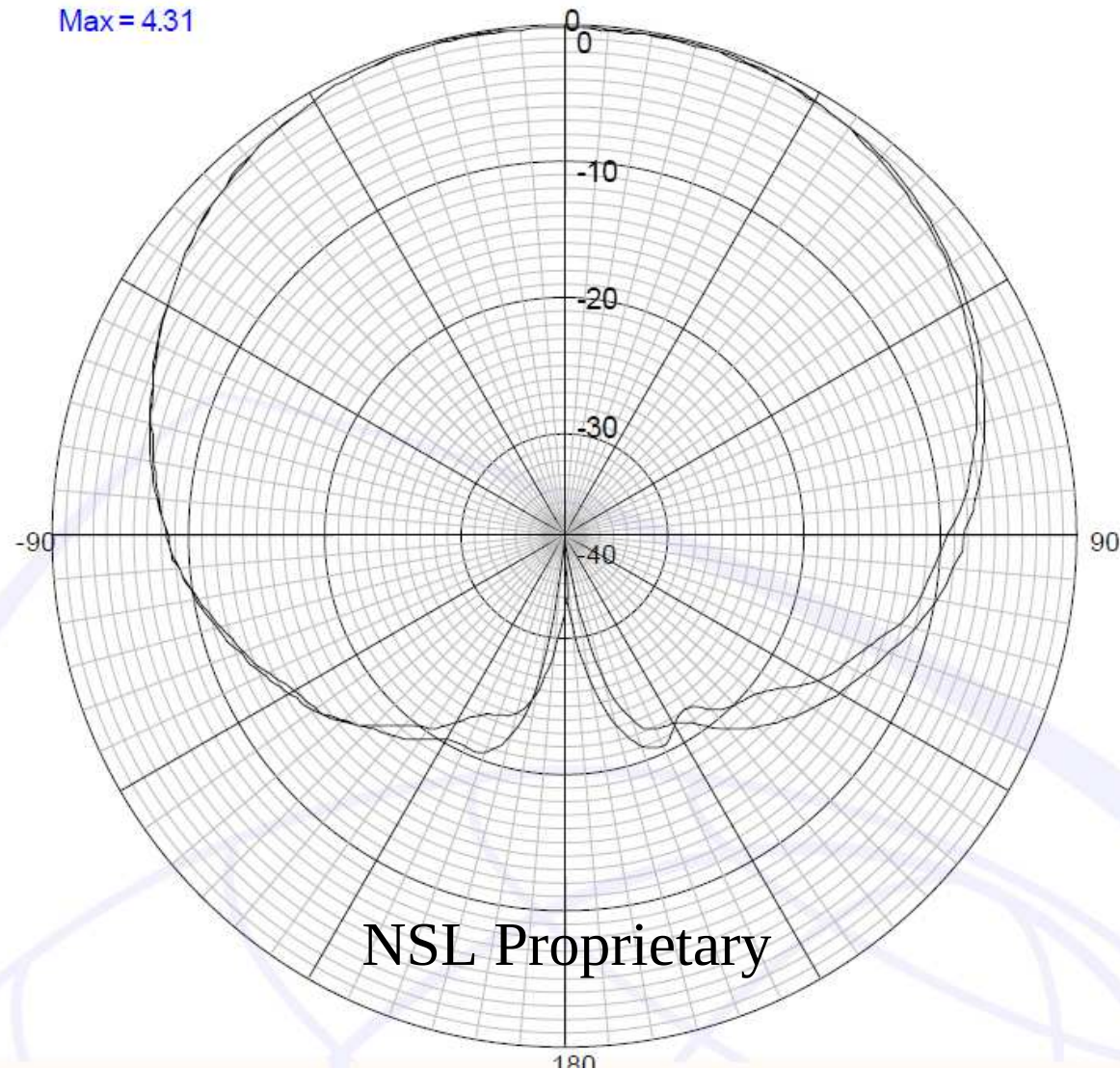


# Typical Elevation Gain for Tx in free space

Co-Pol - Amp

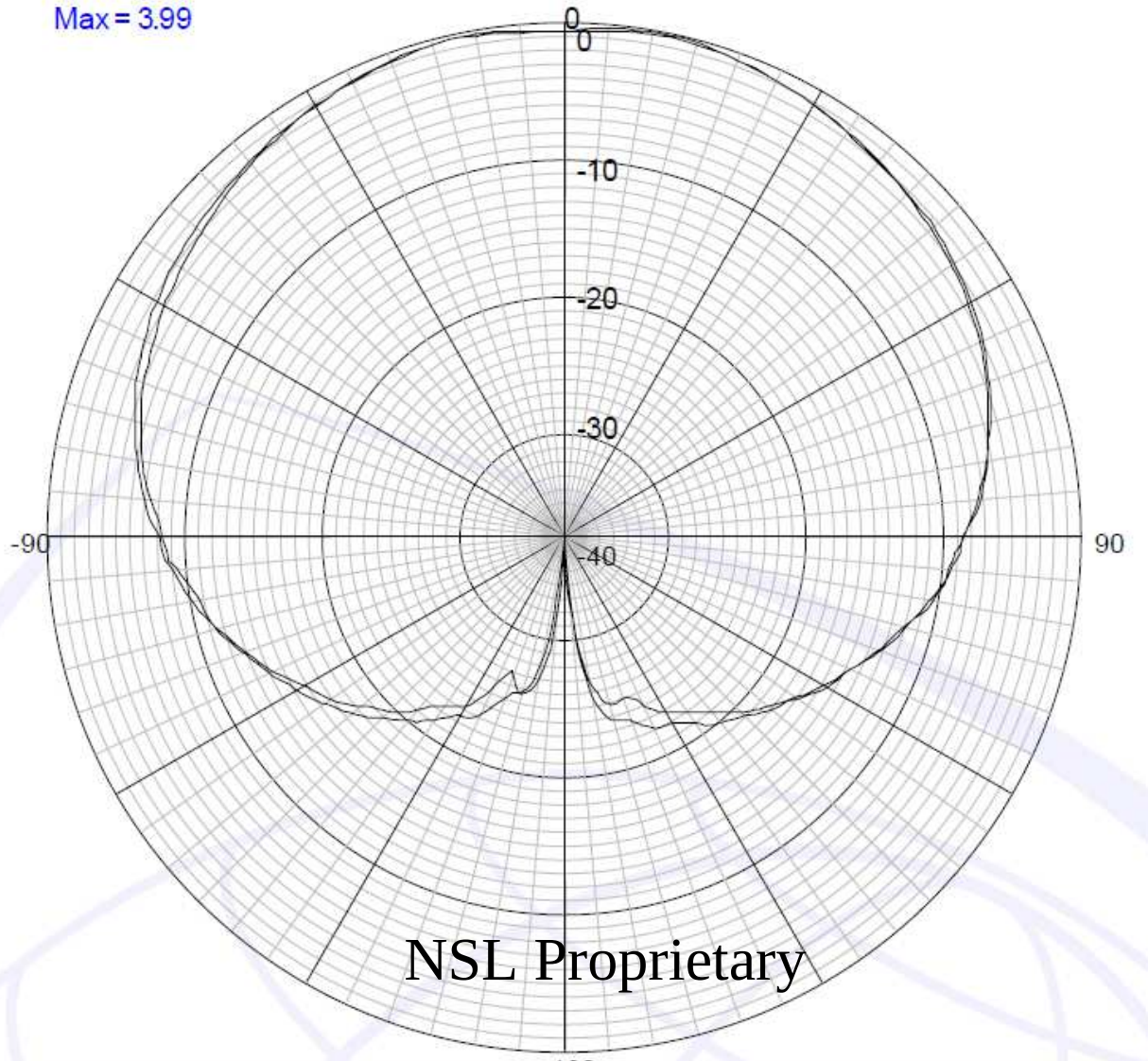
Max = 4.31



# Typical Elevation Gain for Rx in free space

Co-Pol - Amp

Max = 3.99



# NSL Proprietary

|                          |                            |            |                                           |            |                          |
|--------------------------|----------------------------|------------|-------------------------------------------|------------|--------------------------|
|                          | TX                         |            | RX                                        |            | SEE<br>PART NO.<br>BELOW |
| FREQUENCY:               | (1610 - 1625) MHz          |            | (2484 - 2499) MHz                         |            |                          |
| RADIATION PATTERN:       | HEMISPHERICAL              |            |                                           |            |                          |
| POLARIZATION:            | LHCP                       |            | LHCP                                      |            |                          |
| VSWR:                    | < 1.5:1                    |            |                                           |            |                          |
| GAIN (dB):               | 4 ft G.P.                  | Free Space | 4 ft G.P.                                 | Free Space |                          |
| @ 90° (Zenith):          | +4.4                       | +4.3       | +2.2                                      | +3.9       |                          |
| @ 10° Elevation (Ave):   | -1.6                       | -2.9       | -1.4                                      | -2.6       |                          |
| @ 20° Elevation (Ave):   | +1.1                       | -1.2       | +1.3                                      | -0.9       |                          |
| @ 30° Elevation (Ave):   | +2.1                       | +0.5       | +0.4                                      | +0.3       |                          |
| @ 45° Elevation (Ave):   | +2.3                       | +2.5       | +0.6                                      | +1.7       |                          |
| @ 70° Elevation (Ave):   | +3.7                       | +4.2       | +0.0                                      | +3.5       |                          |
| AXIAL RATIO @ Zenith:    | 2 dB                       |            | 2 dB                                      |            |                          |
| POWER HANDLING:          | >5 W                       |            | 1 Watt                                    |            |                          |
| DC GROUNDING:            | YES (LIGHTNING PROTECTION) |            |                                           |            |                          |
| FILTER (REJ. @1616 MHz): | > 57 dB                    |            |                                           |            |                          |
|                          |                            |            |                                           |            |                          |
| LNA GAIN:                | N/A                        |            | (35 +/- 1) dB                             |            |                          |
| LNA NOISE FIGURE:        | N/A                        |            | 2.8 dB                                    |            |                          |
| LNA VOLTAGE:             | N/A                        |            | (+2.5 to +30) Volts DC<br>FROM Rx RF CON. |            |                          |
| LNA DRAWING CURRENT:     | N/A                        |            | < 38 mA                                   |            |                          |

Rx Filter > 100dB rejection @ 1616 MHz