

P/No: DA-B48G-12-01-BL

✓ RF Specification

| Port                       | Port1                 | Port2         | Port3         | Port4         |
|----------------------------|-----------------------|---------------|---------------|---------------|
| Frequency Range            | 3550~3700 MHz         |               |               |               |
| Polarization               | -45                   | +45           | -45           | +45           |
| HPBW / Horizontal          | 34~35                 | 34~35         | 32~34         | 33~34         |
| HPBW / Vertical            | 33~35                 | 34~35         | 35~37         | 33~34         |
| Peak Gain                  | 12.9~13.6 dBi         | 12.9~13.5 dBi | 12.5~13.3 dBi | 13.0~13.7 dBi |
| VSWR                       | < 2.0 Max.:1          |               |               |               |
| Isolation:                 | >20 dB                |               |               |               |
| Cable:<br>OD 1.37 Low Loss | Gray L=155mm          | White L=150mm | Black L=160mm | Blue L=200mm  |
| Connector                  | I-PEX MHF 4L R/A PLUG |               |               |               |

| Port                  | GPS                 |
|-----------------------|---------------------|
| Frequency Range       | 1575 / 1602MHz      |
| Polarization          | Horizontal/Vertical |
| Horizontal / Vertical | 360 / 45°           |
| Peak Gain             | 2.5~3.1             |
| VSWR                  | 2.0Max.:1           |

✓ 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

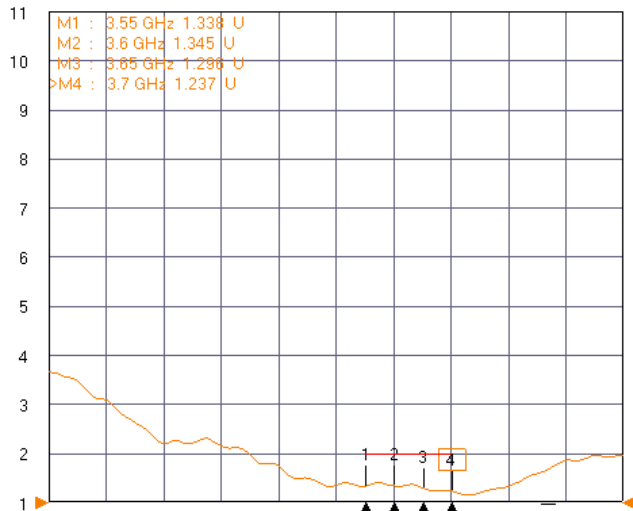
## Performance Summary

VSWR

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

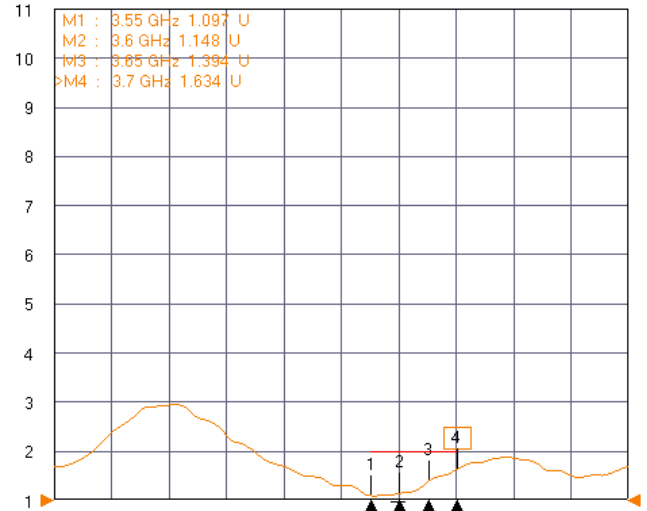
Port#1 (Gray Cable : -45-degree Polar.)

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



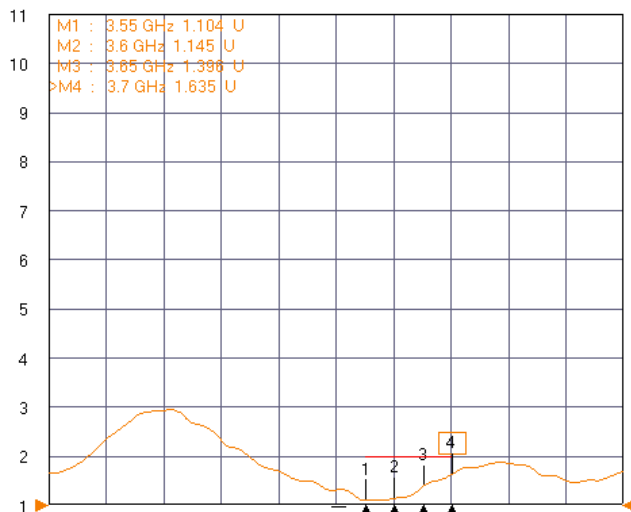
Port#2 (White Cable +45-degree Polar.)

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



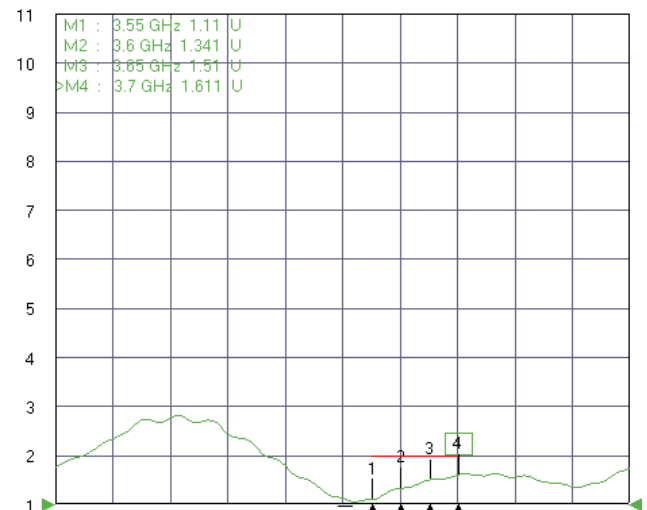
Port#3 (Black Cable : -45-degree Polar.)

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

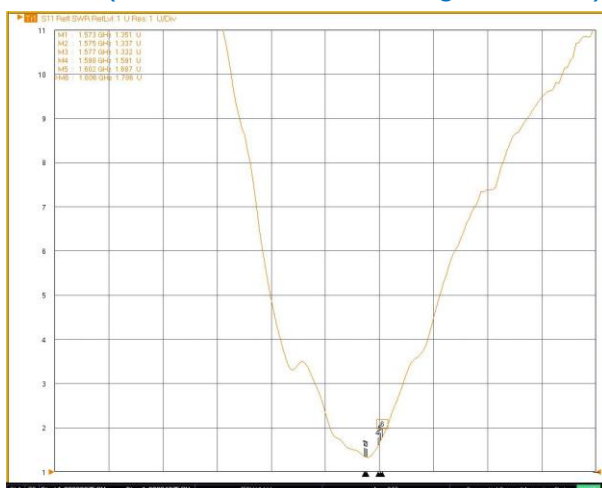


Port#4 (Blue Cable +45-degree Polar.)

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



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

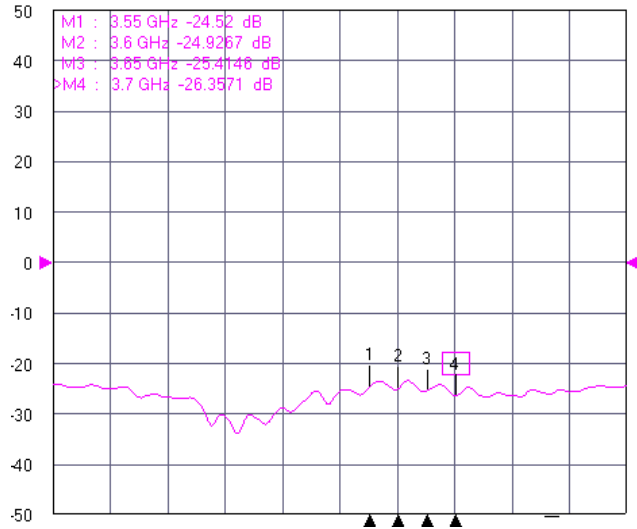


## Performance Summary

### Isolation

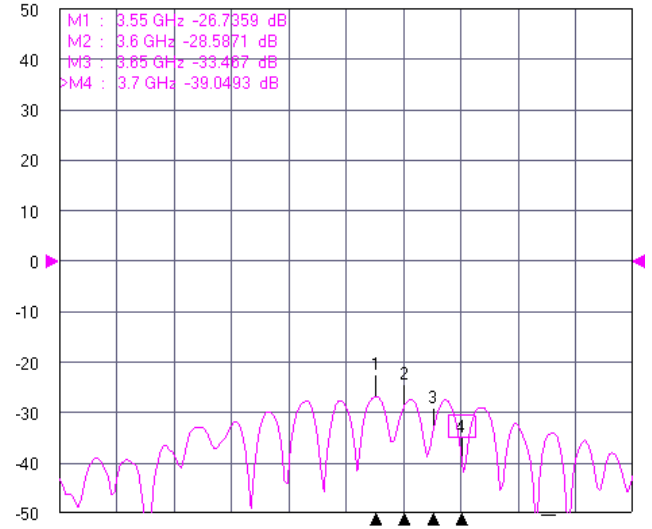
#### S12

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



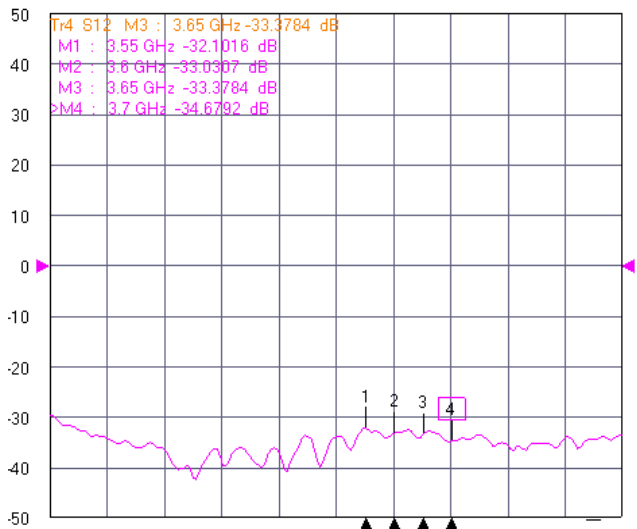
#### S13

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



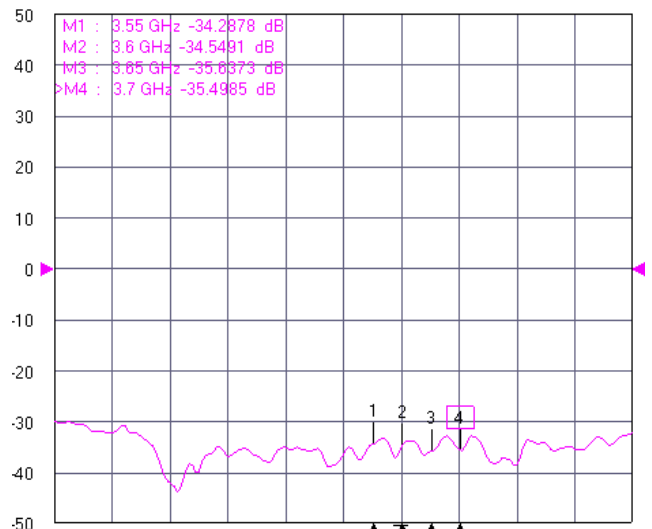
#### S14

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



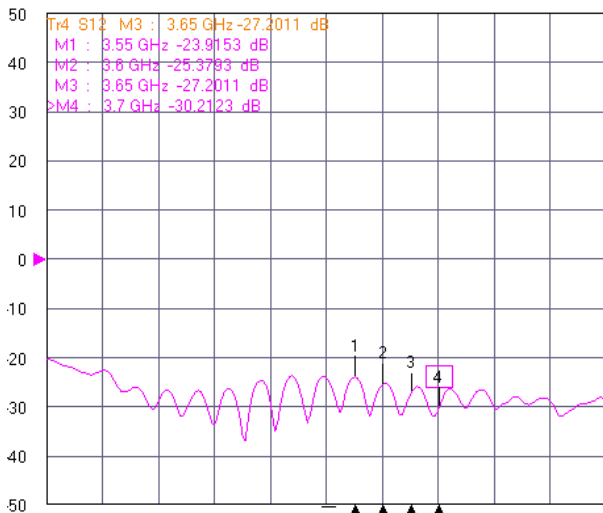
#### S23

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



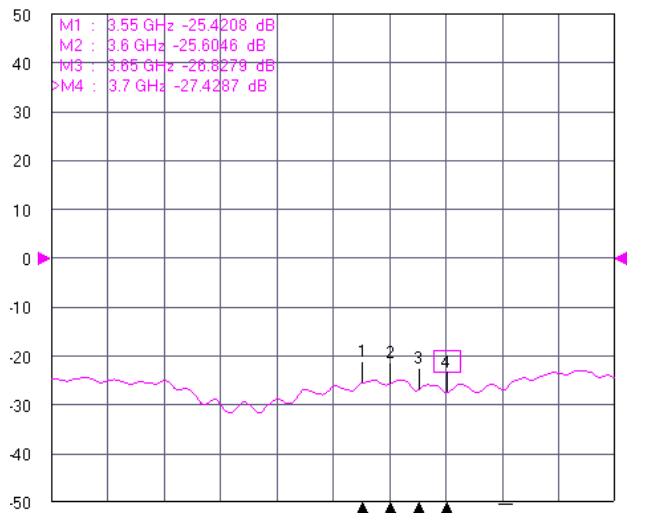
#### S24

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



#### S34

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



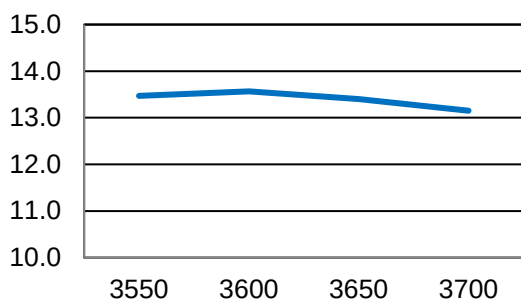
# Performance Summary

## Gain Table

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

**Peak Gain**

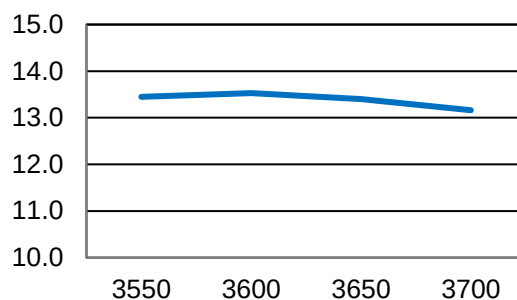
**3550MHz~3700MHz**



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

**Peak Gain**

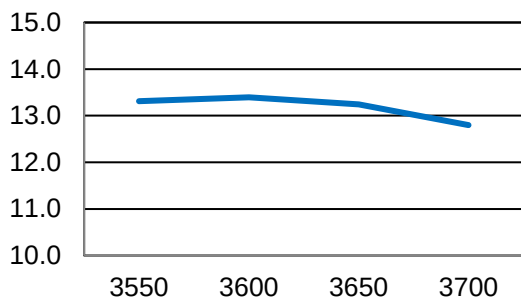
**3550MHz~3700MHz**



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

**Peak Gain**

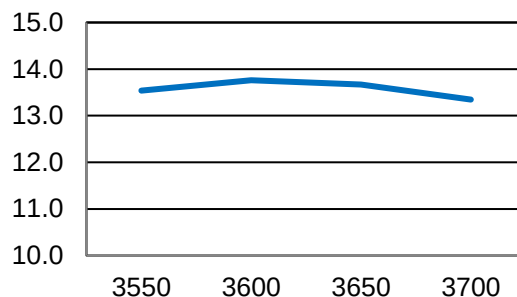
**3550MHz~3700MHz**



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

**Peak Gain**

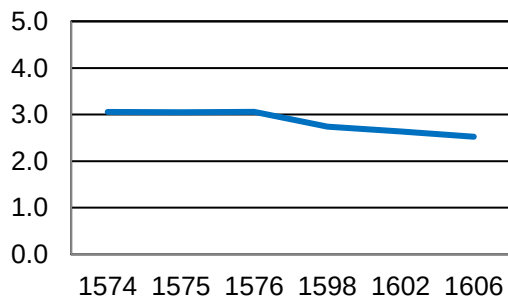
**3550MHz~3700MHz**



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

**Peak Gain**

**1573MHz~1606MHz**



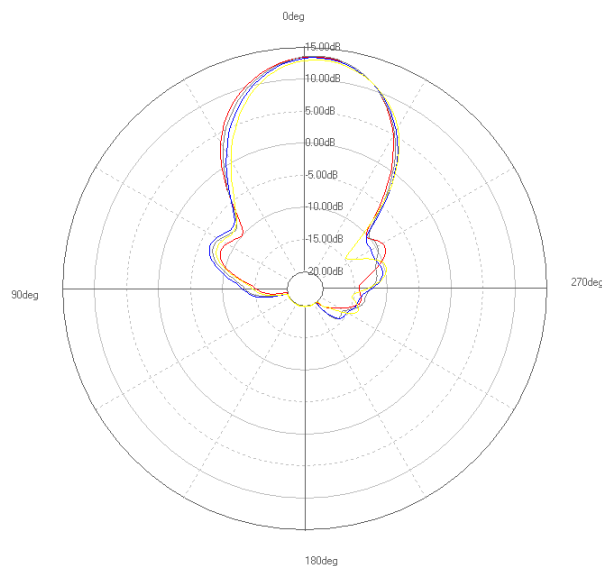
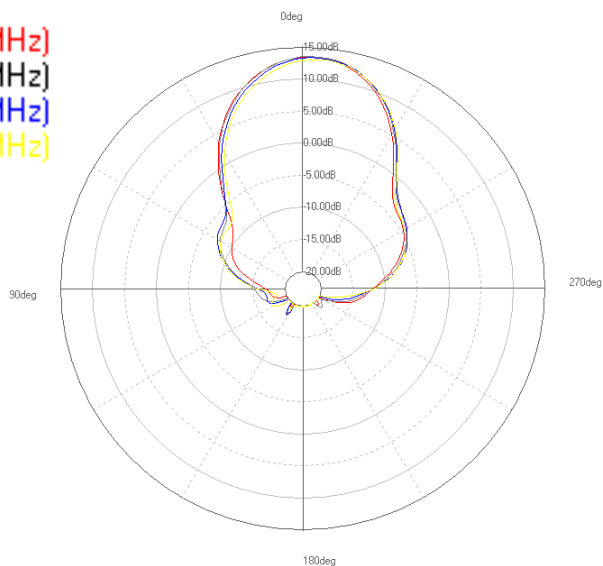
## Radiation Pattern ANT1 -45-degree Polar.

H-plane

V-plane

Legend

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



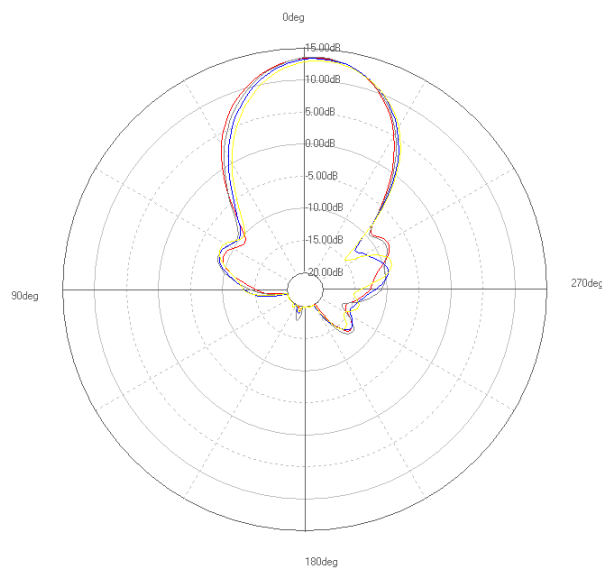
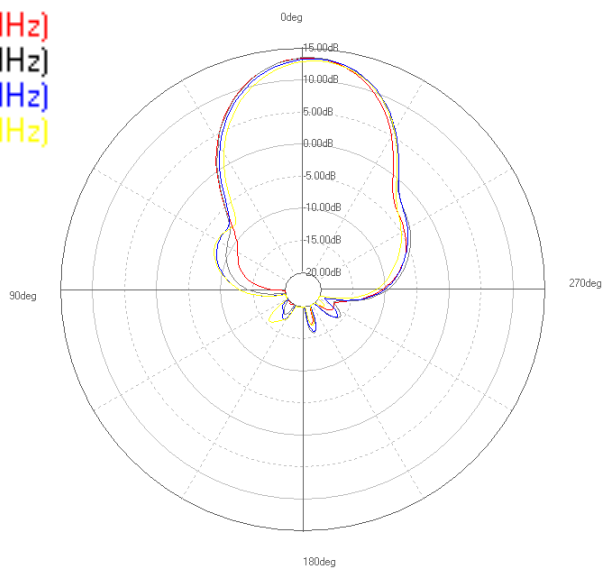
## Radiation Pattern ANT2 +45-degree Polar.

H-plane

V-plane

Legend

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



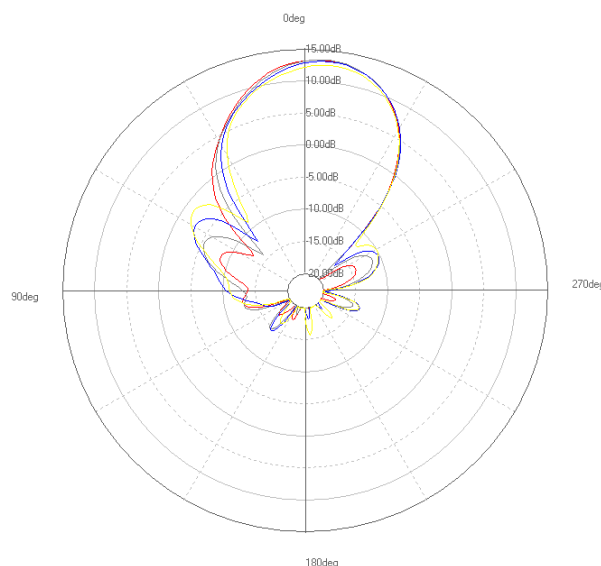
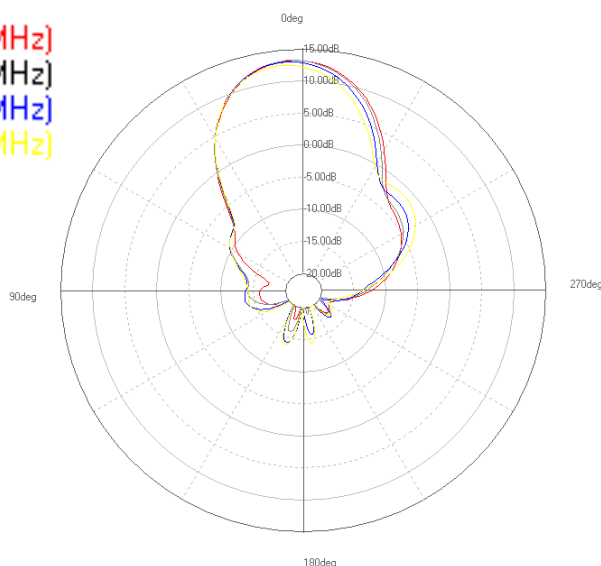
## Radiation Pattern ANT3 -45-degree Polar.

H-plane

V-plane

Legend

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



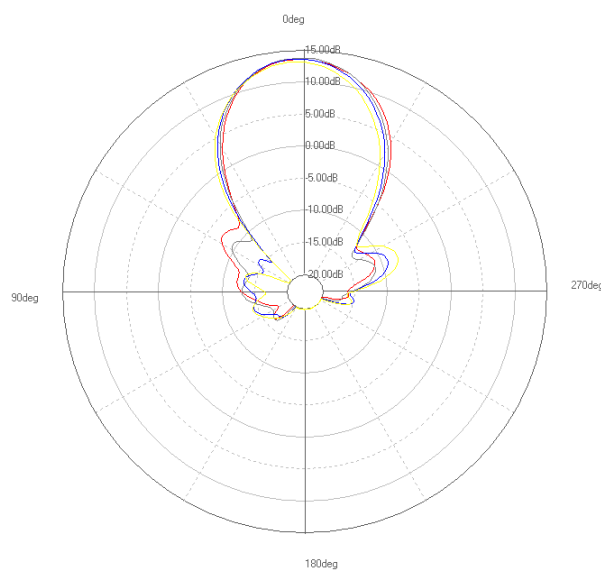
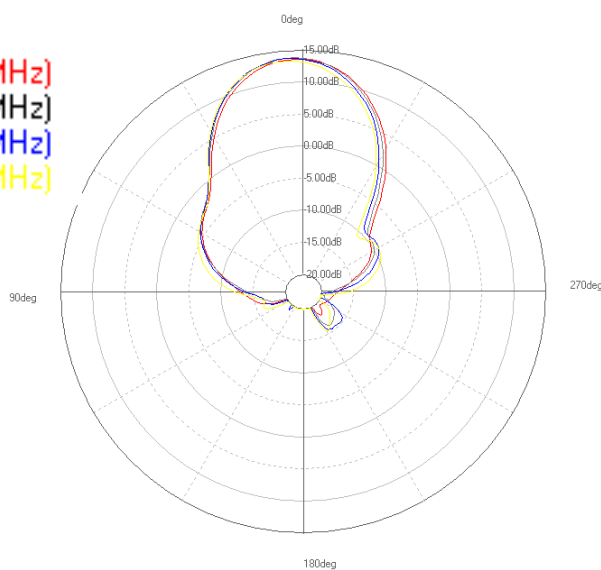
## Radiation Pattern ANT4 +45-degree Polar.

H-plane

V-plane

Legend

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



# Radiation Pattern ANT5 GPS

## H-plane

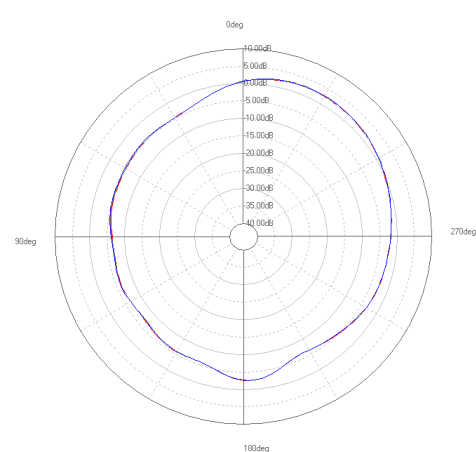
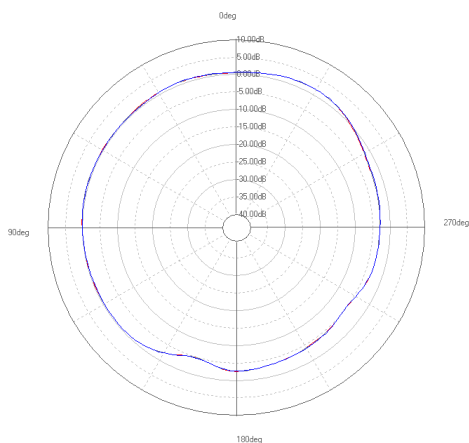
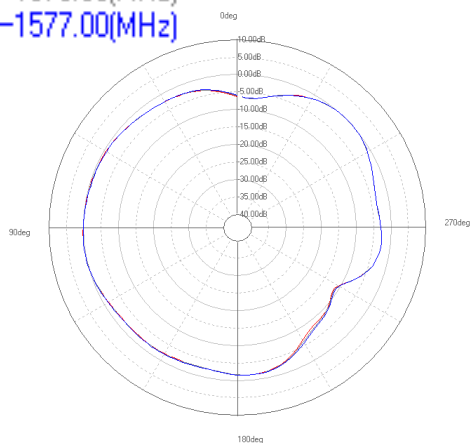
## V-plane

### 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

