

4900 B48 2x2 Polarization Directional Antenna For 3550~3700MHz With GPS/GNSS

3550~3700MHz 2x2 elements / 1574~1606 MHz

GTT P/N: DA-B48G-12-01-BL

✓ RF Specification

• Port#	Port1	Port2	Port3	Port4	Port5
• Frequency	3550~3700 MHz				1573~1606 MHz
• Polarization (dual slant):	-45°	+45°	-45°	+45°	Horizontal/Vertical
• HPBW / Horizontal:	34~35	34~35	32~34	33~34	360
• HPBW / Vertical:	33~35	34~35	35~37	33~34	45
• Peak Gain:	12.9~13.6 dBi	12.9~13.5 dBi	12.5~13.3 dBi	13.0~13.7 dBi	2.5~3.1 dBi
• VSWR:	< 2.0 Max.:1				
• Isolation:	>20 dB				
• Power Handling:	2W(cw)				
• Impedance:	50 Ohms				
• Cable: OD 1.37 Low Loss	Gray L=155mm	White L=150mm	Black L=160mm	Blue L=200mm	Green L=250mm
• Connector:	TNV-088x5				

✓ Environmental & Mechanical Characteristics

- Temperature: -30°C to +70°C
- Humidity: 95% @55°C
- Weight: 200g
- Antenna Material: SPTE
- Dimensions: 288.0(L)x168.0(W)x6.4(T)mm



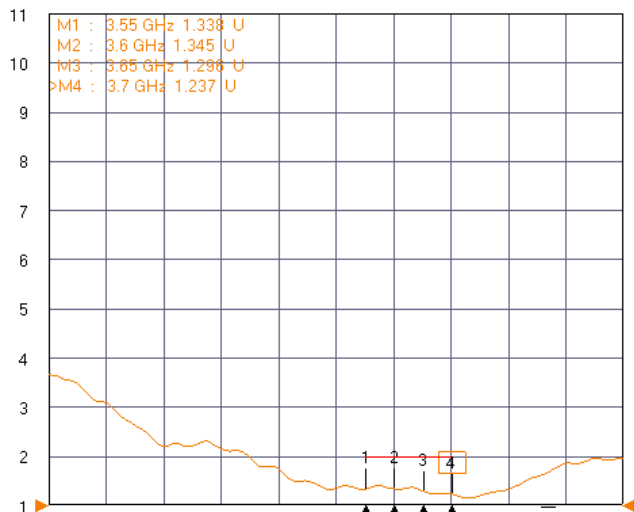
Performance Summary

VSWR

Frequency(MHz)	3550~3700	1573~1606
VSWR	2.0 Max. : 1	2.0 Max. : 1

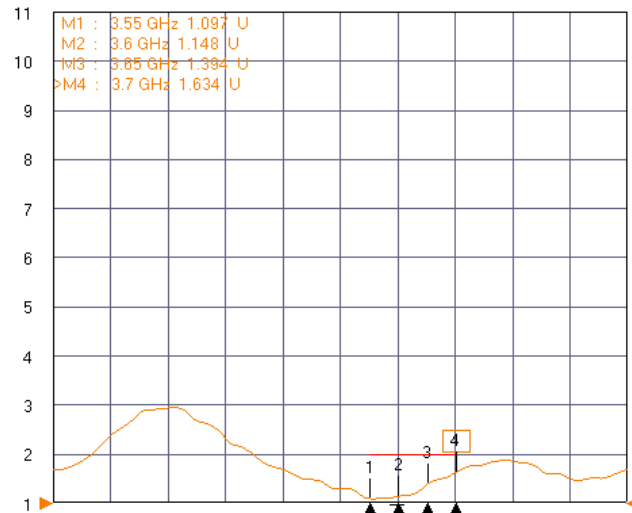
Port#1 (Gray Cable : -45-degree Polar.)

Tr1 S11 Refl SWR RefLvl: 1 U Res: 1 U/Div



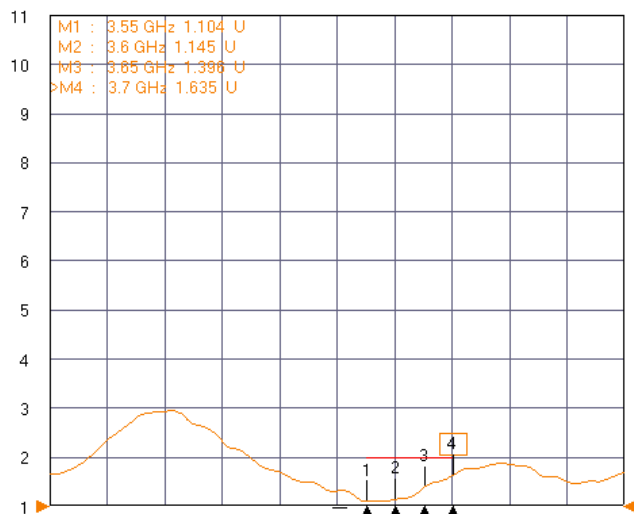
Port#2 (White Cable +45-degree Polar.)

Tr1 S11 Refl SWR RefLvl: 1 U Res: 1 U/Div



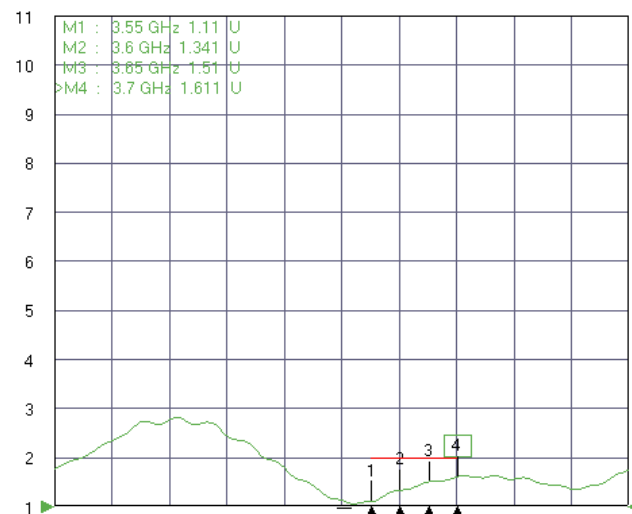
Port#3 (Black Cable : -45-degree Polar.)

Tr1 S11 Refl SWR RefLvl: 1 U Res: 1 U/Div



Port#4 (Blue Cable +45-degree Polar.)

Tr2 S22 Refl SWR RefLvl: 1 U Res: 1 U/Div



Port#5 (Green Cable : 0/90-degree Polar.)

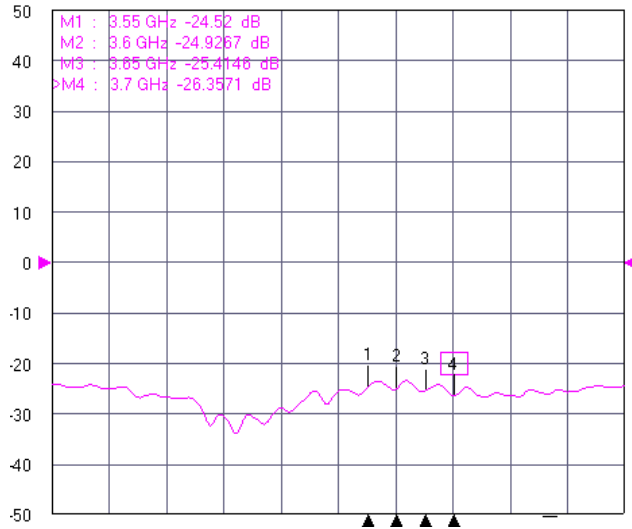


Performance Summary

Isolation

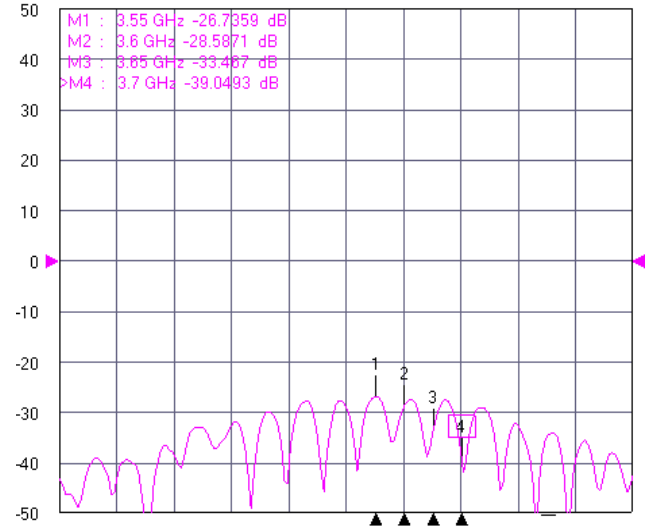
S12

S12 Trans LogM RefLvl: 0 dB Res: 10 dB/Div



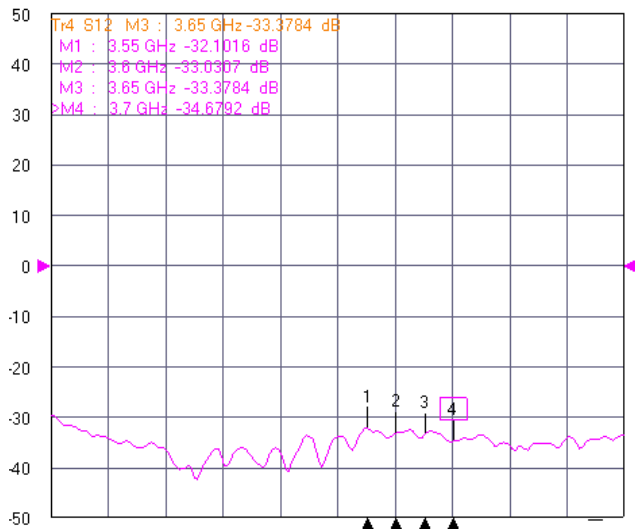
S13

S12 Trans LogM RefLvl: 0 dB Res: 10 dB/Div



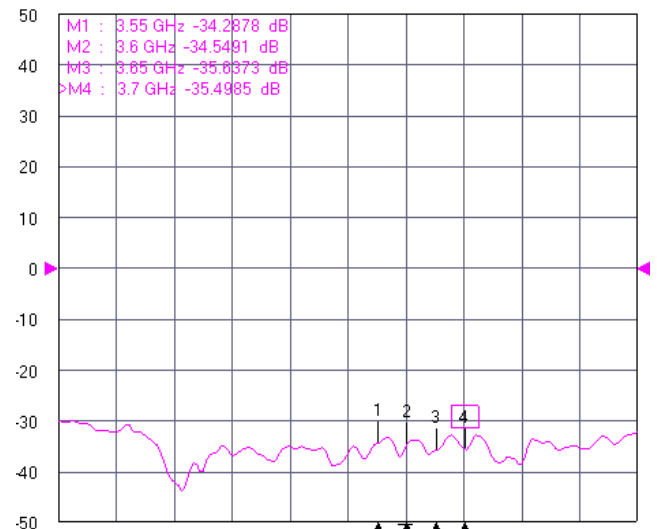
S14

S12 Trans LogM RefLvl: 0 dB Res: 10 dB/Div



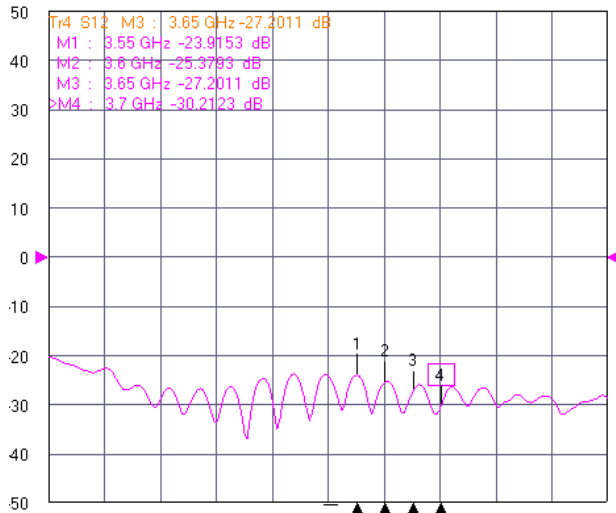
S23

S12 Trans LogM RefLvl: 0 dB Res: 10 dB/Div



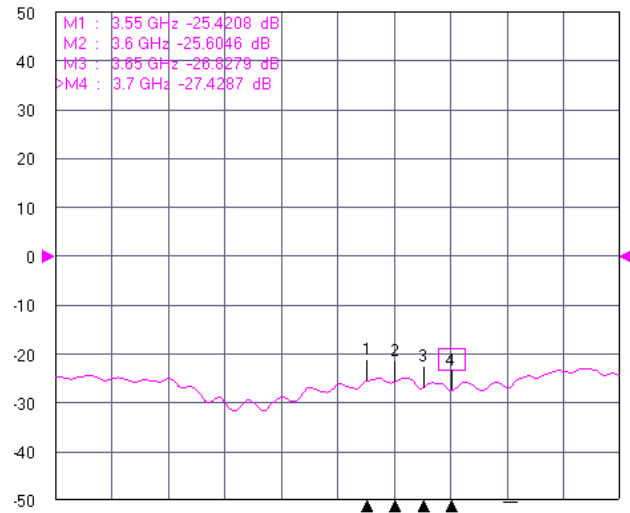
S24

S12 Trans LogM RefLvl: 0 dB Res: 10 dB/Div



S34

S12 Trans LogM RefLvl: 0 dB Res: 10 dB/Div

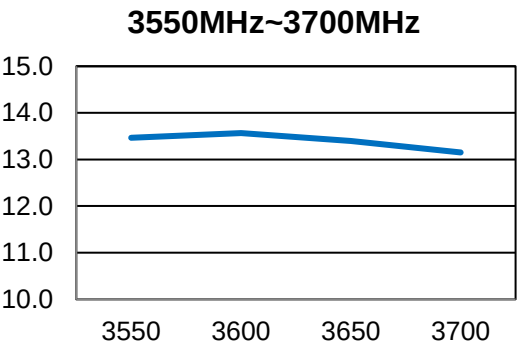


Performance Summary

Gain Table

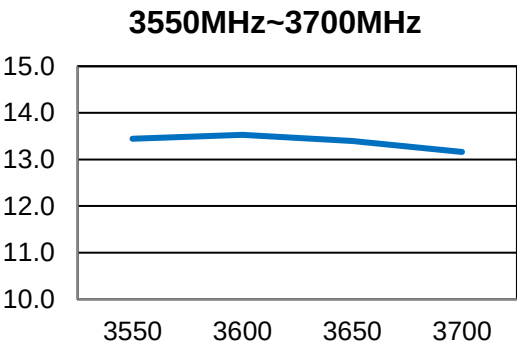
Port#1 (Gray Cable : -45-degree Polar.)

Peak Gain



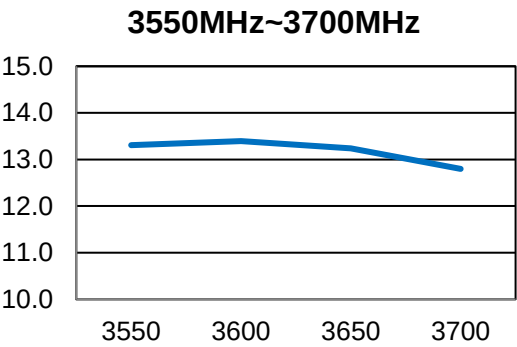
Port#2 (White Cable +45-degree Polar.)

Peak Gain



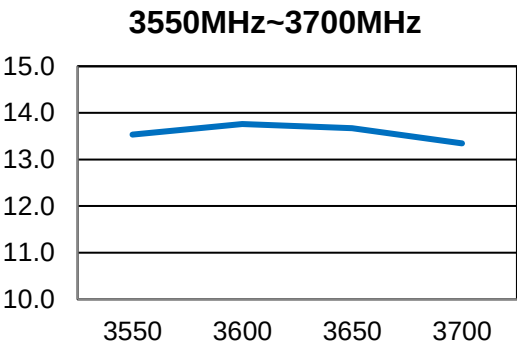
Port#3 (Black Cable : -45-degree Polar.)

Peak Gain



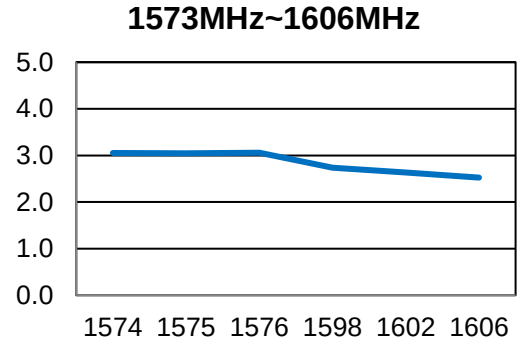
Port#4 (Blue Cable +45-degree Polar.)

Peak Gain



Port#5 (Green Cable : 0/90-degree Polar.)

Peak Gain



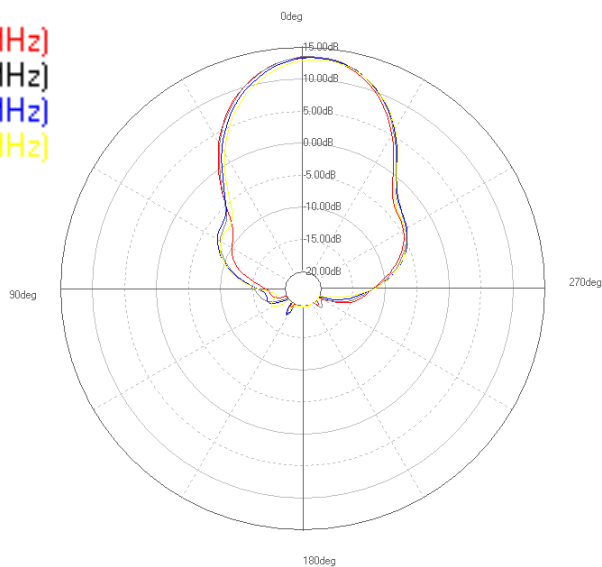
Radiation Pattern

PORT#1 -45-degree Polar.

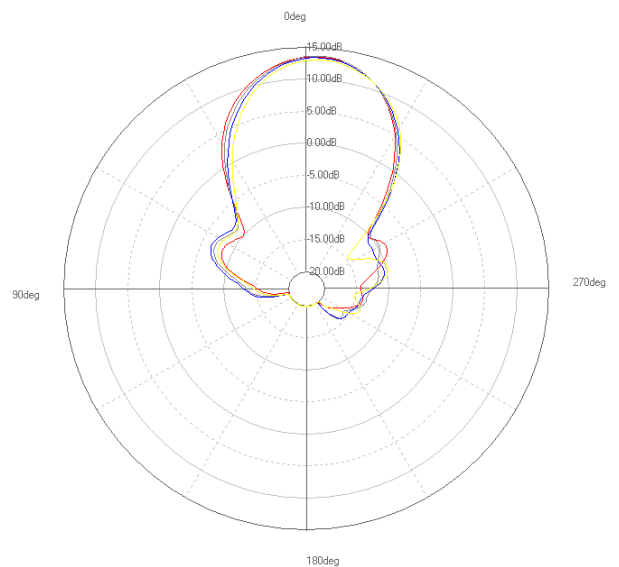
H-plane

Legend

- 3550(MHz)
- 3600(MHz)
- 3650(MHz)
- 3700(MHz)



V-plane

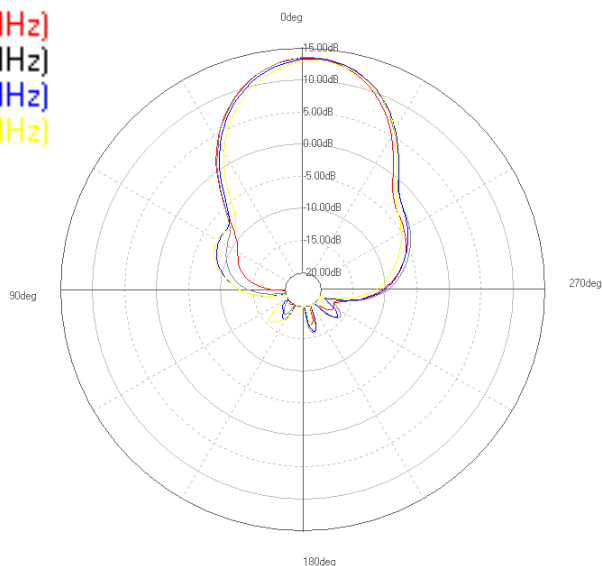


PORT#2 +45-degree Polar.

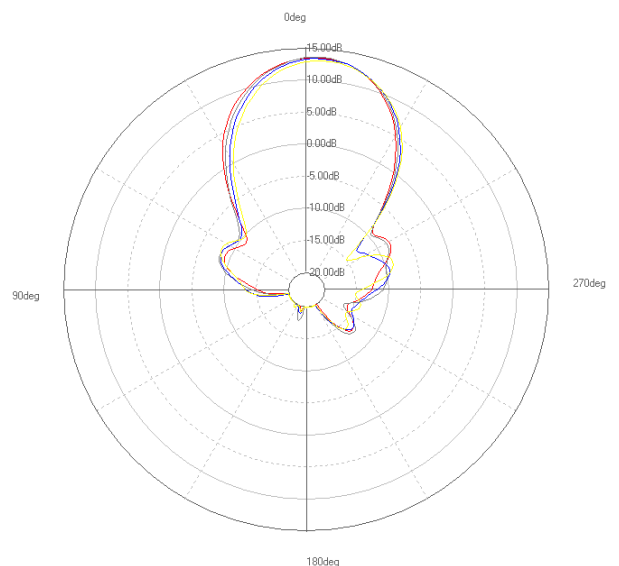
H-plane

Legend

- 3550(MHz)
- 3600(MHz)
- 3650(MHz)
- 3700(MHz)



V-plane



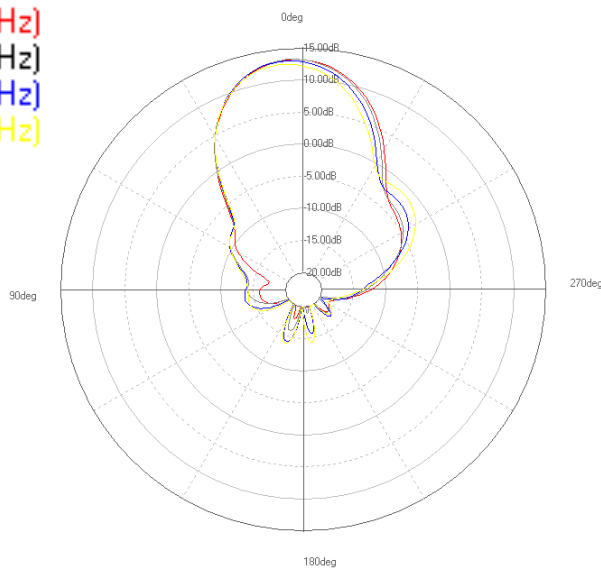
Radiation Pattern

PORT#3 -45-degree Polar.

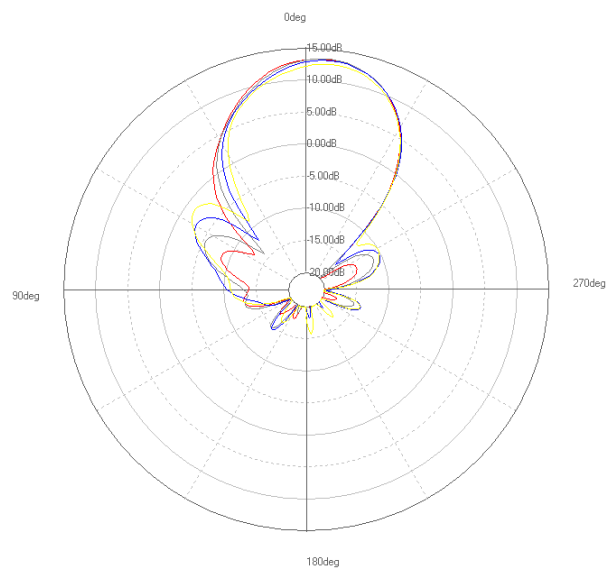
H-plane

Legend

- 3550(MHz)
- 3600(MHz)
- 3650(MHz)
- 3700(MHz)



V-plane

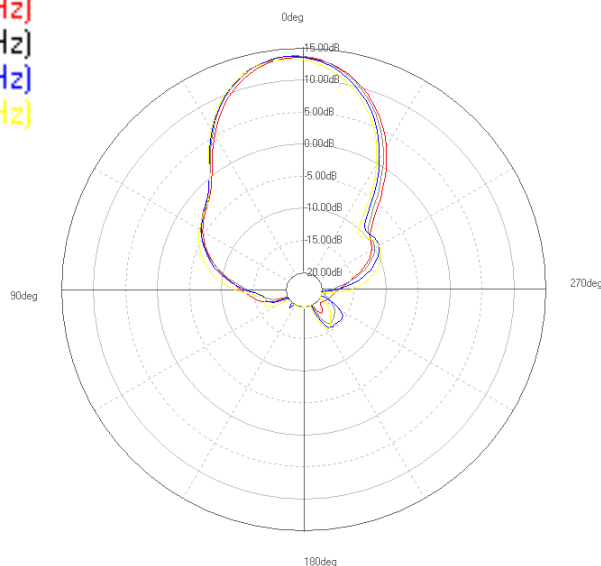


PORT#4 +45-degree Polar.

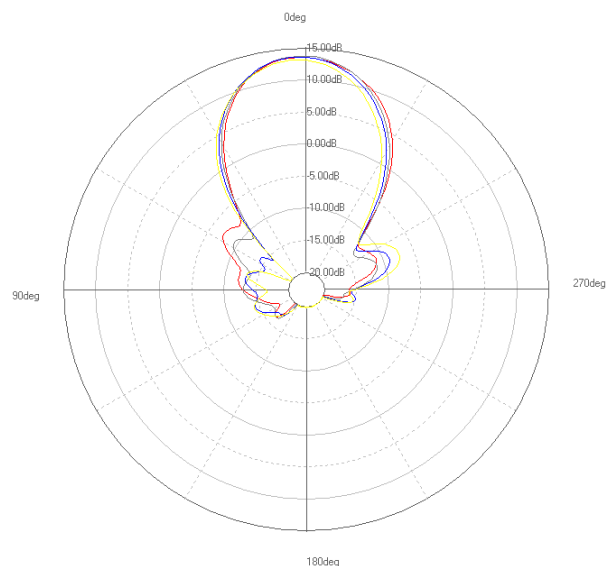
H-plane

Legend

- 3550(MHz)
- 3600(MHz)
- 3650(MHz)
- 3700(MHz)



V-plane



Radiation Pattern

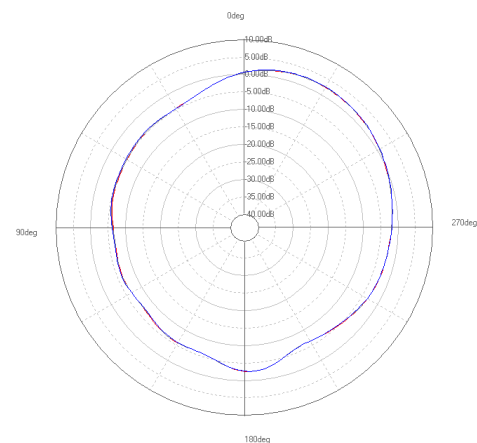
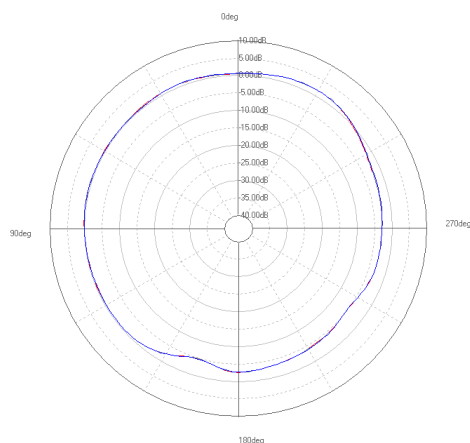
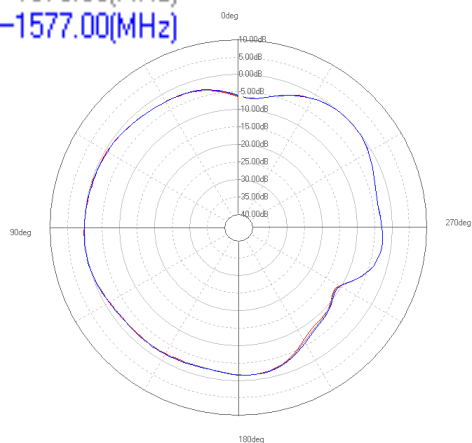
PORT#5 0/90-degree Polar.

Legend

— 1573.00(MHz) XY-plane
— 1575.00(MHz)
— 1577.00(MHz)

YZ-plane

ZX-plane



Legend

— 1598(MHz) XY-plane
— 1602(MHz)
— 1606(MHz)

YZ-plane

ZX-plane

