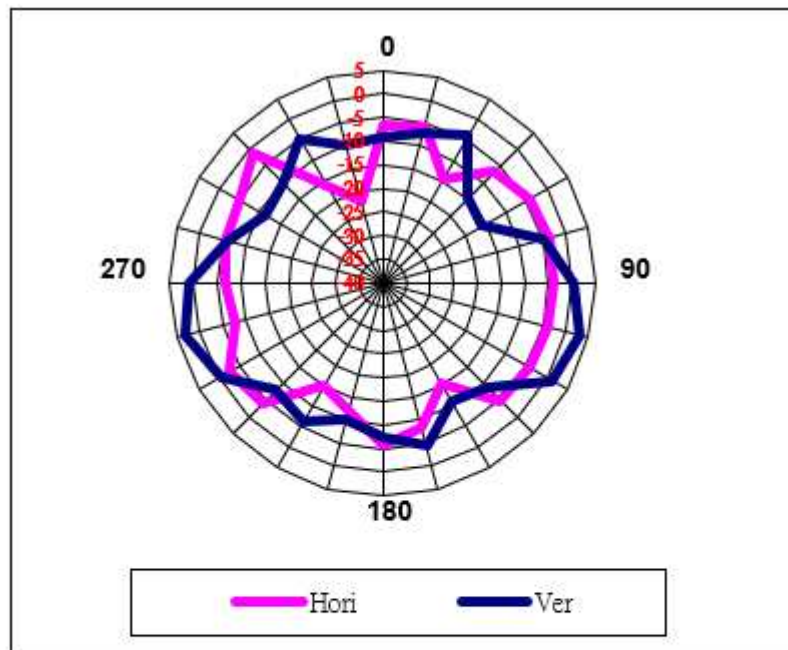
Frequency (MHz)	2452
Horizontal peak gain (dBi)	3.18
Vertical peak gain (dBi)	-3.86

Ant : 2484 MHz



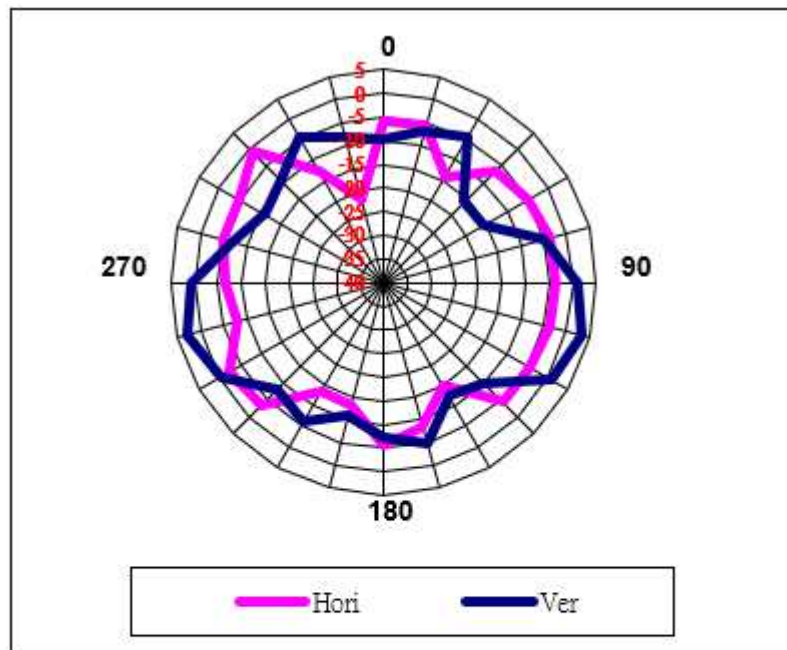
Frequency (MHz)	2484
Horizontal peak gain (dBi)	3.12
Vertical peak gain (dBi)	-3.54

Ant : 5150 MHz



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

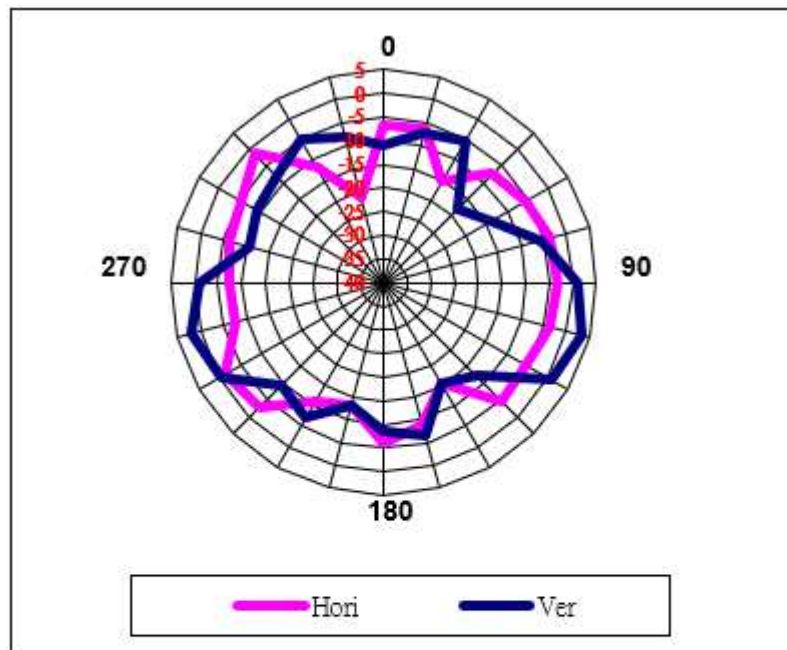
Ant : 5180 MHz



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



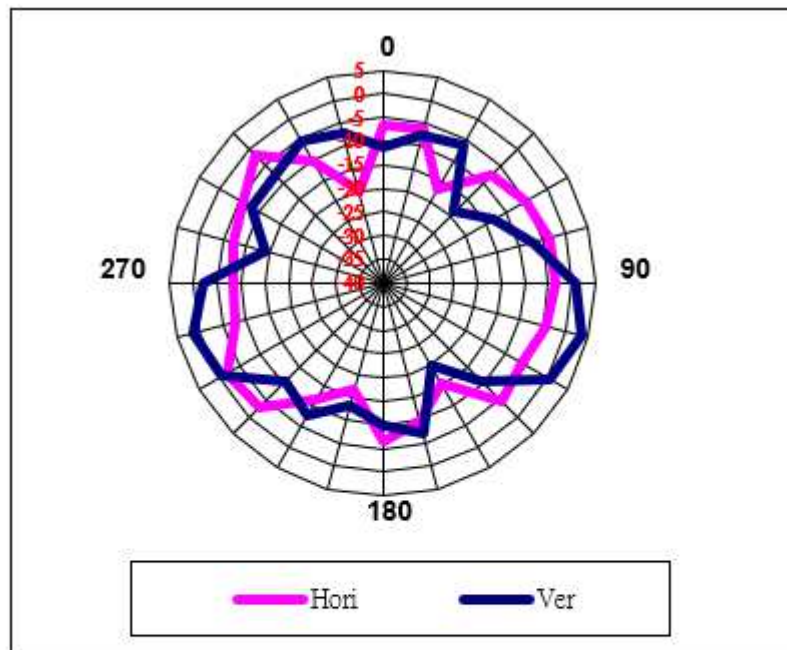
Ant : 5250 MHz



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

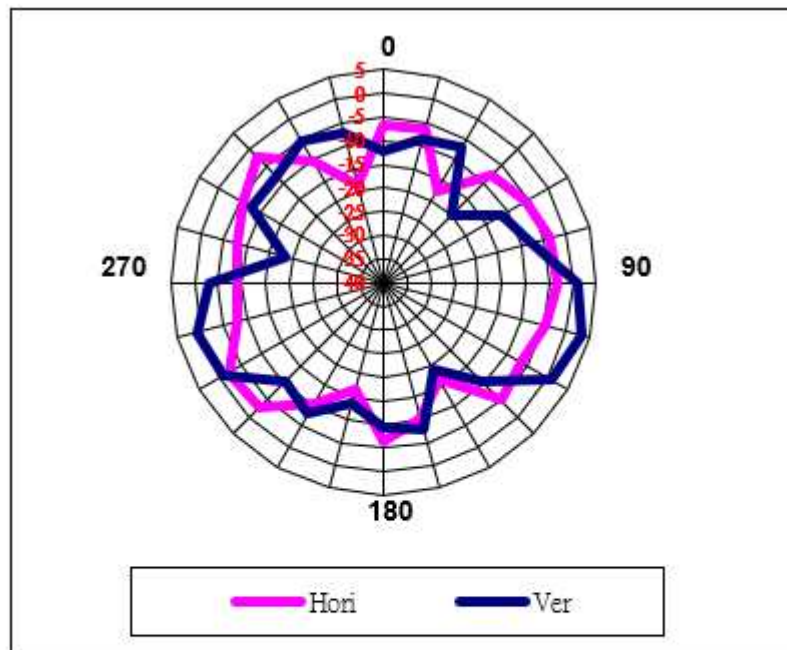


Ant : 5320 MHz



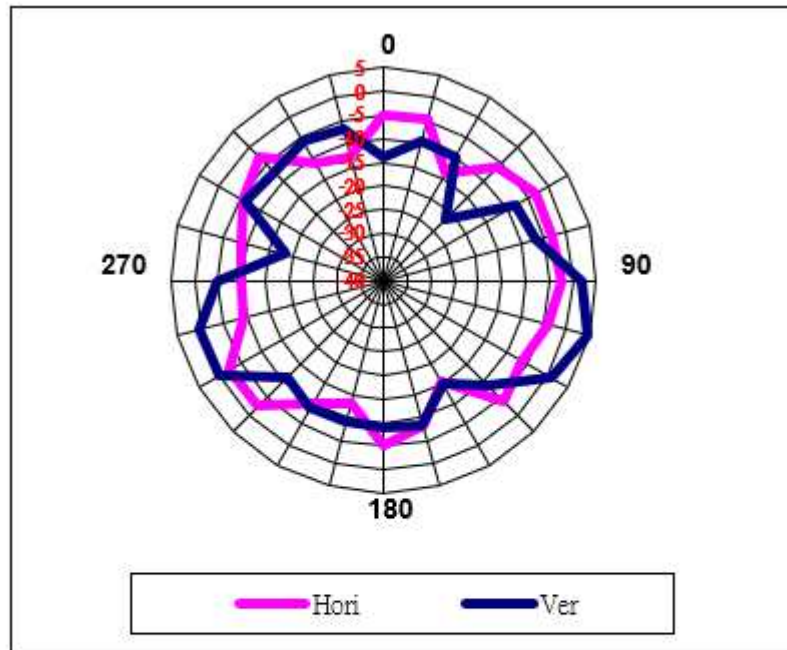
Frequency (MHz)	5320
Horizontal peak gain (dBi)	-1.99
Vertical peak gain (dBi)	3.37

Ant : 5350 MHz



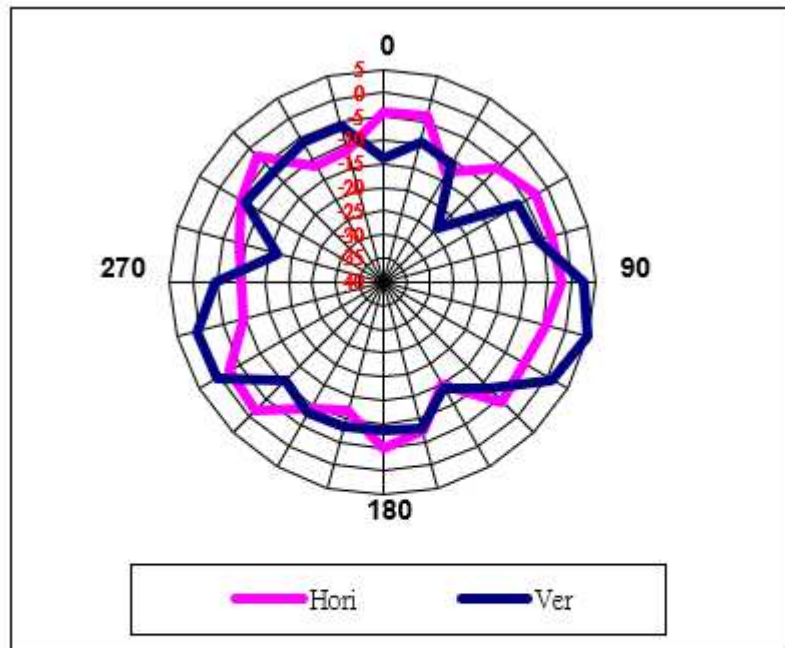
Frequency (MHz)	5350
Horizontal peak gain (dBi)	-2.07
Vertical peak gain (dBi)	3.42

Ant : 5470 MHz



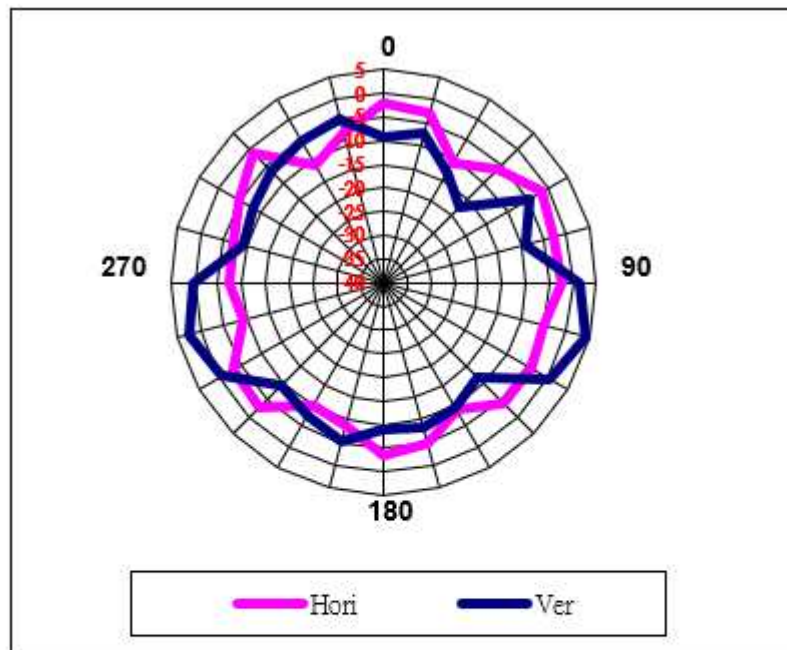
Frequency (MHz)	5470
Horizontal peak gain (dBi)	-2.34
Vertical peak gain (dBi)	4.46

Ant : 5500 MHz



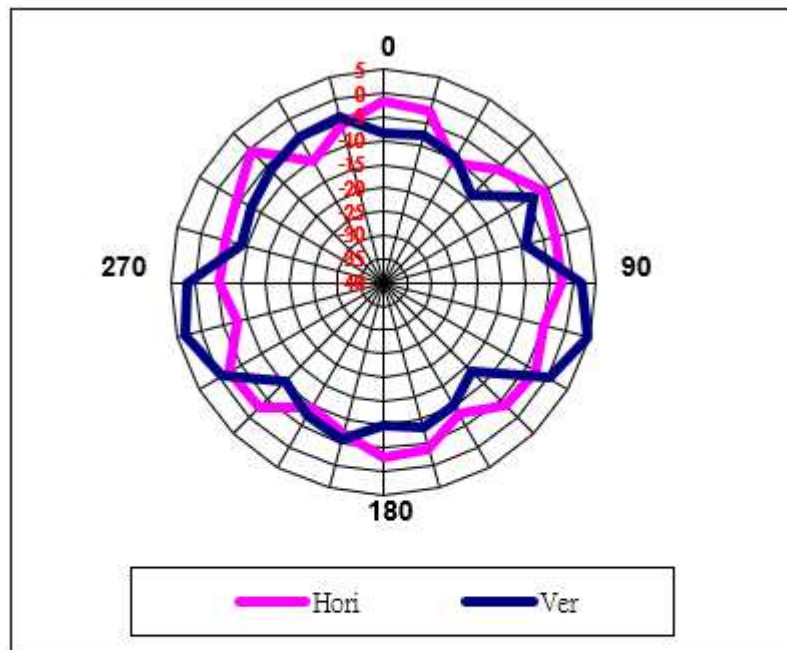
Frequency (MHz)	5500
Horizontal peak gain (dBi)	-1.85
Vertical peak gain (dBi)	4.77

Ant : 5725 MHz



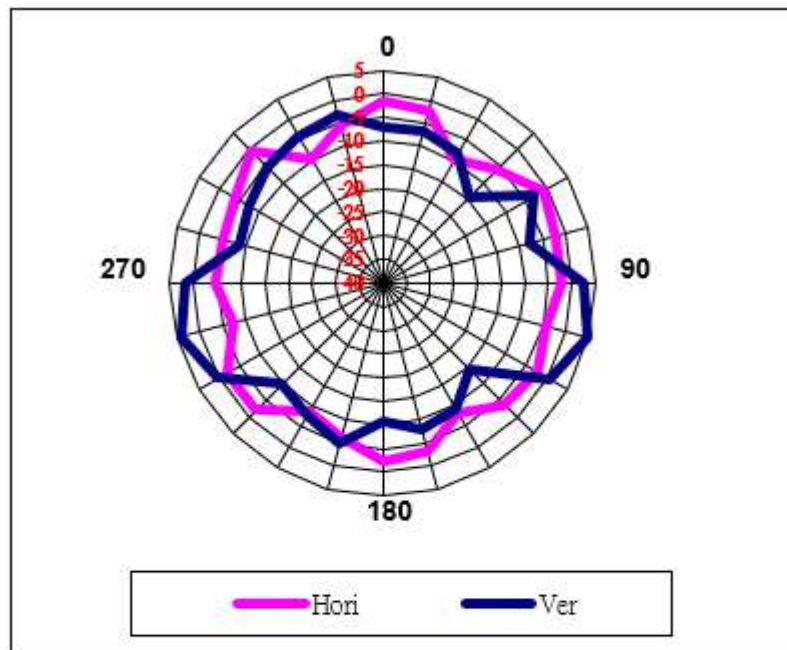
Frequency (MHz)	5725
Horizontal peak gain (dBi)	-0.98
Vertical peak gain (dBi)	4.29

Ant : 5785 MHz



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

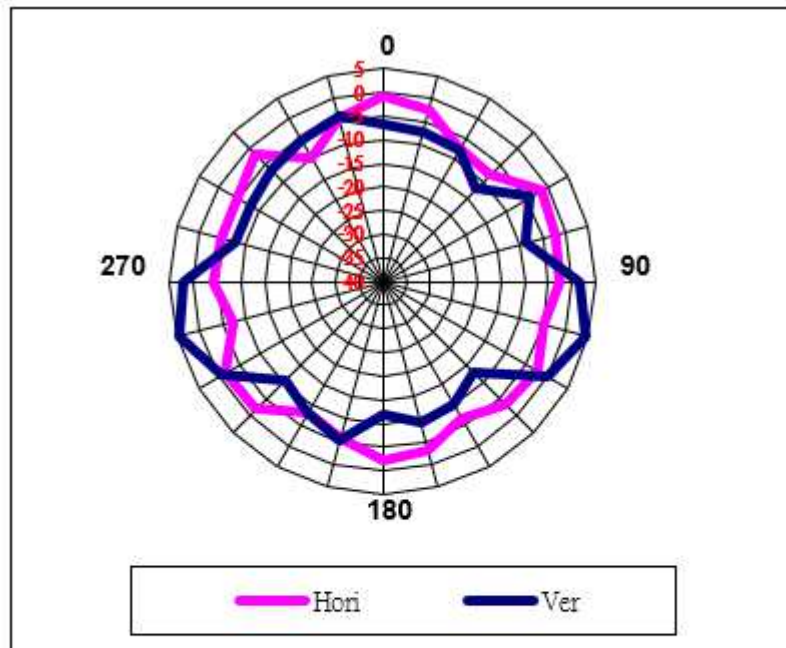
Ant : 5805 MHz



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



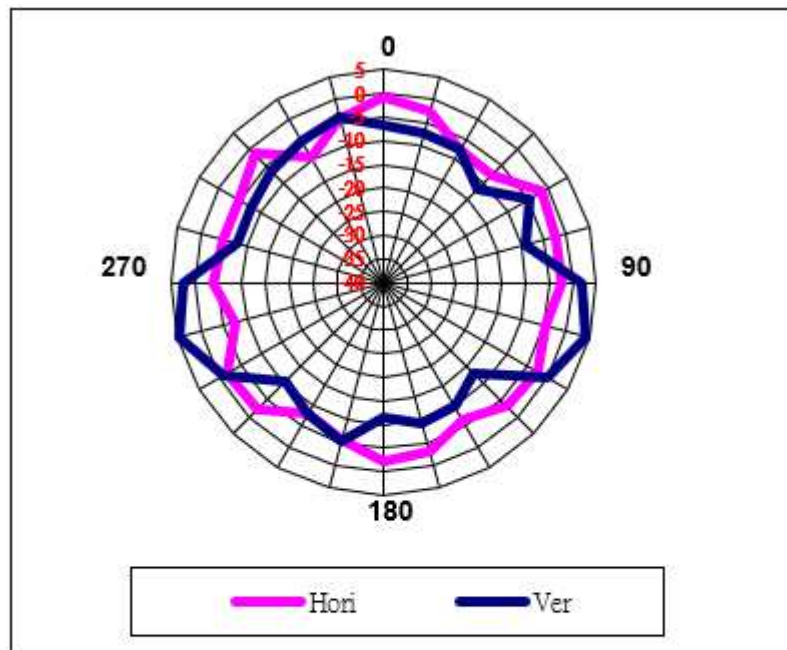
Ant : 5850 MHz



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

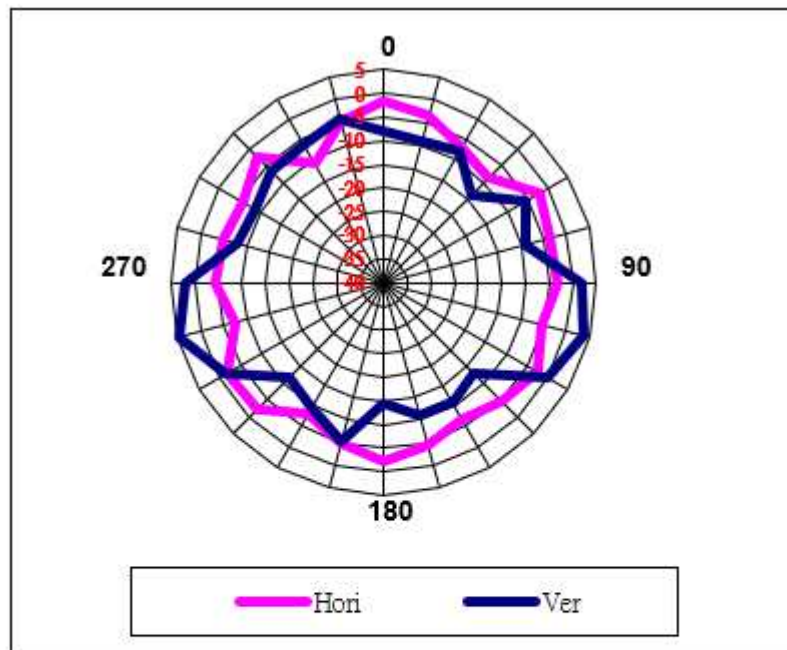


Ant : 5875 MHz



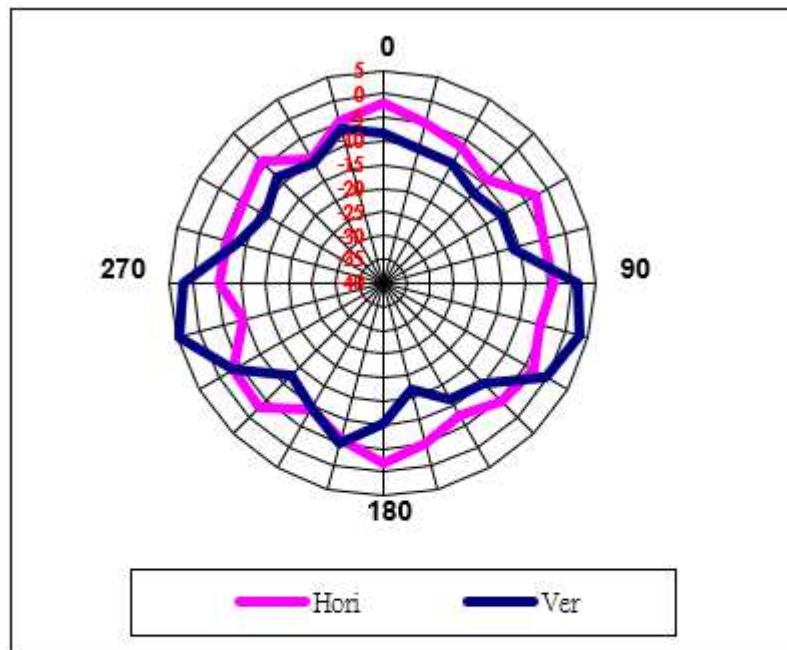
Frequency (MHz)	5875
Horizontal peak gain (dBi)	-0.78
Vertical peak gain (dBi)	4.64

Ant : 5925 MHz



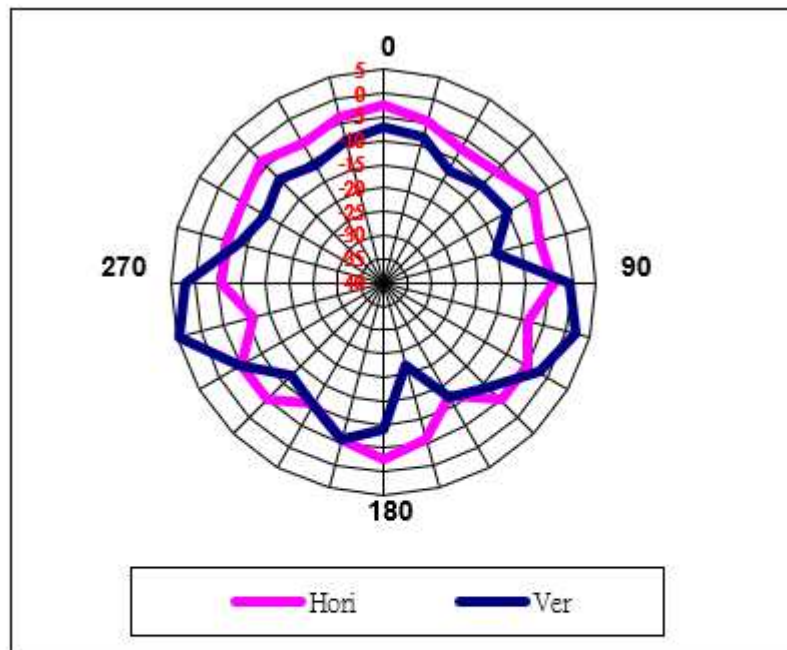
Frequency (MHz)	5925
Horizontal peak gain (dBi)	-1.54
Vertical peak gain (dBi)	4.71

Ant : 6085 MHz



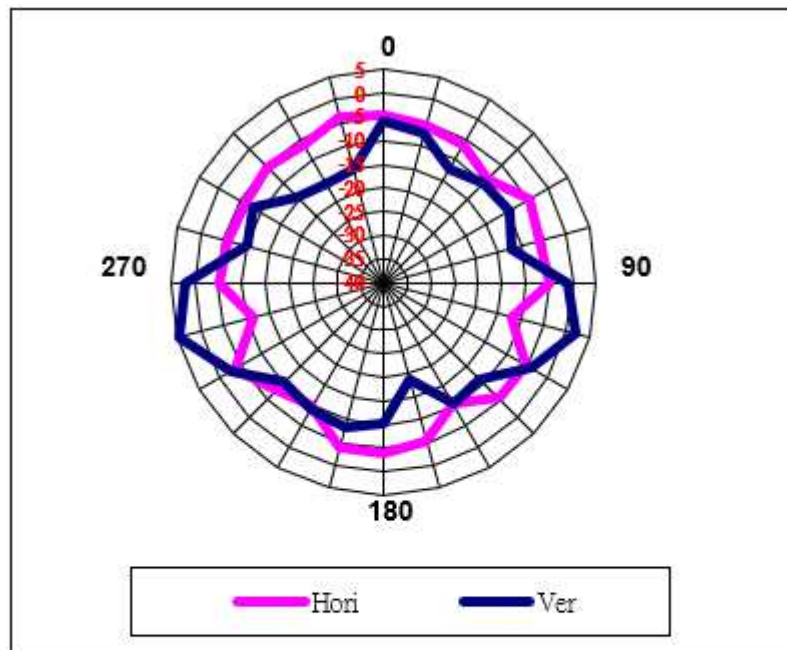
Frequency (MHz)	6085
Horizontal peak gain (dBi)	-1.86
Vertical peak gain (dBi)	4.75

Ant : 6245 MHz



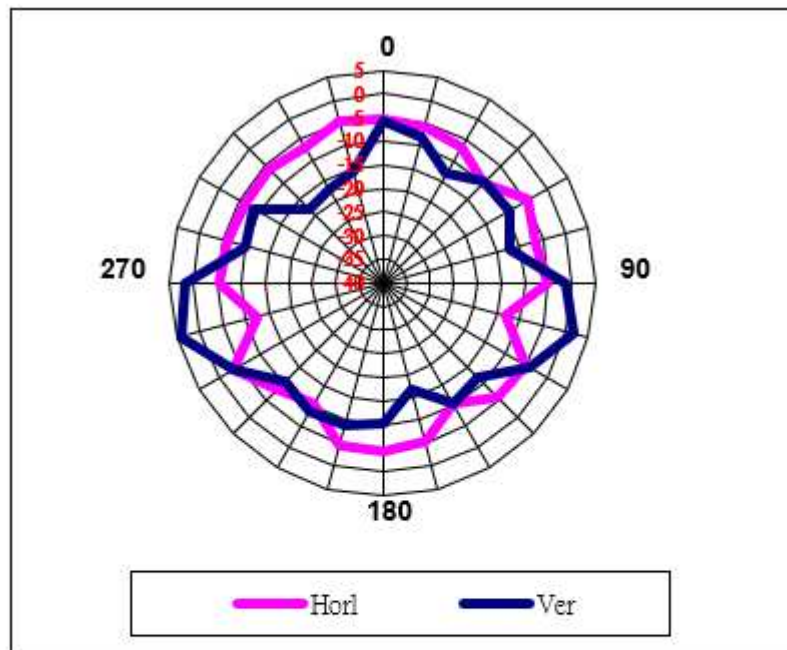
Frequency (MHz)	6245
Horizontal peak gain (dBi)	-2.29
Vertical peak gain (dBi)	4.74

Ant : 6405 MHz



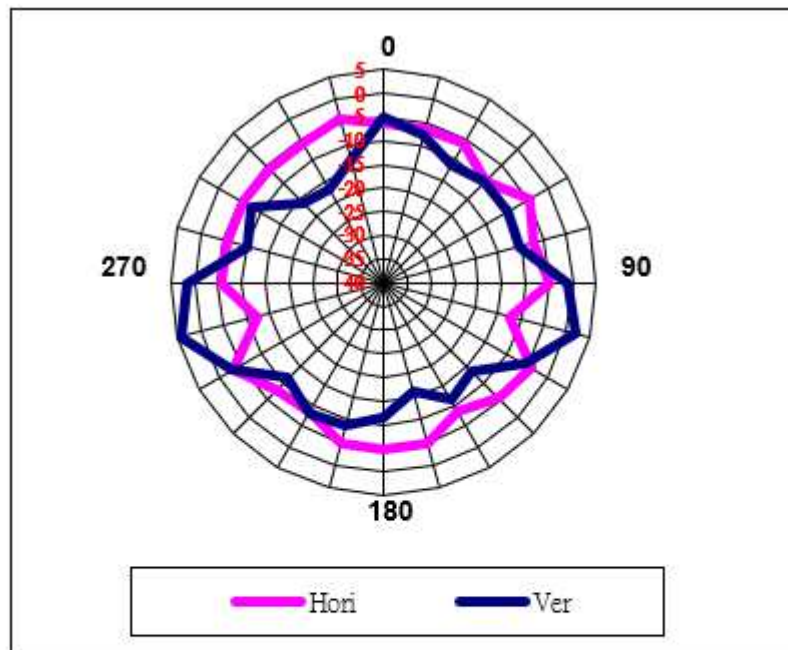
Frequency (MHz)	6405
Horizontal peak gain (dBi)	-3.69
Vertical peak gain (dBi)	4.70

Ant : 6425 MHz



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

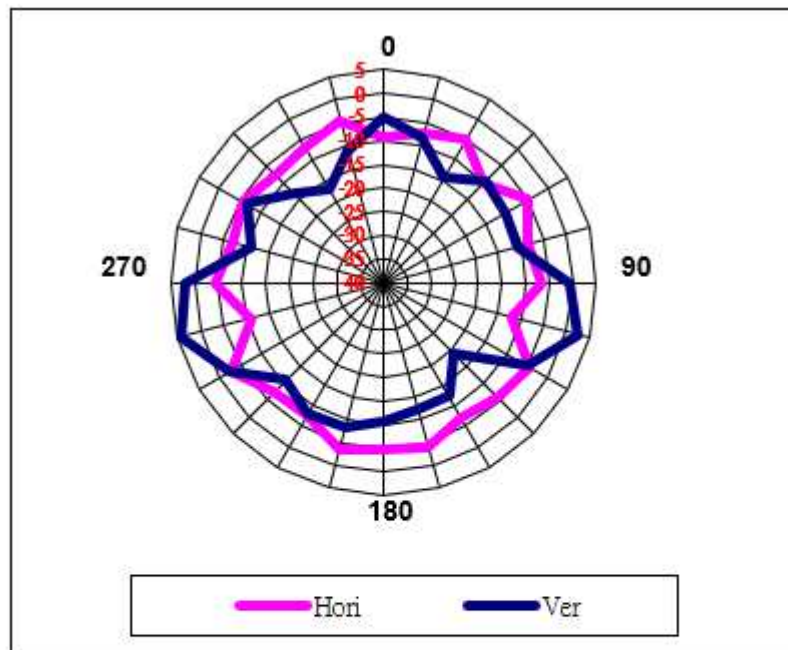
Ant : 6465 MHz



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



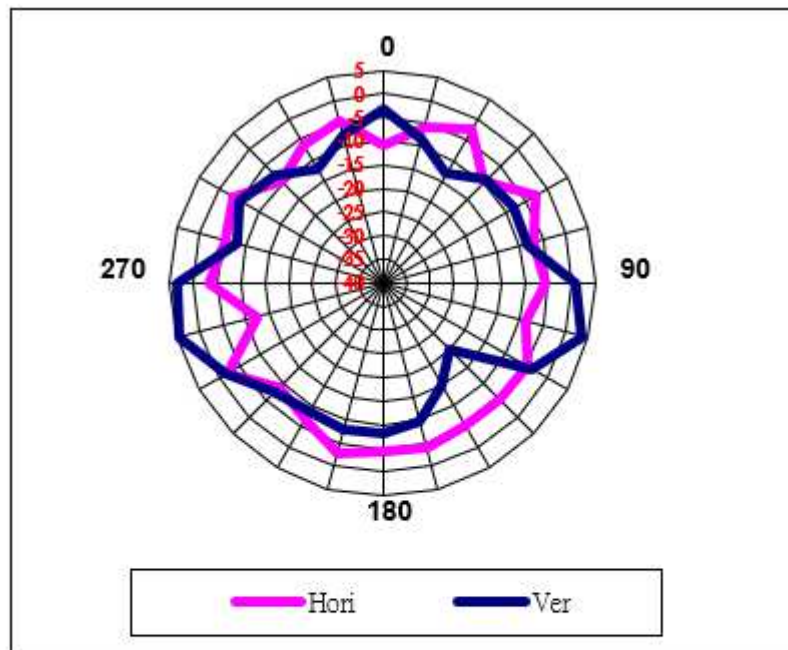
Ant : 6525 MHz



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

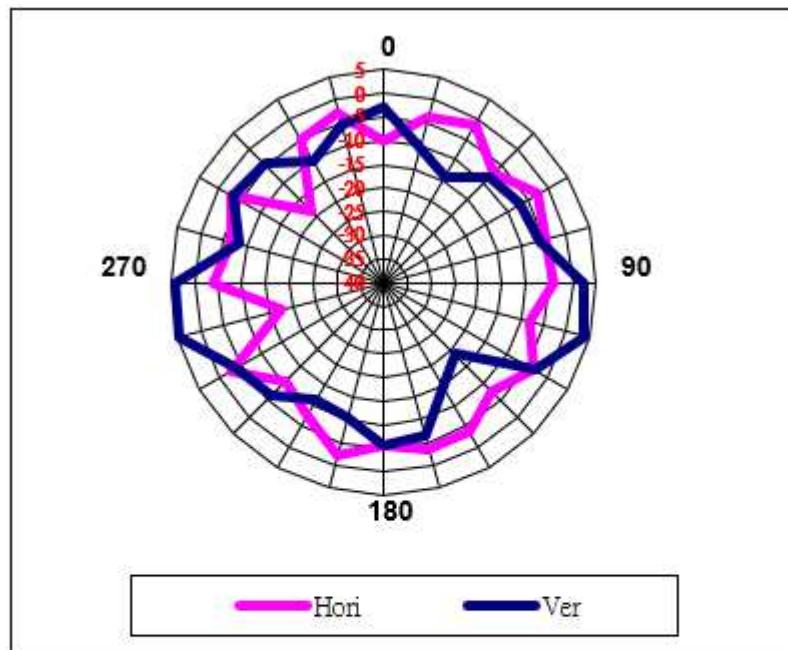


Ant : 6645 MHz



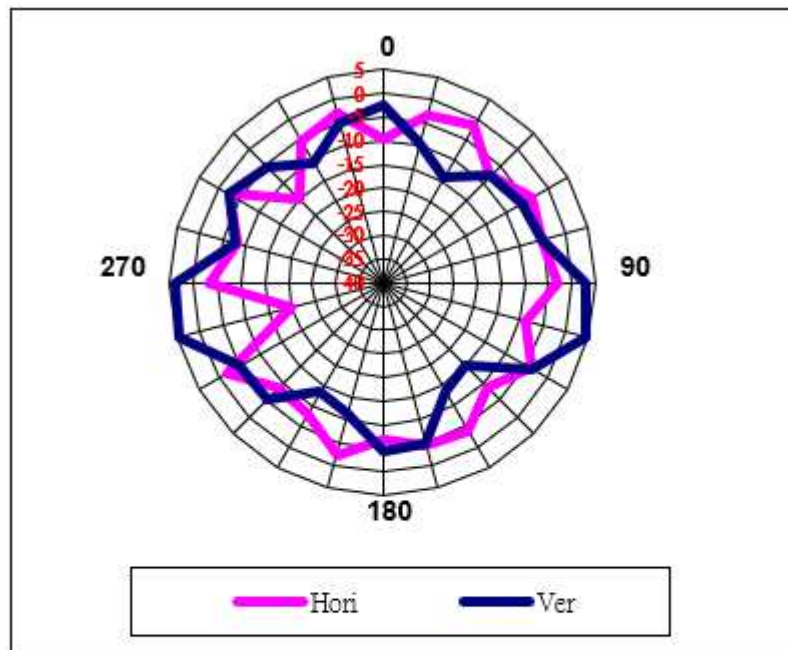
Frequency (MHz)	6645
Horizontal peak gain (dBi)	-2.09
Vertical peak gain (dBi)	4.78

Ant : 6795 MHz



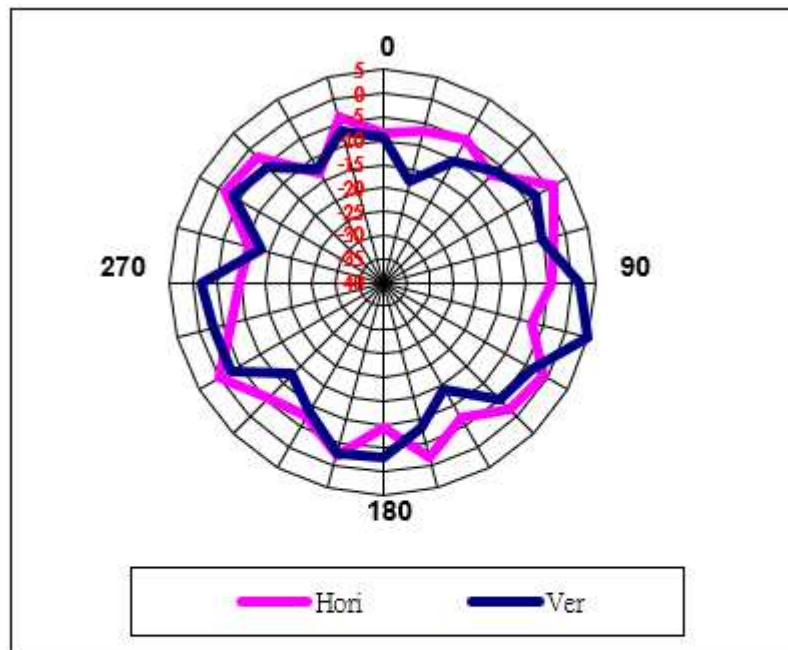
Frequency (MHz)	6795
Horizontal peak gain (dBi)	-1.37
Vertical peak gain (dBi)	4.81

Ant : 6875 MHz



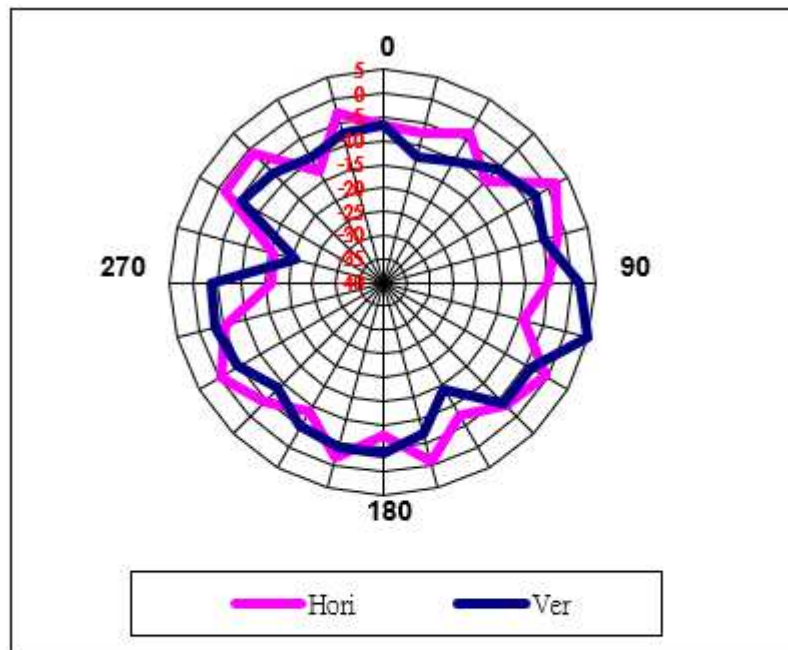
Frequency (MHz)	6875
Horizontal peak gain (dBi)	-1.57
Vertical peak gain (dBi)	4.71

Ant : 6975 MHz



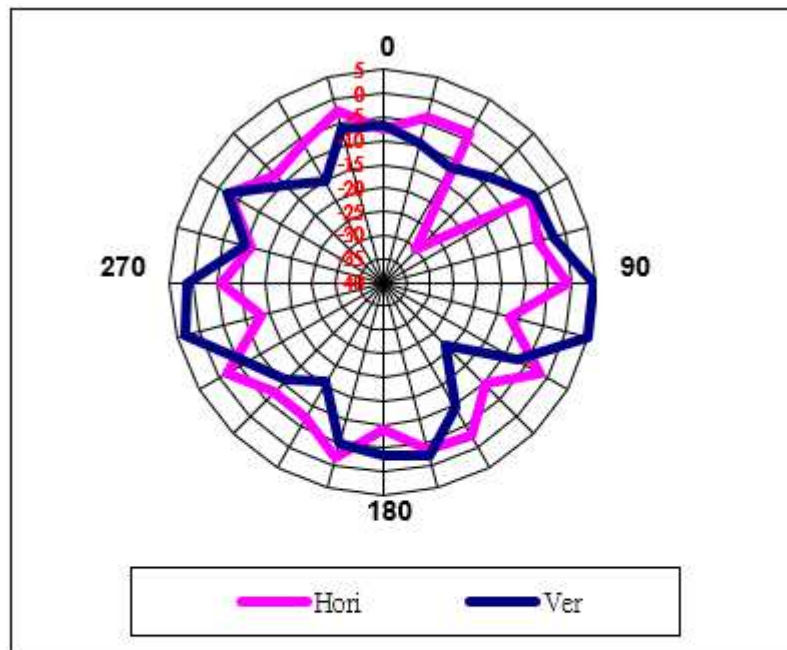
Frequency (MHz)	6975
Horizontal peak gain (dBi)	1.46
Vertical peak gain (dBi)	4.74

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