

Antenna Information Example

Section 1. Antenna Assembly Specifications

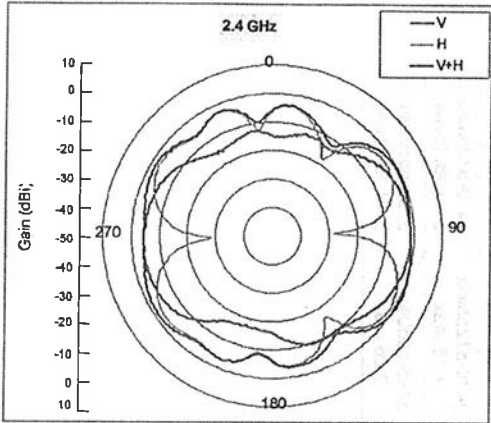
Antenna Assembly Summary:

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
(P/N: HFT64-NE01-K) Main Antenna	Hitachi Cable, Ltd.	Monopole	(P/N: UL1745SB CX-50 1X30AWG(7/0.102) TAD=1.37) 50 ohm Coaxial. length: 790mm diameter: 1.37mm Connector:HRS, Molex SSMCX	2400-2500MHz 0.81 dBi (peak)	2400-2500MHz 2.84 dBi (peak)	2400-2500MHz 1.69 max	2400-2500MHz 2.03 dBi (peak)
				5150-5350MHz 0.41 dBi (peak)	5150-5350MHz 3.81 dBi (peak)	5150-5350MHz 1.65 max	5150-5350MHz 3.40 dBi (peak)
				5470-5725MHz 0.04 dBi (peak)	5470-5725MHz 3.44 dBi (peak)	5470-5725MHz 1.83 max	5470-5725MHz 3.40 dBi (peak)
				5725-5850MHz -0.82 dBi (peak)	5725-5850MHz 2.59 dBi (peak)	5725-5850MHz 2.00 max	5725-5850MHz 3.40 dBi (peak)
(P/N: HFT64-NE01-W) Aux Antenna	Hitachi Cable, Ltd.	Monopole	(P/N: UL1745SB CX-50 1X30AWG(7/0.102) TAD=1.37) 50 ohm Coaxial. length: 810mm diameter: 1.37mm Connectors:HRS, Molex SSMCX	2400-2500MHz 0.22 dBi (peak)	2400-2500MHz 2.30 dBi (peak)	2400-2500MHz 1.94 max	2400-2500MHz 2.08 dBi (peak)
				5150-5350MHz -1.12 dBi (peak)	5150-5350MHz 2.37 dBi (peak)	5150-5350MHz 1.94 max	5150-5350MHz 3.49 dBi (peak)
				5470-5725MHz -1.39 dBi (peak)	5470-5725MHz 2.10 dBi (peak)	5470-5725MHz 1.75 max	5470-5725MHz 3.49 dBi (peak)
				5725-5850MHz -1.46 dBi (peak)	5725-5850MHz 2.03 dBi (peak)	5725-5850MHz 2.06 max	5725-5850MHz 3.49 dBi (peak)

Section 3. Radiation characteristics of antennae Loaded in Host Platform

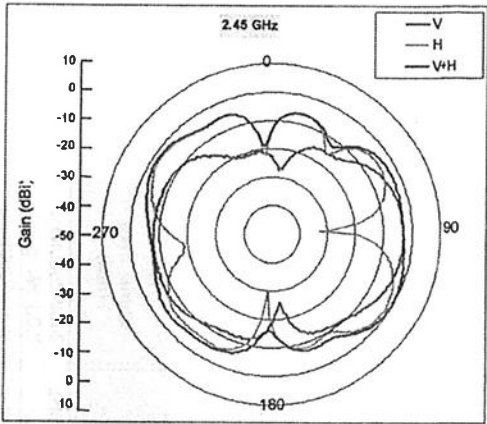
2400-2500MHz radiation characteristic

Main antenna: 2400 MHz



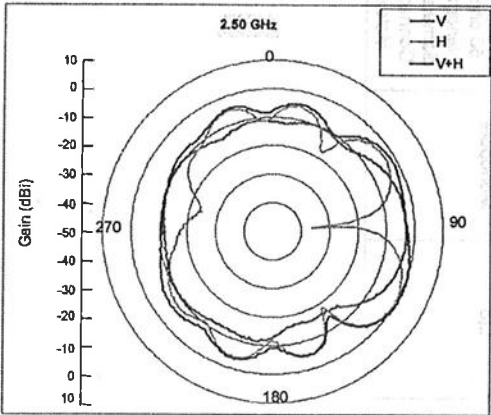
Center Frequency	2400 MHz
Horizontal (dBi) peak	-1.11
Vertical (dBi) peak	-1.33
Horz+Vert (dBi) peak	0.62

Main antenna: 2450 MHz



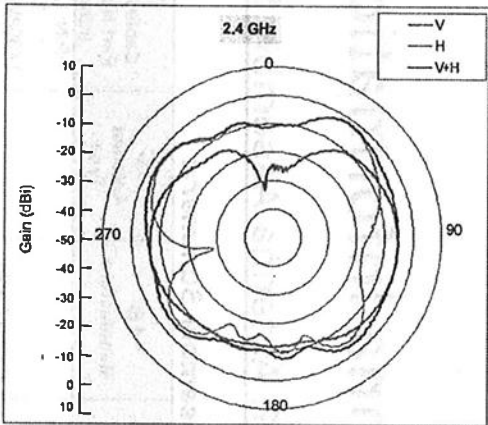
Center Frequency	2450 MHz
Horizontal (dBi) peak	-1.74
Vertical (dBi) peak	-0.12
Horz+Vert (dBi) peak	-0.44

Main antenna: 2500 MHz



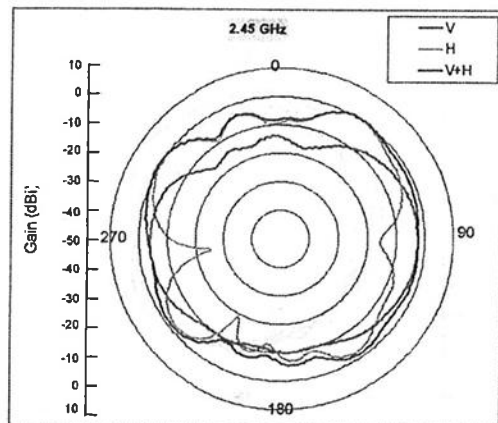
Center Frequency	2500 MHz
Horizontal (dBi) peak	-0.12
Vertical (dBi) peak	-2.87
Horz+Vert (dBi) peak	0.81

Auxiliary antenna: 2400 MHz



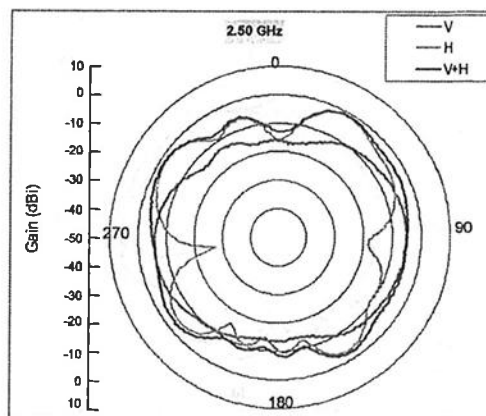
Center Frequency	2400 MHz
Horizontal (dBi) peak	-1.82
Vertical (dBi) peak	-6.17
Horz+Vert (dBi) peak	-1.47

Auxiliary antenna: 2450 MHz



Center Frequency	2450 MHz
Horizontal (dBi) peak	-0.08
Vertical (dBi) peak	-1.23
Horz+Vert (dBi) peak	0.22

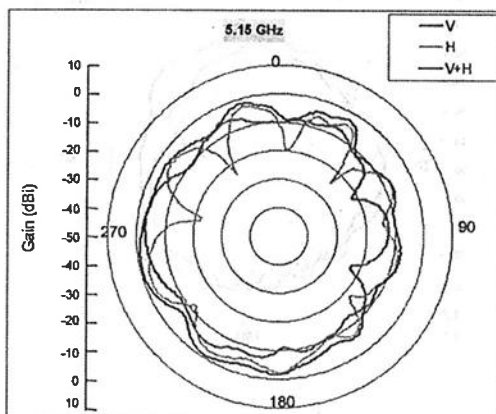
Auxiliary antenna: 2500 MHz



Center Frequency	2500 MHz
Horizontal (dBi) peak	-1.23
Vertical (dBi) peak	-5.08
Horz+Vert (dBi) peak	-0.85

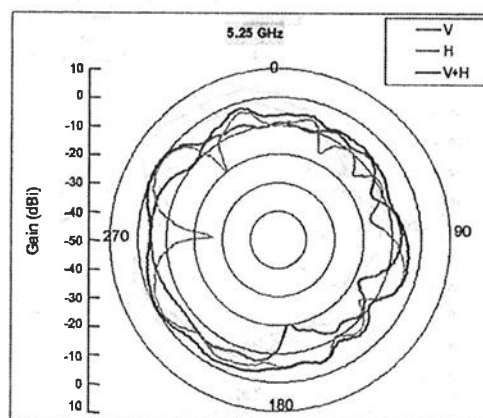
5150-5350 MHz radiation characteristic

Main antenna: 5150 MHz



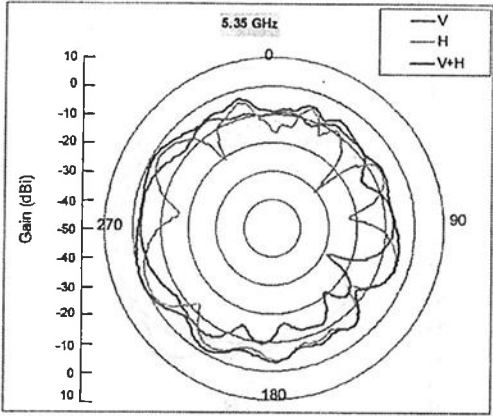
Center Frequency	5150 MHz
Horizontal (dBi) peak	-2.43
Vertical (dBi) peak	-2.75
Horz+Vert (dBi) peak	-0.56

Main antenna: 5250 MHz



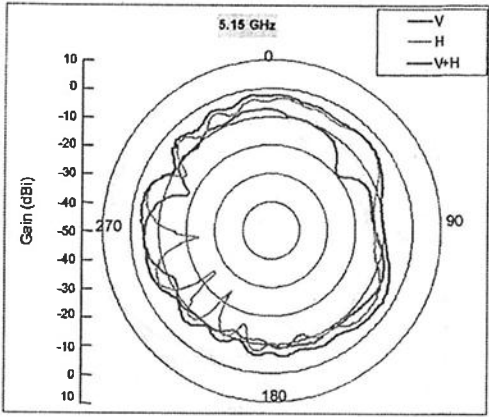
Center Frequency	5250 MHz
Horizontal (dBi) peak	-0.56
Vertical (dBi) peak	-4.16
Horz+Vert (dBi) peak	0.41

Main antenna: 5350 MHz



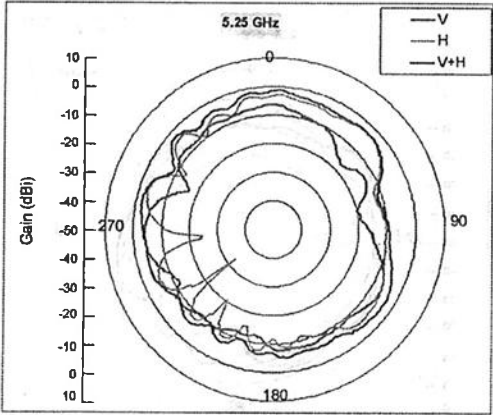
Center Frequency	5350 MHz
Horizontal (dBi) peak	-1.15
Vertical (dBi) peak	-2.63
Horz+Vert (dBi) peak	0.34

Auxiliary antenna: 5150 MHz



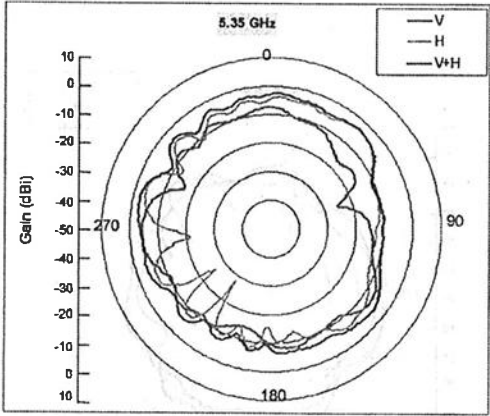
Center Frequency	5150 MHz
Horizontal (dBi) peak	-3.43
Vertical (dBi) peak	-4.75
Horz+Vert (dBi) peak	-2.13

Auxiliary antenna: 5250 MHz



Center Frequency	5250 MHz
Horizontal (dBi) peak	-2.59
Vertical (dBi) peak	-3.86
Horz+Vert (dBi) peak	-1.12

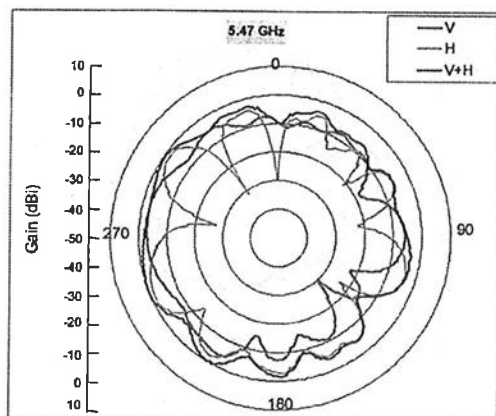
Auxiliary antenna: 5350 MHz



Center Frequency	5350 MHz
Horizontal (dBi) peak	-3.36
Vertical (dBi) peak	-4.29
Horz+Vert (dBi) peak	-2.21

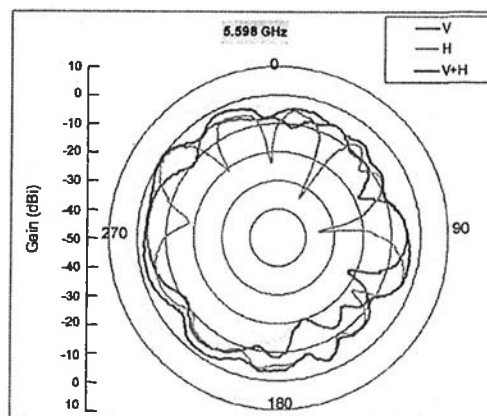
5470-5725MHz radiation characteristic

Main antenna: 5470 MHz



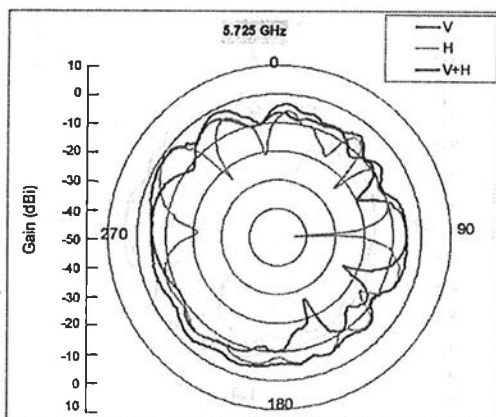
Center Frequency	5470 MHz
Horizontal (dBi) peak	-1.28
Vertical (dBi) peak	-2.57
Horz+Vert (dBi) peak	0.04

Main antenna: 5597.5 MHz



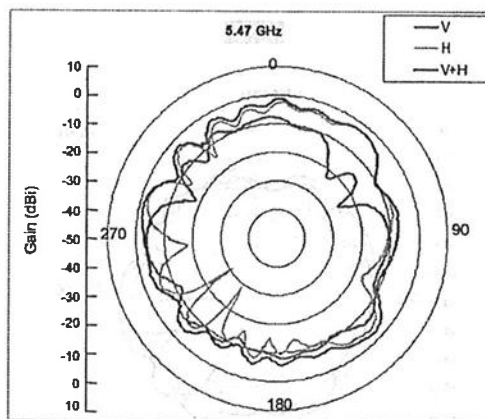
Center Frequency	5598 MHz
Horizontal (dBi) peak	-0.65
Vertical (dBi) peak	-3.22
Horz+Vert (dBi) peak	0.00

Main antenna: 5725 MHz



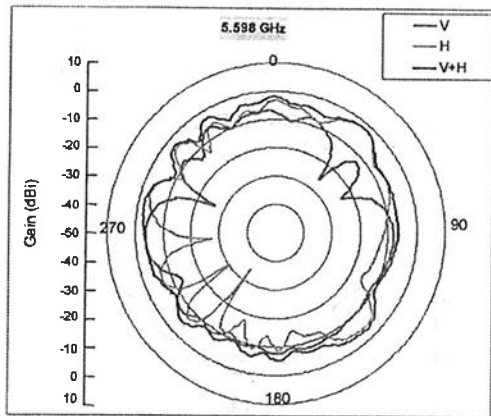
Center Frequency	5725 MHz
Horizontal (dBi) peak	-1.30
Vertical (dBi) peak	-3.32
Horz+Vert (dBi) peak	-0.82

Auxiliary antenna: 5470 MHz



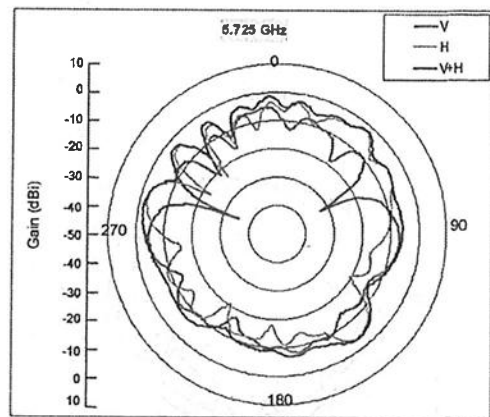
Center Frequency	5470 MHz
Horizontal (dBi) peak	-2.32
Vertical (dBi) peak	-3.54
Horz+Vert (dBi) peak	-1.39

Auxiliary antenna: 5597.5 MHz



Center Frequency	5598 MHz
Horizontal (dBi) peak	-1.71
Vertical (dBi) peak	-3.56
Horz+Vert (dBi) peak	-1.67

Auxiliary antenna: 5725 MHz

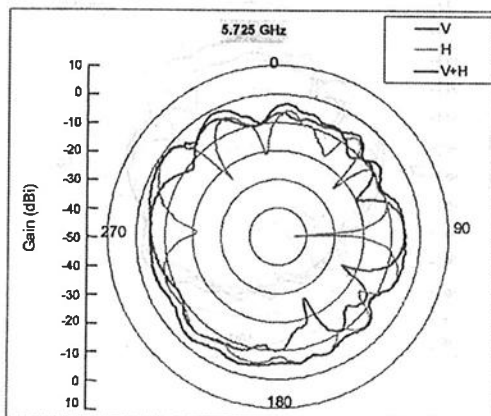


Center Frequency	5725 MHz
Horizontal (dBi) peak	-2.28
Vertical (dBi) peak	-4.39
Horz+Vert (dBi) peak	-1.46

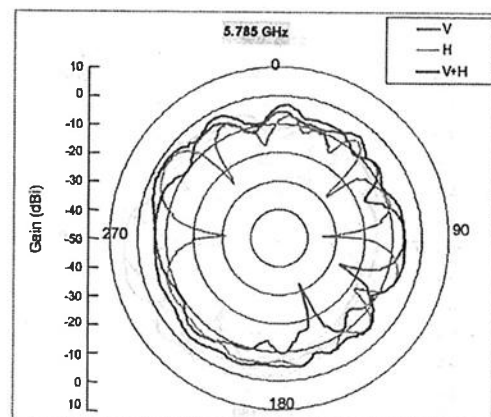
5725-5850 MHz radiation characteristic

Main antenna: 5785 MHz

Main antenna: 5725 MHz

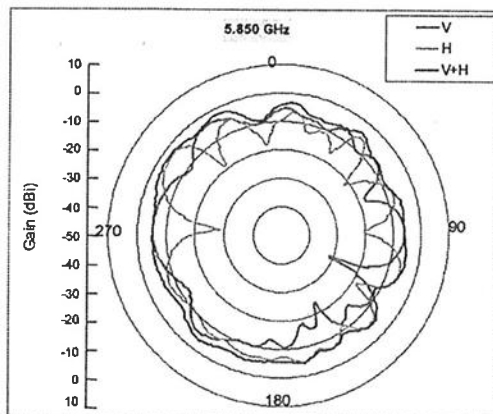


Center Frequency	5725 MHz
Horizontal (dBi) peak	-1.30
Vertical (dBi) peak	-3.32
Horz+Vert (dBi) peak	-0.82



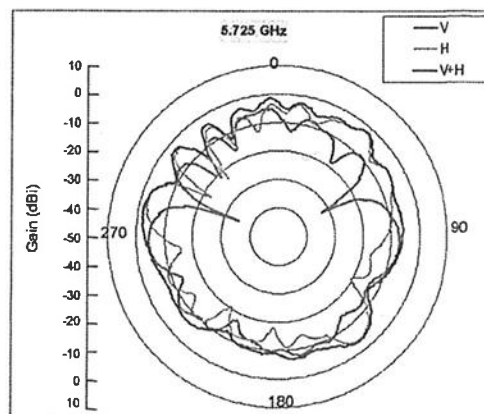
Center Frequency	5785 MHz
Horizontal (dBi) peak	-2.86
Vertical (dBi) peak	-4.42
Horz+Vert (dBi) peak	-1.92

Main antenna: 5850 MHz



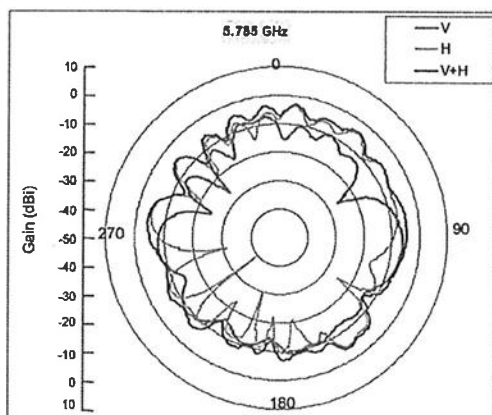
Center Frequency	5850 MHz
Horizontal (dBi) peak	-2.88
Vertical (dBi) peak	-3.67
Horz+Vert (dBi) peak	-1.99

Auxiliary antenna: 5725 MHz



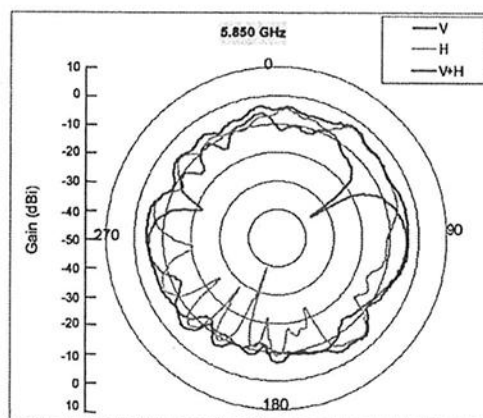
Center Frequency	5725 MHz
Horizontal (dBi) peak	-2.28
Vertical (dBi) peak	-4.39
Horz+Vert (dBi) peak	-1.46

Auxiliary antenna: 5785 MHz



Center Frequency	5785 MHz
Horizontal (dBi) peak	-3.60
Vertical (dBi) peak	-6.37
Horz+Vert (dBi) peak	-3.08

Auxiliary antenna: 5850 MHz



Center Frequency	5850 MHz
Horizontal (dBi) peak	-3.21
Vertical (dBi) peak	-4.36
Horz+Vert (dBi) peak	-2.66