Regulatory WLAN Antenna Information for Gilbert

Hitachi Cable, Ltd

1-6-1, Otemachi, Chiyoda-ku, Tokyo, Japan

Antenna Specifications

Antenna Type (Material, Technology)	Monopole Type
Antenna Model Number	HFT17-DL03
Operating Frequency Range(s)	2.40 – 2.4835 GHz / 4.90 – 5.875 GHz
Peak Gain (802.11b/g / 2.4GHz Band) (dBi)	Main 1.5 / Aux 0.5
Peak Gain (802.11a / 5GHz Band) (dBi)	Main 5.1 / Aux 4.4
Radio Connector Type	Micro Coaxial Connector
Mid-Line Connector Type (If Applicable)	N/A

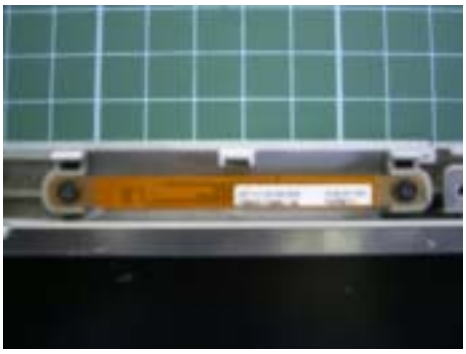
Note: Peak Gain should include all system losses (connector, cable, etc)

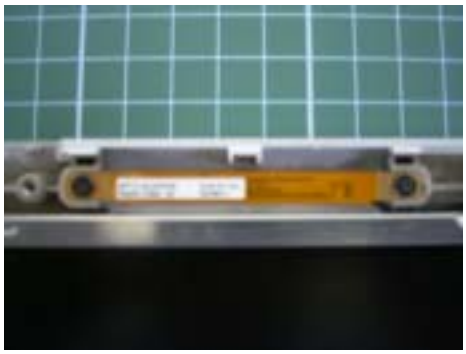
Cable Specifications

Cable Parameters	**Main**			**Aux**		
	LCD Side	**Base Side**	**Total**	**LCD Side**	**Base Side**	**Total**
Length (mm)	N/A	N/A	375	N/A	N/A	490
Loss (Including Connectors) (dB) 2.4 GHz / 5 GHz			1.0/1.6			1.3/2.2
Description (Color, Diameter, Manufacturer)	White ϕ 1.37 mm Hitachi Cable			Black ϕ 1.37 mm Hitachi Cable		

Note: For single cable assembly (no mid-line connector), use the 'Total' column for each cable length and list N/A in the ‘LCD’ and ‘Base’ fields

Cable Loss should be reported for the total cable assembly (for both Main and Aux antennas)



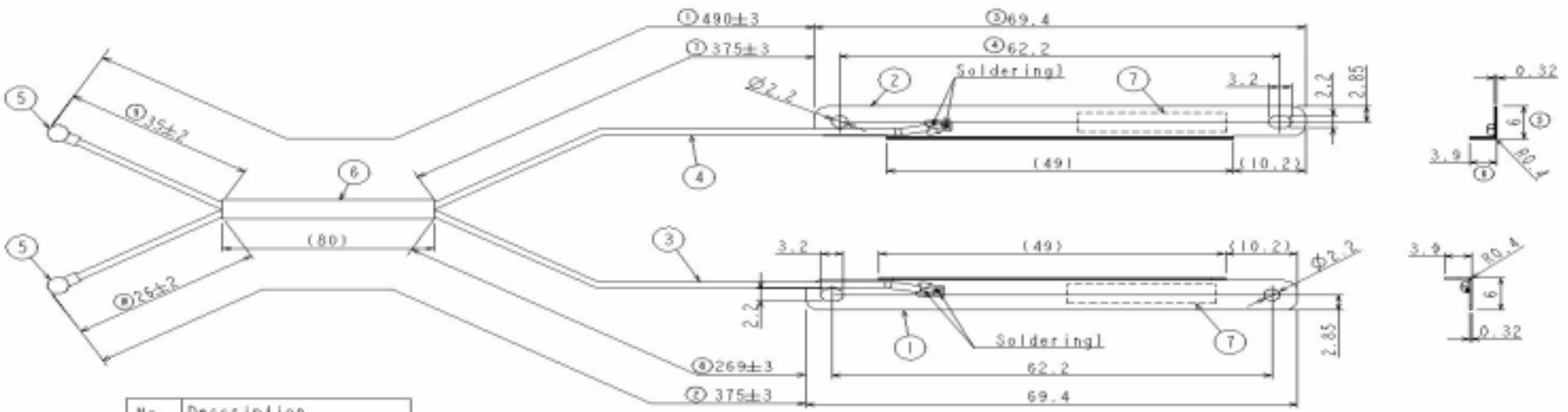


Picture of Antenna installed in the notebook

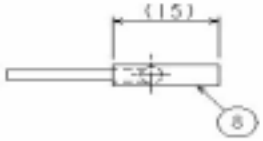
Picture of Antenna

EH3850816

MARK	REVISION	DATE	NAME	CHKD.
A	Radiator changed	04.05.25	K. ENDO	R. SATO



No.	Description
1	Main Antenna
2	Aux Antenna
3	Coaxial Cable(White)
4	Coaxial Cable(Black)
5	mPCL connector
6	Nanometer Tape
7	Product Label
8	Protection tube



Note2:Protection Tube

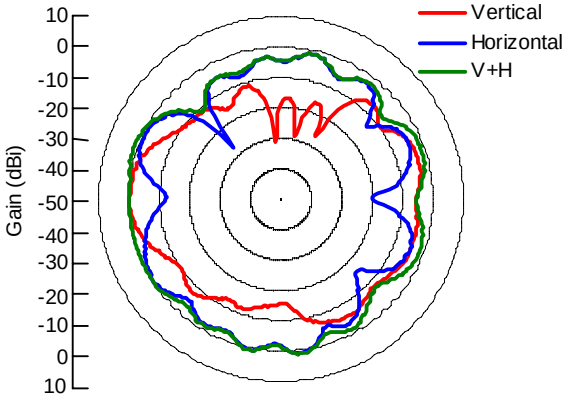
Note
1. The dimensions on this drawing are numbered 1-10.
2. The connector shall be covered with protection tube.

TOLERANCES OF DIMENSIONS	
Dimension	Tolerance
- 6	±0.1
6 - 30	±0.2
30 -	±0.3

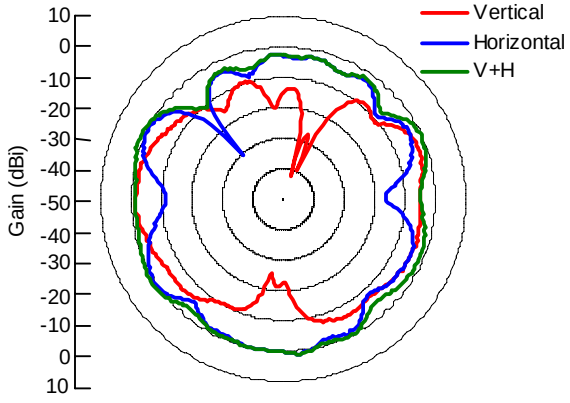
	Customer P/N			
DWN.	K. ENDO	04.05.25		TITLE
CHKD.	R. SATO	REGD.	PROJ.	HFT17-DL03
APPD.	H. TATE			
SCALE	N.T.S			
Hitachi Cable, Ltd. Hitaka Works				EH3850816

CAD名称: EH3850816RA CAD機種: MODEL NAME モデルタイプ: DRAFT

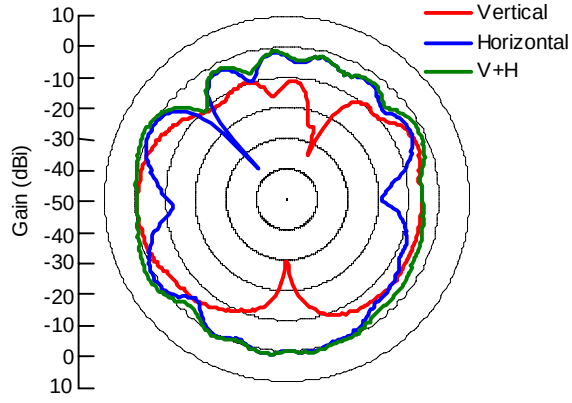
Main Antenna (1)



Frequency (MHz)	2400
Vertical Peak Gain (dBi)	-2.7
Horizontal Peak Gain (dBi)	1.2
V + H Peak Gain (dBi)	1.5

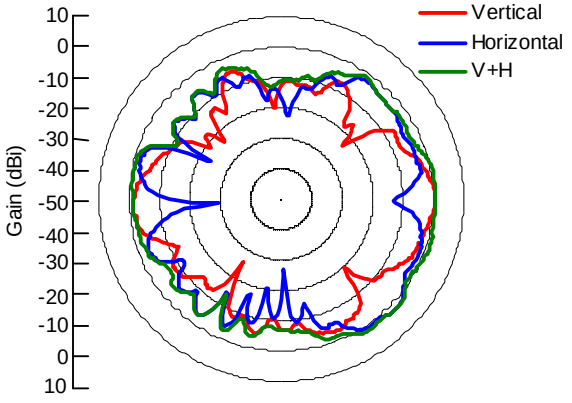


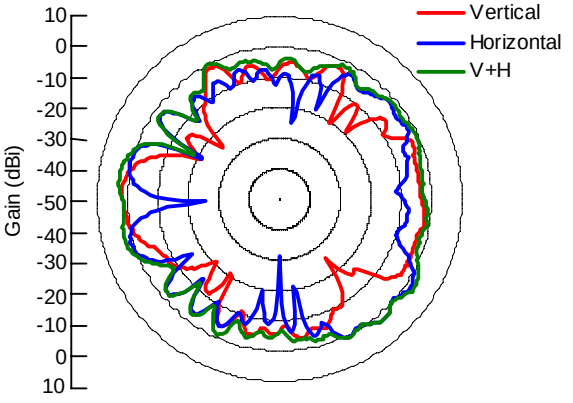
Frequency (MHz)	2442
Vertical Peak Gain (dBi)	-2.4
Horizontal Peak Gain (dBi)	1.2
V + H Peak Gain (dBi)	1.6



Frequency (MHz)	2484
Vertical Peak Gain (dBi)	-3.7
Horizontal Peak Gain (dBi)	1.5
V + H Peak Gain (dBi)	2.5

Main Antenna (2)

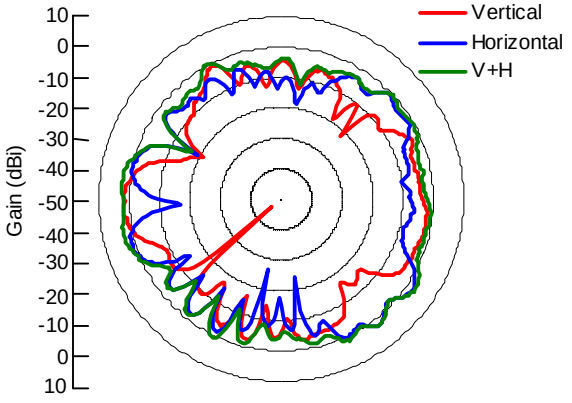




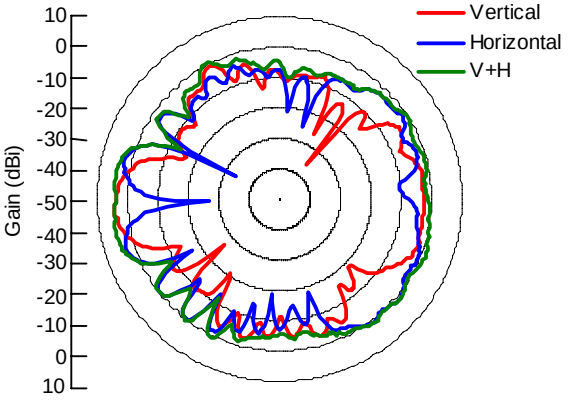
Frequency (MHz)	4900
Vertical Peak Gain (dBi)	0.8
Horizontal Peak Gain (dBi)	2.4
V + H Peak Gain (dBi)	2.6

Frequency (MHz)	5150
Vertical Peak Gain (dBi)	2.1
Horizontal Peak Gain (dBi)	2.8
V + H Peak Gain (dBi)	3.6

Main Antenna (3)

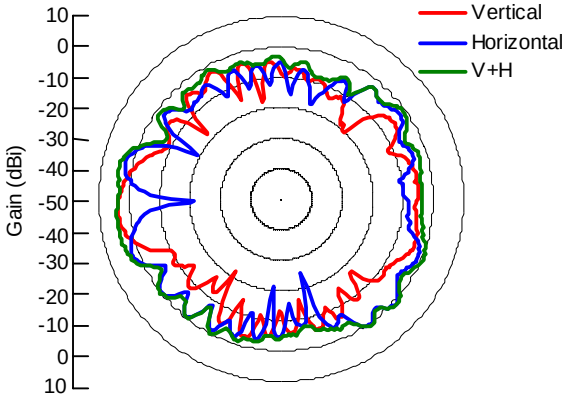


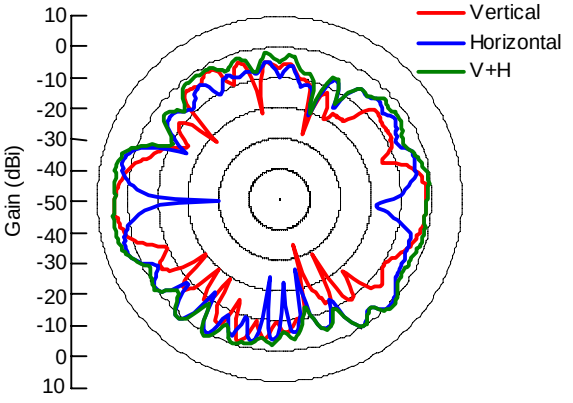
Frequency (MHz)	5250
Vertical Peak Gain (dBi)	1.9
Horizontal Peak Gain (dBi)	2.7
V + H Peak Gain (dBi)	3.4



Frequency (MHz)	5350
Vertical Peak Gain (dBi)	4.4
Horizontal Peak Gain (dBi)	3.1
V + H Peak Gain (dBi)	5.1

Main Antenna (4)

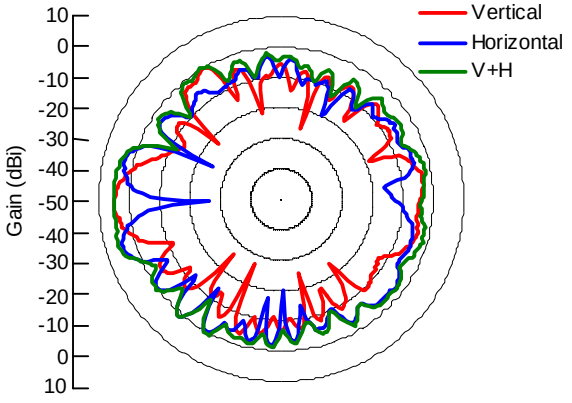




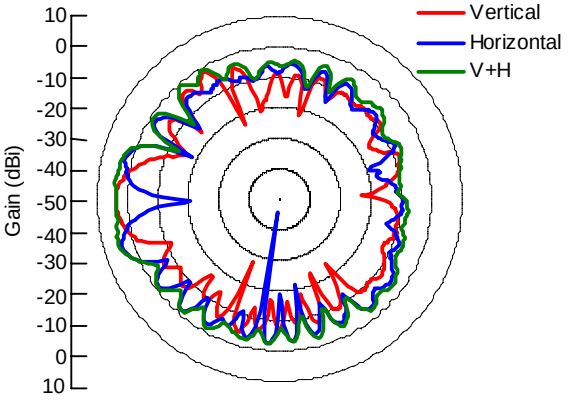
Frequency (MHz)	5470
Vertical Peak Gain (dBi)	4.1
Horizontal Peak Gain (dBi)	2.9
V + H Peak Gain (dBi)	4.7

Frequency (MHz)	5598
Vertical Peak Gain (dBi)	4.5
Horizontal Peak Gain (dBi)	3.4
V + H Peak Gain (dBi)	5.3

Main Antenna (5)

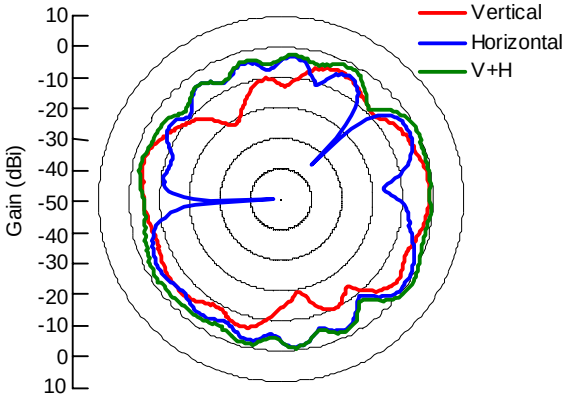


Frequency (MHz)	5725
Vertical Peak Gain (dBi)	5.1
Horizontal Peak Gain (dBi)	4.8
V + H Peak Gain (dBi)	5.7

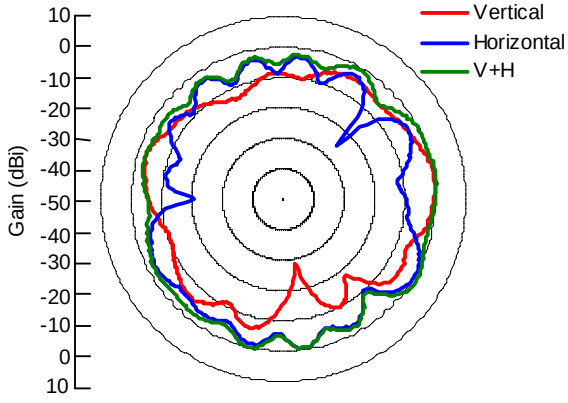


Frequency (MHz)	5850
Vertical Peak Gain (dBi)	4.1
Horizontal Peak Gain (dBi)	4.3
V + H Peak Gain (dBi)	5.3

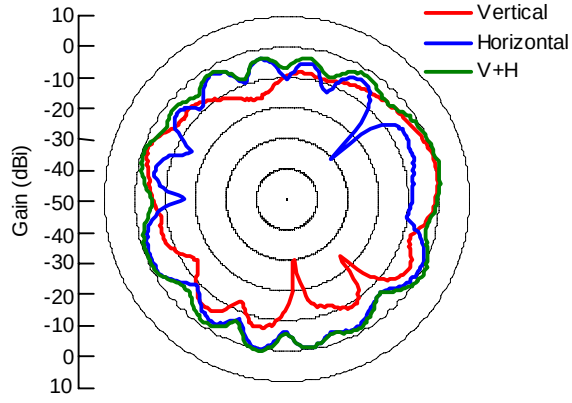
Aux Antenna (1)



Frequency (MHz)	2400
Vertical Peak Gain (dBi)	-0.8
Horizontal Peak Gain (dBi)	-0.2
V + H Peak Gain (dBi)	1.6

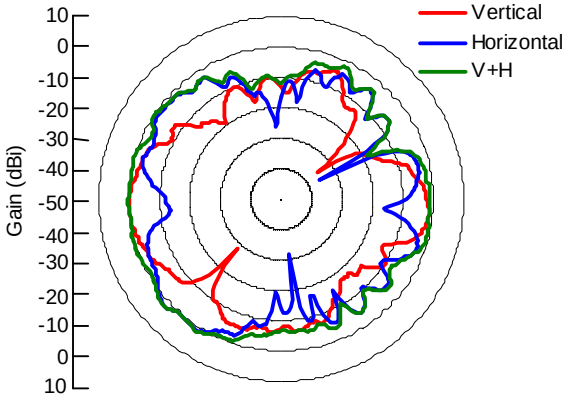


Frequency (MHz)	2442
Vertical Peak Gain (dBi)	0.4
Horizontal Peak Gain (dBi)	0.4
V + H Peak Gain (dBi)	1.6

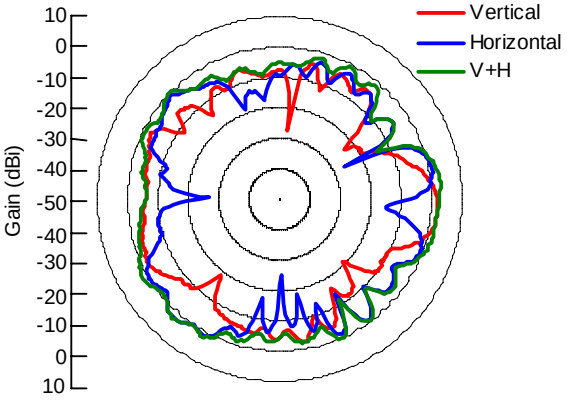


Frequency (MHz)	2484
Vertical Peak Gain (dBi)	0.5
Horizontal Peak Gain (dBi)	0.3
V + H Peak Gain (dBi)	1.3

Aux Antenna (2)

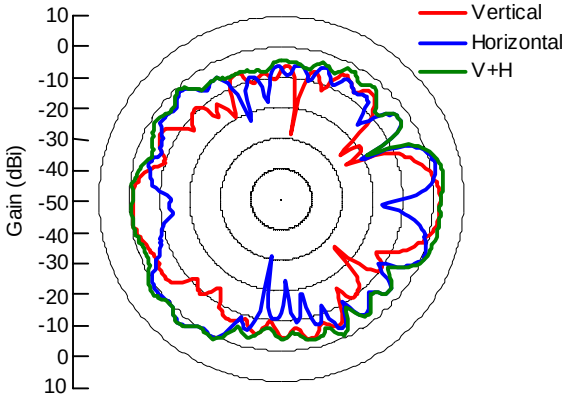


Frequency (MHz)	4900
Vertical Peak Gain (dBi)	0.3
Horizontal Peak Gain (dBi)	2.0
V + H Peak Gain (dBi)	2.4

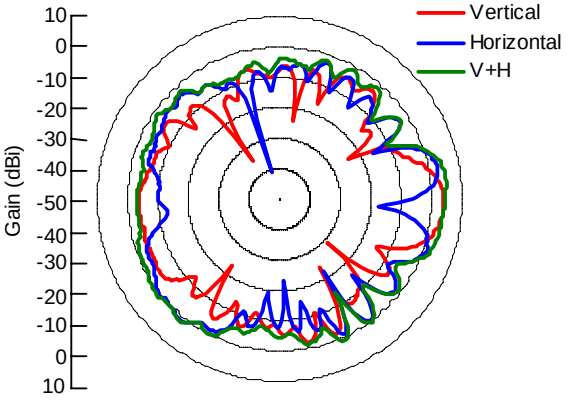


Frequency (MHz)	5150
Vertical Peak Gain (dBi)	2.3
Horizontal Peak Gain (dBi)	2.9
V + H Peak Gain (dBi)	3.2

Aux Antenna (3)

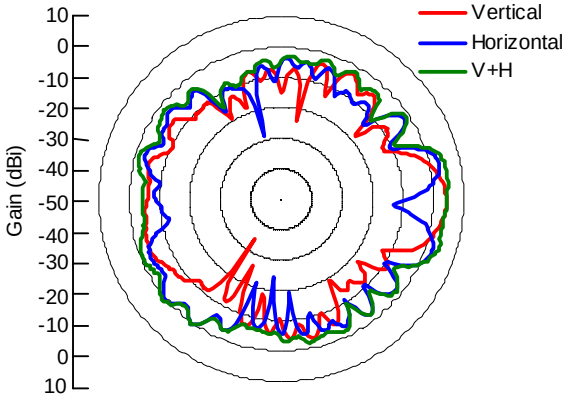


Frequency (MHz)	5250
Vertical Peak Gain (dBi)	2.4
Horizontal Peak Gain (dBi)	3.1
V + H Peak Gain (dBi)	3.9

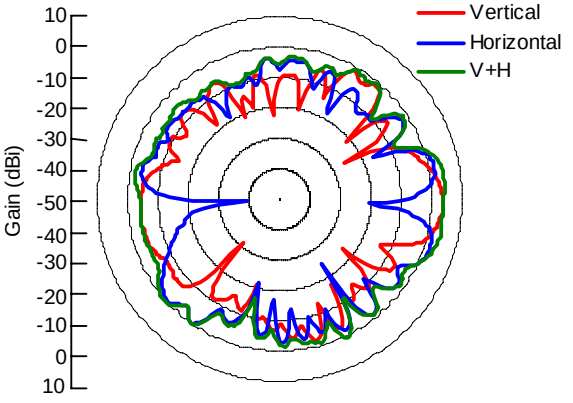


Frequency (MHz)	5350
Vertical Peak Gain (dBi)	4.2
Horizontal Peak Gain (dBi)	3.1
V + H Peak Gain (dBi)	5.2

Aux Antenna (4)

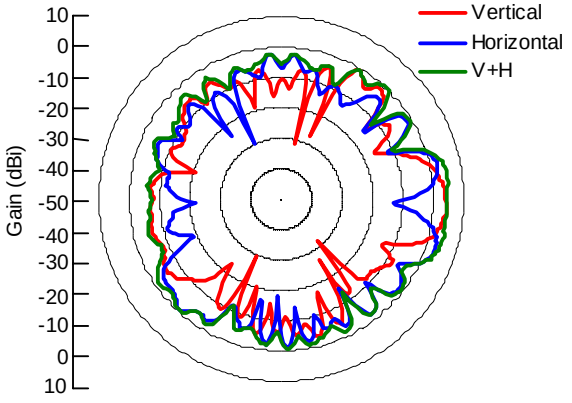


Frequency (MHz)	5470
Vertical Peak Gain (dBi)	4.4
Horizontal Peak Gain (dBi)	3.3
V + H Peak Gain (dBi)	5.4

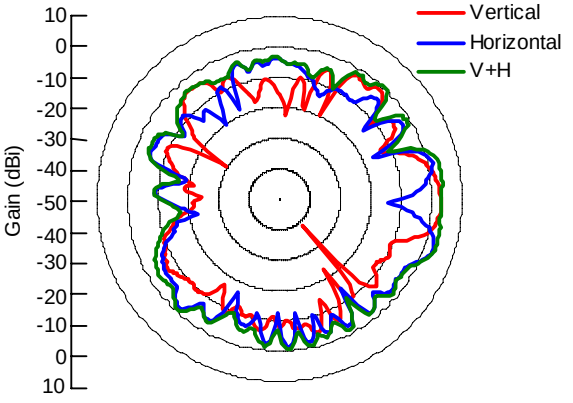


Frequency (MHz)	5598
Vertical Peak Gain (dBi)	3.8
Horizontal Peak Gain (dBi)	2.4
V + H Peak Gain (dBi)	4.8

Aux Antenna (5)



Frequency (MHz)	5725
Vertical Peak Gain (dBi)	4.4
Horizontal Peak Gain (dBi)	3.6
V + H Peak Gain (dBi)	5.1



Frequency (MHz)	5850
Vertical Peak Gain (dBi)	3.5
Horizontal Peak Gain (dBi)	3.4
V + H Peak Gain (dBi)	4.1