

Regulatory WLAN Antenna Information for ZRS

Hitachi Cable, Ltd

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

Antenna Specifications

Antenna Type (Material, Technology)	PIFA
Antenna Model Number	HFT17-DL07
Operating Frequency Range(s)	2.40 – 2.4835 GHz / 4.90 – 5.875 GHz
Peak Gain (802.11b/g / 2.4GHz Band) (dBi)	3.9
Peak Gain (802.11a / 5GHz Band) (dBi)	6.2
Radio Connector Type	Micro Coaxial Connector
Mid-Line Connector Type (If Applicable)	NA

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

Cable Specifications

Cable Parameters	
Length (mm)	478
Loss (Including Connectors) (dB) 2.4 GHz / 5 GHz	1.3/2.2
Description (Color, Diameter, Manufacturer)	Black ϕ 1.37 mm Hitachi Cable

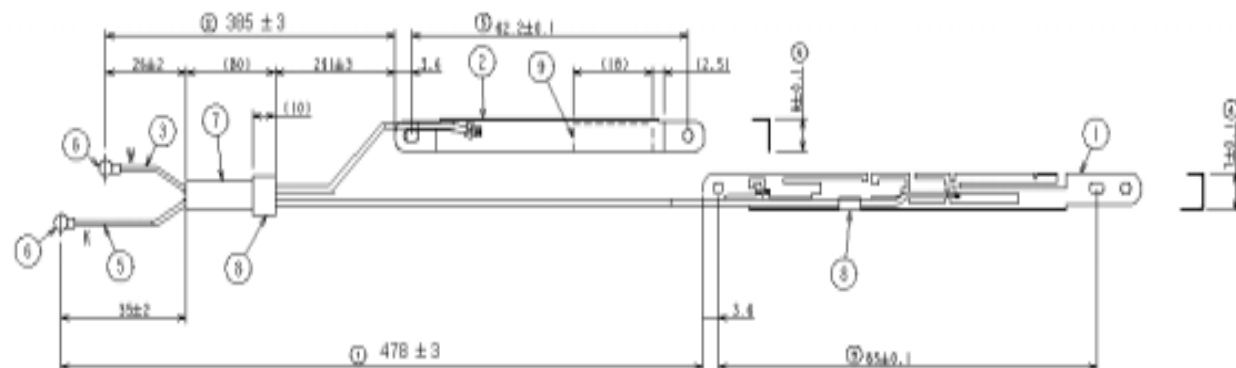
Note: For single cable assembly (no mid-line connector), use the 'Total' column for each cable length and list N/A in the 'LCD' and 'Base' fields

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



Picture of Antenna installed in the notebook

MARK	REVISION	DATE	NAME	CHKD.



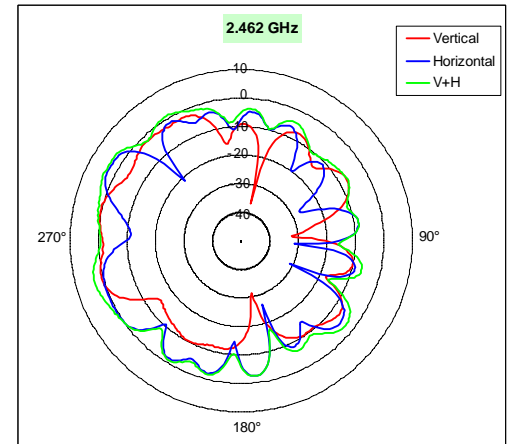
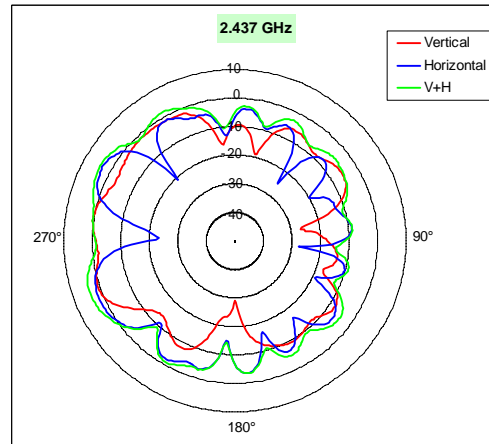
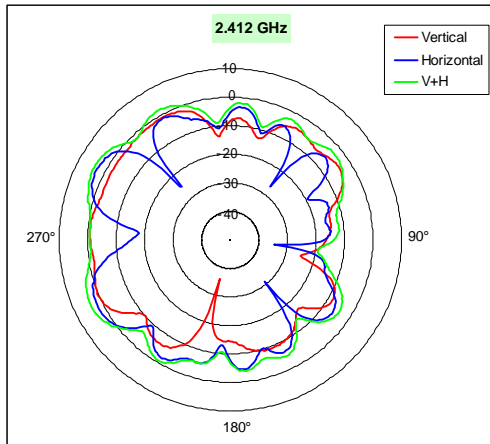
No.	Description
①	Antenna (HTM05)
②	Antenna (HFT17)
③	Coaxial Cable (∅1.37,White)

⑤	Coaxial Cable (∅1.37,Black)
⑥	Connector HRS
⑦	NANO TAPE
⑧	KAPTON TAPE
⑨	Label

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

Customer P/N		TITLE
DWN.	K.ENDO 05.09.12	HMT05/HFT17-DL07
CHKD.	Y.YAMAMOTO REGD. PROJ.	
APPD.	K.TSUKAMOTO	EH3854751
SCALE	N.T.S.	
Hitachi Cable, Ltd. Hitaka Works		

Antenna (1)

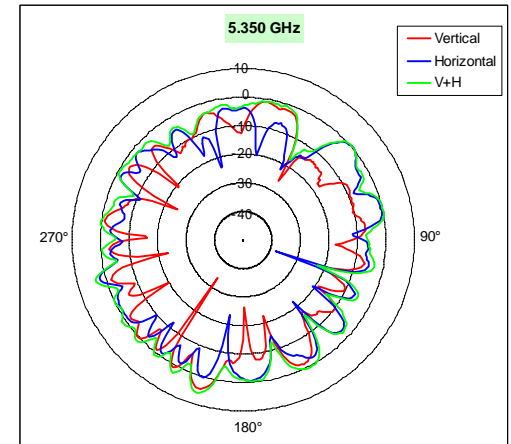
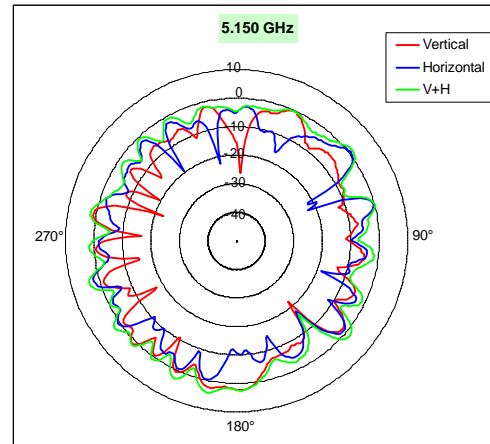
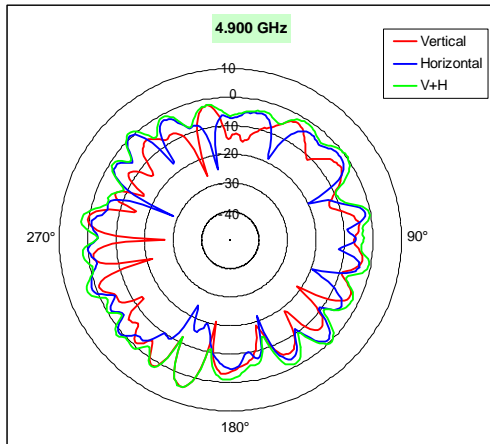


Frequency (MHz)	2412
Vertical Peak Gain (dBi)	-0.1
Horizontal Peak Gain (dBi)	2.8
V + H Peak Gain (dBi)	3.9

Frequency (MHz)	2437
Vertical Peak Gain (dBi)	0.3
Horizontal Peak Gain (dBi)	2.9
V + H Peak Gain (dBi)	3.8

Frequency (MHz)	2462
Vertical Peak Gain (dBi)	0.4
Horizontal Peak Gain (dBi)	2.4
V + H Peak Gain (dBi)	3.3

Antenna (2)

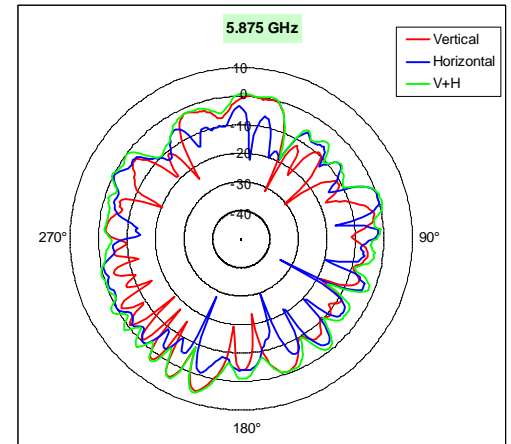
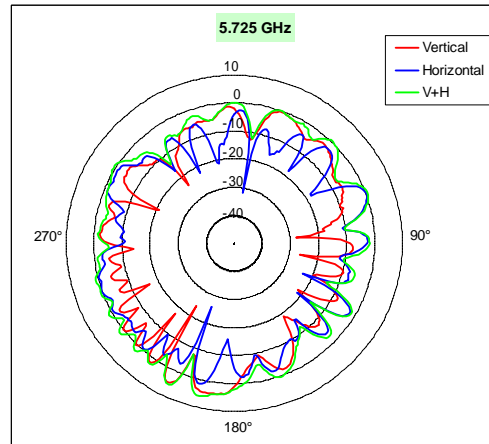
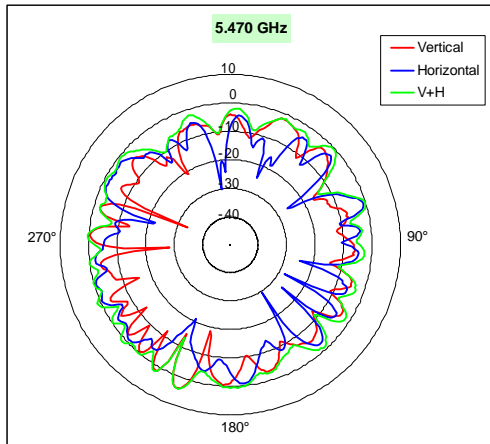


Frequency (MHz)	4900
Vertical Peak Gain (dBi)	4.1
Horizontal Peak Gain (dBi)	1.1
V + H Peak Gain (dBi)	4.1

Frequency (MHz)	5150
Vertical Peak Gain (dBi)	2.1
Horizontal Peak Gain (dBi)	1.8
V + H Peak Gain (dBi)	3.9

Frequency (MHz)	5350
Vertical Peak Gain (dBi)	4.2
Horizontal Peak Gain (dBi)	1.8
V + H Peak Gain (dBi)	5.6

Antenna (3)



Frequency (MHz)	5.47
Vertical Peak Gain (dBi)	4.1
Horizontal Peak Gain (dBi)	-0.5
V + H Peak Gain (dBi)	4.2

Frequency (MHz)	5725
Vertical Peak Gain (dBi)	4.8
Horizontal Peak Gain (dBi)	1.5
V + H Peak Gain (dBi)	5.8

Frequency (MHz)	5875
Vertical Peak Gain (dBi)	5.4
Horizontal Peak Gain (dBi)	-0.1
V + H Peak Gain (dBi)	6.2