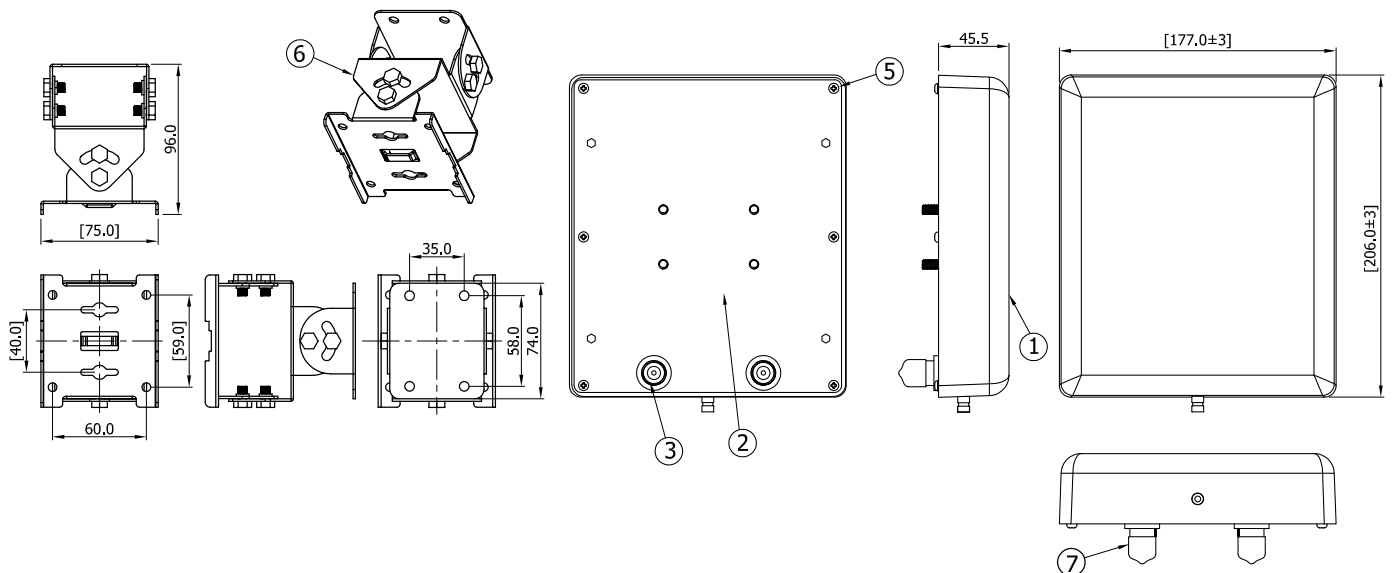
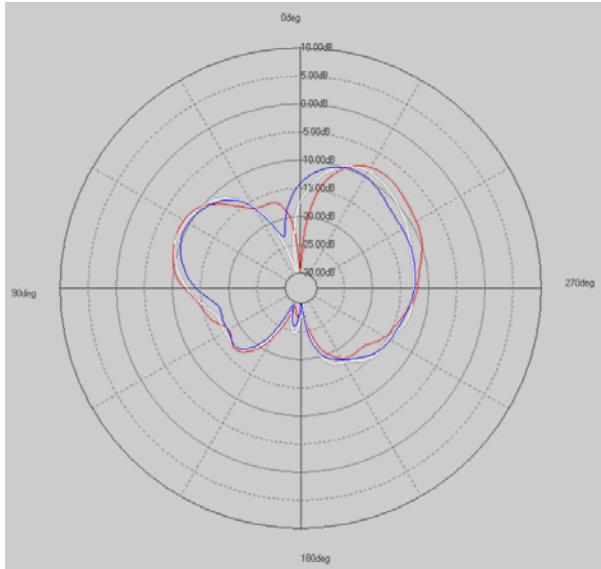


| Specification                |                             |
|------------------------------|-----------------------------|
| Electrical                   |                             |
| Test Environment             | With Housing                |
| Frequency Range              | 2400~2500MHz / 4900~5900MHz |
| VSWR                         | <2 (max)                    |
| Input Impedance              | 50 ohm                      |
| Isolation                    | <-20dB                      |
| Polarization                 | Vertical / Vertical         |
| Gain(Peak gain)              | 2.4G _7dBi                  |
|                              | 5G _8dBi                    |
| Efficiency                   | >50%                        |
| Half Power Beam Width (HPBW) | 2.4G                        |
|                              | 50±10 deg @ Vertical Cut    |
|                              | 90±10 deg @ Horizontal Cut  |
|                              | 5G                          |
|                              | 30±10 deg @ Vertical Cut    |
|                              | 120±10 deg @ Horizontal Cut |

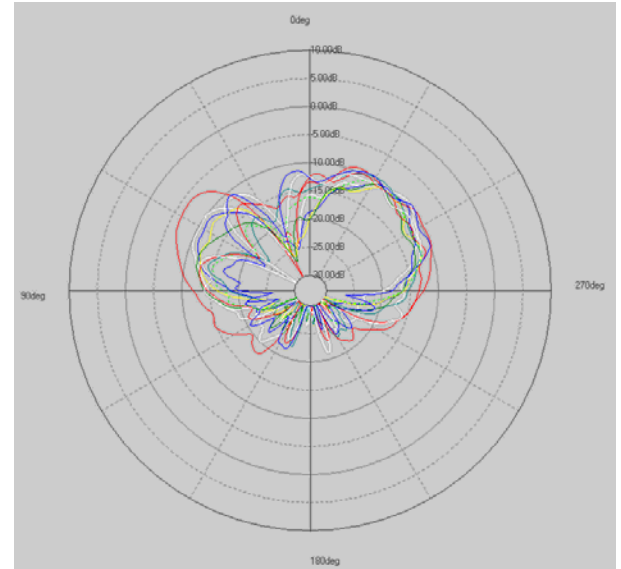
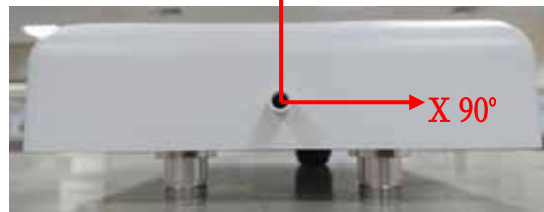


### 3.3 2D Patterns (Port 1)

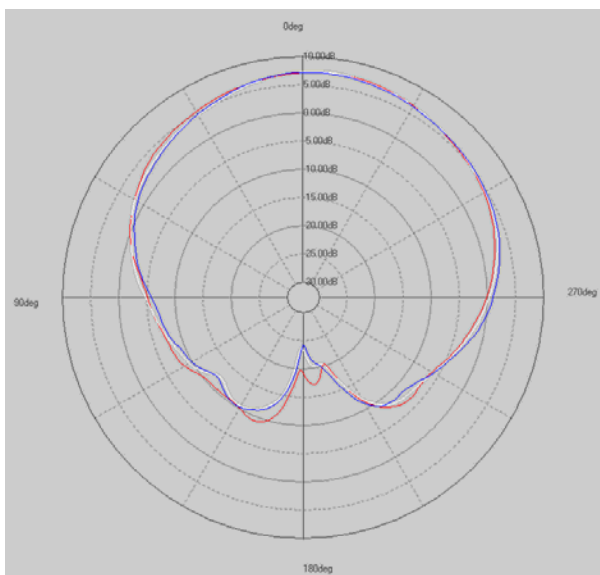
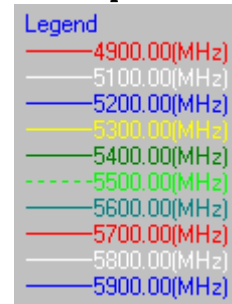
X-Z Plane



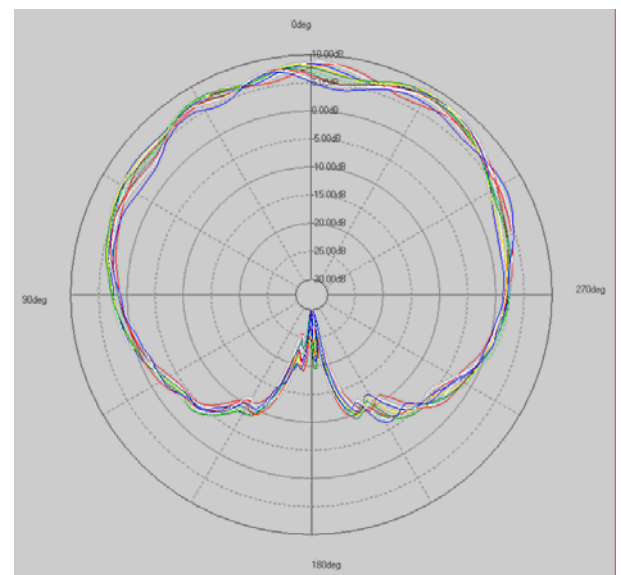
Cross pattern



Cross pattern

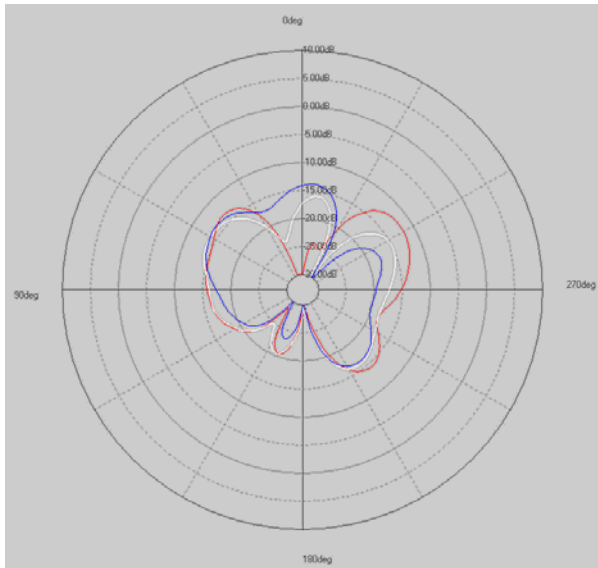


Co pattern

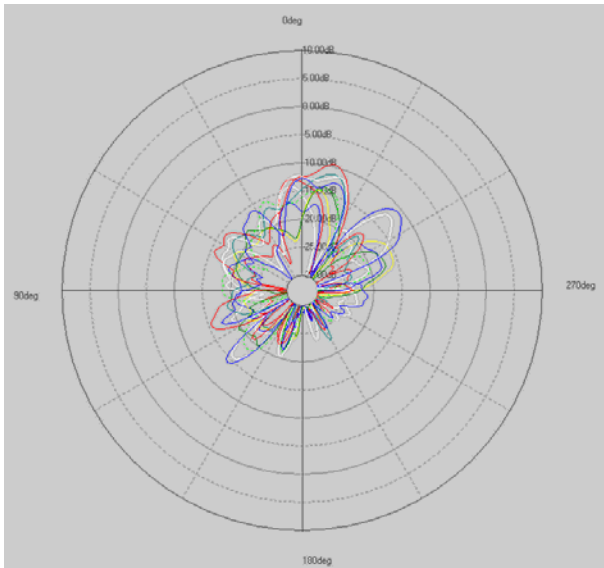
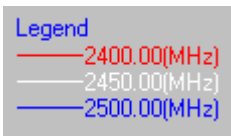


Co pattern

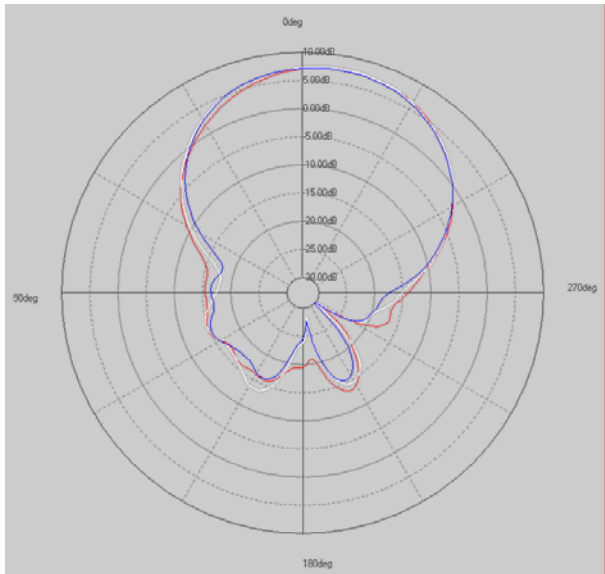
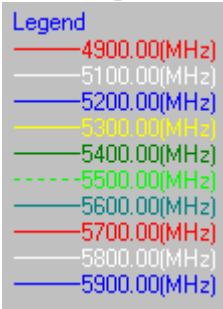
Y-Z Plane



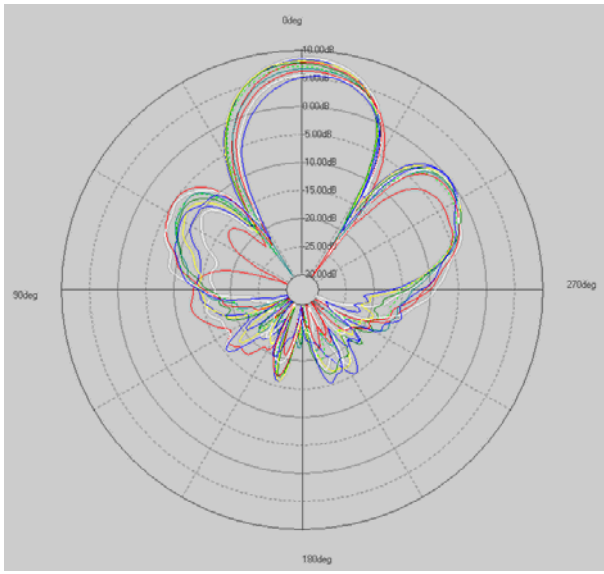
Cross pattern



Cross pattern

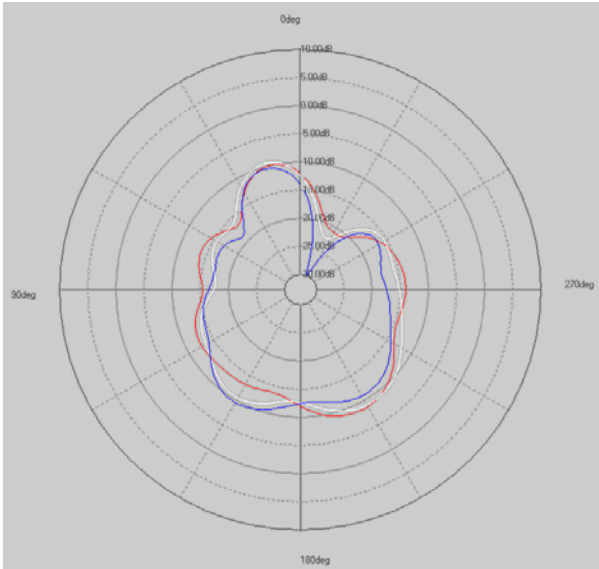


Co pattern

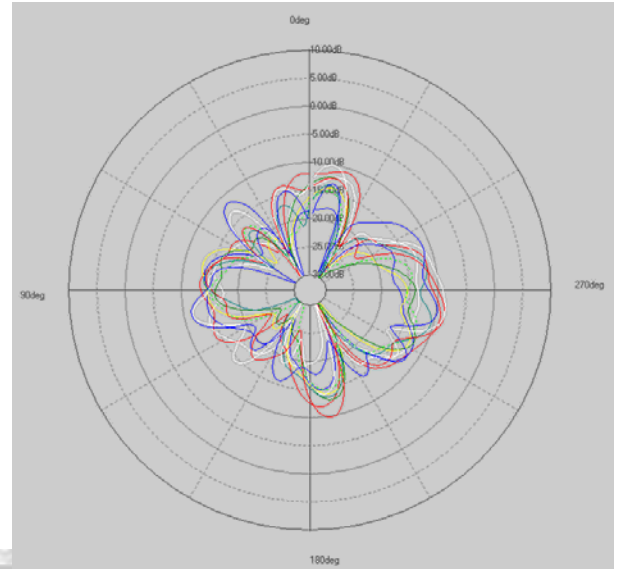


Co pattern

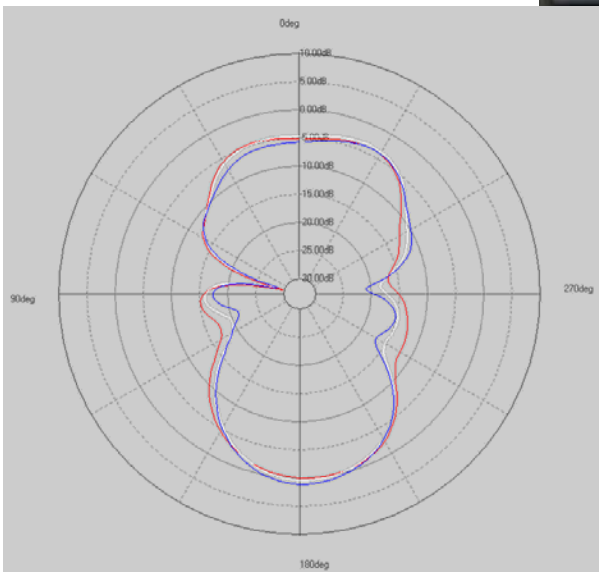
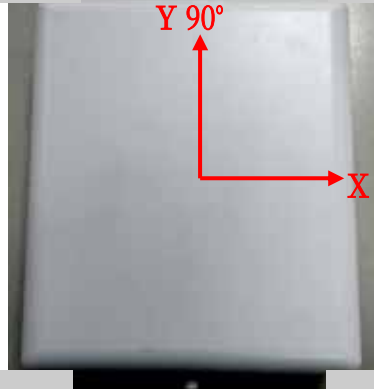
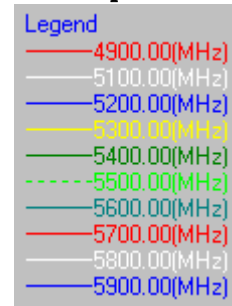
## X-Y Plane



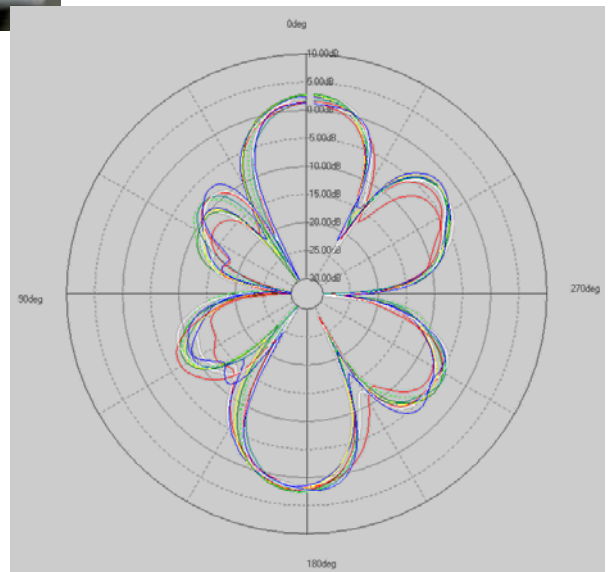
Cross pattern



Cross pattern



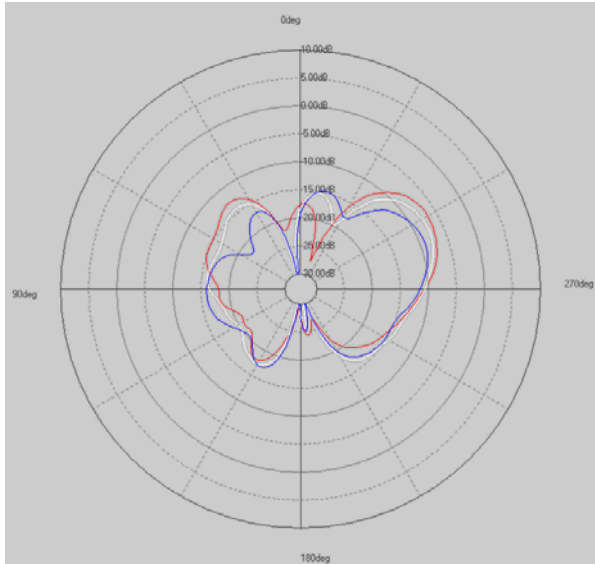
Co pattern



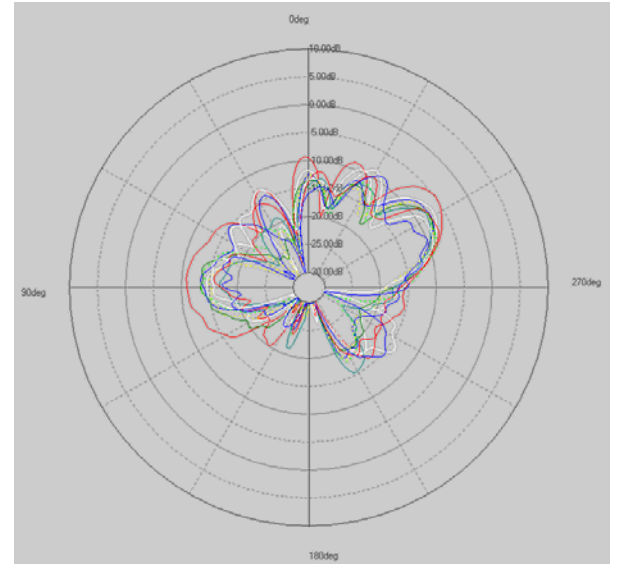
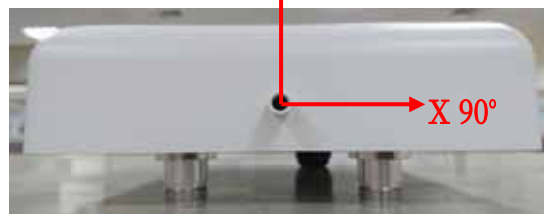
Co pattern

### 3.4 2D Patterns (Port 2)

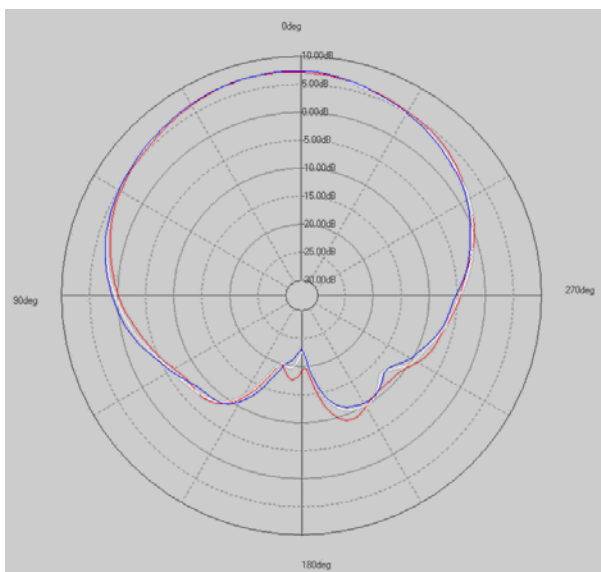
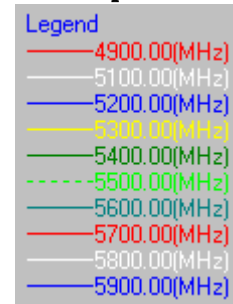
#### X-Z Plane



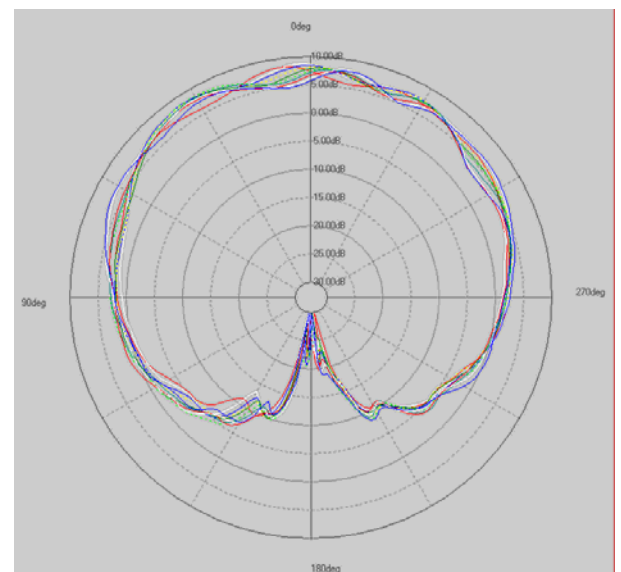
Cross pattern



Cross pattern

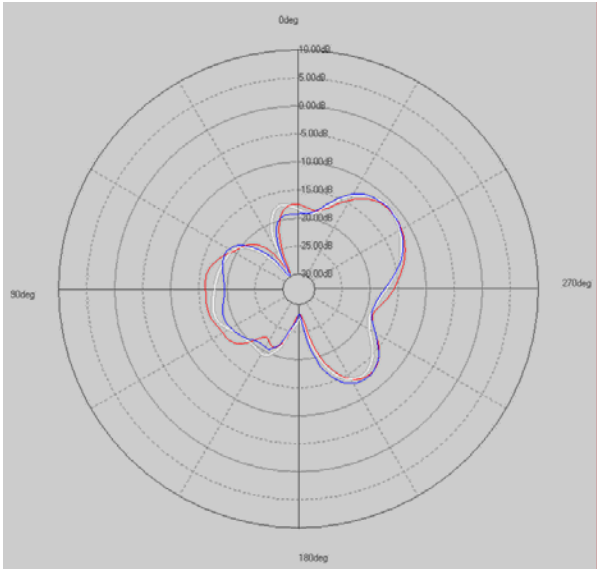


Co pattern

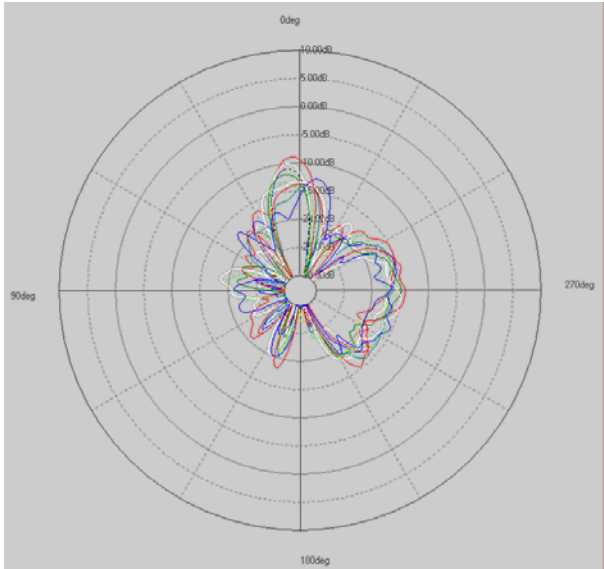
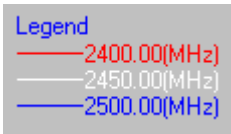


Co pattern

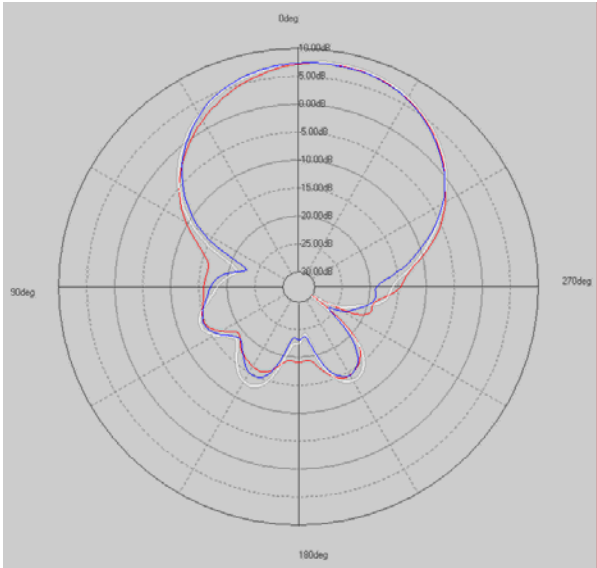
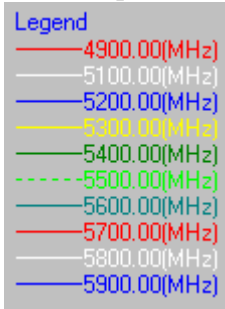
# Y-Z Plane



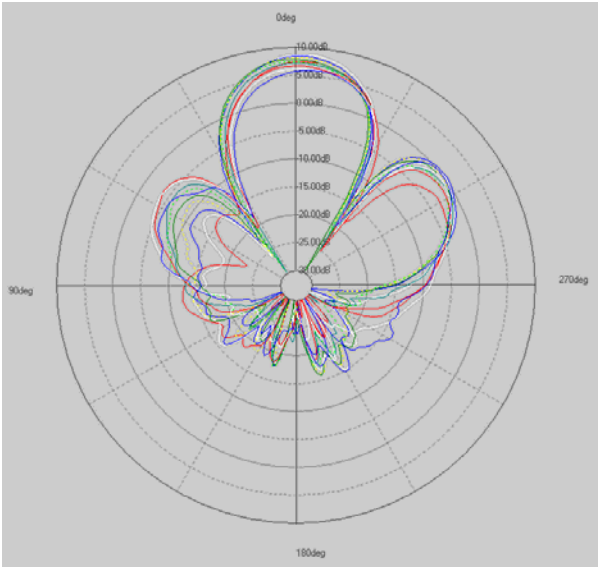
Cross pattern



Cross pattern

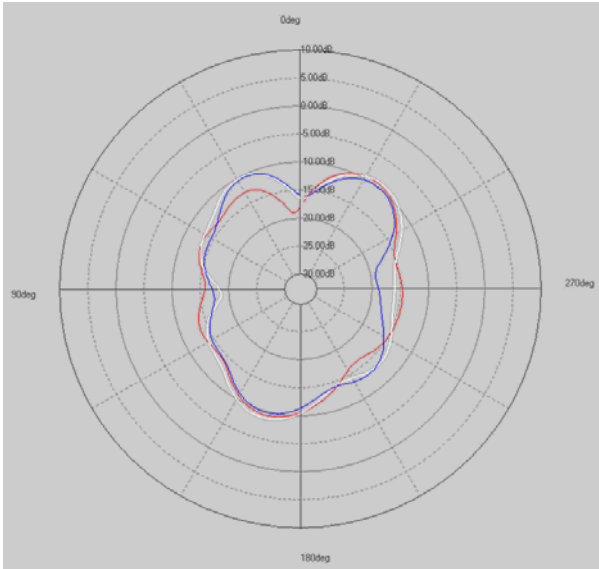


Co pattern

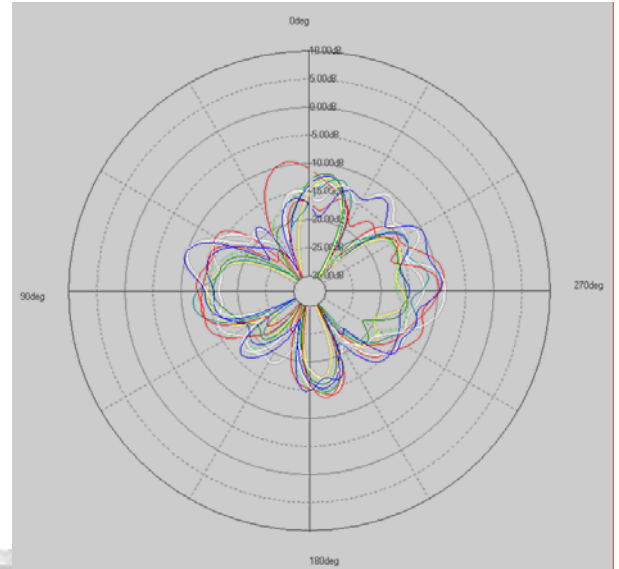


Co pattern

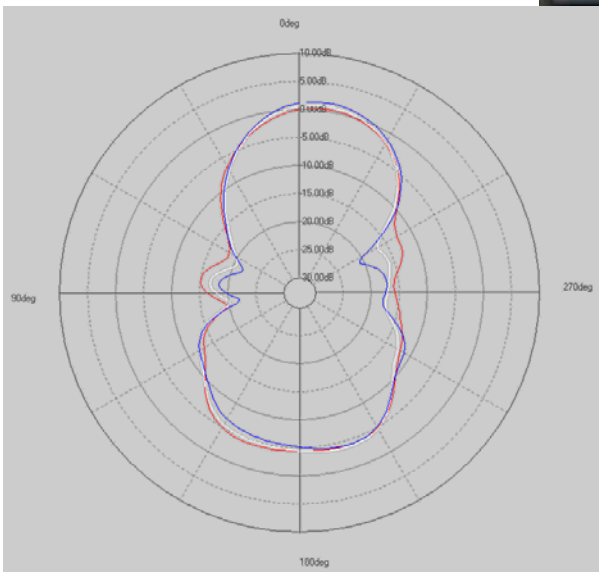
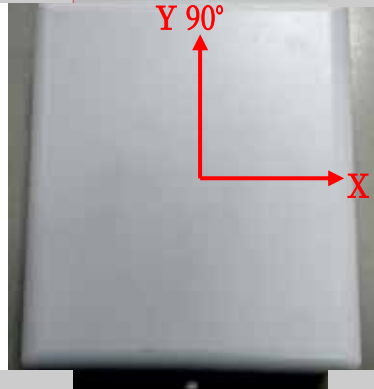
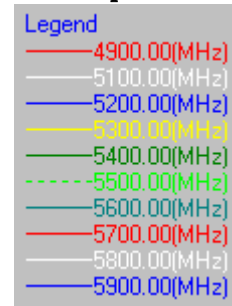
## X-Y Plane



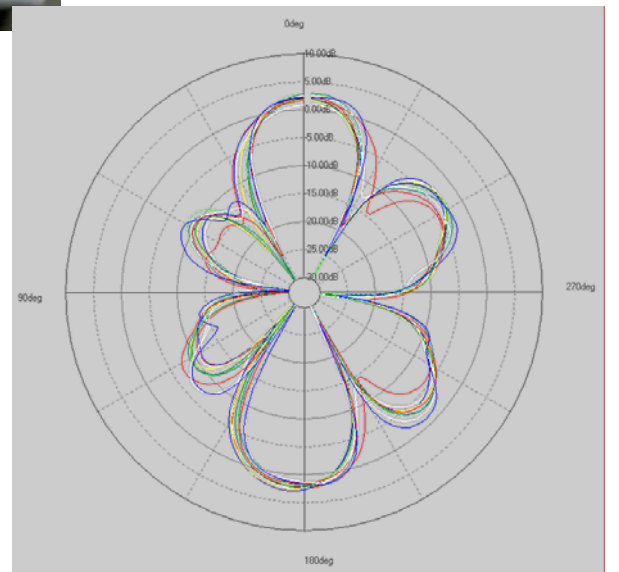
**Cross pattern**



**Cross pattern**



**Co pattern**



**Co pattern**