

Regulatory WLAN Antenna Information (Template)

English Language Required for Intel Regulatory Review / Approval

(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.

Remove Intel references and make this your own document)

| Platform information | | | | | | | | | | |
|--|---------------------------|---|---------------------------------------|-----------------------------------|--|------------------------|----------------------------------|------------------------|------------------------|-------------------------|
| Brand | ODM | RMN | Intel platform (ex: Yes, No or NA) | | Platform type (ex: regular NB, convertible PC, AIO...etc) | | *SAR minimum separation (mm) | | | |
| HP Inc. | Compal | TPN-C166 | No | | Convertible PC | | 2.58mm | | | |
| *****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection. | | | | | | | | | | |
| Antenna information | | | | | | | | | | |
| Vendor | | Type | | Antenna Part number (Main/Tx2) | | | Antenna Part number (Aux/Tx1) | | | |
| WNC | | PIFA | | 48EABP0R | | | 48EABP0S | | | |
| Peak gain w/ cable loss (dBi)* | | | | | | | | | | |
| | 2.4GHz 2400-2483.5 MHz | 5.2GHz 5150-5250MHz | 5.3GHz 5250-5350MHz | 5.6GHz 5470-5725MHz | 5.8GHz 5725-5850MHz | 5.9GHz 5850-5895MHz | 6.2GHz 5925-6425MHz | 6.5GHz 6425-6525MHz | 6.7GHz 6525-6875MHz | 7.0 GHz 6875-7125MHz |
| Main | -0.11 | 2.48 | 2.77 | 2.98 | 0.87 | 2.02 | 2.18 | 2.21 | 2.21 | 2.57 |
| Aux | 0.21 | 0.32 | 2.13 | 0.77 | 2.14 | 2.75 | 2.7 | 1.99 | 1.85 | 1.22 |
| Module Information | | | | | | | | | | |
| Model | | Form factor and suffixes | | | | | | | | |
| MT7922A22M | | Mediatek Tequini2 RZ616 Wi-Fi 6E +Bluetooth 5.3 M.2 2230 AIM-T 160MHz PCI-e+USB WW WLAN | | | | | | | | |

Antenna Information

Section 1. Antenna Assembly Specifications

| 1A | 1B | 1C | 1D | 1E | 1F | 1G | 1H | |
|--|---------------------------------|--------------|---|----------------|---------------------------------|--------------------------------|----------|-----------------|
| Antenna Part Number | Manufacturer | Antenna Type | Cable Assembly Part Number and Information | Freq Range MHz | * Peak Gain W/ Cable loss (dBi) | Peak Gain w/o Cable Loss (dBi) | Max VSWR | Cable Loss (dB) |
| (P/N: 48EABP0R) Main Antenna (TX2) | Wistron Neweb Corporation | PIFA | P/N: MHF-4L PLUG -20632-001R-37 50 ohm Coaxial length: 485cm diameter: 1.37mm | 2400-2483.5 | -0.11 | 1.02 | 3 | 1.13 |
| | | | | 5150-5250 | 2.48 | 4.16 | 3 | 1.68 |
| | | | | 5250-5350 | 2.77 | 4.46 | 3 | 1.69 |
| | | | | 5470-5725 | 2.98 | 4.72 | 3 | 1.74 |
| | | | | 5725-5850 | 0.87 | 2.63 | 3 | 1.76 |
| | | | | 5850-5895 | 2.02 | 3.80 | 3 | 1.78 |
| | | | | 5925-6425 | 2.18 | 4.01 | 3 | 1.83 |
| | | | | 6425-6525 | 2.21 | 4.10 | 3 | 1.89 |
| | | | | 6525-6875 | 2.21 | 4.14 | 3 | 1.93 |
| 6875-7125 | 2.57 | 4.56 | 3 | 1.99 | | | | |
| (P/N: 48EABP0S) Aux Antenna (TX1) | Wistron Neweb Corporation | PIFA | P/N: MHF-4L PLUG -20632-001R-37 50 ohm Coaxial length: 585cm diameter: 1.37mm | 2400-2483.5 | 0.21 | 1.45 | 3 | 1.24 |
| | | | | 5150-5250 | 0.32 | 2.17 | 3 | 1.85 |
| | | | | 5250-5350 | 2.13 | 4.04 | 3 | 1.91 |
| | | | | 5470-5725 | 0.77 | 2.72 | 3 | 1.95 |
| | | | | 5725-5850 | 2.14 | 4.27 | 3 | 2.13 |
| | | | | 5850-5895 | 2.75 | 4.89 | 3 | 2.14 |
| | | | | 5925-6425 | 2.70 | 4.91 | 3 | 2.21 |
| | | | | 6425-6525 | 1.99 | 4.27 | 3 | 2.28 |
| | | | | 6525-6875 | 1.85 | 4.18 | 3 | 2.33 |
| 6875-7125 | 1.22 | 3.62 | 3 | 2.40 | | | | |

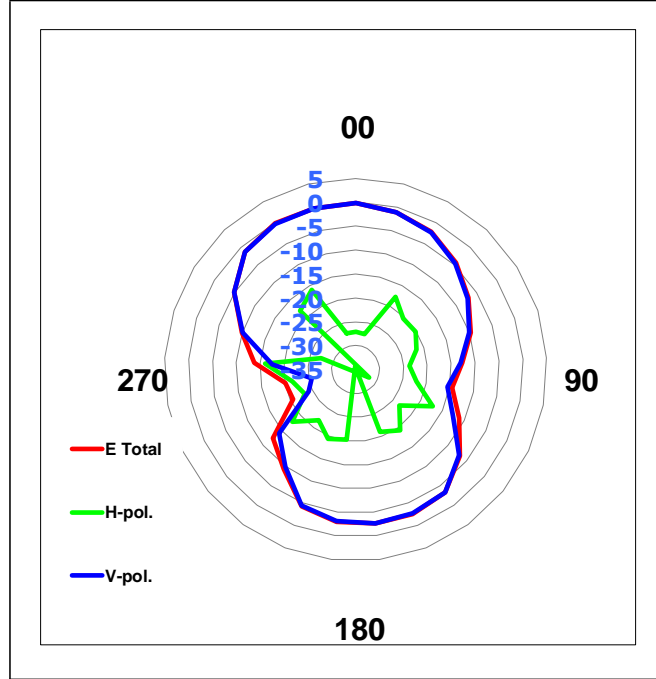
- 3D Antenna Peak Gain required being test in system basis.

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

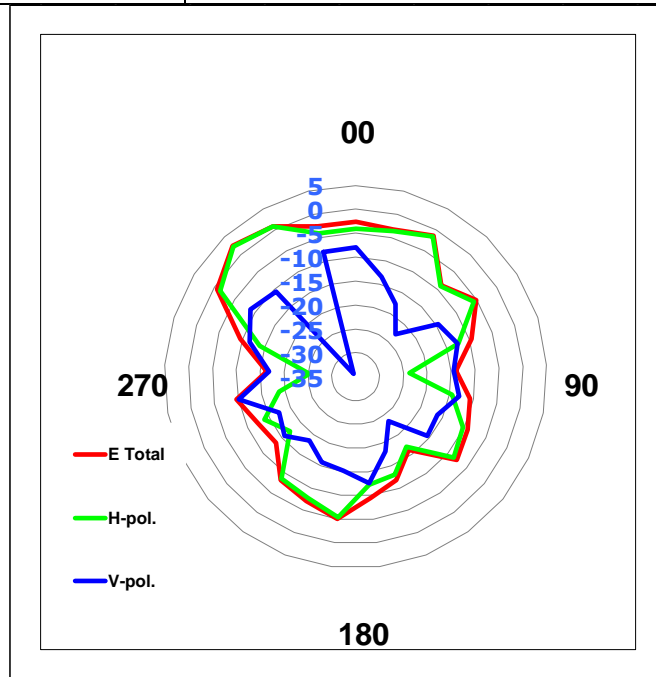
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 2400-2483.5 | -0.11 |



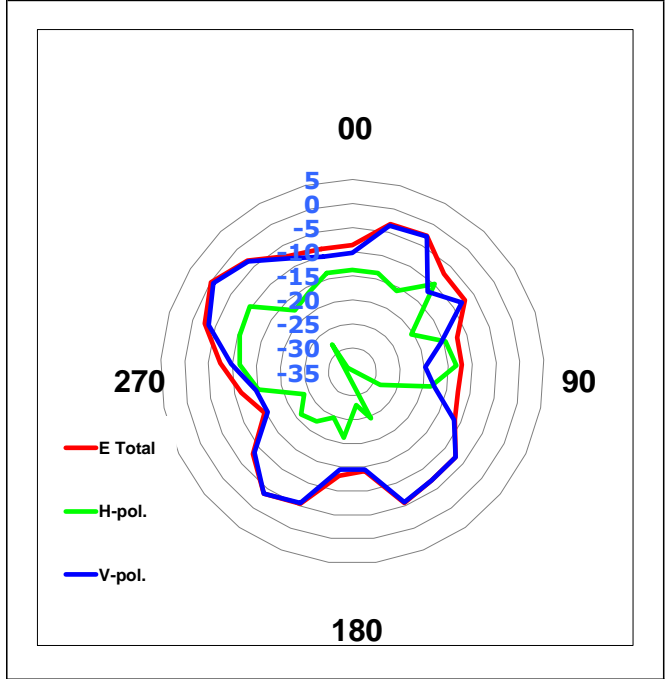
Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5150-5250 | 2.48 |



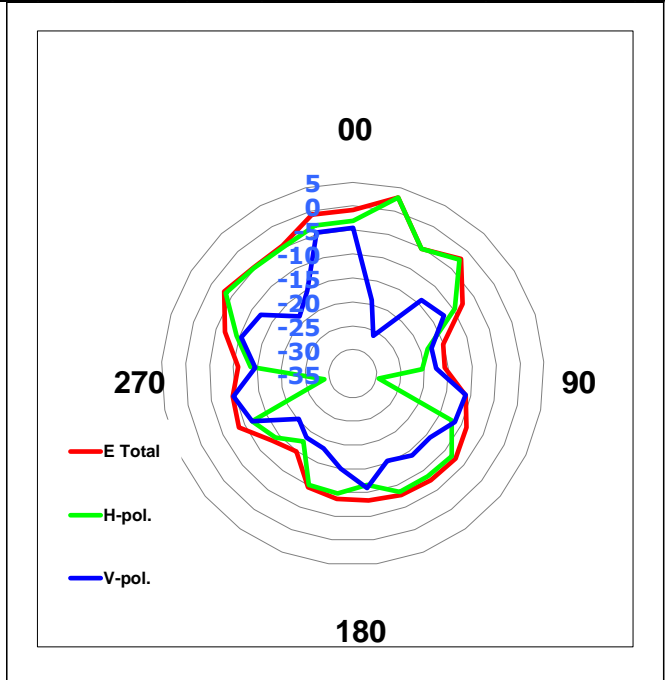
Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350 | 2.77 |

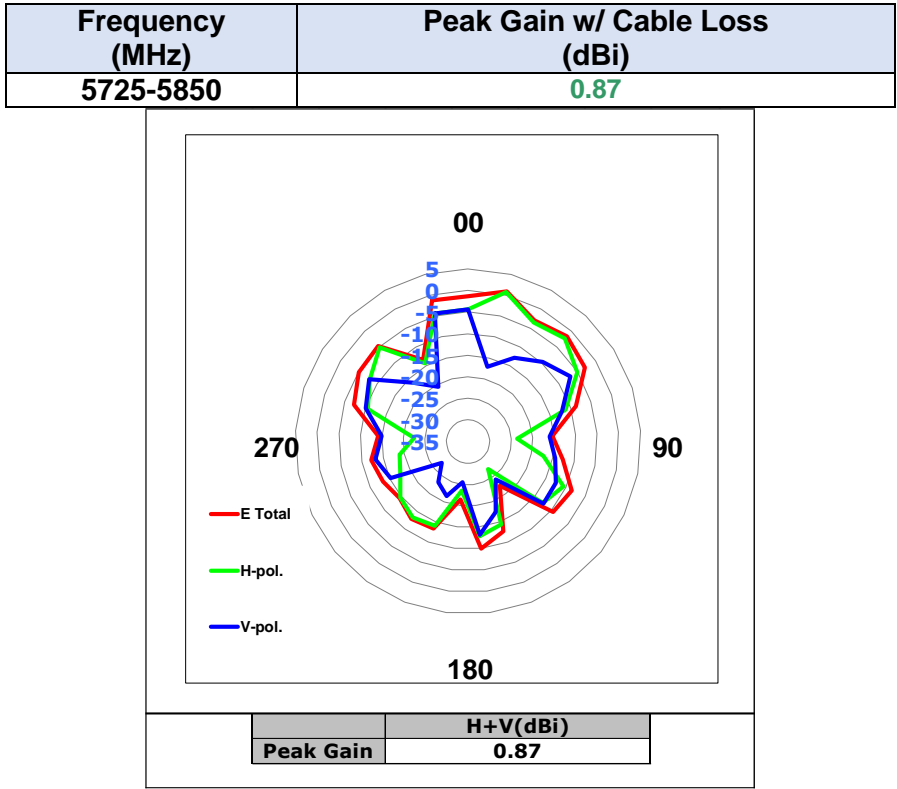


Max Antenna 3D Radiation Pattern 5470-5725 MHz

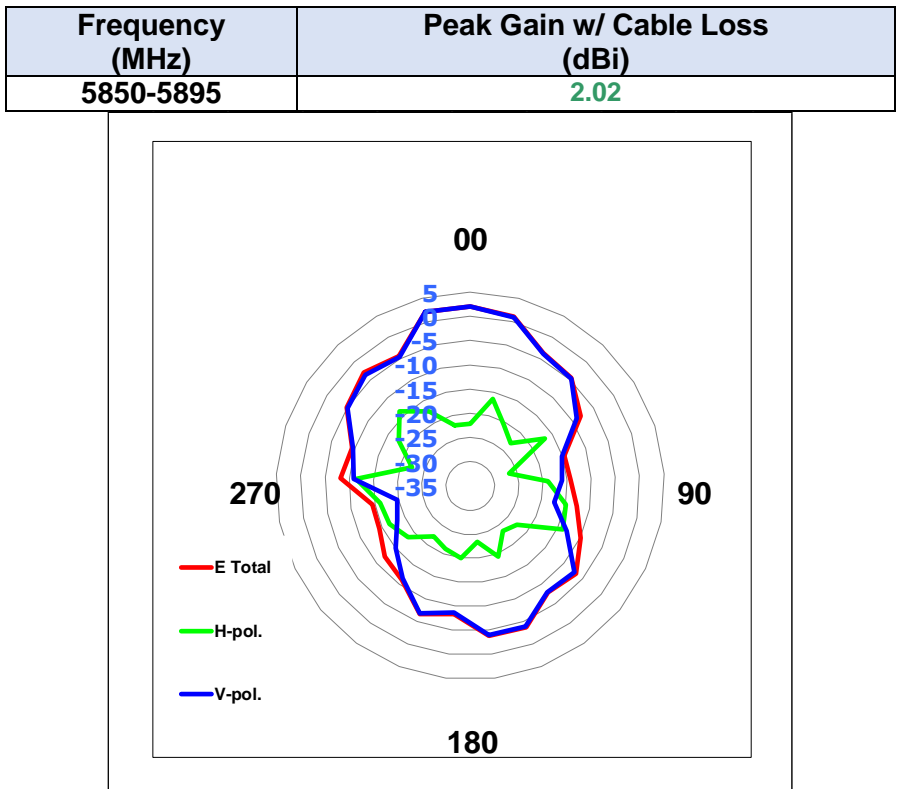
| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725 | 2.98 |



Max Antenna 3D Radiation Pattern 5725-5850 MHz

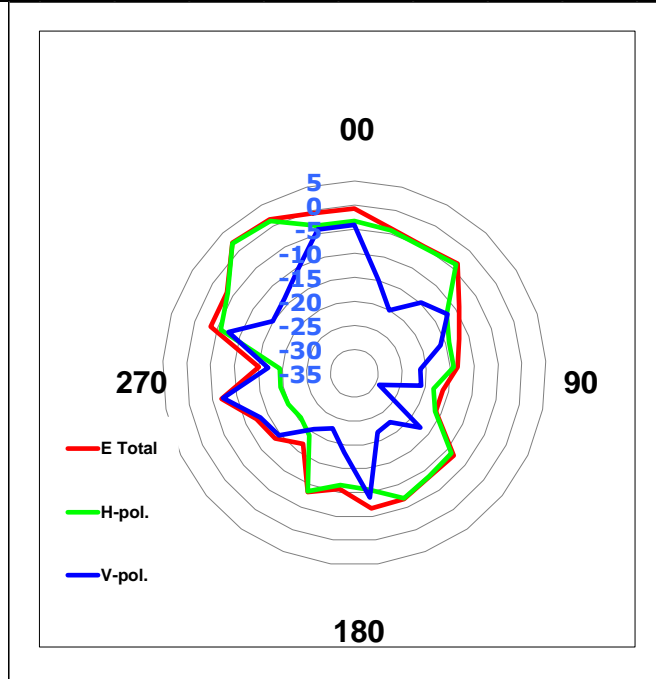


Max Antenna 3D Radiation Pattern 5850-5895 MHz



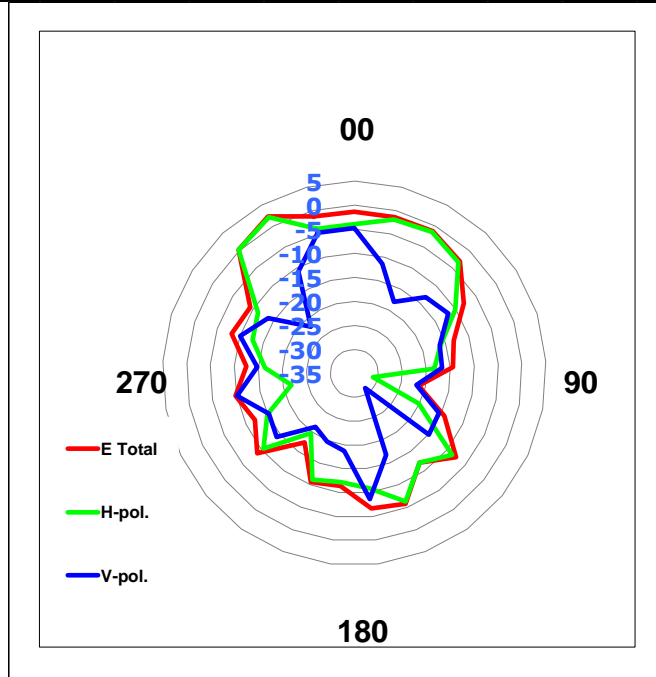
Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425 | 2.18 |



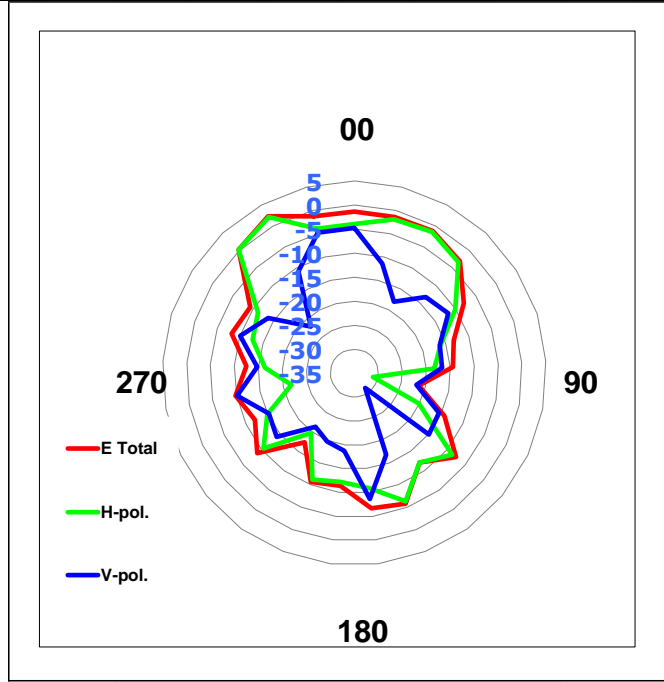
Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525 | 2.21 |



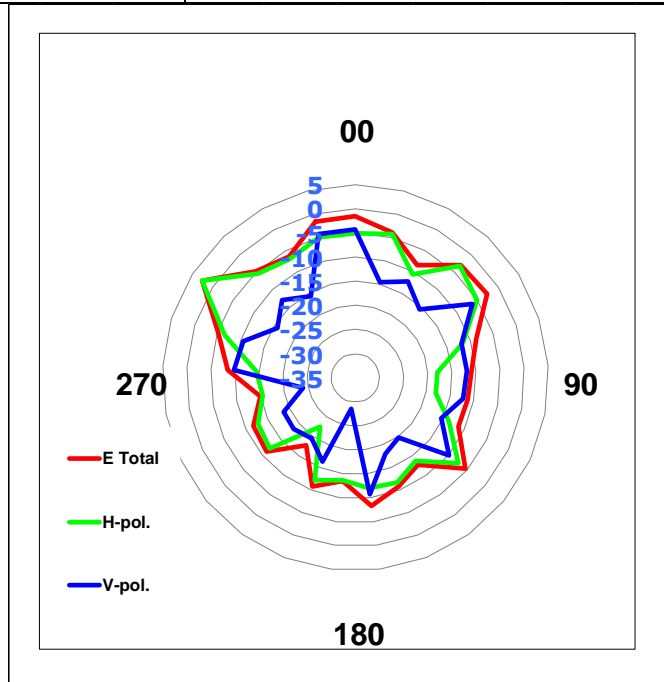
Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875 | 2.21 |



Max Antenna 3D Radiation Pattern 6875-7125 MHz

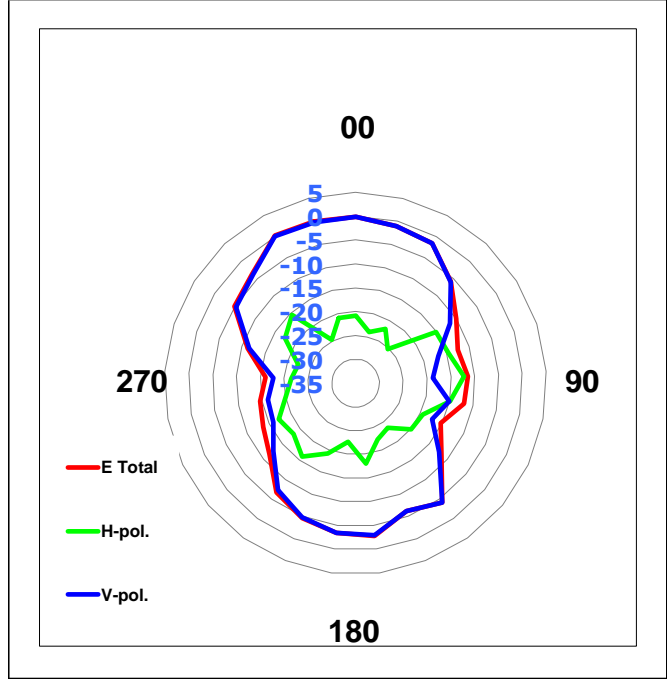
| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125 | 2.57 |



Auxiliary Antenna

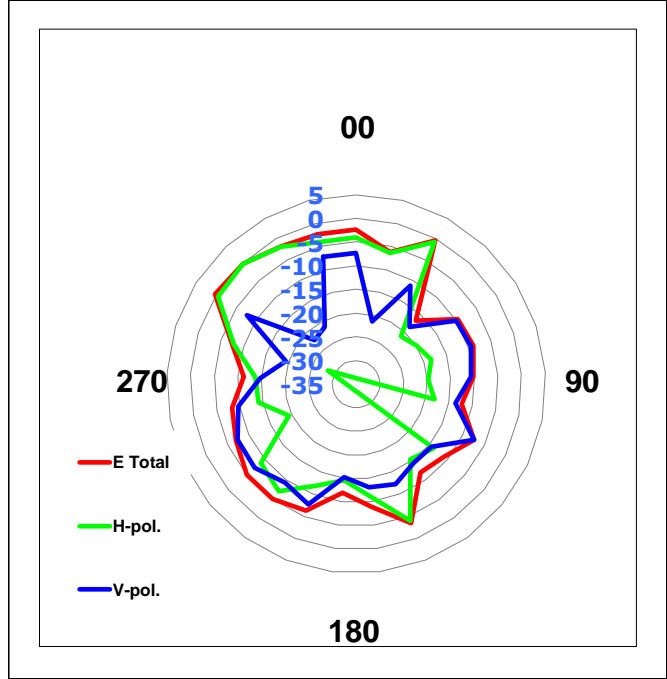
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 2400-2483.5 | 0.21 |



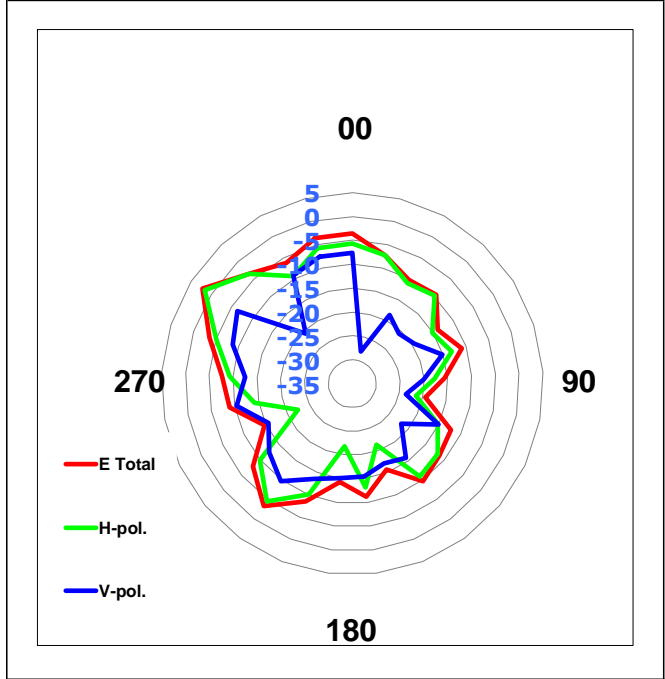
Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5150-5250 | 0.32 |



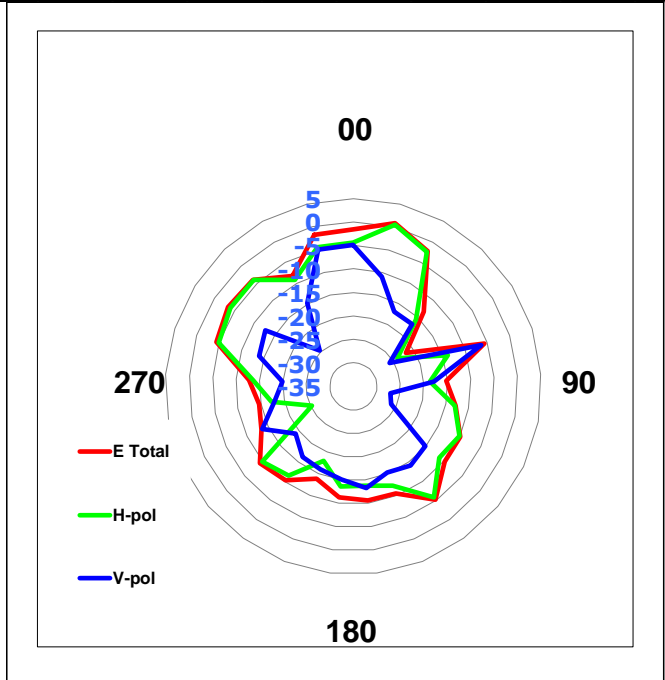
Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350 | 2.13 |



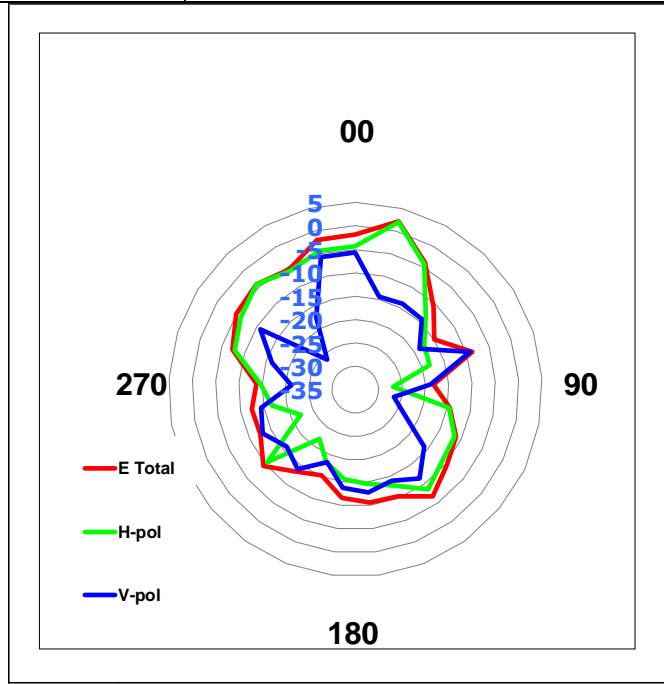
Max Antenna 3D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725 | 0.77 |



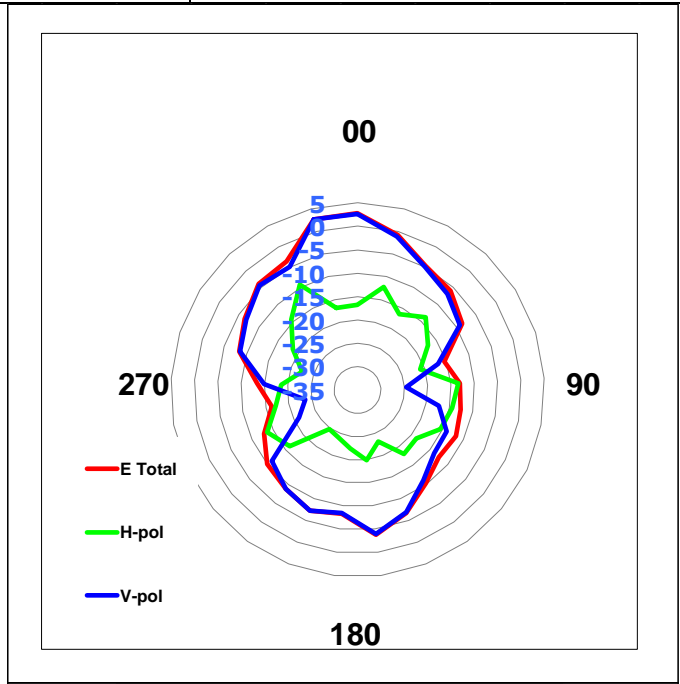
Max Antenna 3D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5725-5850 | 2.14 |



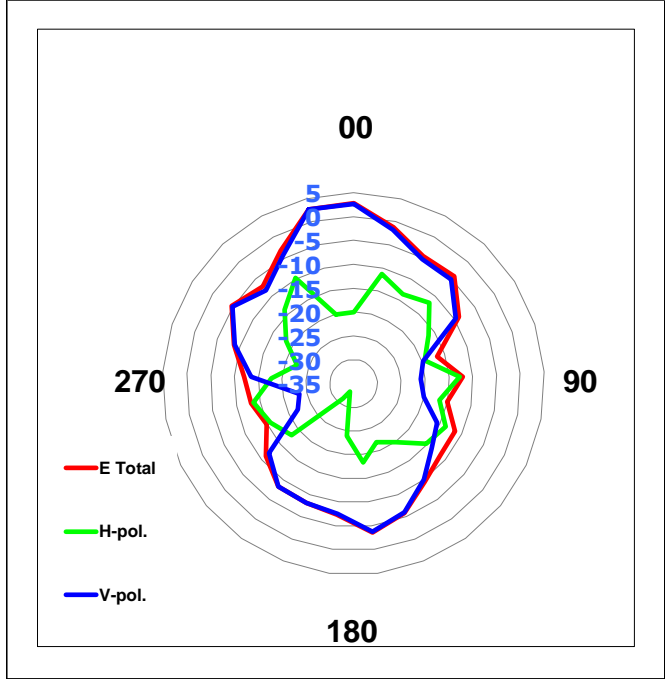
Max Antenna 3D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5850-5895 | 2.75 |



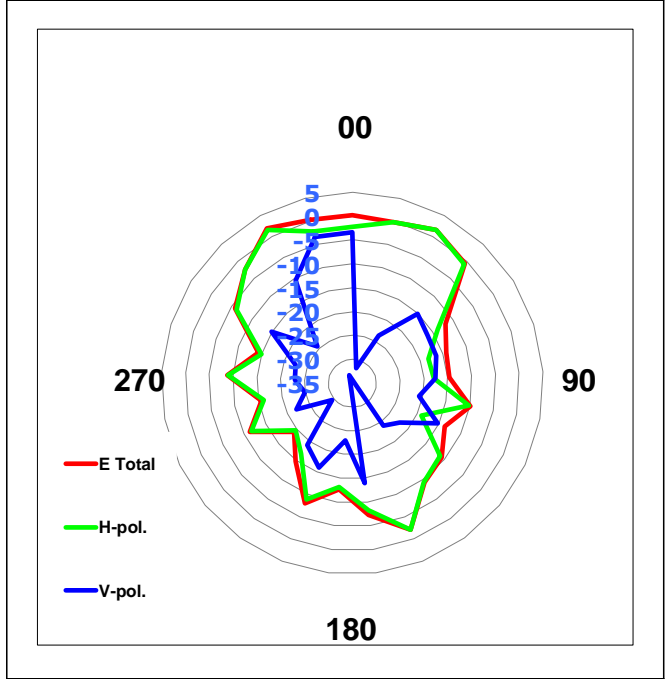
Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425 | 2.70 |



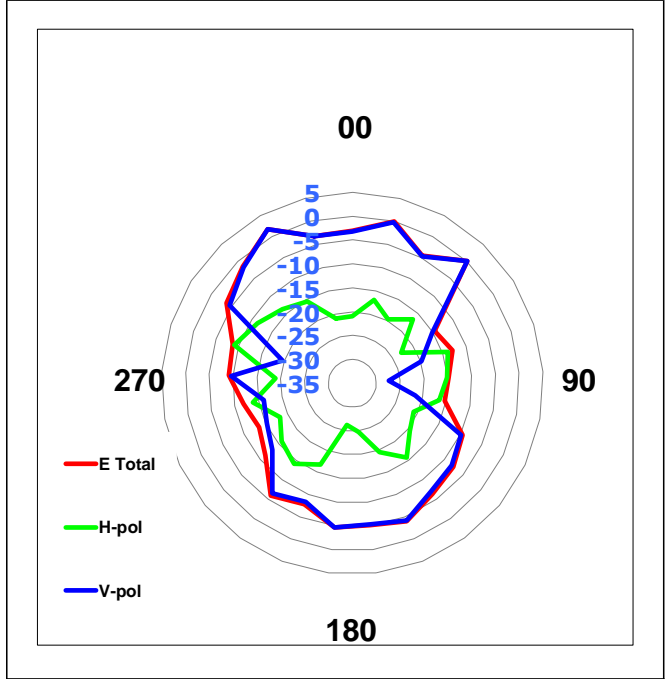
Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525 | 1.99 |



Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875 | 1.85 |



Max Antenna 3D Radiation Pattern 6875-7125 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125 | 1.22 |

