

# Data Sheet

CUSTOMER: ASUS

MODEL NAME: UM3504

CUSTOMER P/N: 14008-05620000

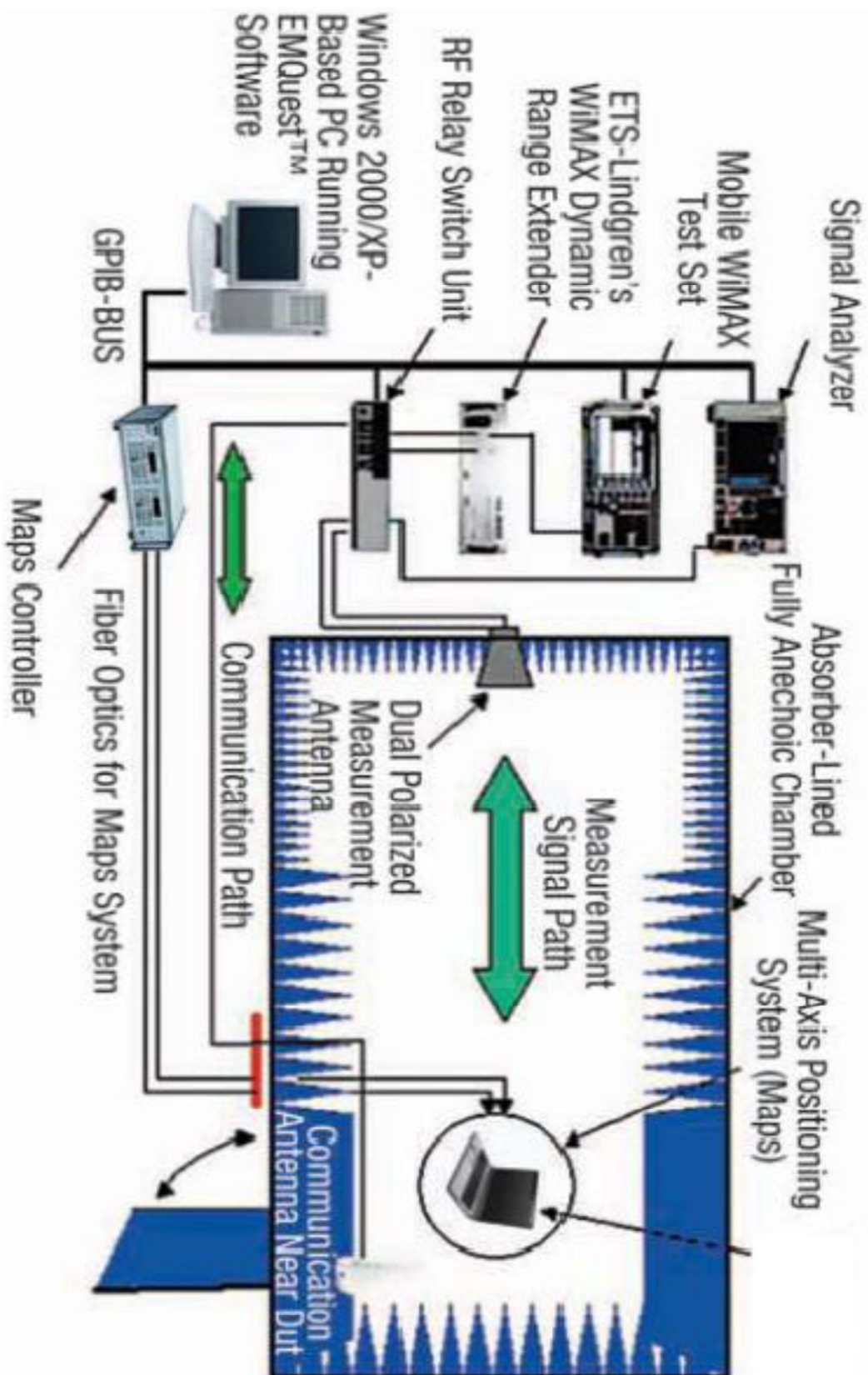
ICT P/N: LA9RF467-CS-H

| APPROVED     |              |
|--------------|--------------|
| MANUFACTURER | CUSTOMER     |
|              |              |
| PREPARED BY: | APPROVED BY: |
| CHECK BY:    |              |
| APPROVED BY: |              |

# Description

## Specifications

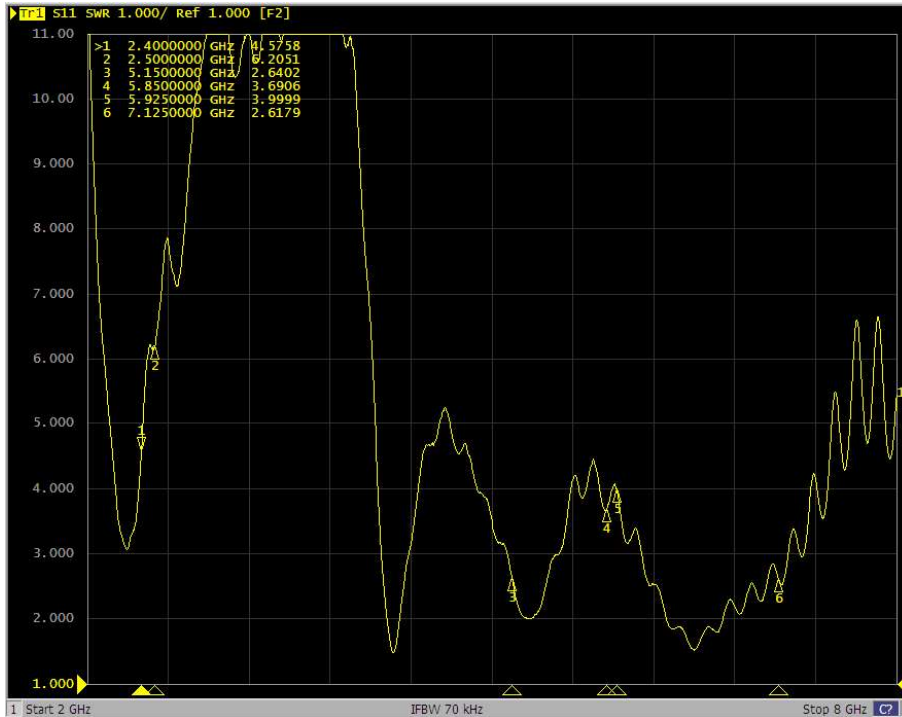
|                    |                               |                |
|--------------------|-------------------------------|----------------|
| Antennas Type      | PIFA Antenna                  |                |
| Connector Type     | IPEX Connector for 1.13 cable |                |
| Cable Type         | LOW LOSS 1.13 RF Cable        |                |
| Impedance          | 50Ω                           |                |
| Polarization       | Linear                        |                |
| Radiation pattern  | Omni-directional              |                |
| VSWR               | 2.40~2.50 GHz                 | 5.00 Max       |
|                    | 5.15~7.125 GHz                |                |
| Peak gain          | 2.40~2.50 GHz                 | Main : 0.18dBi |
|                    | 5.15~5.925 GHz                | Main : 4.30dBi |
|                    | 5.925~7.125GHz                | Main : 4.28dBi |
| Cable Loss         | 2.40~2.50 GHz                 | Main : 0.11dB  |
|                    | 5.15~5.925 GHz                | Main : 0.17dB  |
|                    | 5.925~7.125GHz                | Main : 0.18dB  |
| Cable length/Color | Main : 45mm                   | Main : Black   |



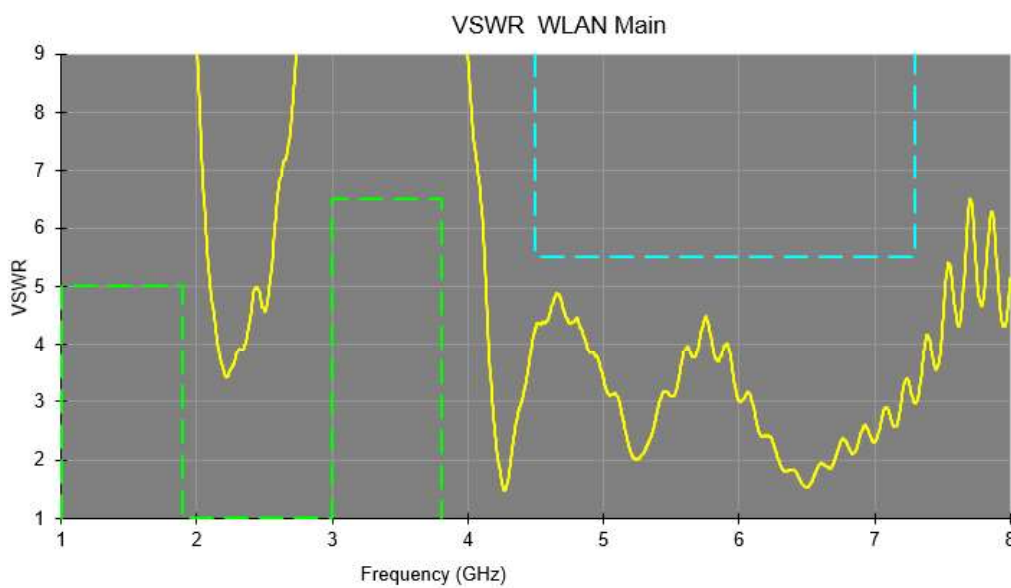
# Performance Data

## 1. VSWR

### WLAN Main



## 2.SPEC



Spec:

1.0 ~ 1.9 GHz < 5

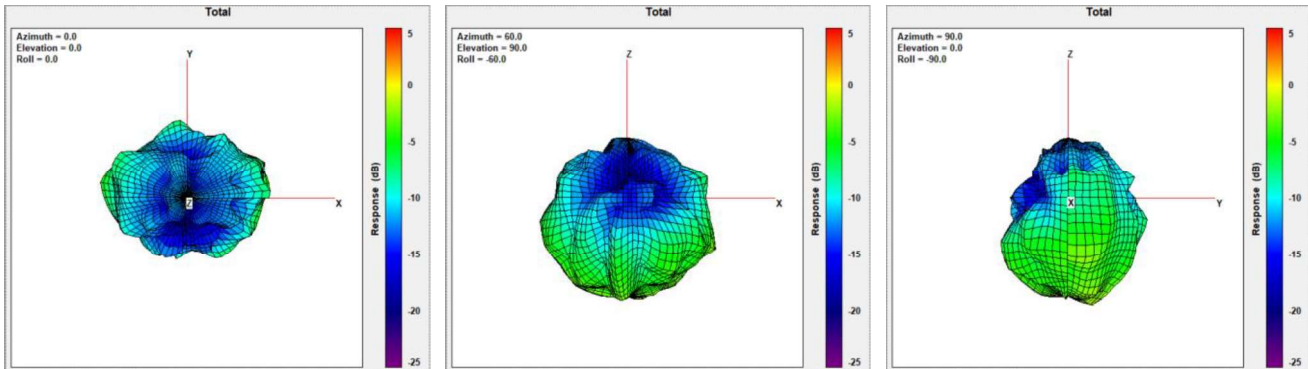
3 ~ 3.8 GHz < 6.5

4.5 ~ 7.3 GHz < 5.5

## WLAN Main

### Radiation pattern open mode

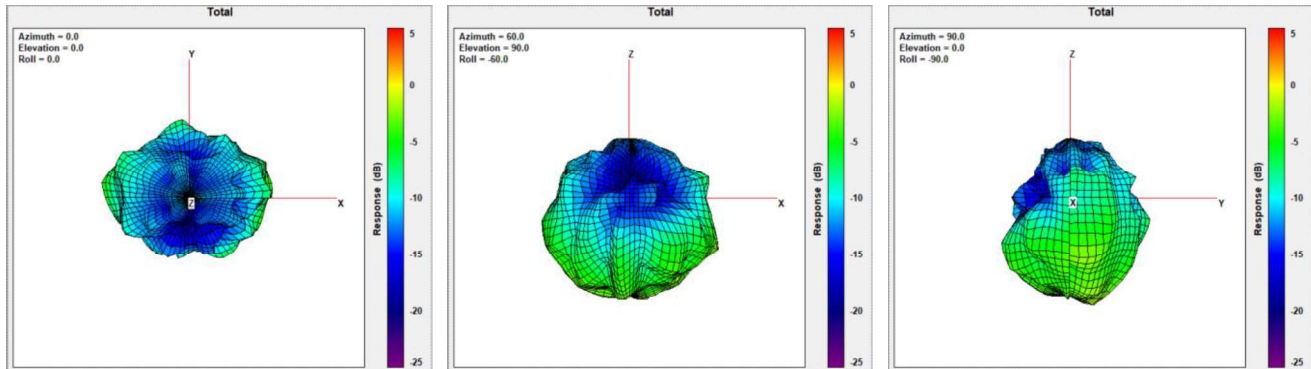
Antenna: 2400MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 2400 MHz |
| Three-dimensional (dBi) peak | 0.18     |

# Radiation pattern open mode

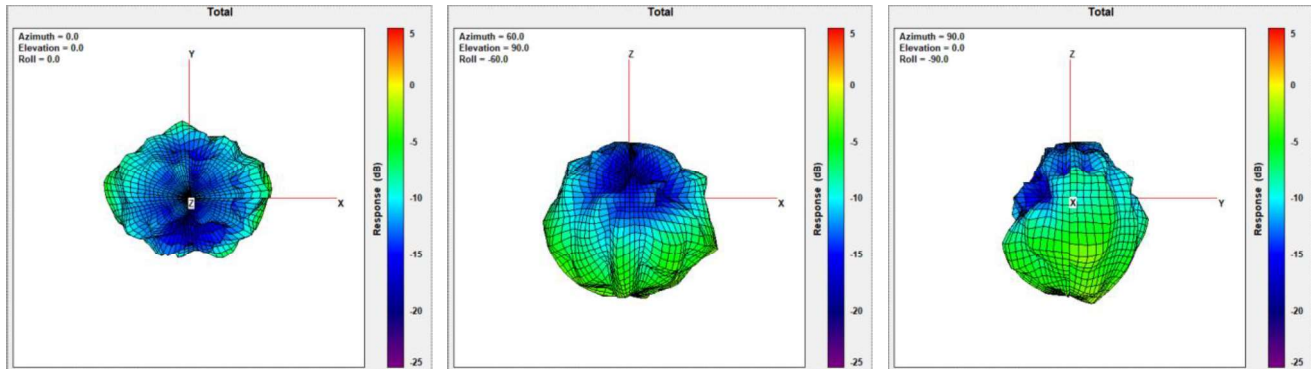
Antenna: 2412MHz



|                              |                 |
|------------------------------|-----------------|
| Center Frequency             | <b>2412 MHz</b> |
| Three-dimensional (dBi) peak | <b>0.05</b>     |

# Radiation pattern open mode

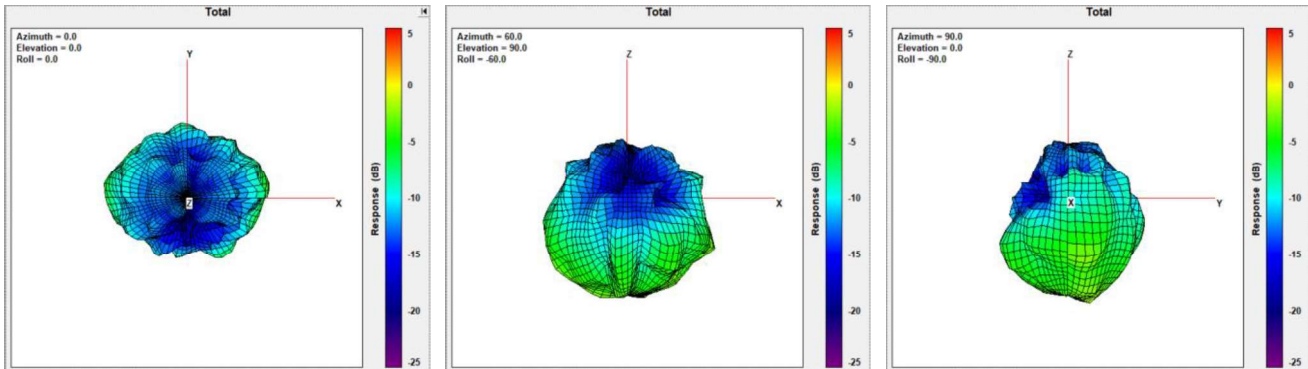
Antenna: 2437MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 2437 MHz |
| Three-dimensional (dBi) peak | -0.20    |

# Radiation pattern open mode

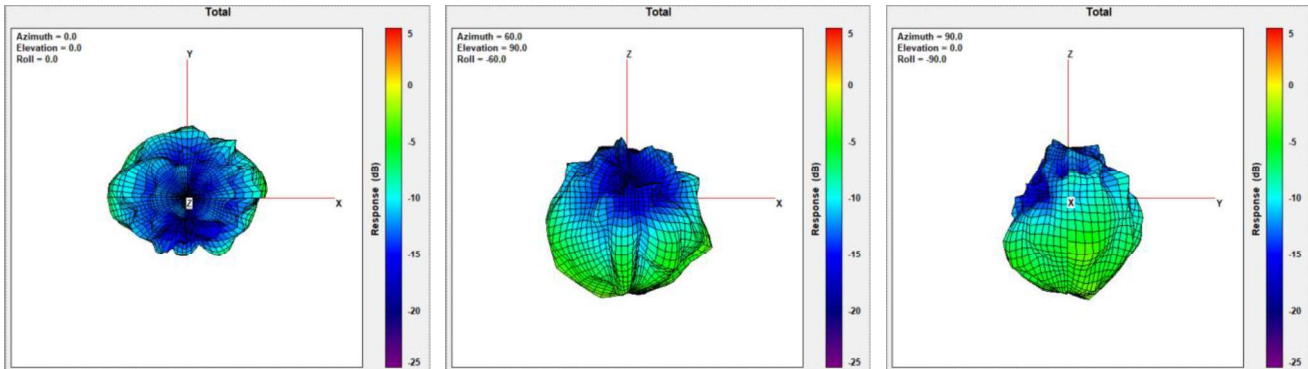
Antenna: 2462MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 2462 MHz |
| Three-dimensional (dBi) peak | -0.39    |

# Radiation pattern open mode

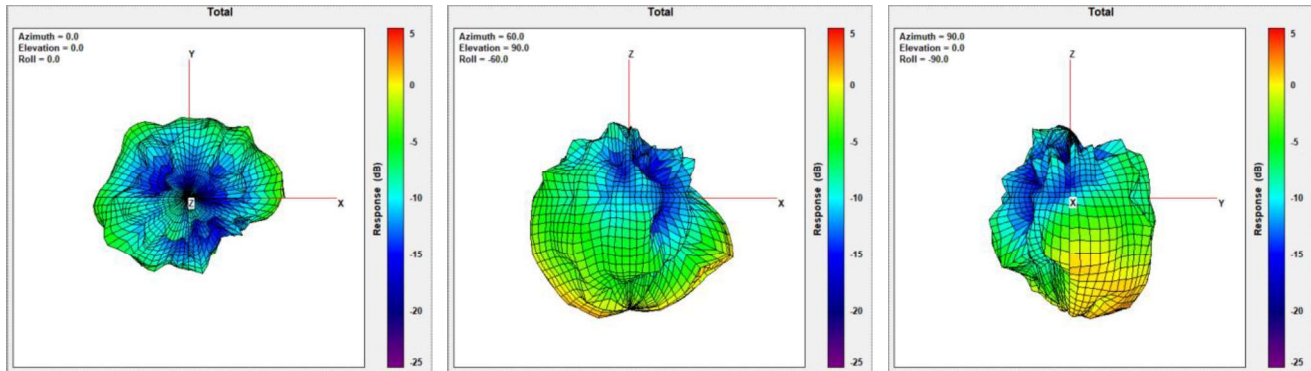
Antenna: 2500MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 2500 MHz |
| Three-dimensional (dBi) peak | -0.44    |

# Radiation pattern open mode

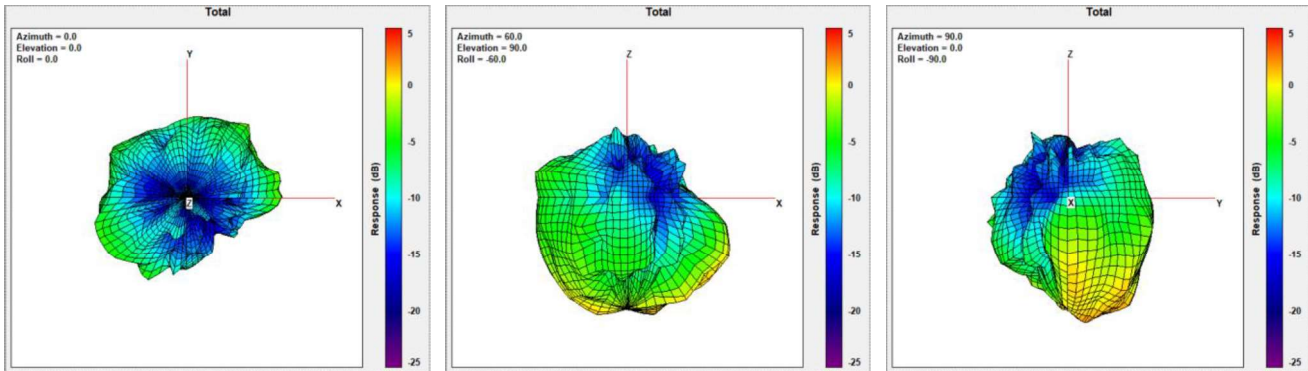
Antenna: 5150MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 5150 MHz |
| Three-dimensional (dBi) peak | 2.98     |

# Radiation pattern open mode

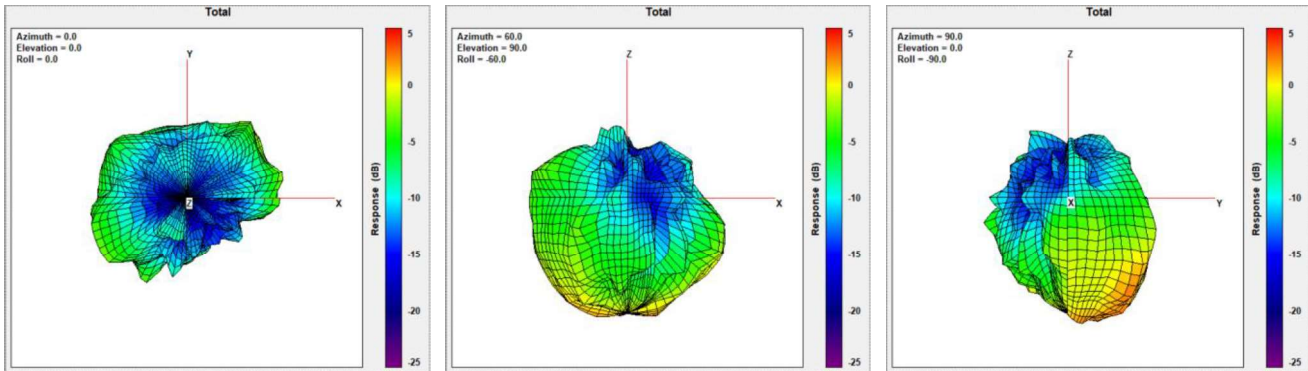
Antenna: 5250MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 5250 MHz |
| Three-dimensional (dBi) peak | 2.55     |

# Radiation pattern open mode

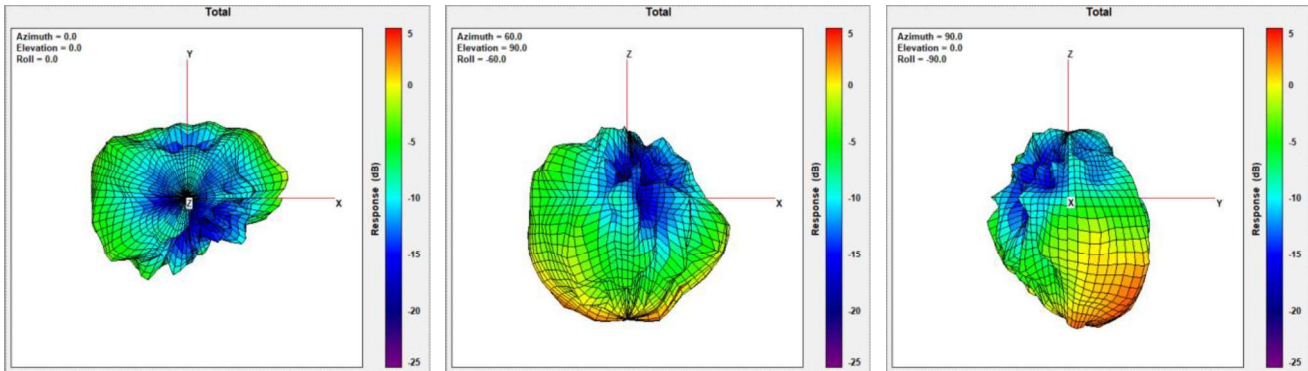
Antenna: 5350MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 5350 MHz |
| Three-dimensional (dBi) peak | 3.49     |

# Radiation pattern open mode

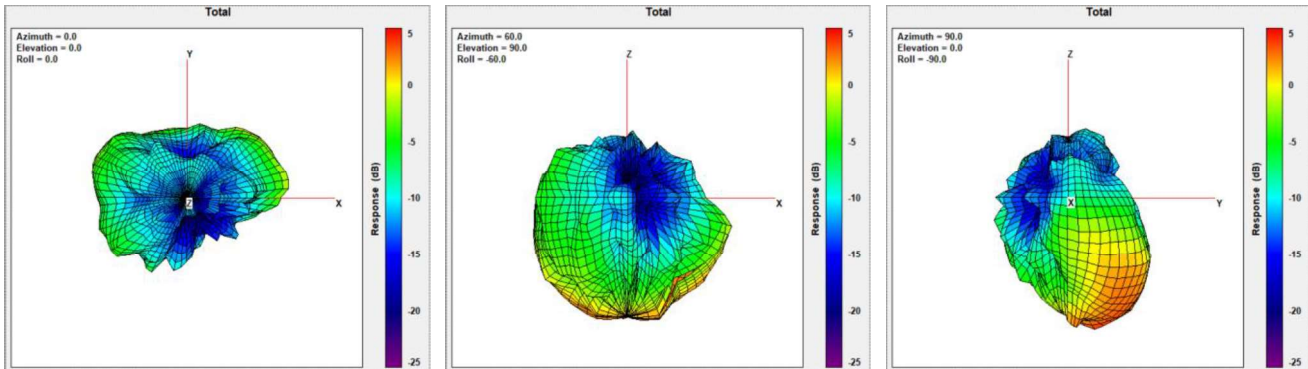
Antenna: 5470MHz



|                              |                 |
|------------------------------|-----------------|
| Center Frequency             | <b>5470 MHz</b> |
| Three-dimensional (dBi) peak | <b>4.30</b>     |

# Radiation pattern open mode

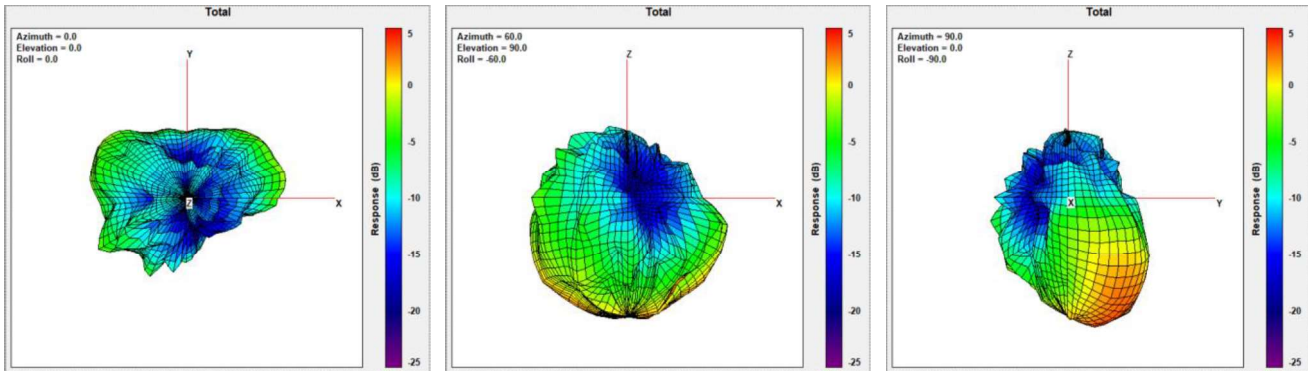
Antenna: 5600MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 5600 MHz |
| Three-dimensional (dBi) peak | 4.20     |

# Radiation pattern open mode

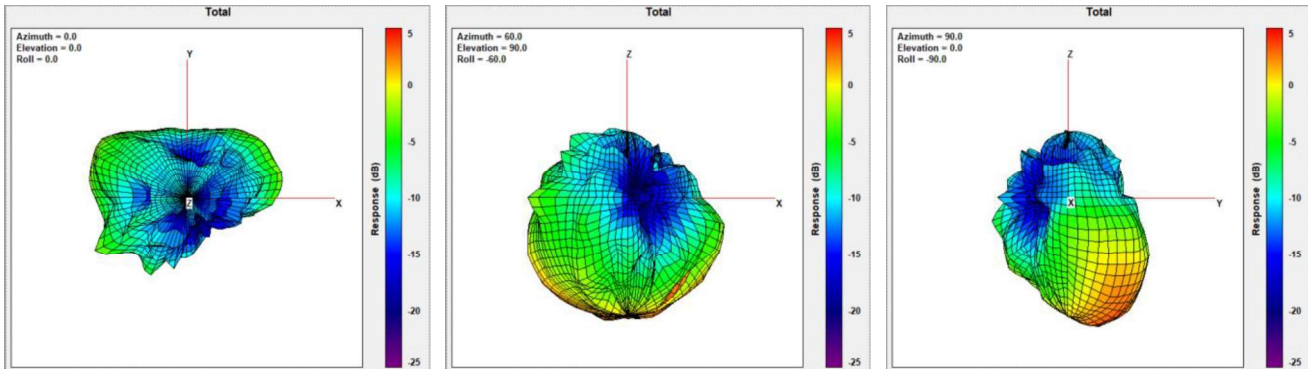
Antenna: 5725MHz



|                              |                 |
|------------------------------|-----------------|
| Center Frequency             | <b>5725 MHz</b> |
| Three-dimensional (dBi) peak | <b>3.84</b>     |

# Radiation pattern open mode

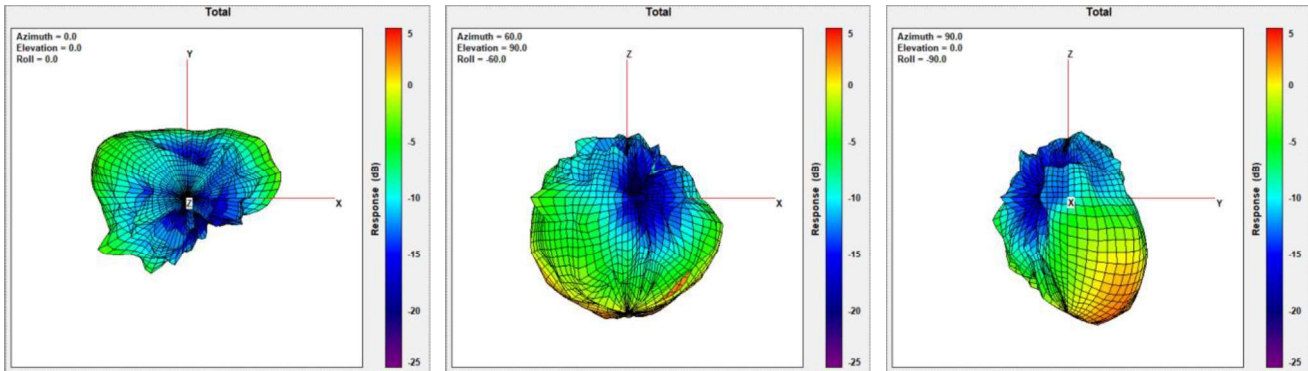
Antenna: 5785MHz



|                              |                 |
|------------------------------|-----------------|
| Center Frequency             | <b>5785 MHz</b> |
| Three-dimensional (dBi) peak | <b>4.13</b>     |

# Radiation pattern open mode

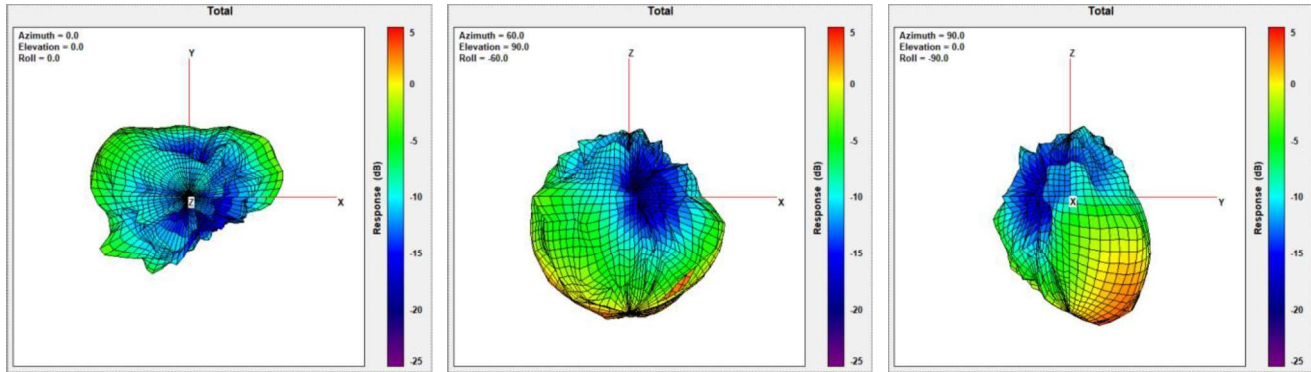
Antenna: 5850MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 5850 MHz |
| Three-dimensional (dBi) peak | 4.08     |

# Radiation pattern open mode

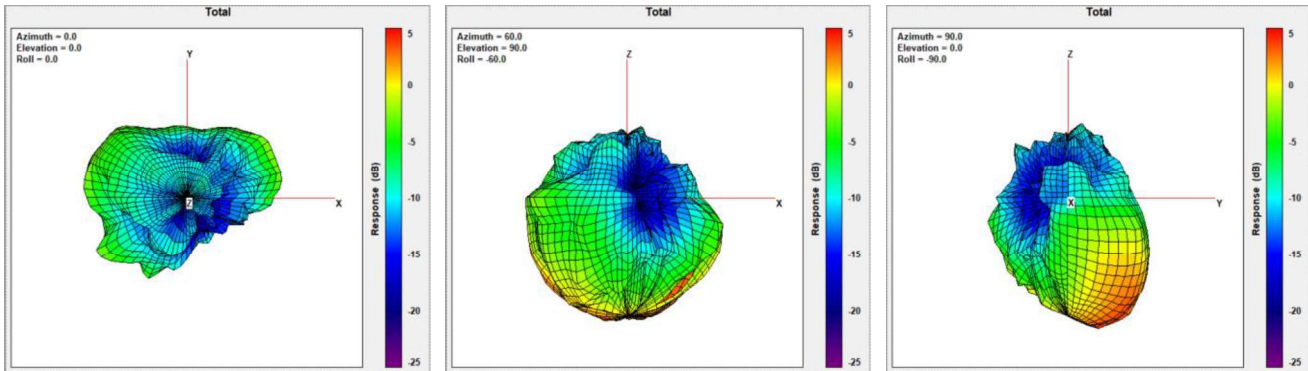
Antenna: 5895MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 5895 MHz |
| Three-dimensional (dBi) peak | 4.28     |

# Radiation pattern open mode

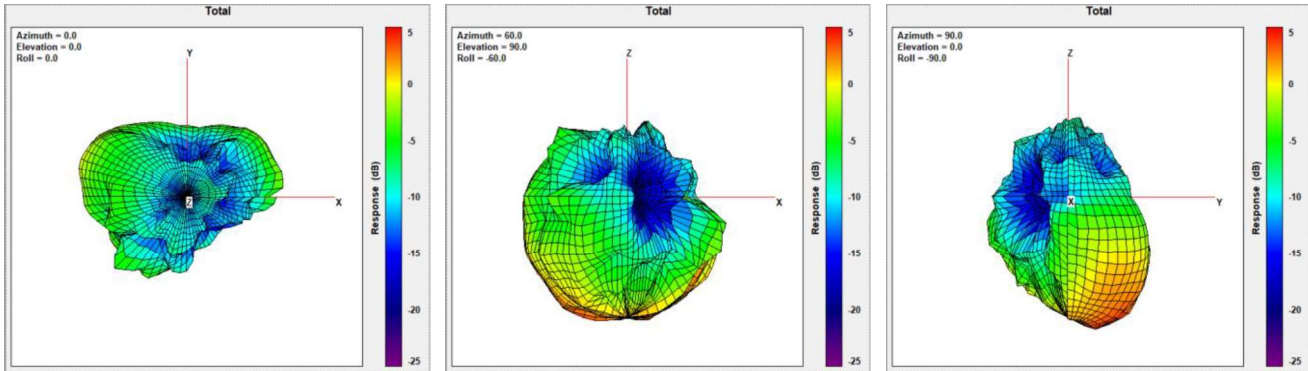
Antenna: 5925MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 5925 MHz |
| Three-dimensional (dBi) peak | 4.24     |

# Radiation pattern open mode

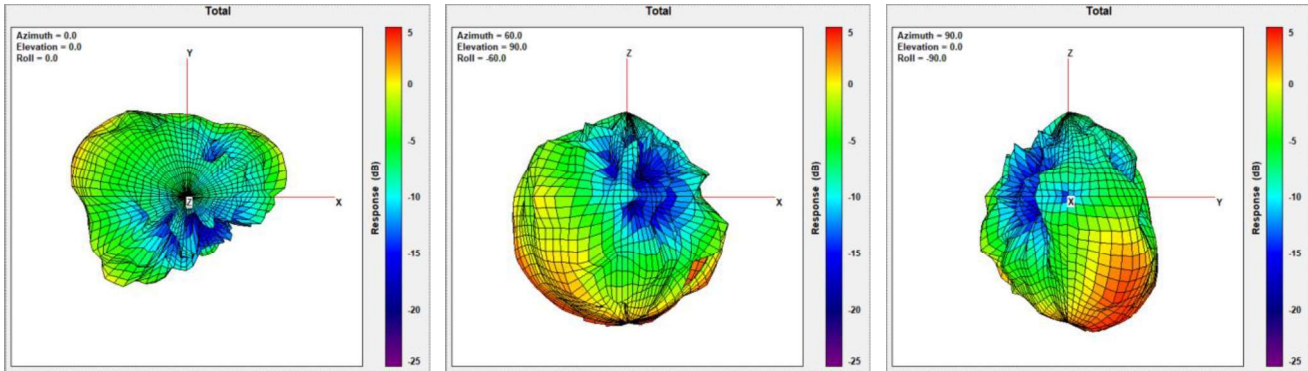
Antenna: 6125MHz



|                              |                 |
|------------------------------|-----------------|
| Center Frequency             | <b>6125 MHz</b> |
| Three-dimensional (dBi) peak | <b>4.18</b>     |

# Radiation pattern open mode

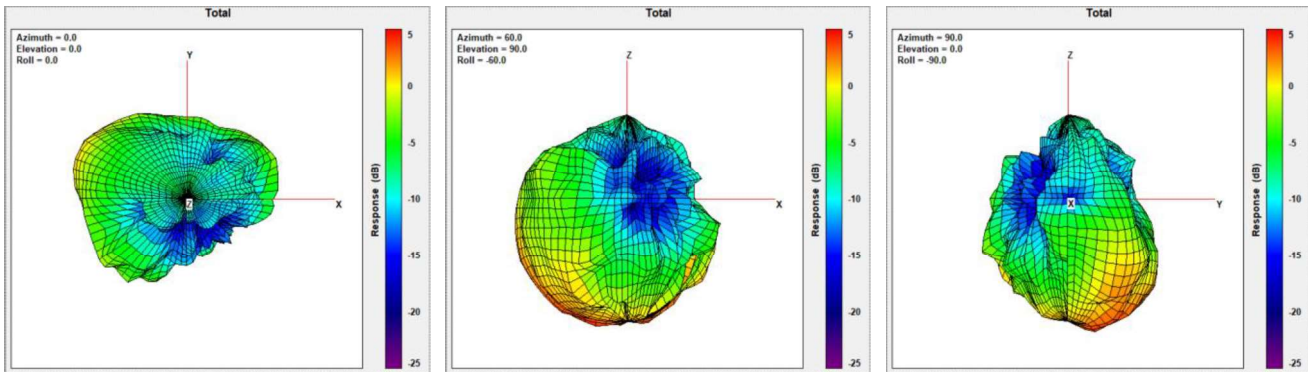
Antenna: 6425MHz



|                              |                 |
|------------------------------|-----------------|
| Center Frequency             | <b>6425 MHz</b> |
| Three-dimensional (dBi) peak | <b>4.00</b>     |

# Radiation pattern open mode

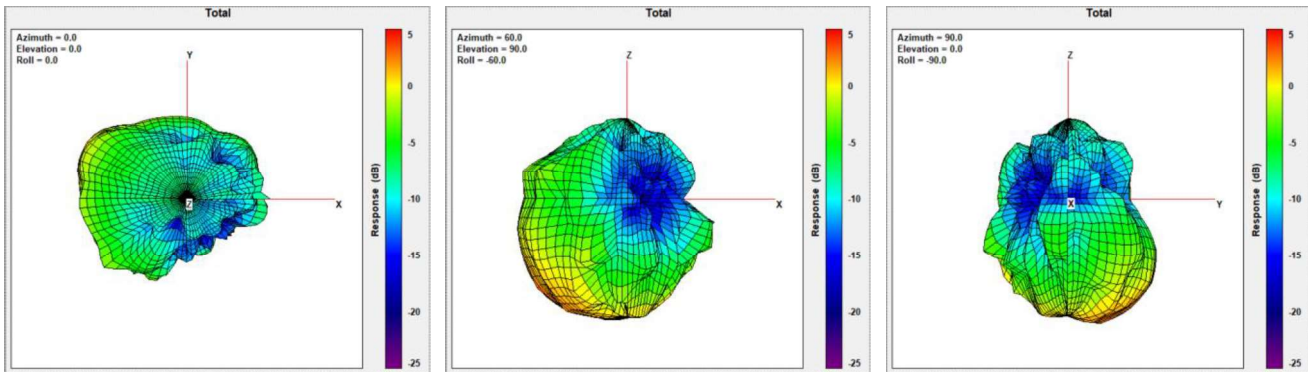
Antenna: 6525MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 6525 MHz |
| Three-dimensional (dBi) peak | 4.04     |

# Radiation pattern open mode

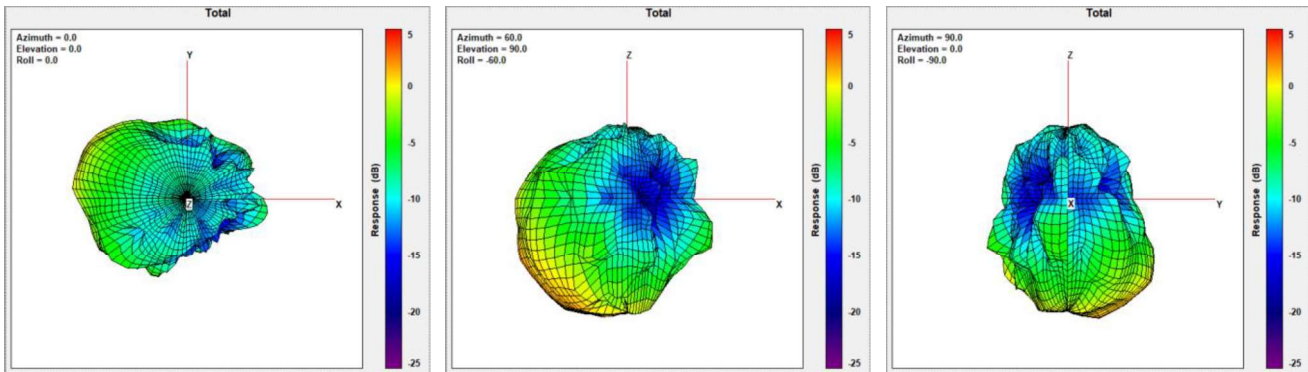
Antenna: 6725MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 6725 MHz |
| Three-dimensional (dBi) peak | 4.28     |

# Radiation pattern open mode

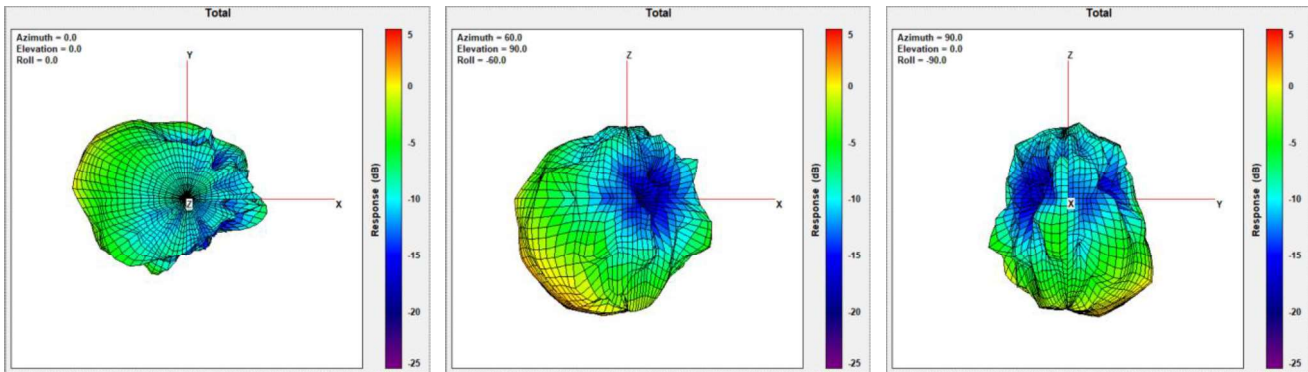
Antenna: 6875MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 6875 MHz |
| Three-dimensional (dBi) peak | 3.94     |

# Radiation pattern open mode

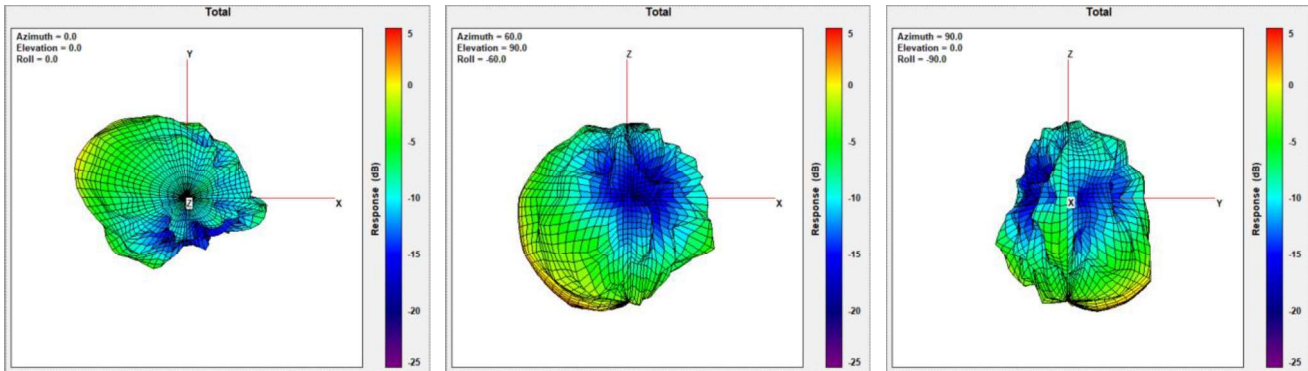
Antenna: 6925MHz



|                              |                 |
|------------------------------|-----------------|
| Center Frequency             | <b>6925 MHz</b> |
| Three-dimensional (dBi) peak | <b>3.98</b>     |

# Radiation pattern open mode

Antenna: 7125MHz



|                              |          |
|------------------------------|----------|
| Center Frequency             | 7125 MHz |
| Three-dimensional (dBi) peak | 3.93     |

## WLAN Main

|                    | 3D Peak Gain   | 3D Gain           | Cable Loss   |
|--------------------|----------------|-------------------|--------------|
| Frequency<br>(MHz) | Total<br>(dBi) | Efficiency<br>{%} | Loss<br>(dB) |
| 2400               | 0.18           | 16                | 0.11         |
| 2412               | 0.05           | 16                | 0.11         |
| 2437               | -0.20          | 15                | 0.11         |
| 2462               | -0.39          | 15                | 0.11         |
| 2500               | -0.44          | 13                | 0.11         |
| 5150               | 2.98           | 30                | 0.16         |
| 5250               | 2.55           | 28                | 0.17         |
| 5350               | 3.49           | 33                | 0.17         |
| 5470               | 4.30           | 39                | 0.17         |
| 5600               | 4.20           | 34                | 0.17         |
| 5725               | 3.84           | 35                | 0.17         |
| 5785               | 4.13           | 35                | 0.17         |
| 5850               | 4.08           | 32                | 0.17         |
| 5895               | 4.28           | 35                | 0.17         |
| 5925               | 4.24           | 38                | 0.17         |
| 6125               | 4.18           | 44                | 0.18         |
| 6425               | 4.00           | 65                | 0.18         |
| 6525               | 4.04           | 57                | 0.18         |
| 6725               | 4.28           | 48                | 0.18         |
| 6875               | 3.94           | 42                | 0.18         |
| 6925               | 3.98           | 39                | 0.18         |
| 7125               | 3.93           | 35                | 0.18         |