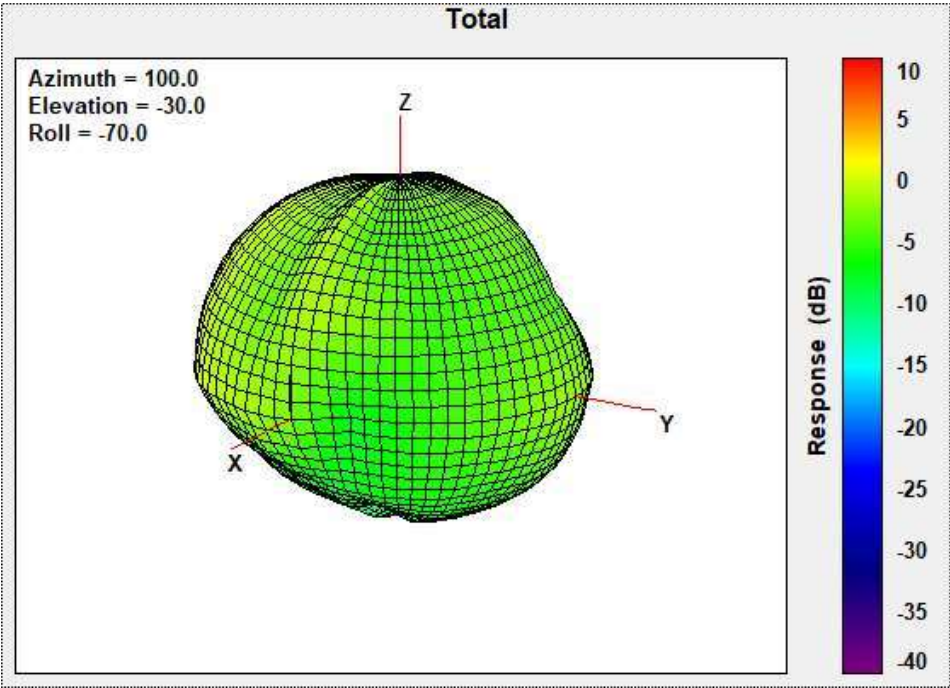
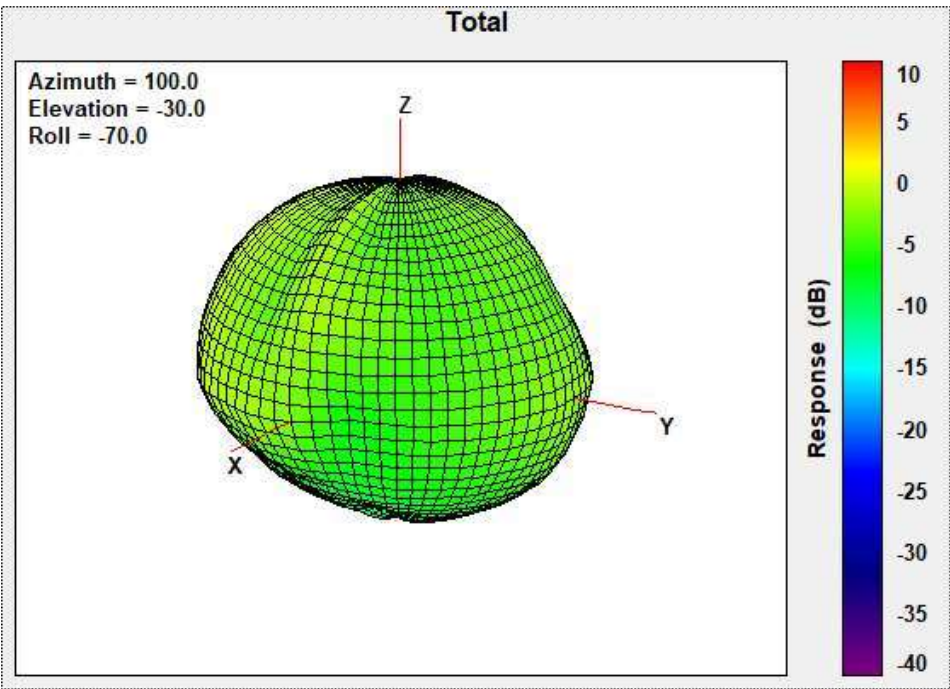


2310MHz



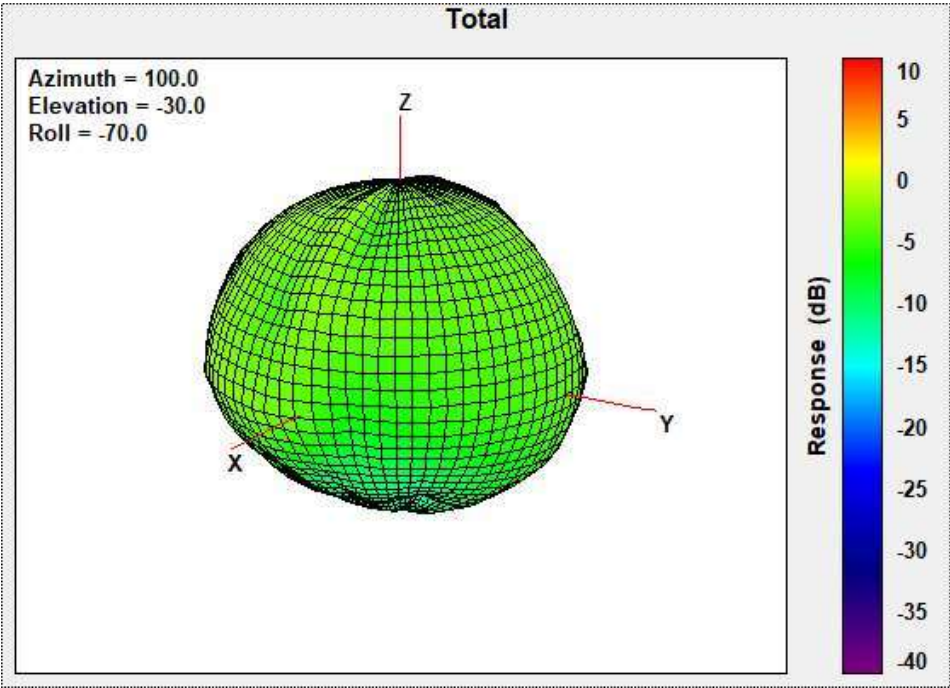
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| Center Frequency              | 2310MHz |
| Peak Gain W/ Cable loss (dBi) | 0.66    |

2315MHz



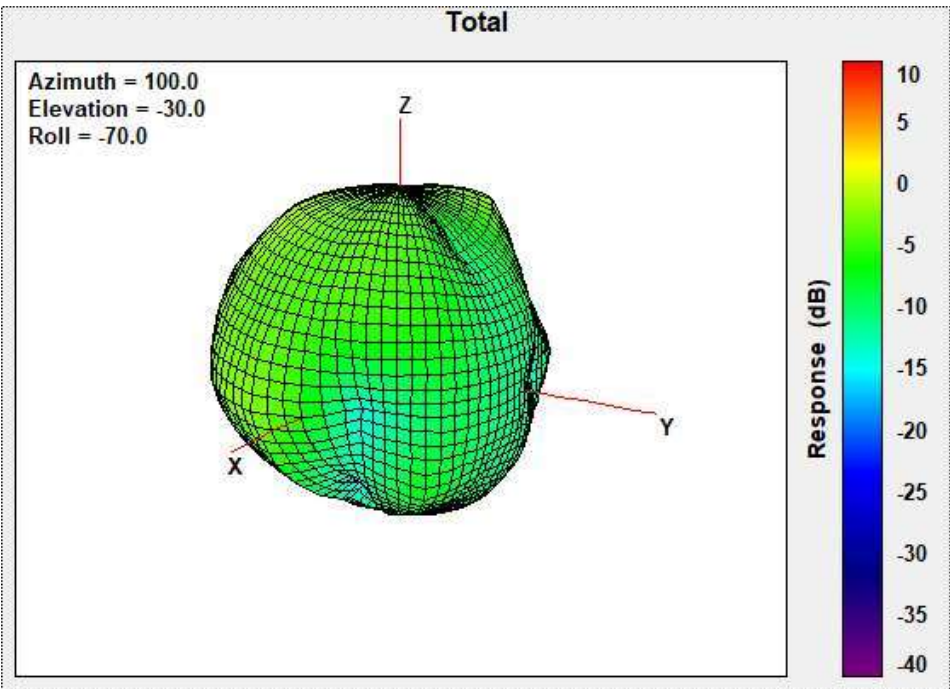
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| Center Frequency              | 2315MHz |
| Peak Gain W/ Cable loss (dBi) | 0.47    |

2350MHz



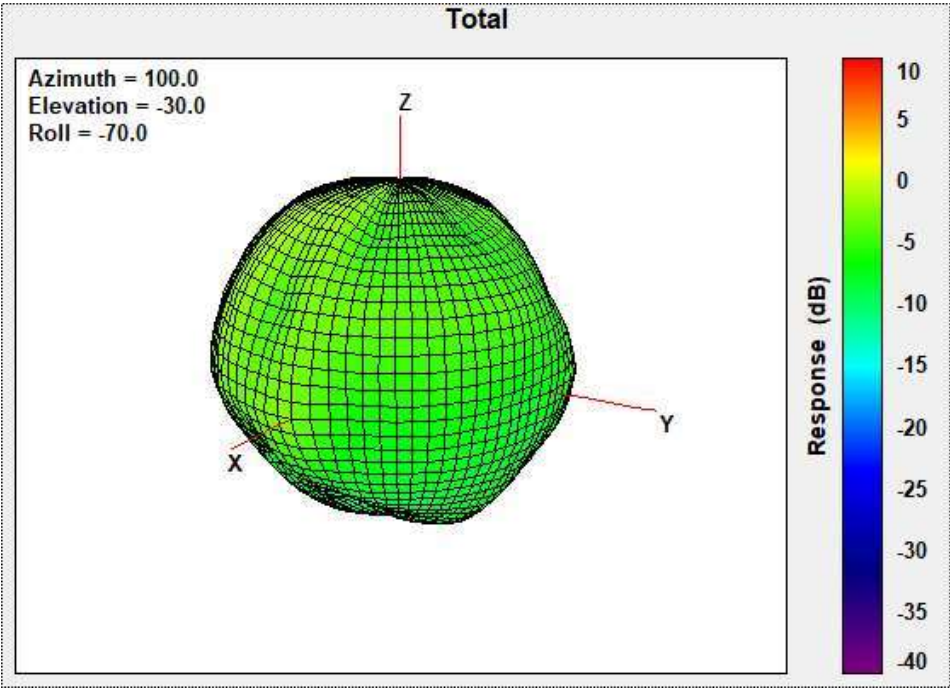
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| Center Frequency              | 2350MHz |
| Peak Gain W/ Cable loss (dBi) | 0.26    |

2400MHz



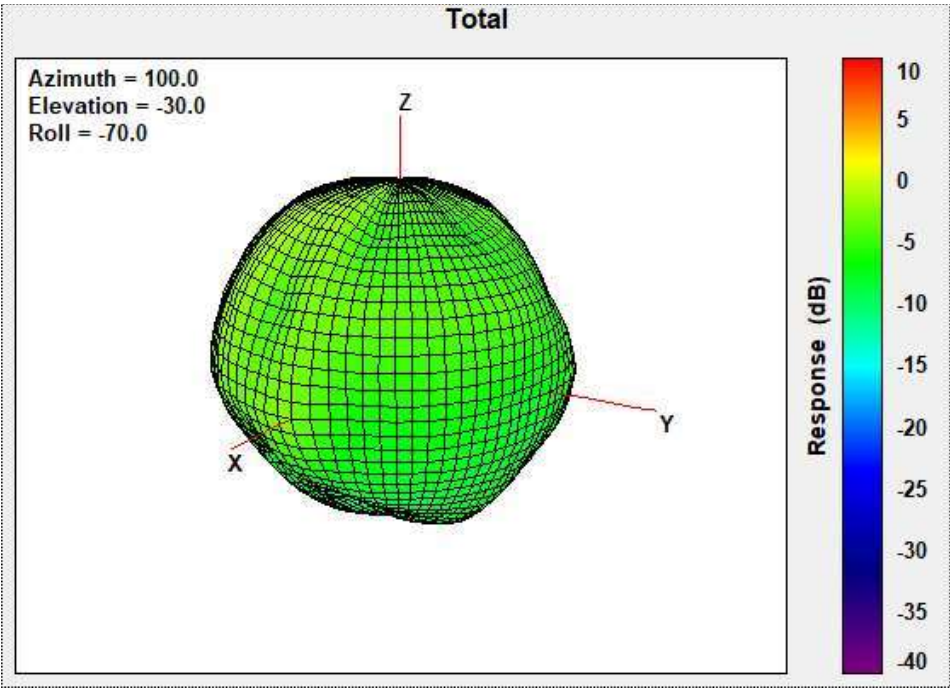
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| Center Frequency              | 2400MHz |
| Peak Gain W/ Cable loss (dBi) | 2.24    |

2483.5MHz



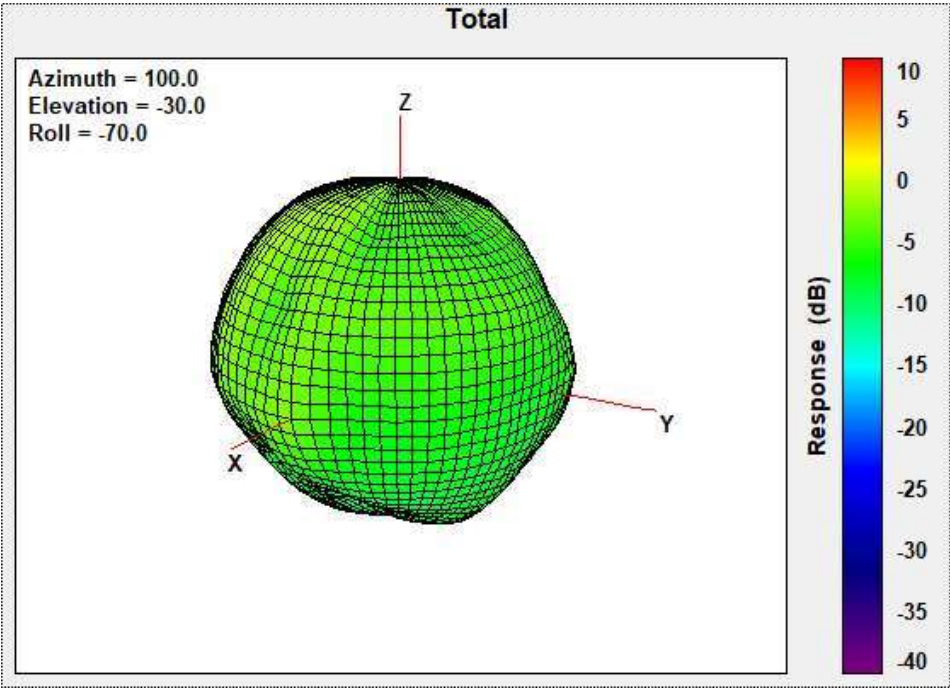
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| Center Frequency              | 2483.5MHz |
| Peak Gain W/ Cable loss (dBi) | 2.03      |

2489.25MHz



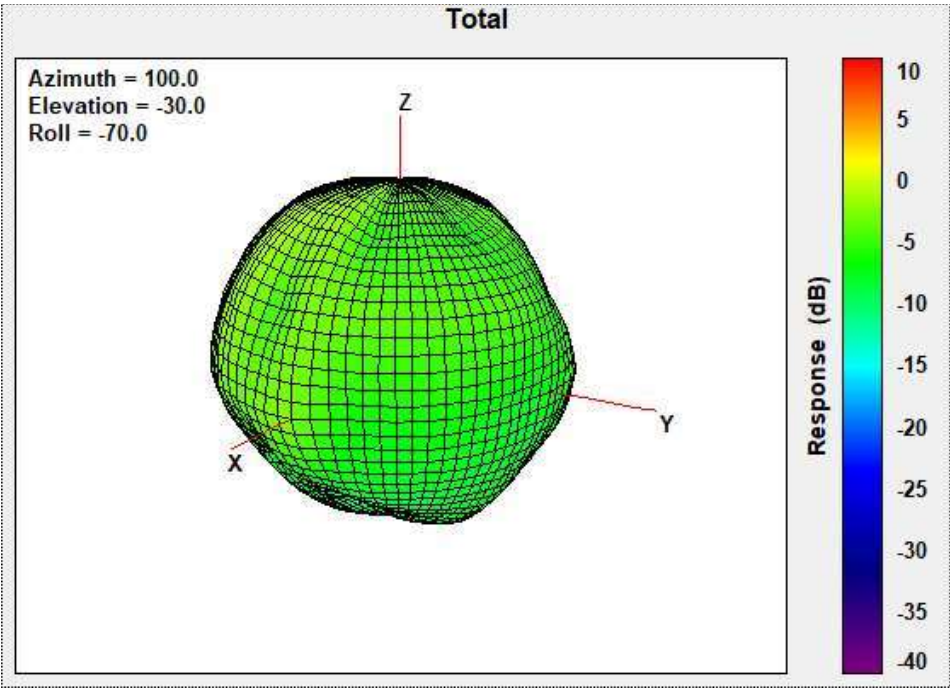
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| Center Frequency              | 2489.25MHz |
| Peak Gain W/ Cable loss (dBi) | 2.05       |

2495MHz



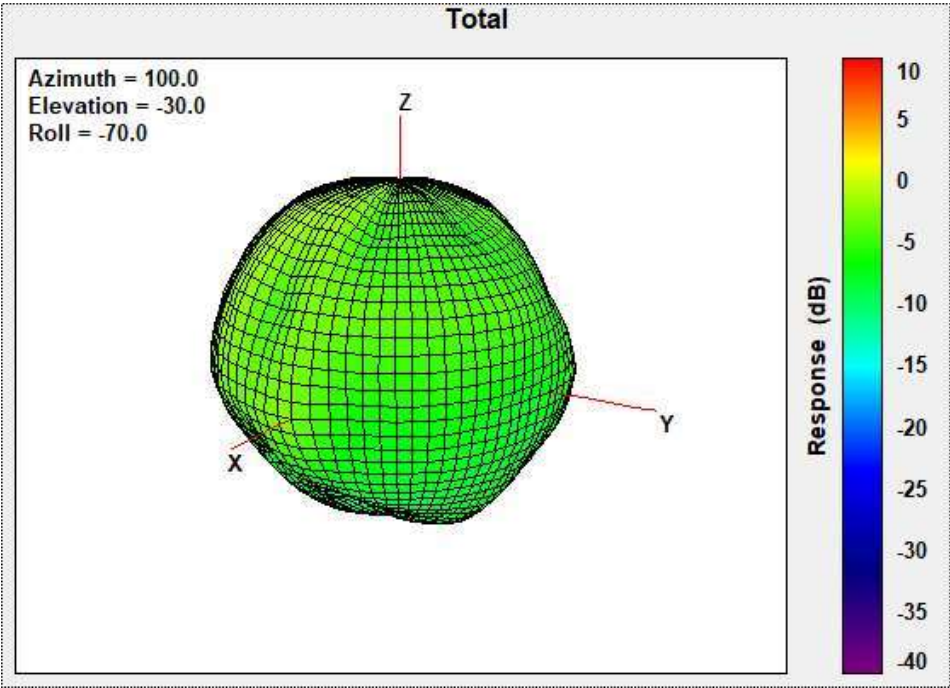
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| Center Frequency              | 2495MHz |
| Peak Gain W/ Cable loss (dBi) | 2.08    |

2496MHz



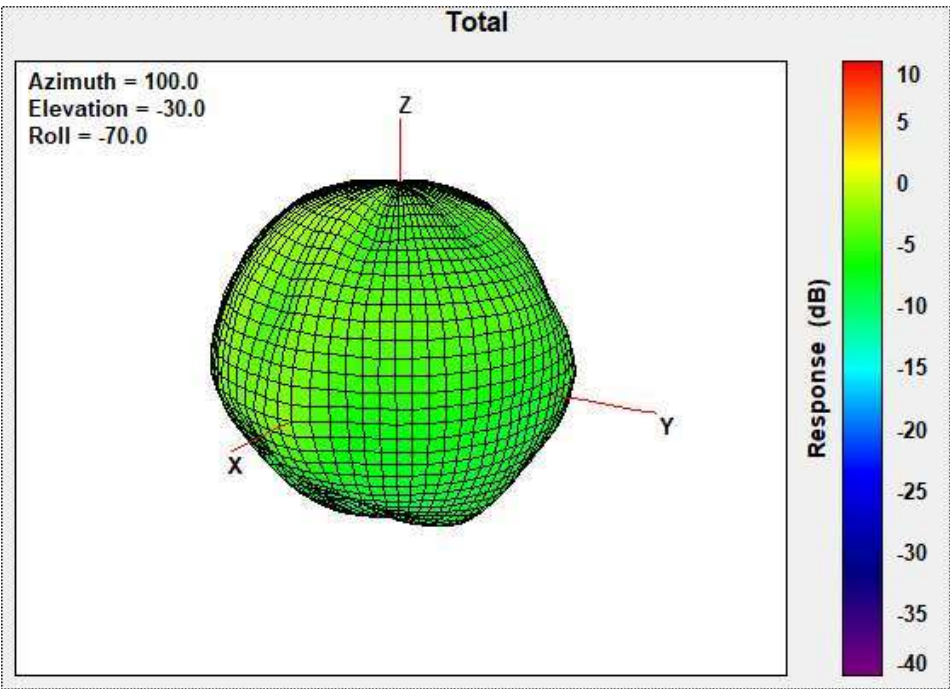
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| Center Frequency              | 2496MHz |
| Peak Gain W/ Cable loss (dBi) | 2.08    |

2500MHz



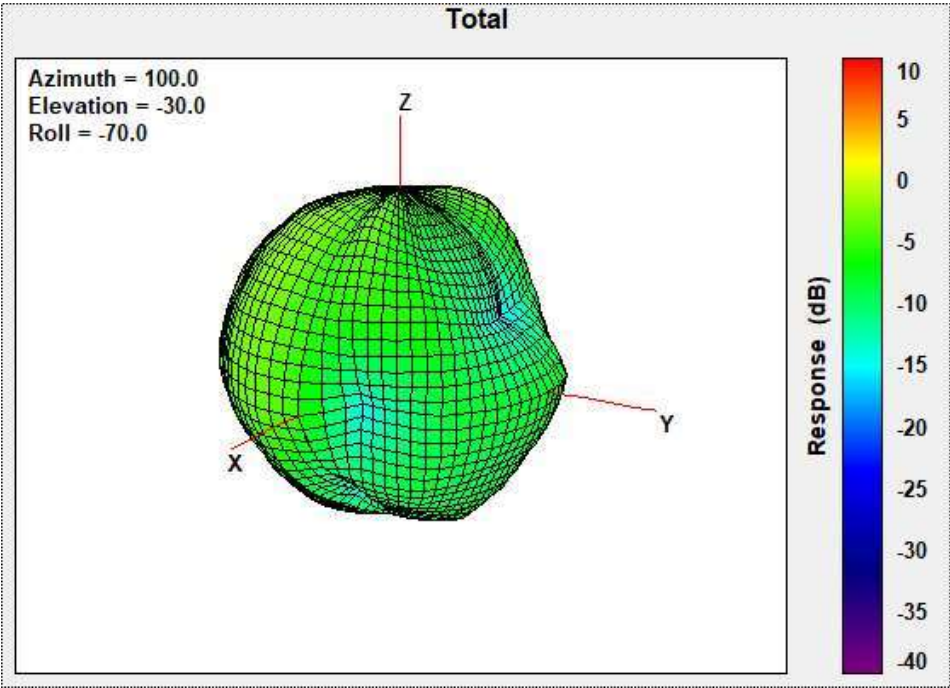
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| Center Frequency              | 2500MHz |
| Peak Gain W/ Cable loss (dBi) | 2.12    |

2535MHz



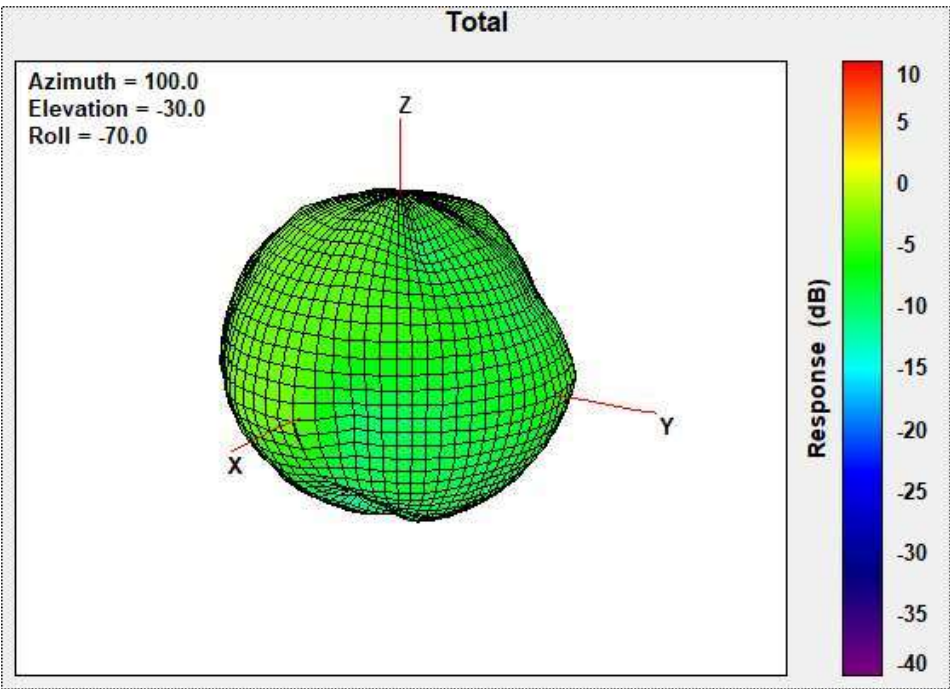
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| Center Frequency              | 2535MHz |
| Peak Gain W/ Cable loss (dBi) | 1.79    |

2570MHz



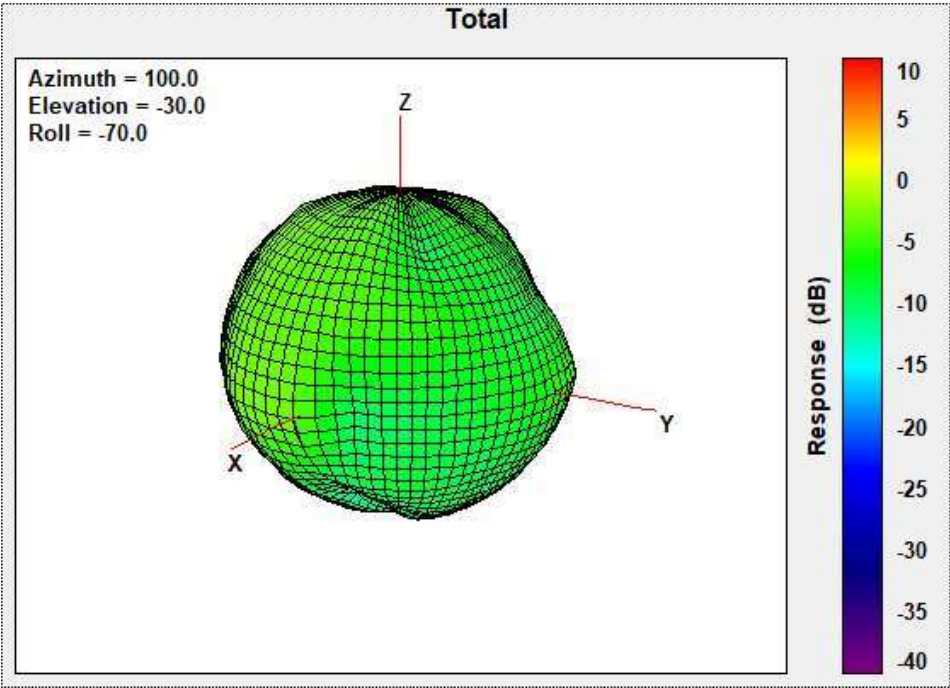
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| Center Frequency              | 2570MHz |
| Peak Gain W/ Cable loss (dBi) | 1.20    |

2593MHz



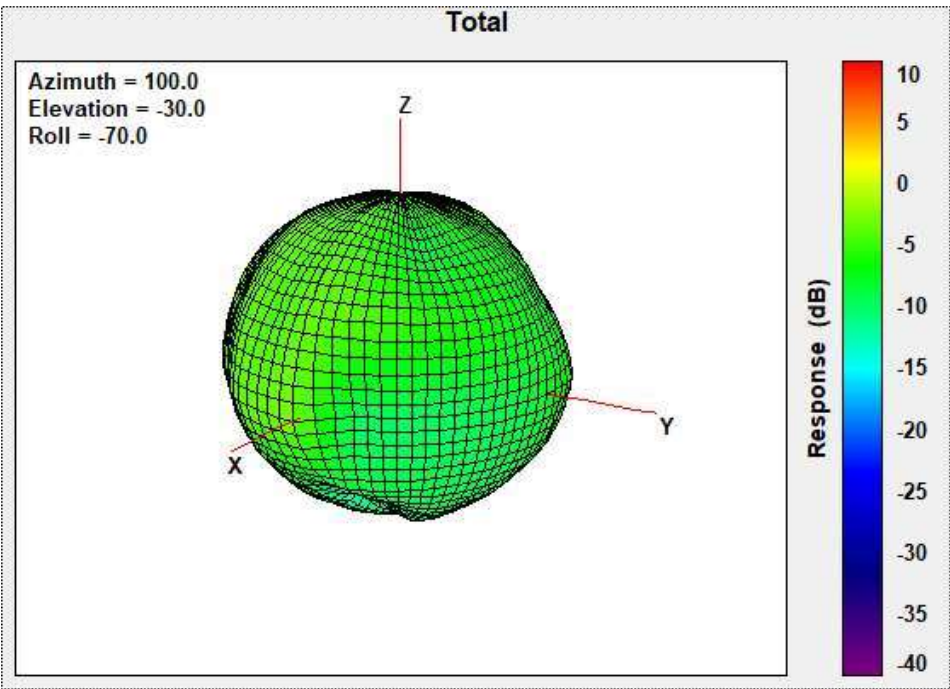
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| Center Frequency              | 2593MHz |
| Peak Gain W/ Cable loss (dBi) | 1.47    |

2595MHz



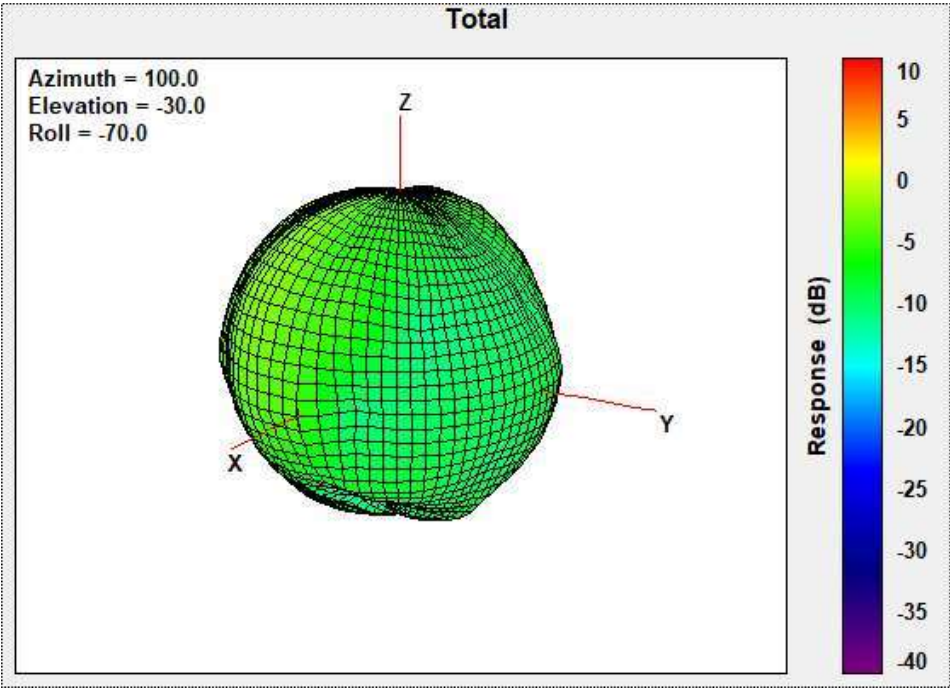
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| Center Frequency              | 2595MHz |
| Peak Gain W/ Cable loss (dBi) | 1.50    |

2620MHz



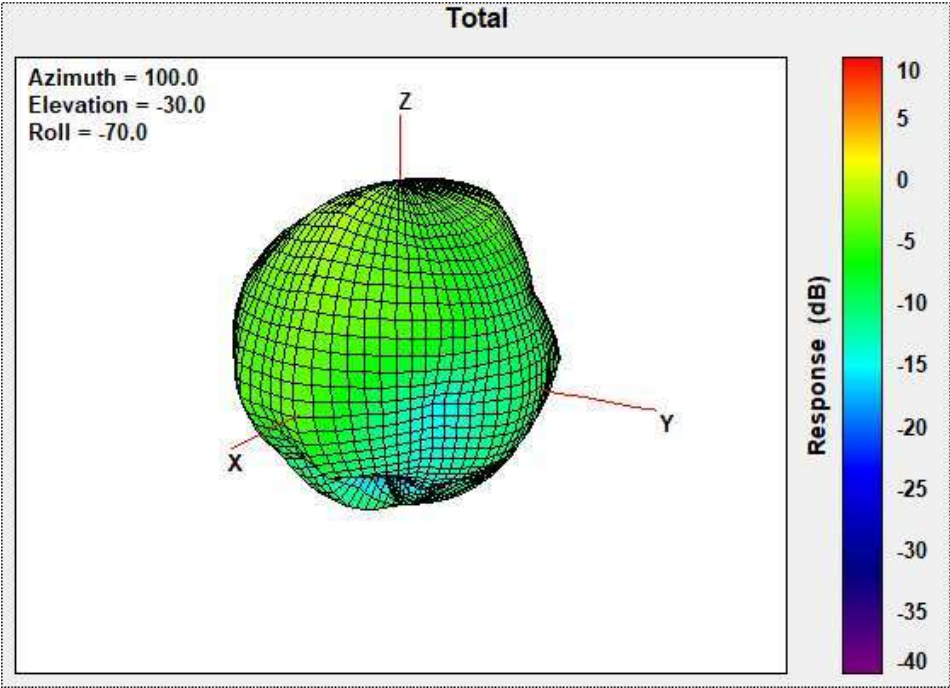
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| Center Frequency              | 2620MHz |
| Peak Gain W/ Cable loss (dBi) | 1.28    |

2690MHz



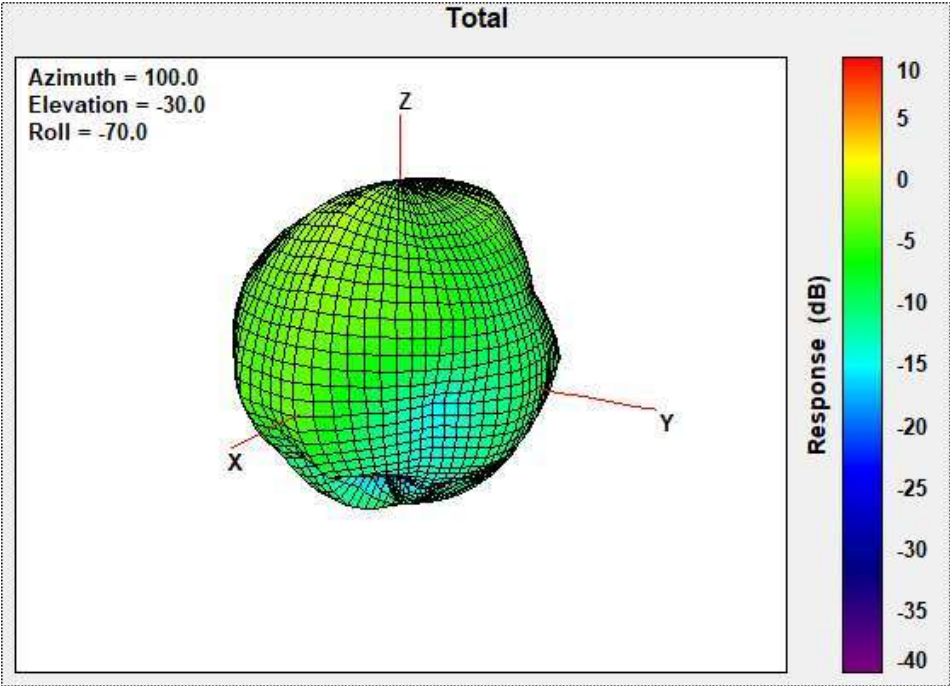
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| Center Frequency              | 2690MHz |
| Peak Gain W/ Cable loss (dBi) | 1.20    |

3300MHz



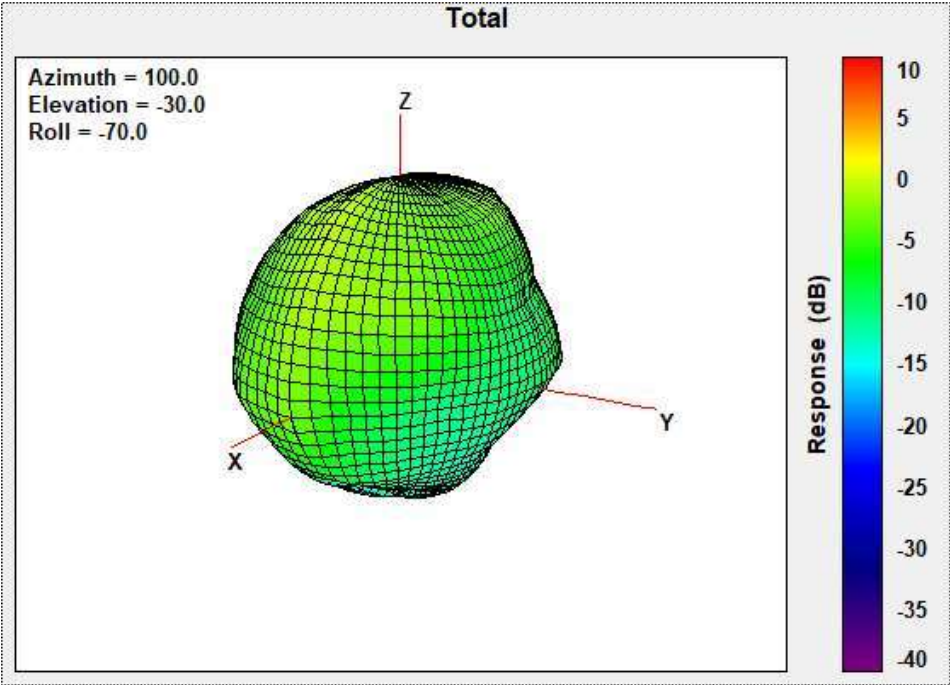
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| Center Frequency              | 3300MHz |
| Peak Gain W/ Cable loss (dBi) | -1.58   |

3400MHz



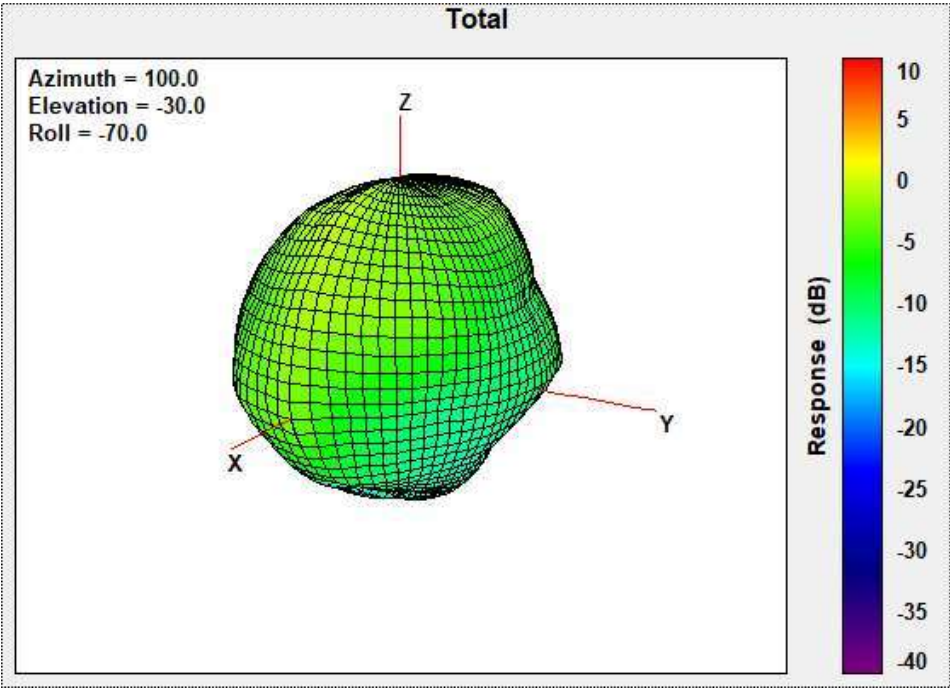
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| Center Frequency              | 3400MHz |
| Peak Gain W/ Cable loss (dBi) | -1.76   |

3500MHz



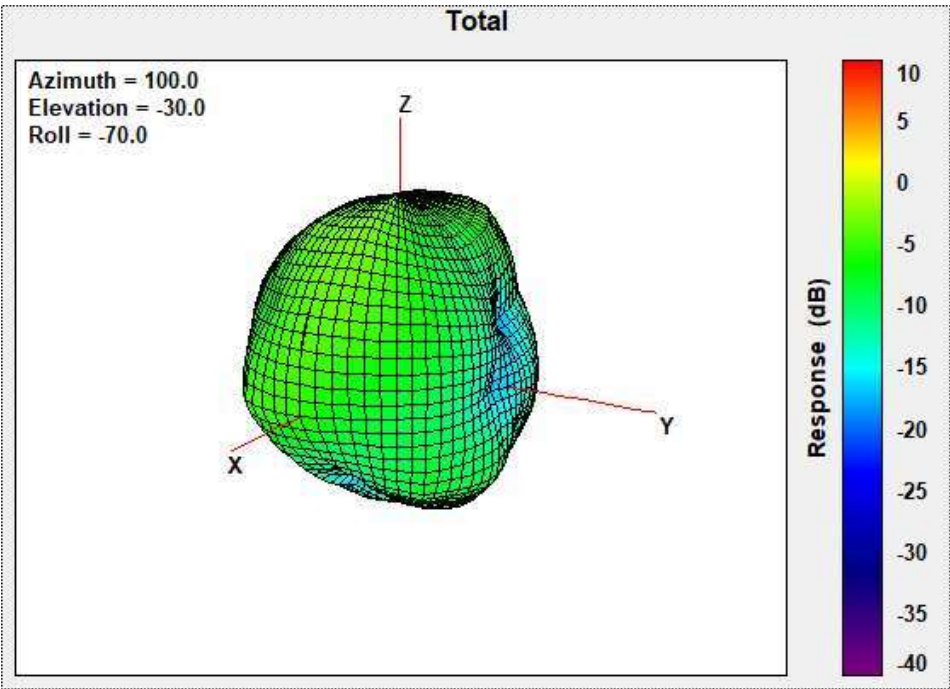
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| Center Frequency              | 3500MHz |
| Peak Gain W/ Cable loss (dBi) | -0.69   |

3550MHz



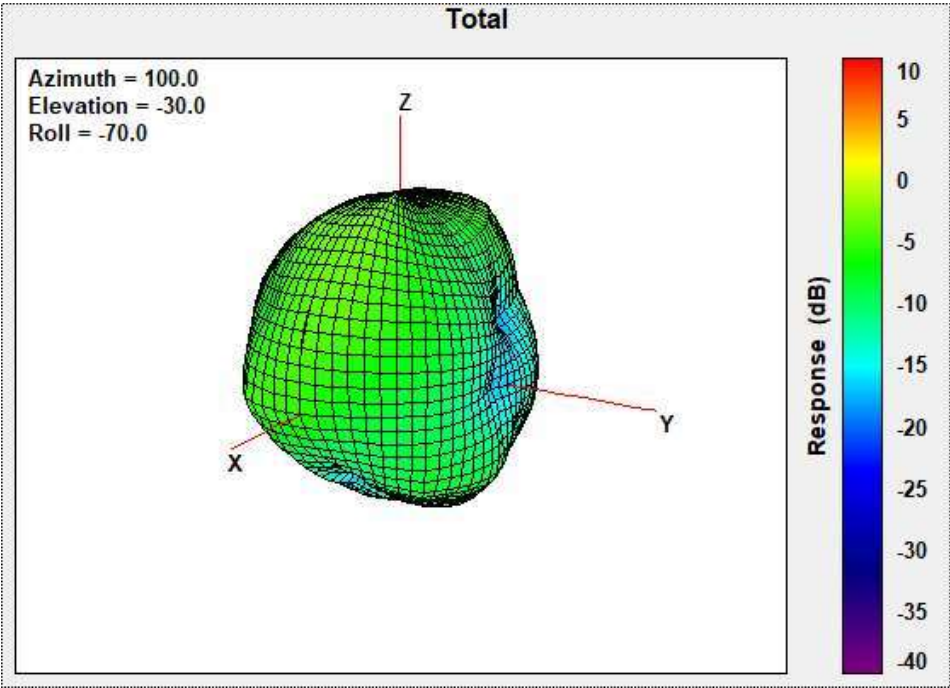
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|-------------------------------|---------|
| Center Frequency              | 3550MHz |
| Peak Gain W/ Cable loss (dBi) | -1.85   |

3600MHz



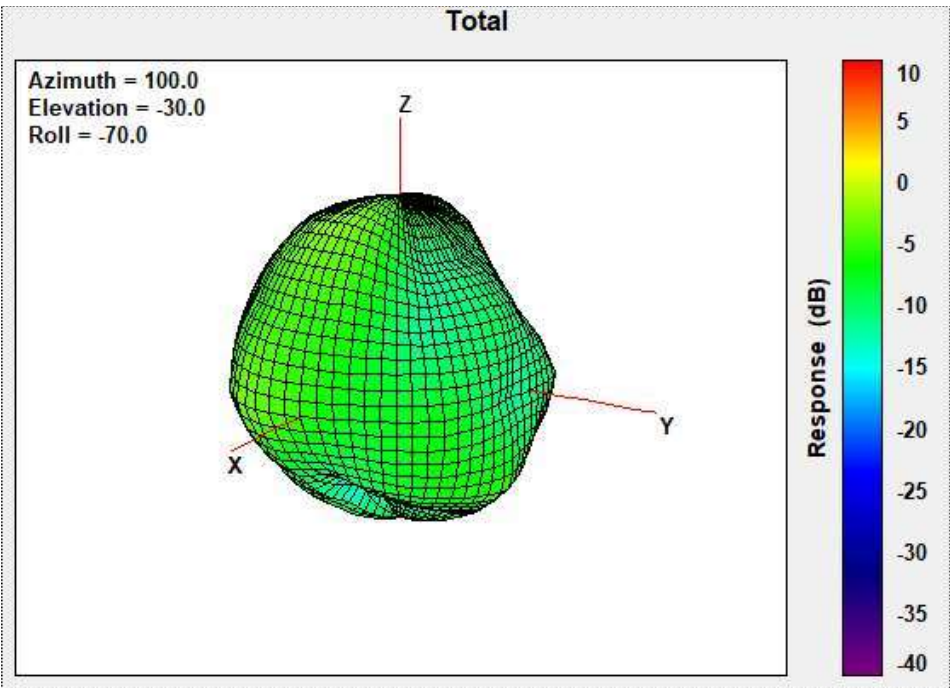
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|-------------------------------|---------|
| Center Frequency              | 3600MHz |
| Peak Gain W/ Cable loss (dBi) | -2.96   |

3625MHz



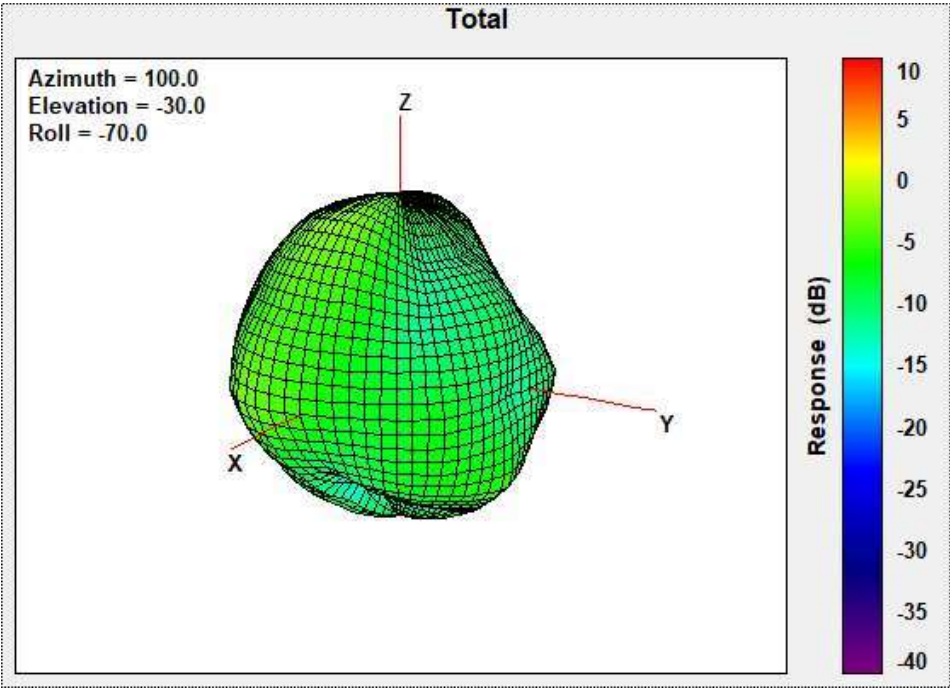
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|-------------------------------|---------|
| Center Frequency              | 3625MHz |
| Peak Gain W/ Cable loss (dBi) | -2.73   |

3700MHz



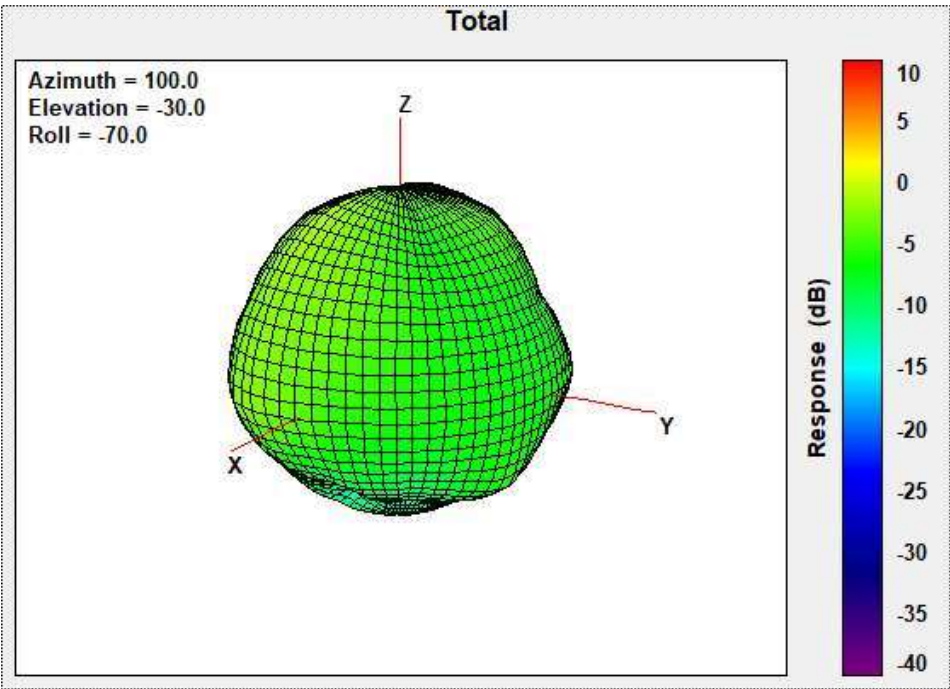
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| Center Frequency              | 3700MHz |
| Peak Gain W/ Cable loss (dBi) | -2.37   |

3750MHz



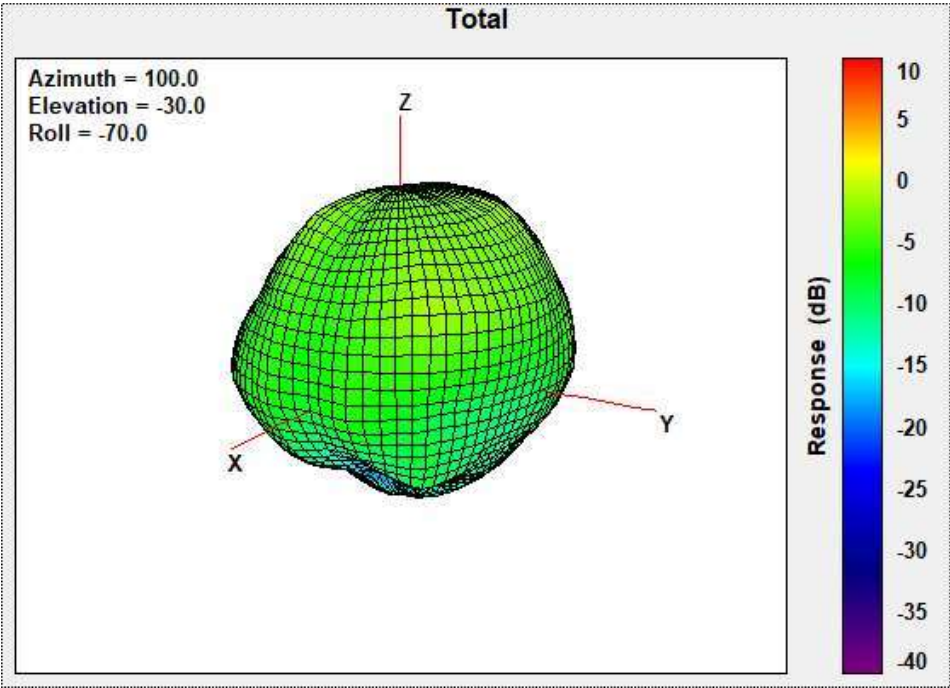
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|-------------------------------|---------|
| Center Frequency              | 3750MHz |
| Peak Gain W/ Cable loss (dBi) | -2.3    |

3800MHz



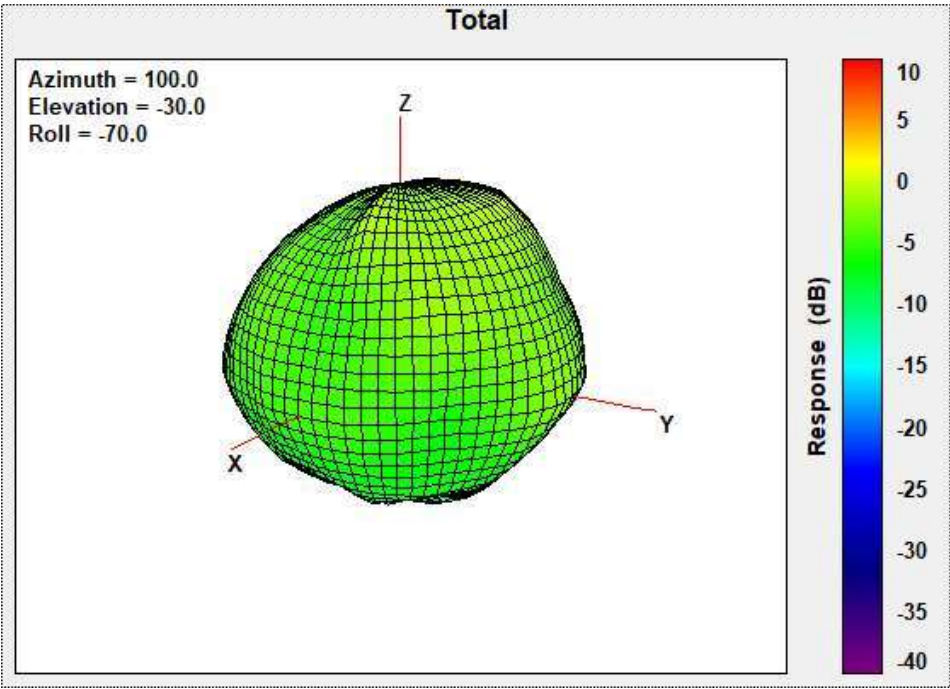
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| Center Frequency              | 3800MHz |
| Peak Gain W/ Cable loss (dBi) | -2.26   |

4200MHz



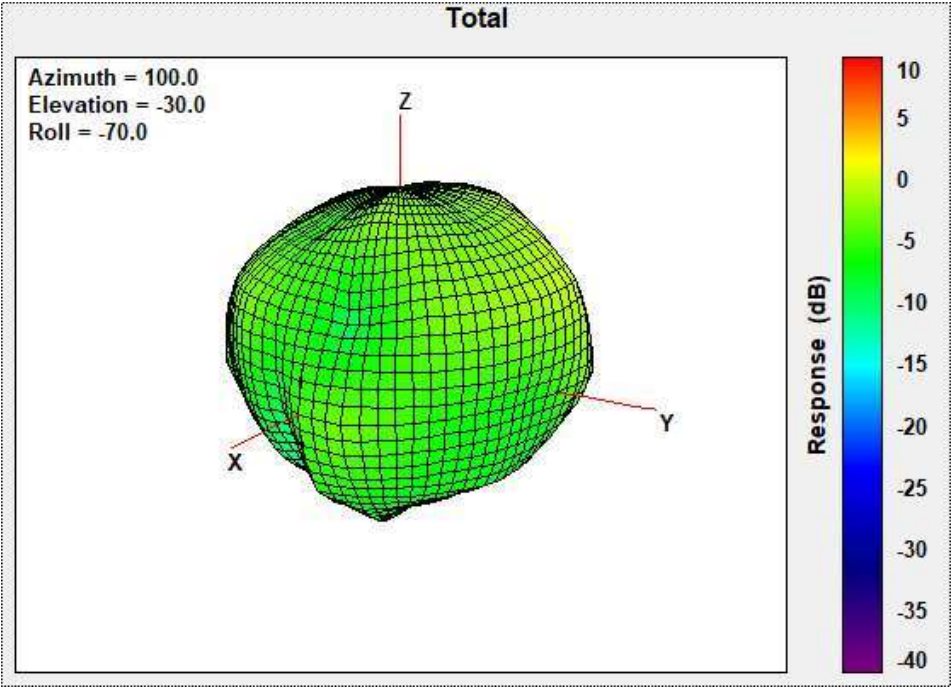
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| Center Frequency              | 4200MHz |
| Peak Gain W/ Cable loss (dBi) | -1.88   |

4400MHz



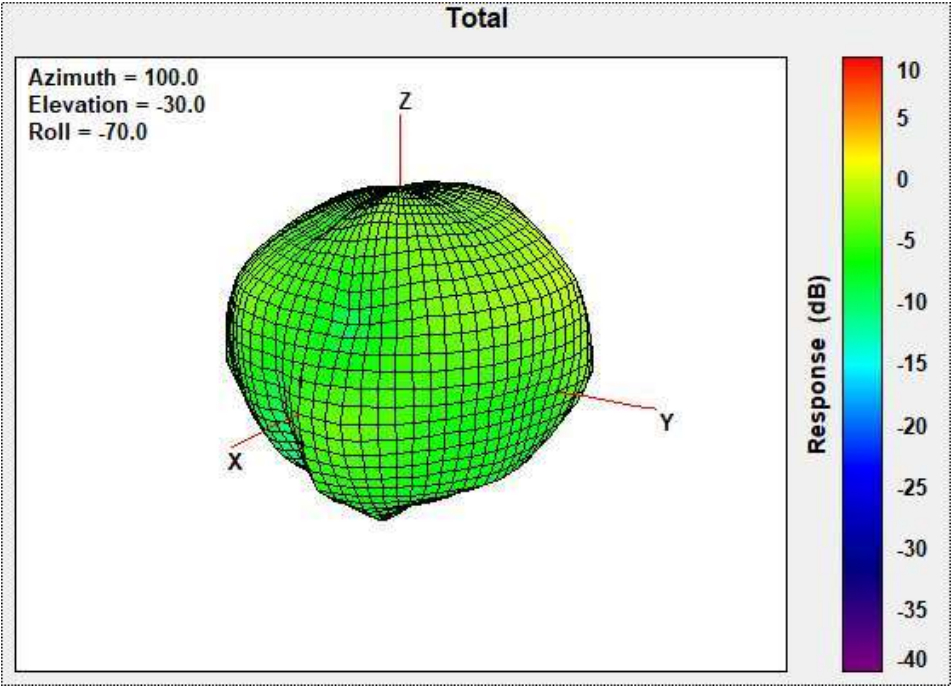
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|-------------------------------|---------|
| Center Frequency              | 4400MHz |
| Peak Gain W/ Cable loss (dBi) | -0.44   |

4700MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4700MHz |
| Peak Gain W/ Cable loss (dBi) | -0.66   |

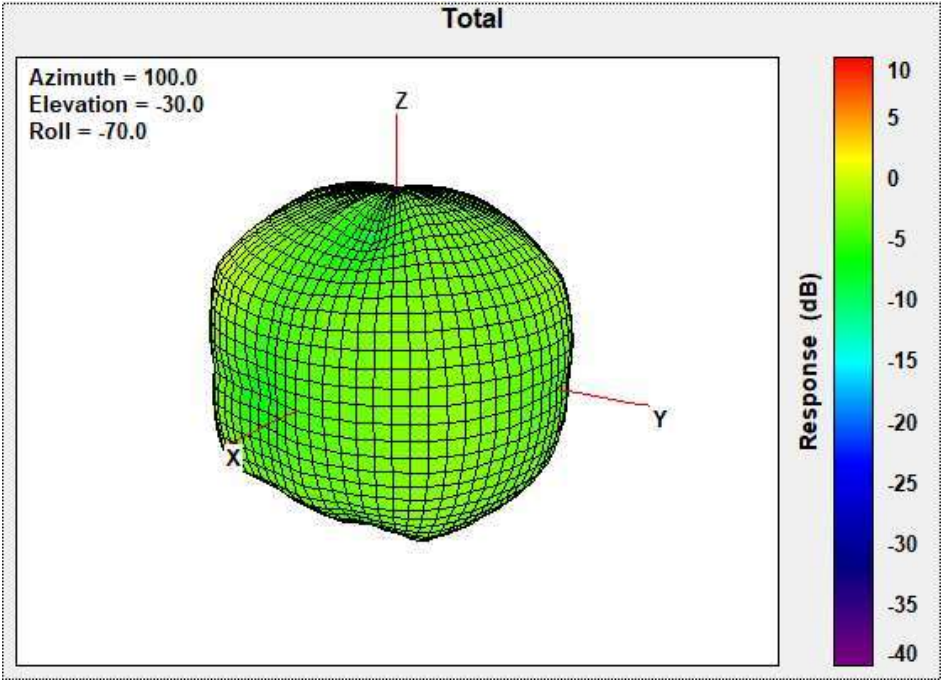
5000MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 5000MHz |
| Peak Gain W/ Cable loss (dBi) | -2.14   |

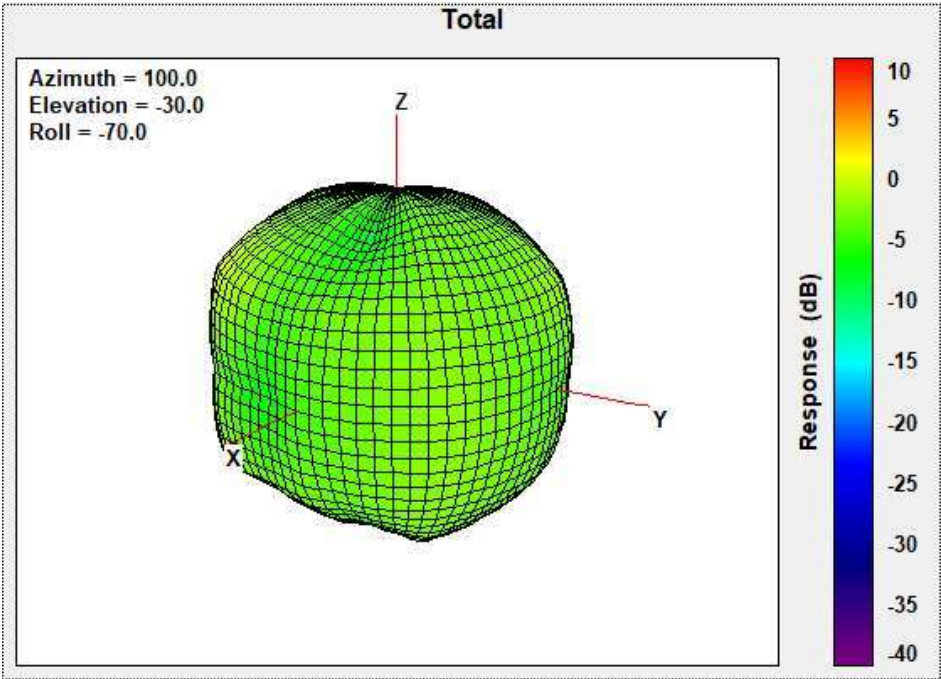
WWAN MIMO2 Antenna (Tx2)

1695 MHz



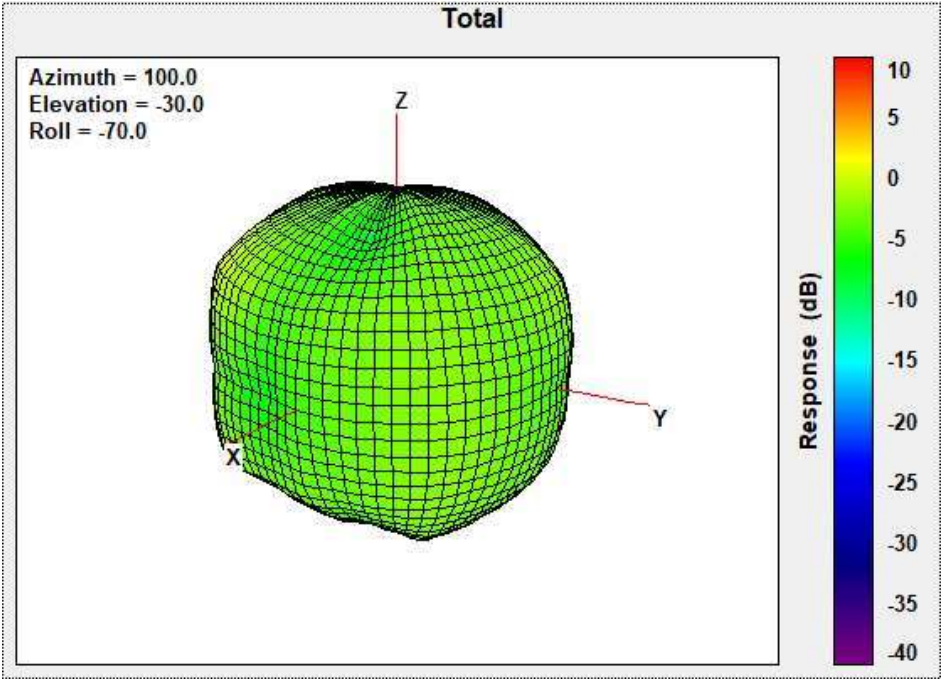
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| Center Frequency              | 1695MHz |
| Peak Gain W/ Cable loss (dBi) | 0.35    |

1702.5 MHz



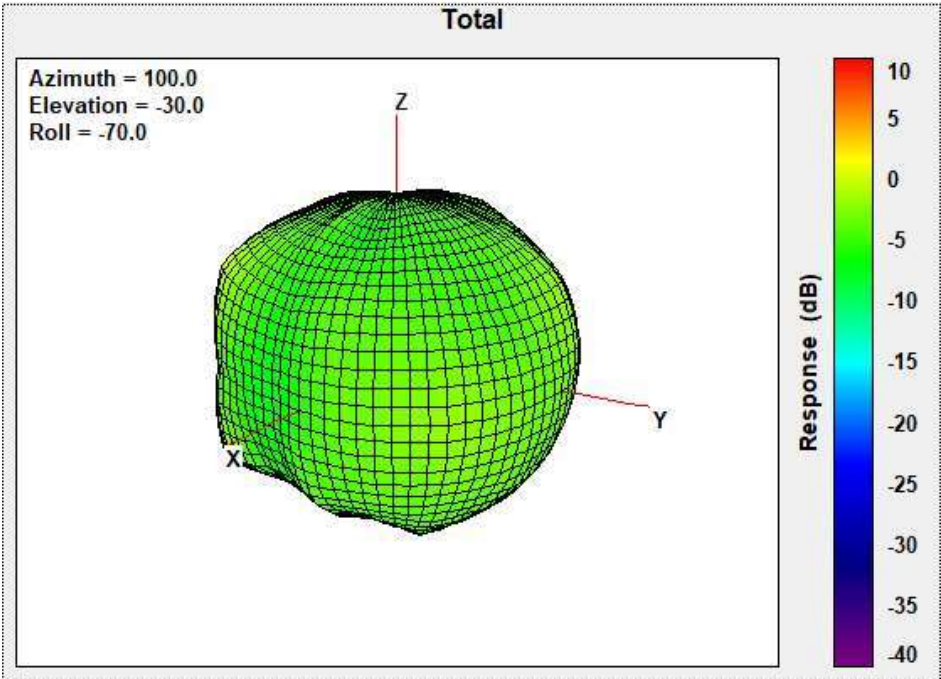
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| Center Frequency              | 1702.5MHz |
| Peak Gain W/ Cable loss (dBi) | 0.38      |

1710 MHz



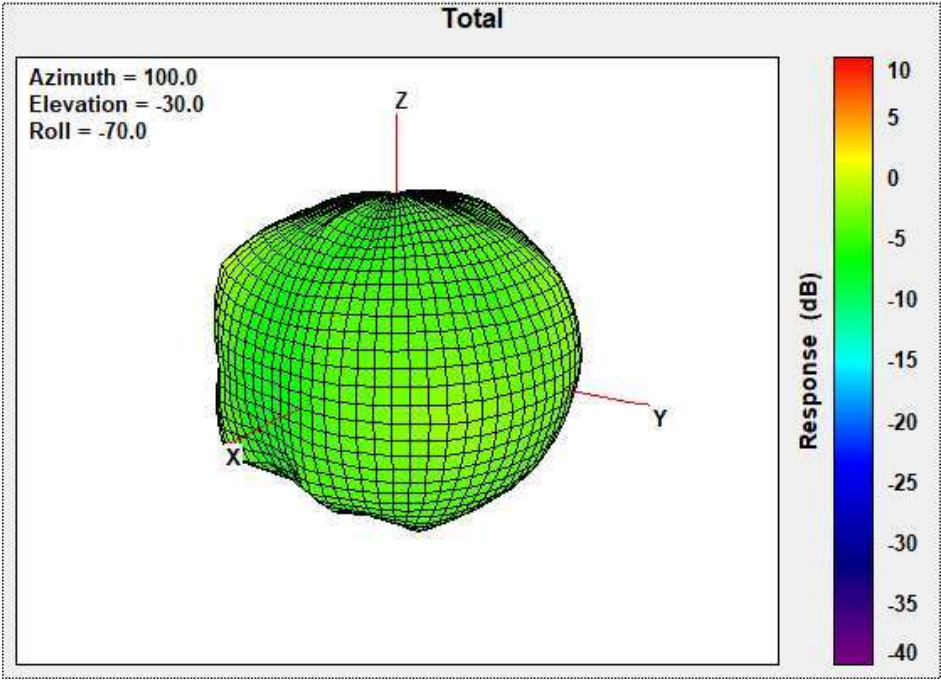
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| Center Frequency              | 1710MHz |
| Peak Gain W/ Cable loss (dBi) | 0.40    |

1732.5 MHz



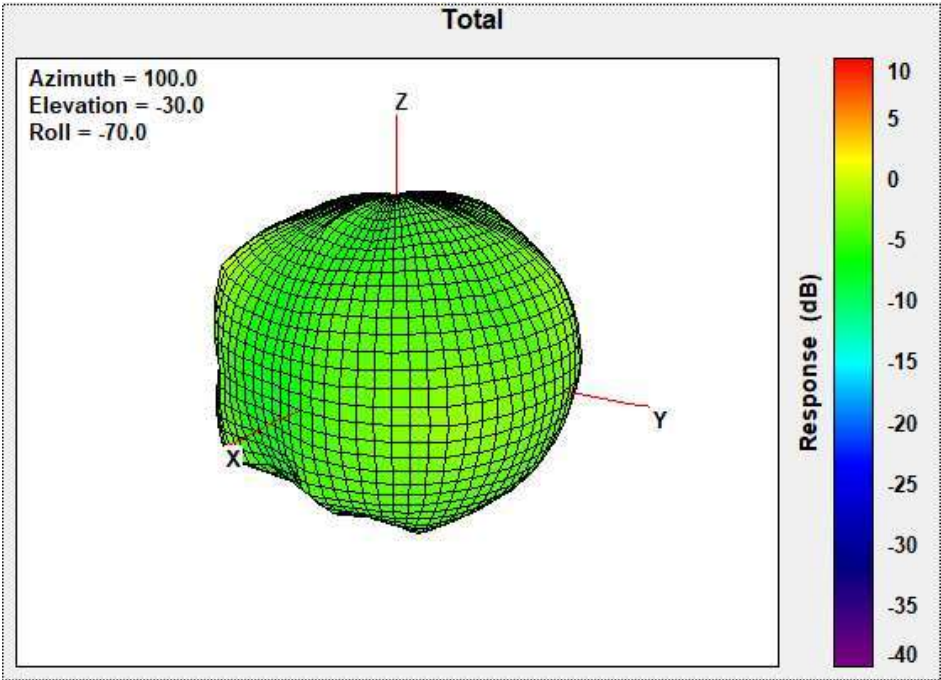
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| Center Frequency              | 1732.5MHz |
| Peak Gain W/ Cable loss (dBi) | 0.31      |

1745 MHz



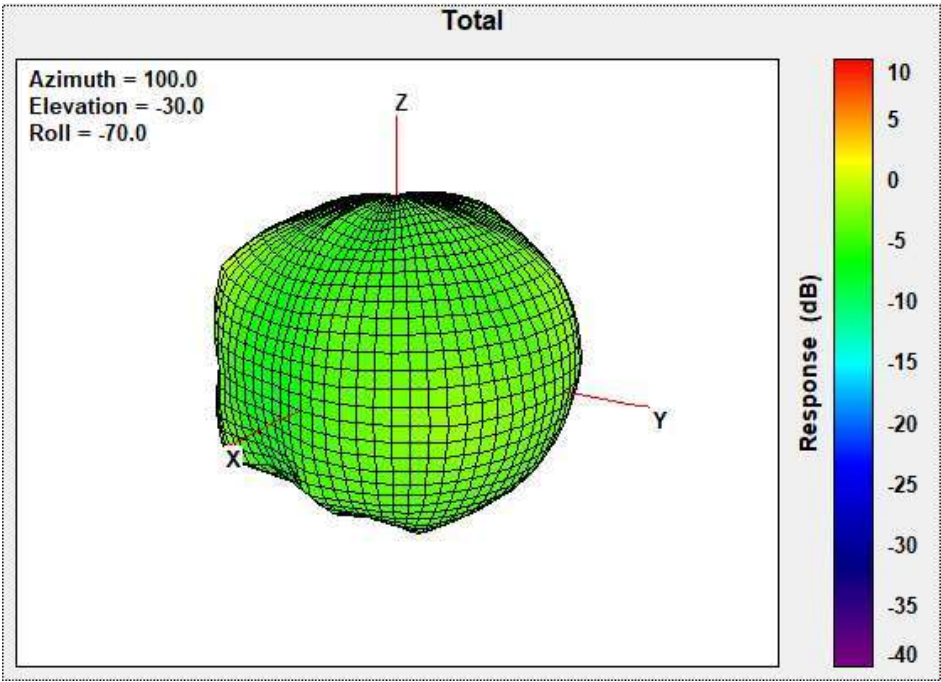
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| Center Frequency              | 1745MHz |
| Peak Gain W/ Cable loss (dBi) | 0.10    |

1747.5 MHz



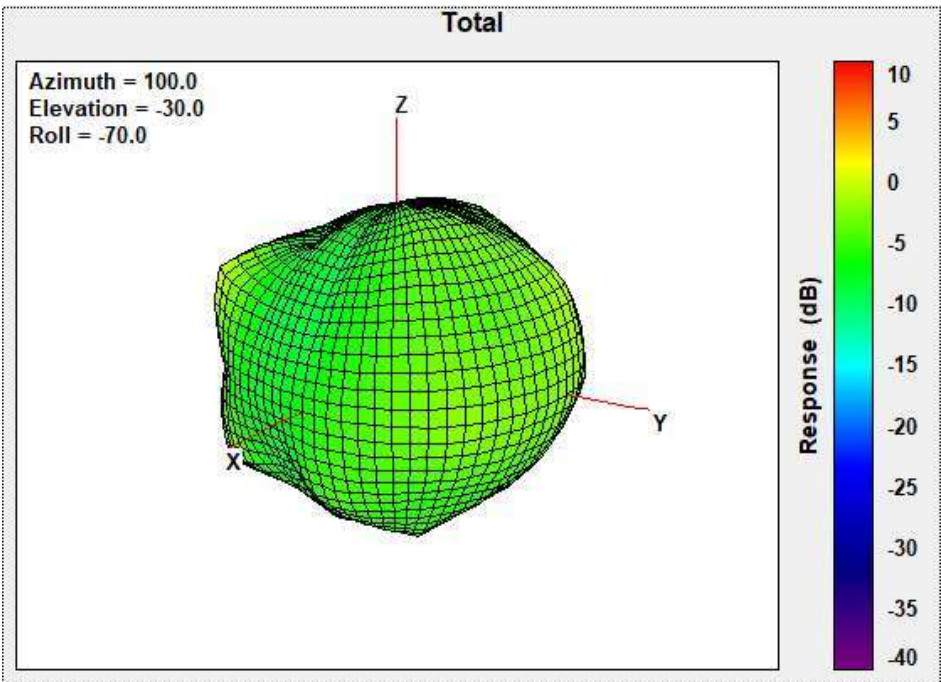
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| Center Frequency              | 1747.5MHz |
| Peak Gain W/ Cable loss (dBi) | 0.08      |

1755 MHz



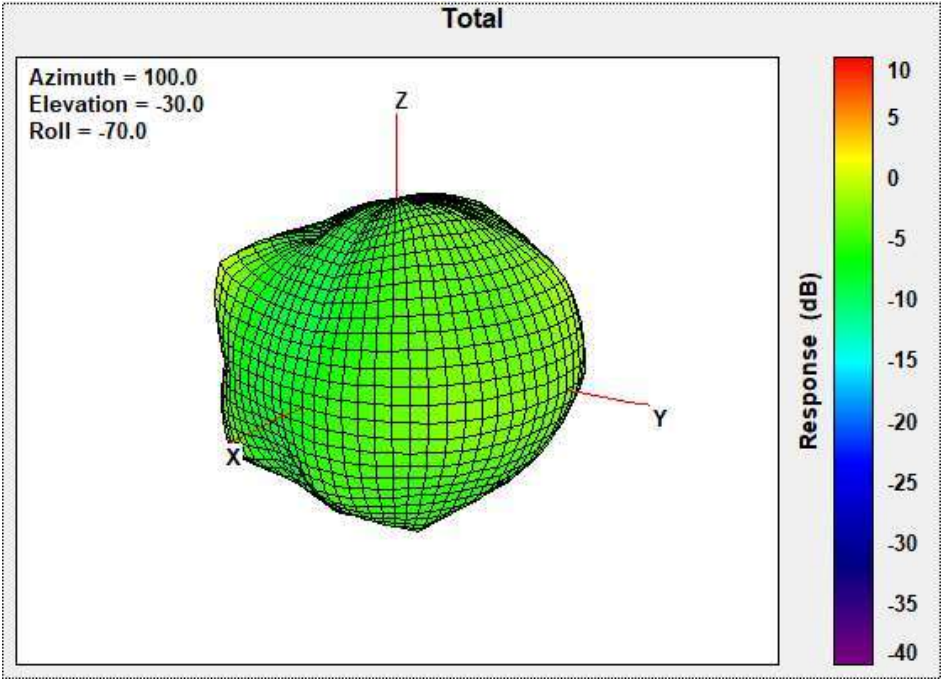
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| Center Frequency              | 1755MHz |
| Peak Gain W/ Cable loss (dBi) | -0.12   |

1780 MHz



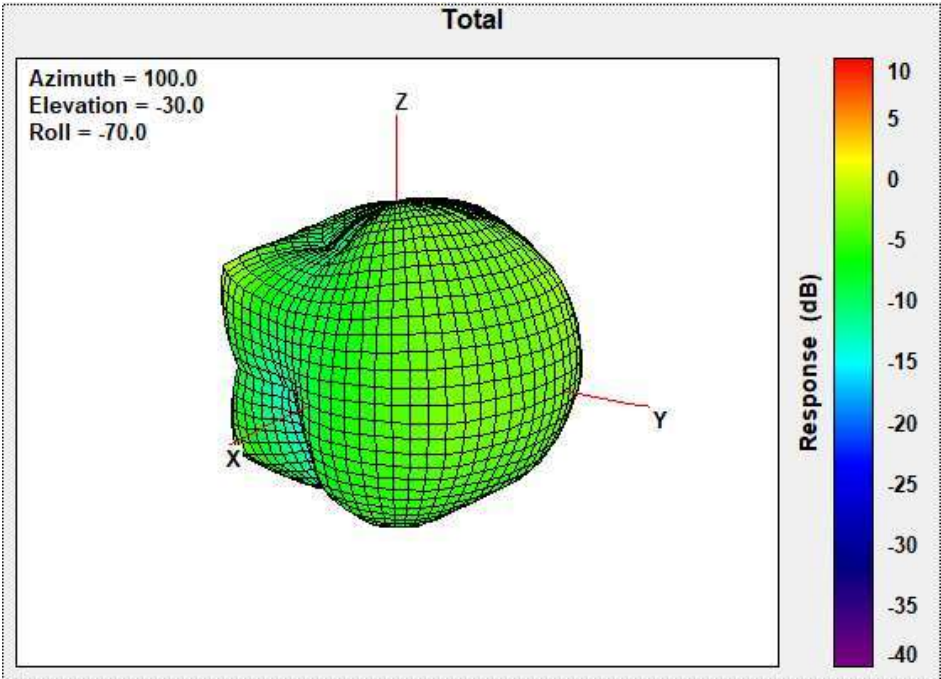
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| Center Frequency              | 1780MHz |
| Peak Gain W/ Cable loss (dBi) | -1.78   |

1785 MHz



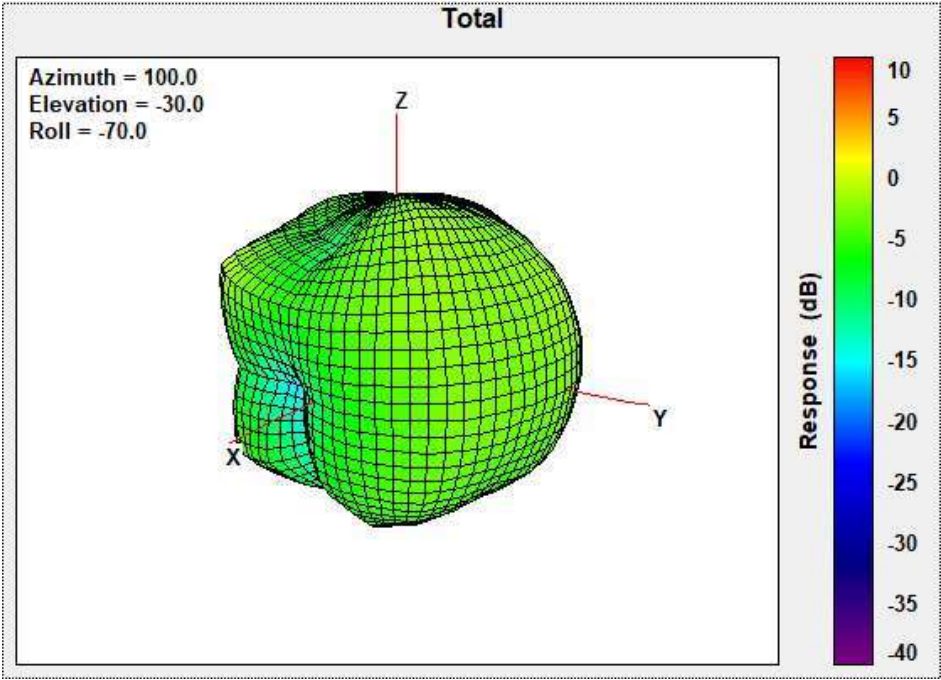
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| Center Frequency              | 1785MHz |
| Peak Gain W/ Cable loss (dBi) | -1.94   |

1850 MHz



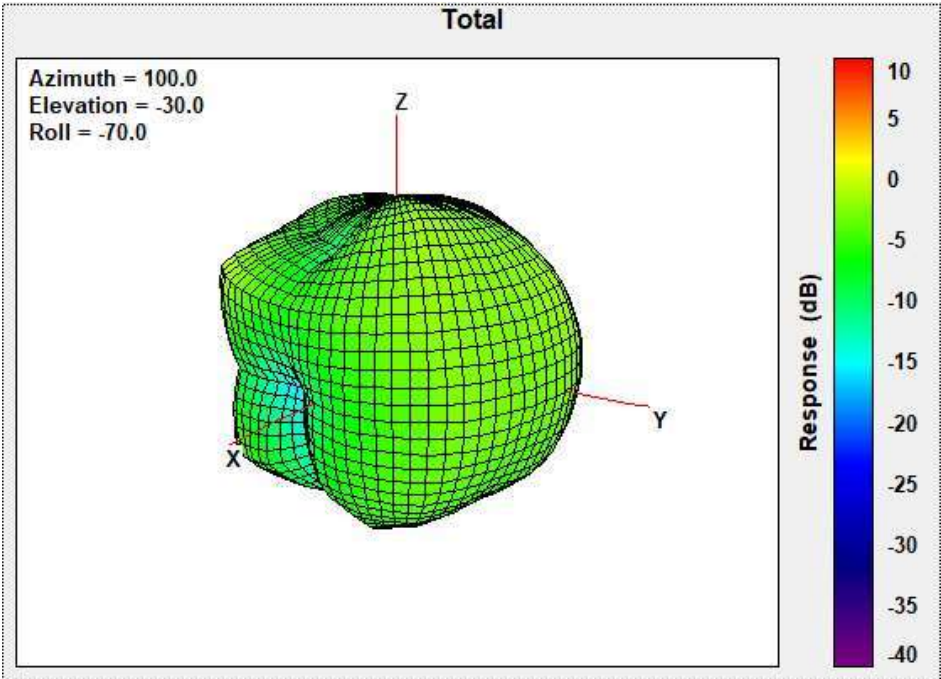
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| Center Frequency              | 1850MHz |
| Peak Gain W/ Cable loss (dBi) | -2.14   |

1880 MHz



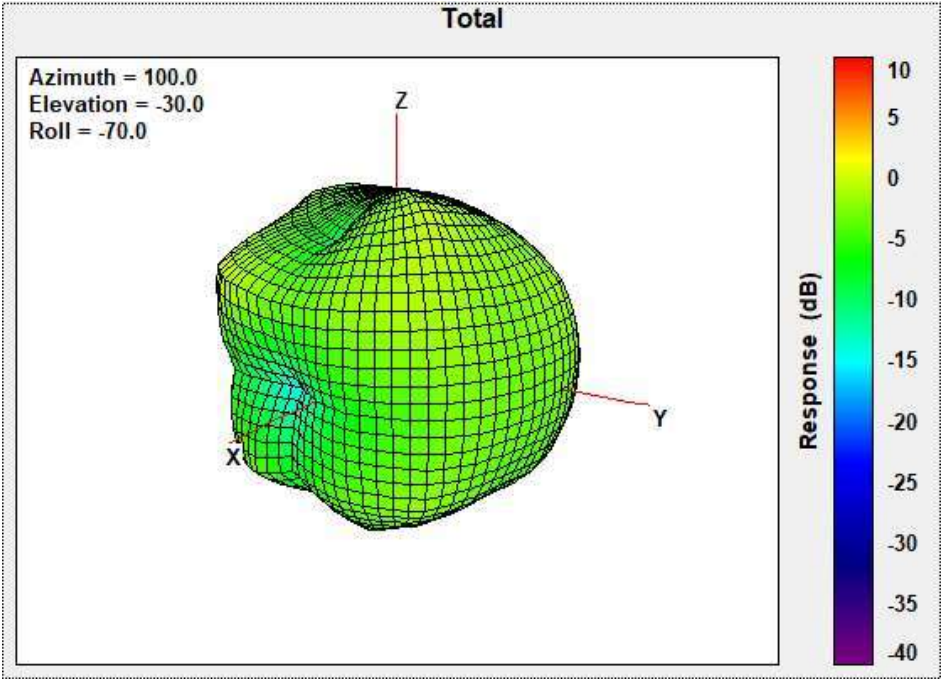
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| Center Frequency              | 1880MHz |
| Peak Gain W/ Cable loss (dBi) | -1.51   |

1882.5 MHz



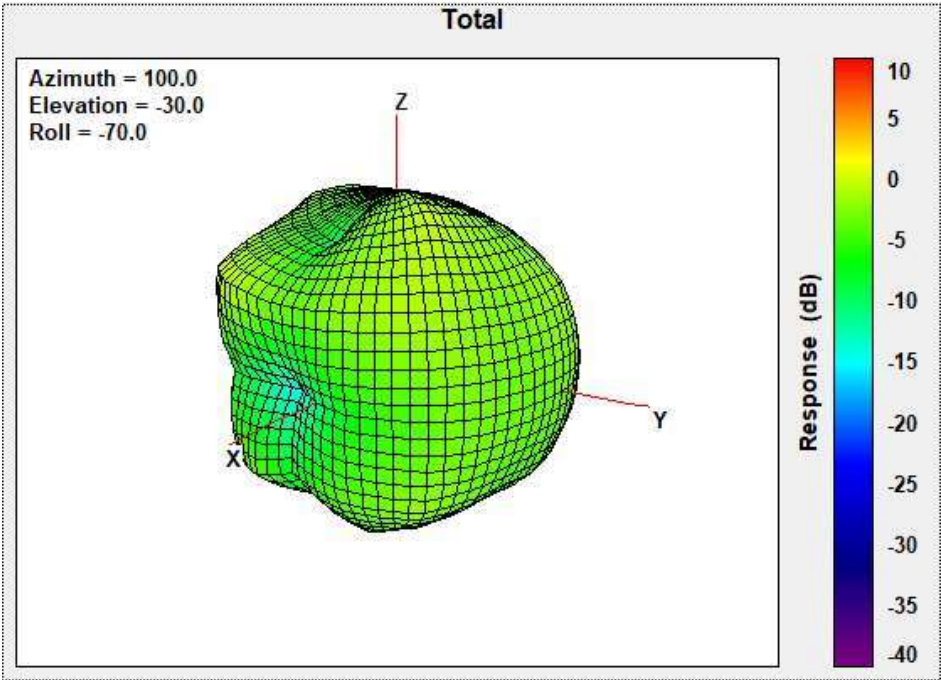
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| Center Frequency              | 1882.5MHz |
| Peak Gain W/ Cable loss (dBi) | -1.49     |

1900MHz



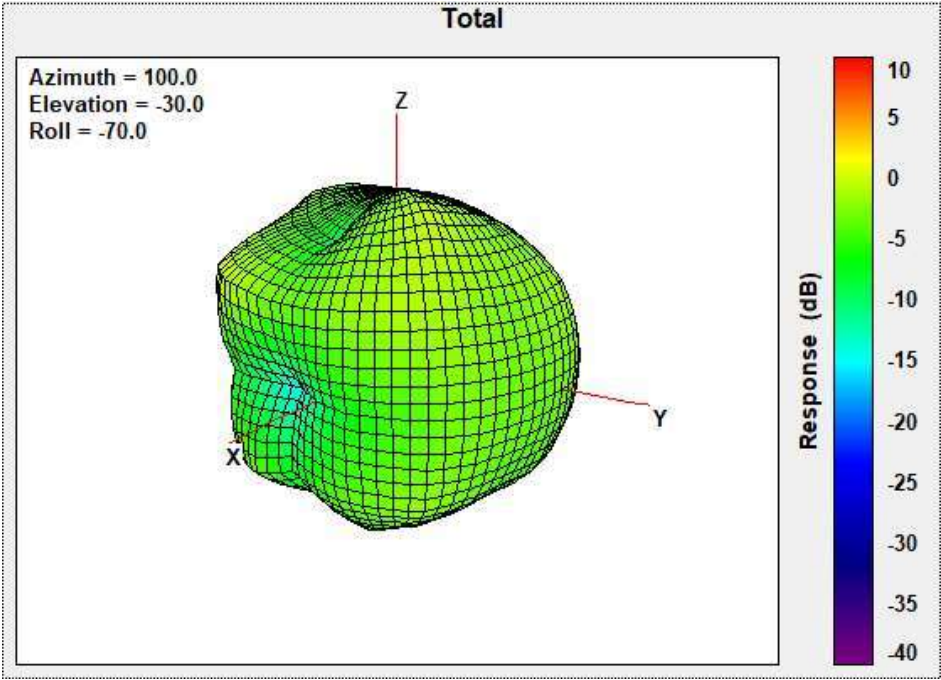
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| Center Frequency              | 1900MHz |
| Peak Gain W/ Cable loss (dBi) | -0.56   |

1910MHz



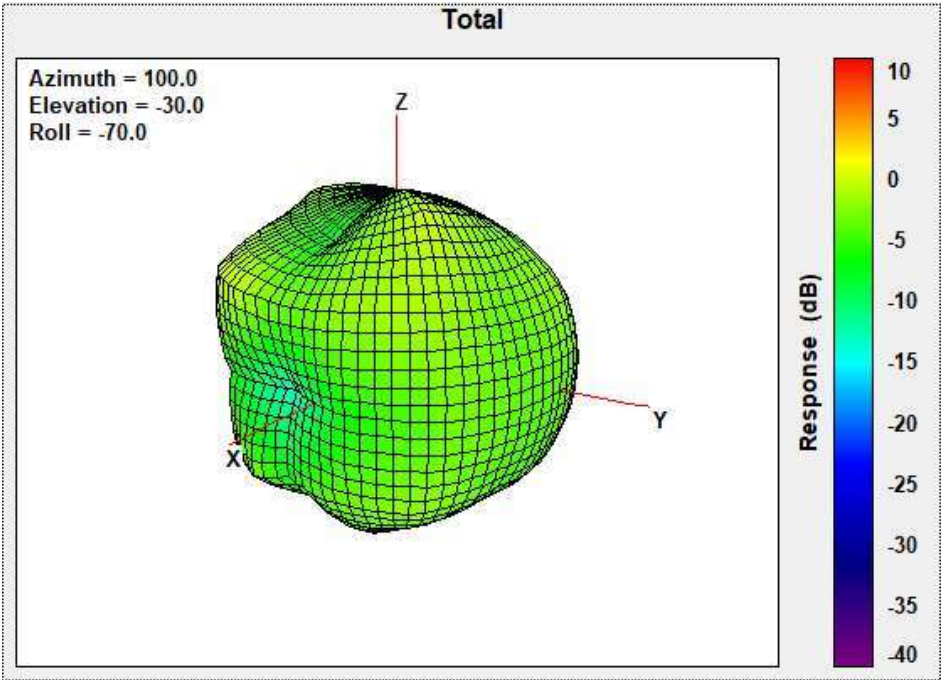
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| Center Frequency              | 1910MHz |
| Peak Gain W/ Cable loss (dBi) | -0.58   |

1915MHz



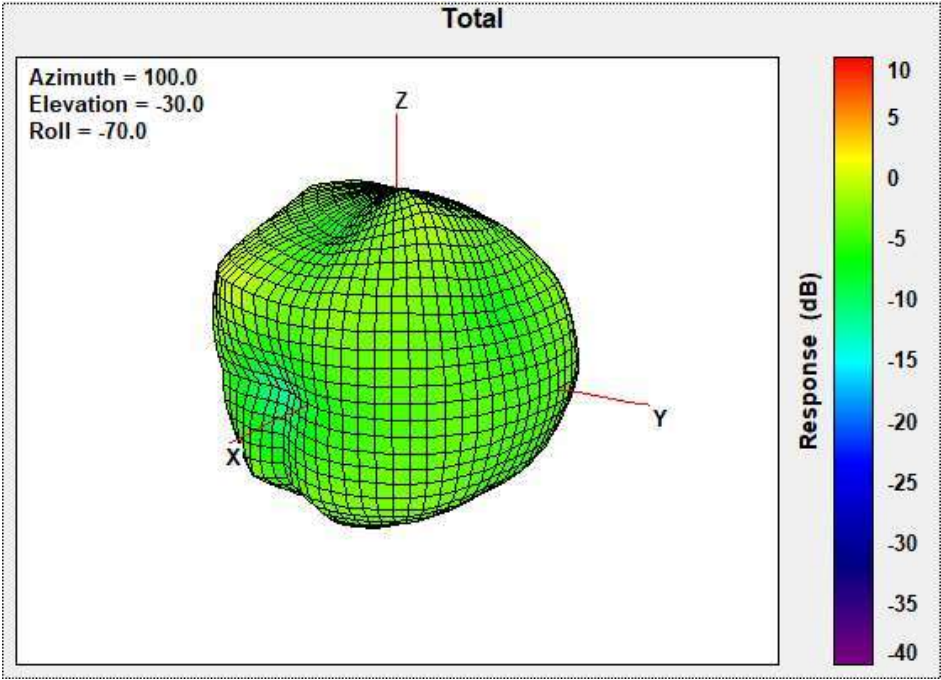
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| Center Frequency              | 1915MHz |
| Peak Gain W/ Cable loss (dBi) | -0.41   |

1920MHz



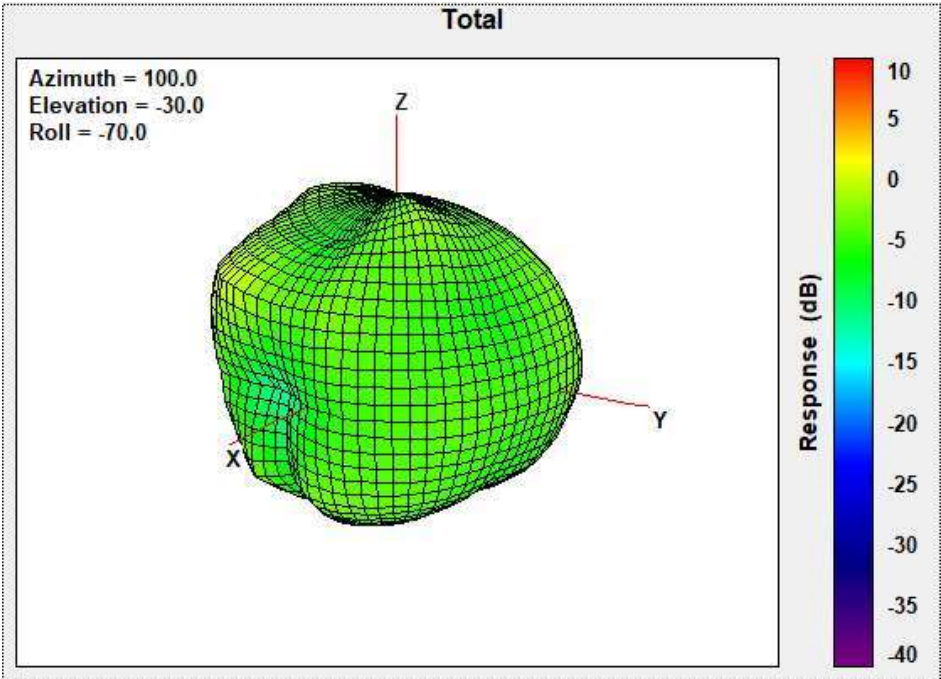
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| Center Frequency              | 1920MHz |
| Peak Gain W/ Cable loss (dBi) | -0.39   |

1950MHz



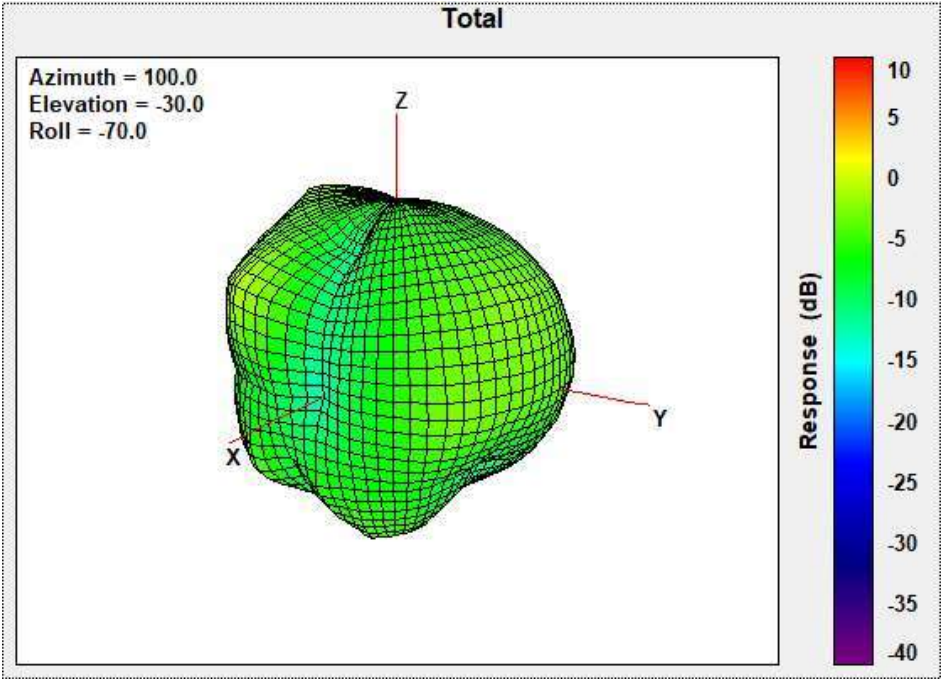
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| Center Frequency              | 1950MHz |
| Peak Gain W/ Cable loss (dBi) | 0.52    |

1980MHz



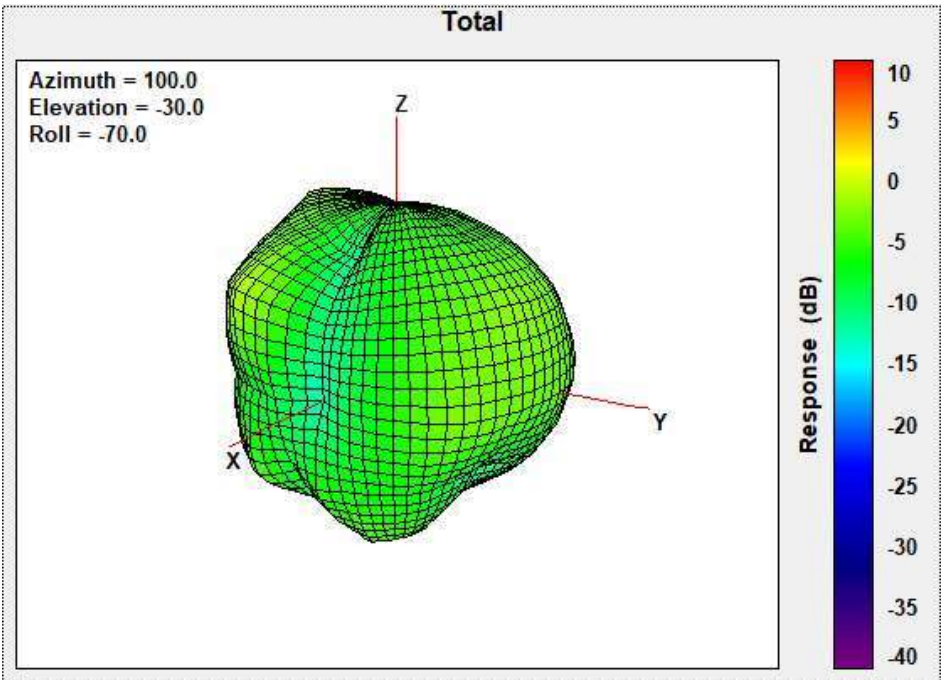
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| Center Frequency              | 1980MHz |
| Peak Gain W/ Cable loss (dBi) | 0.51    |

2010MHz



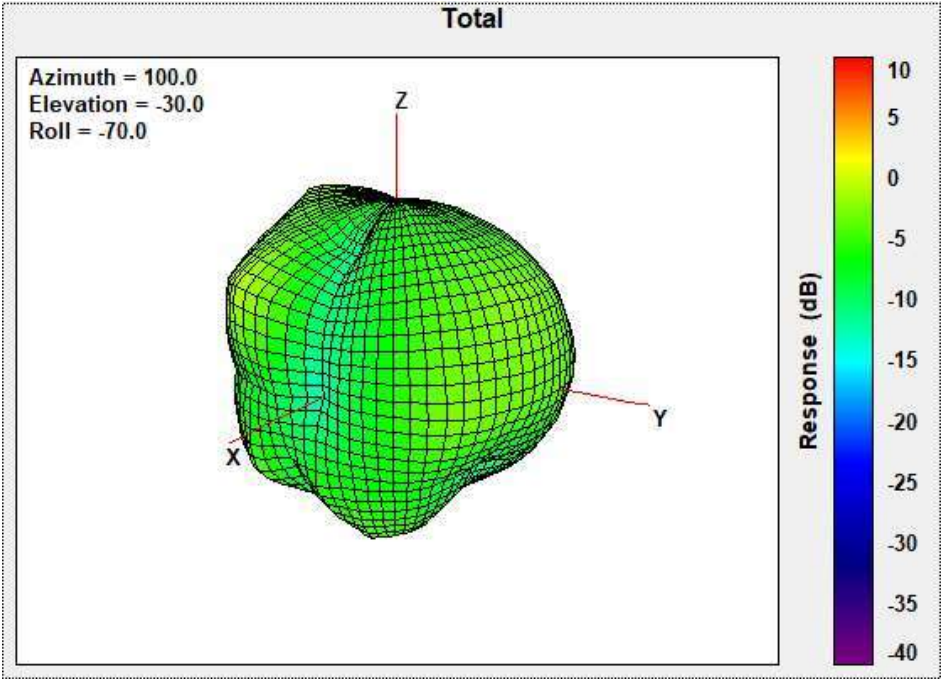
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| Center Frequency              | 2010MHz |
| Peak Gain W/ Cable loss (dBi) | 0.48    |

2017.5MHz



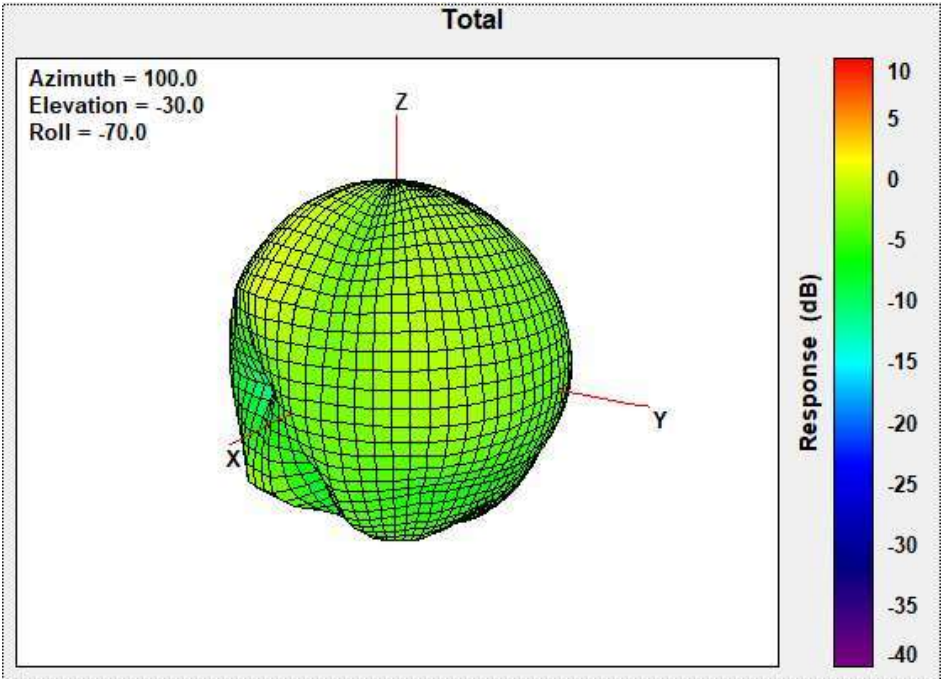
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|-------------------------------|-----------|
| Center Frequency              | 2017.5MHz |
| Peak Gain W/ Cable loss (dBi) | 0.46      |

2025MHz



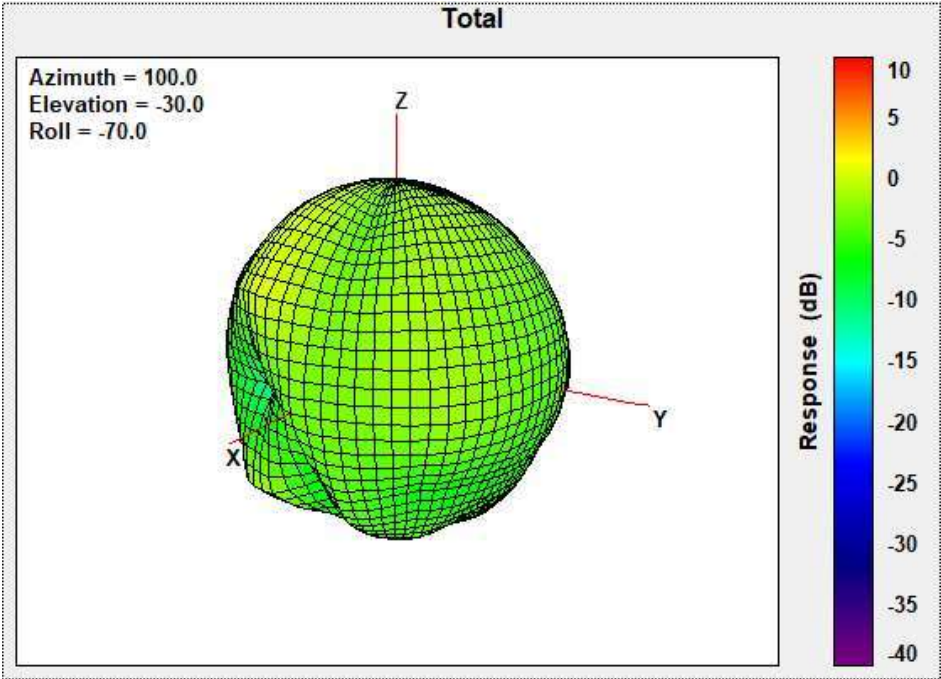
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| Center Frequency              | 2025MHz |
| Peak Gain W/ Cable loss (dBi) | 0.43    |

2300MHz



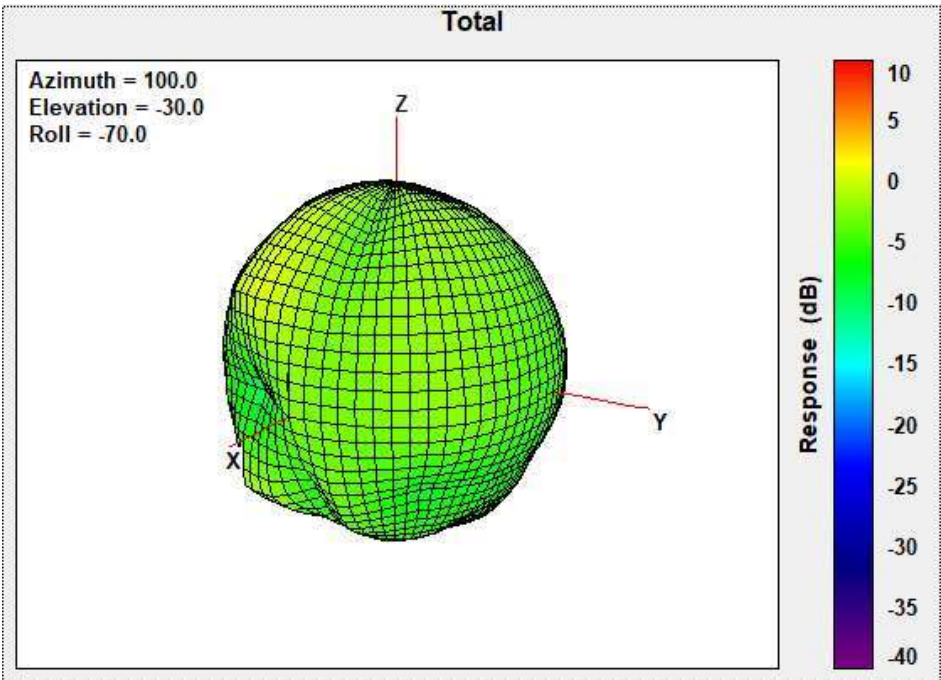
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| Center Frequency              | 2300MHz |
| Peak Gain W/ Cable loss (dBi) | 1.70    |

2305MHz



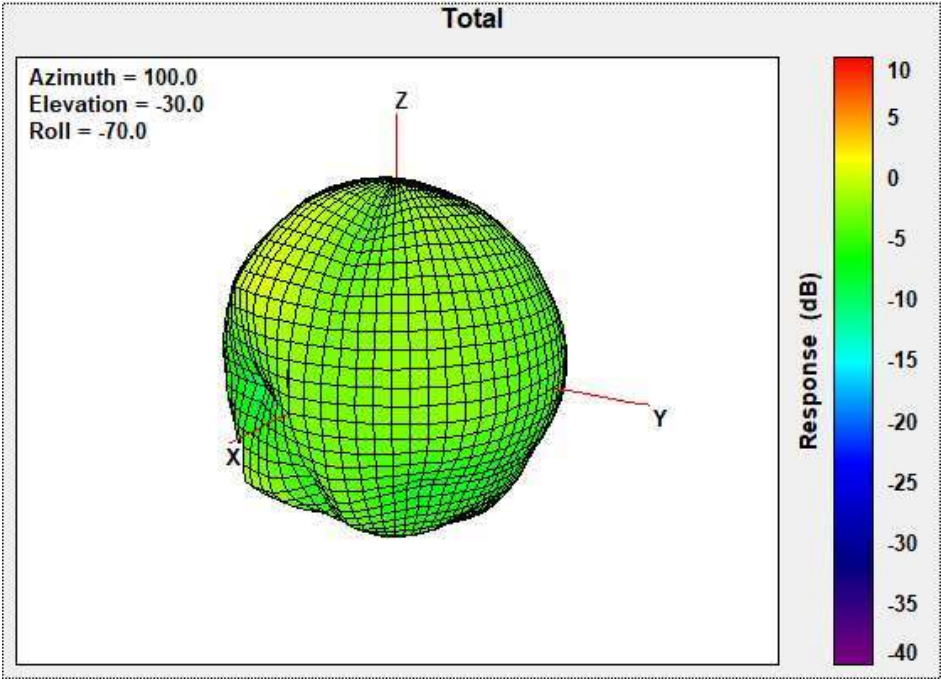
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|-------------------------------|---------|
| Center Frequency              | 2305MHz |
| Peak Gain W/ Cable loss (dBi) | 0.56    |

2310MHz



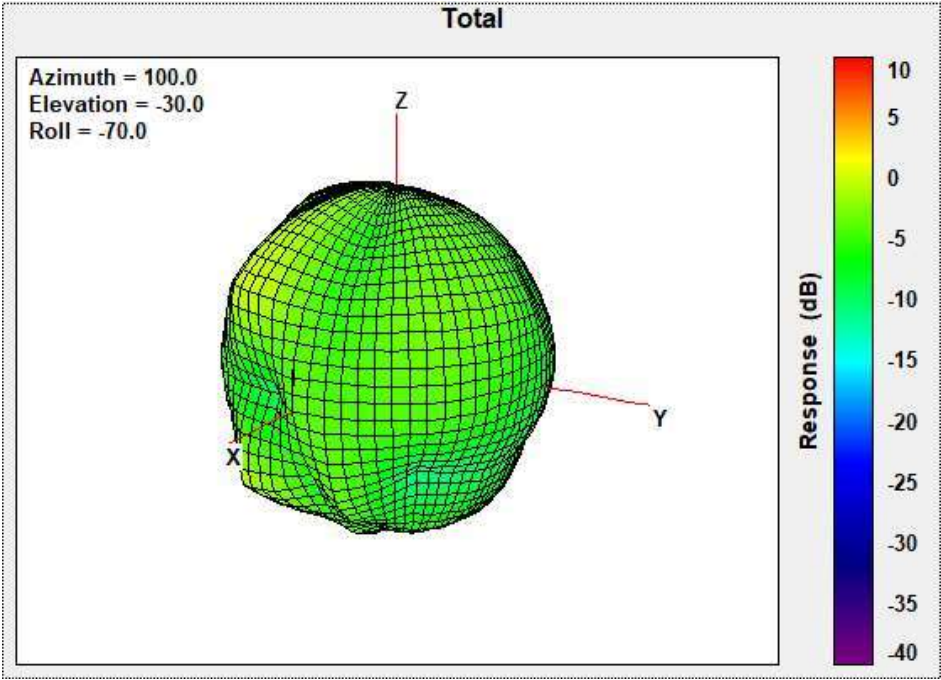
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| Center Frequency              | 2310MHz |
| Peak Gain W/ Cable loss (dBi) | 0.56    |

2315MHz



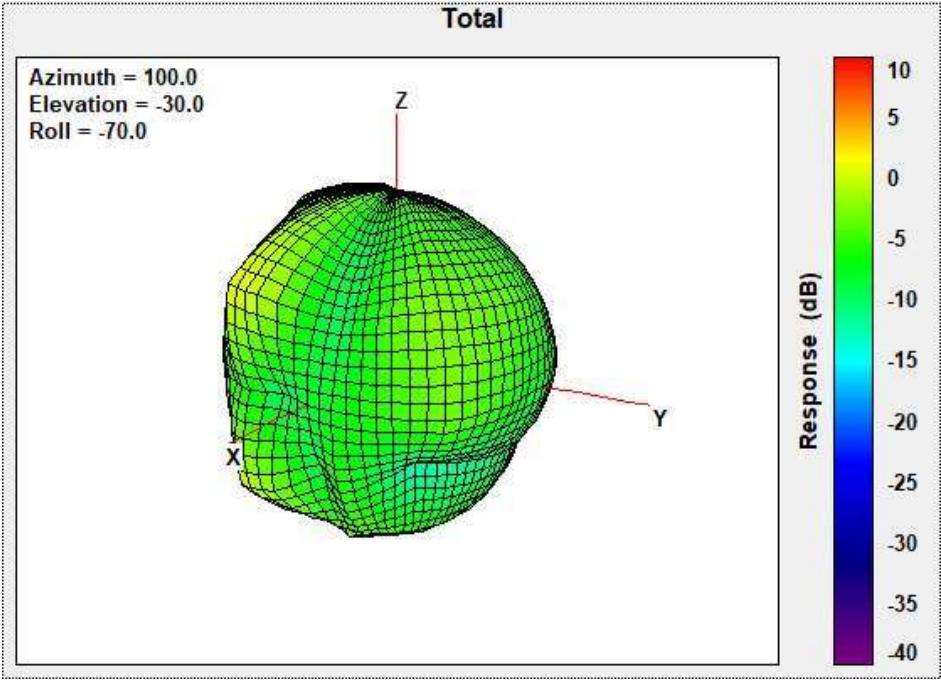
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| Center Frequency              | 2315MHz |
| Peak Gain W/ Cable loss (dBi) | 0.56    |

2350MHz



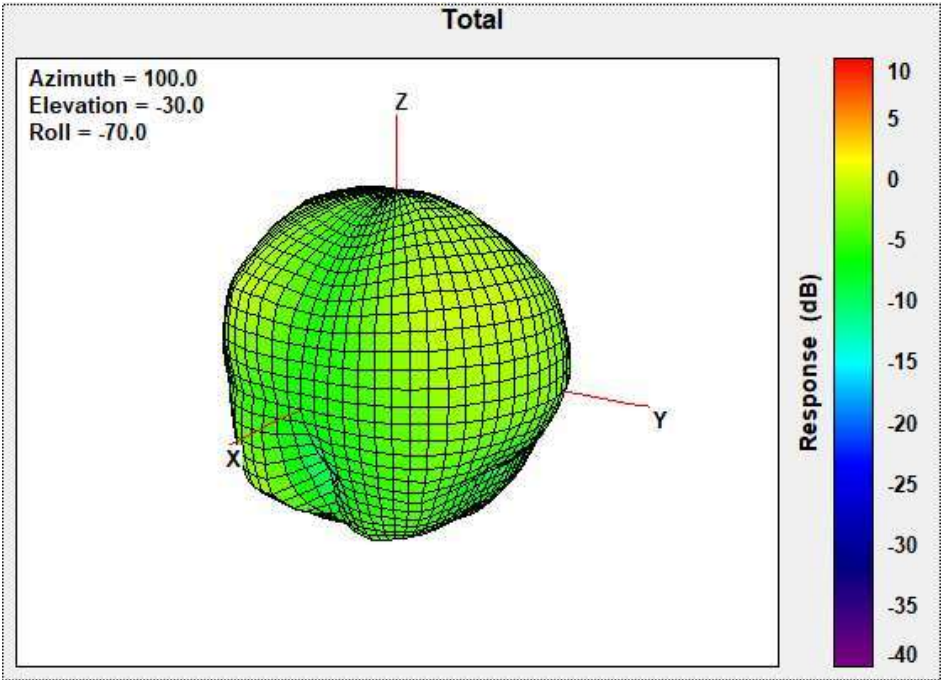
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| Center Frequency              | 2350MHz |
| Peak Gain W/ Cable loss (dBi) | 0.4     |

2400MHz



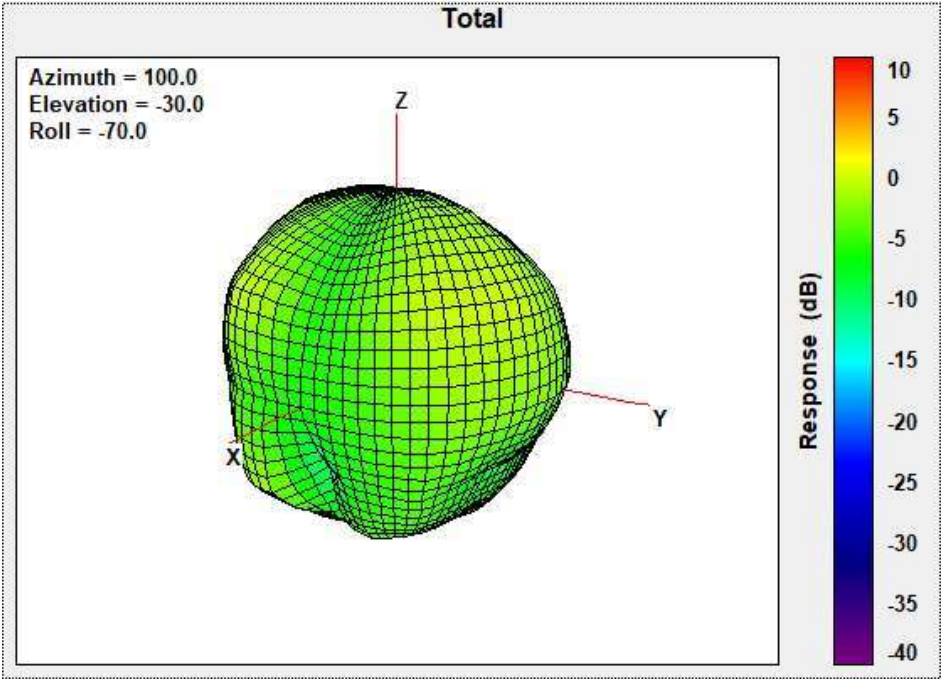
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|-------------------------------|---------|
| Center Frequency              | 2400MHz |
| Peak Gain W/ Cable loss (dBi) | 1.95    |

2483.5MHz



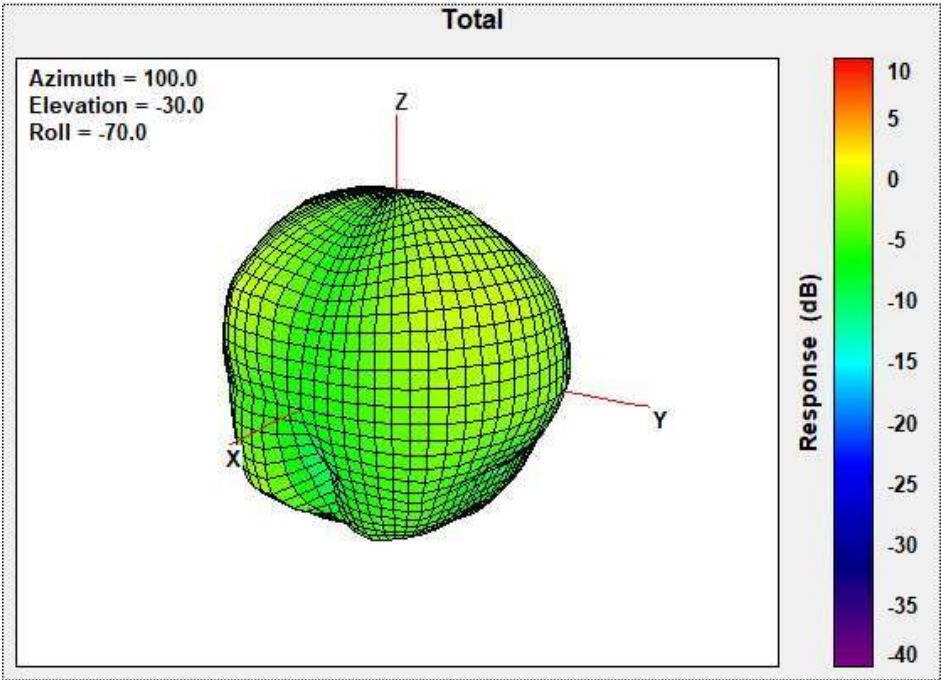
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|-------------------------------|-----------|
| Center Frequency              | 2483.5MHz |
| Peak Gain W/ Cable loss (dBi) | 0.33      |

2489.25MHz



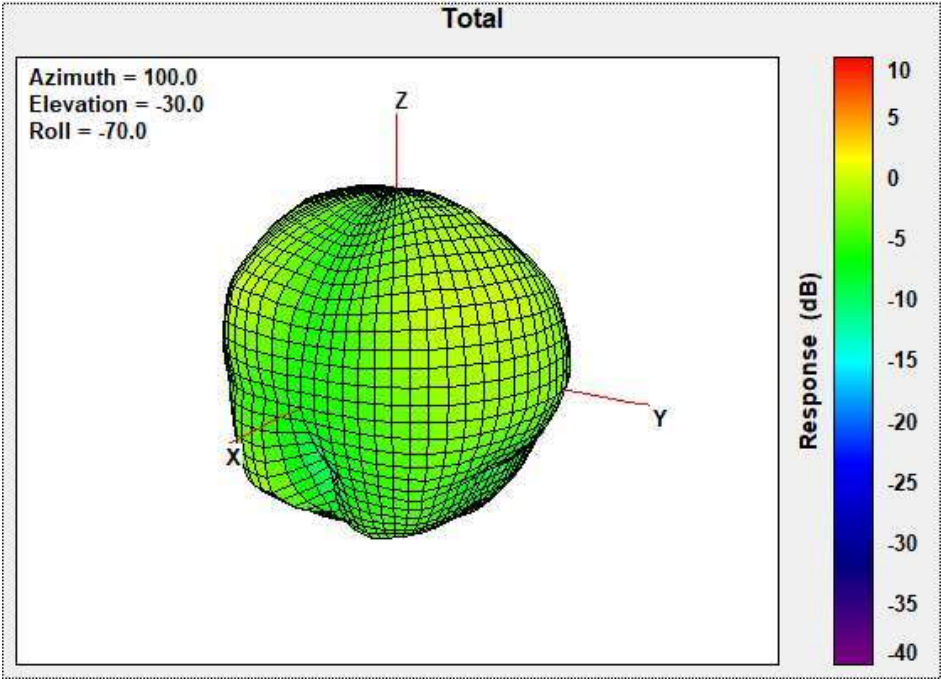
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|-------------------------------|------------|
| Center Frequency              | 2489.25MHz |
| Peak Gain W/ Cable loss (dBi) | 0.35       |

2495MHz



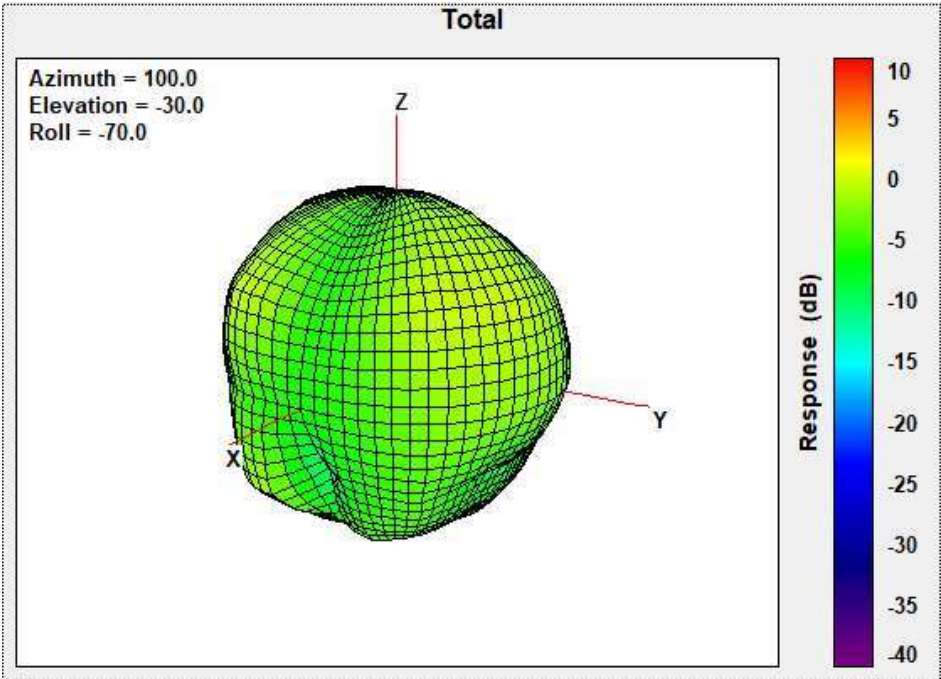
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|-------------------------------|---------|
| Center Frequency              | 2495MHz |
| Peak Gain W/ Cable loss (dBi) | 0.38    |

2496MHz



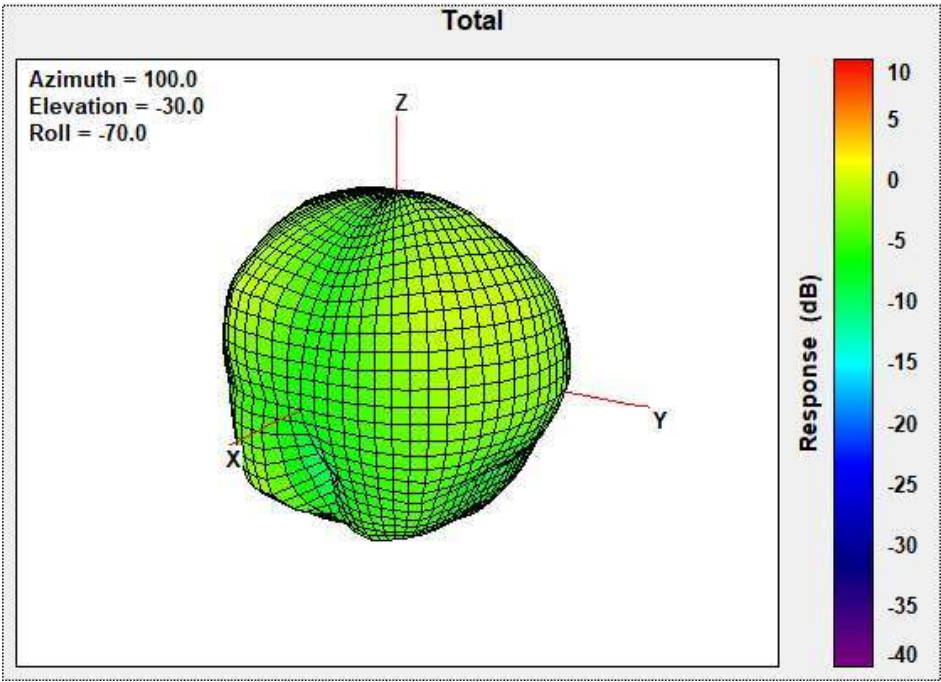
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2496MHz |
| Peak Gain W/ Cable loss (dBi) | 0.38    |

2500MHz



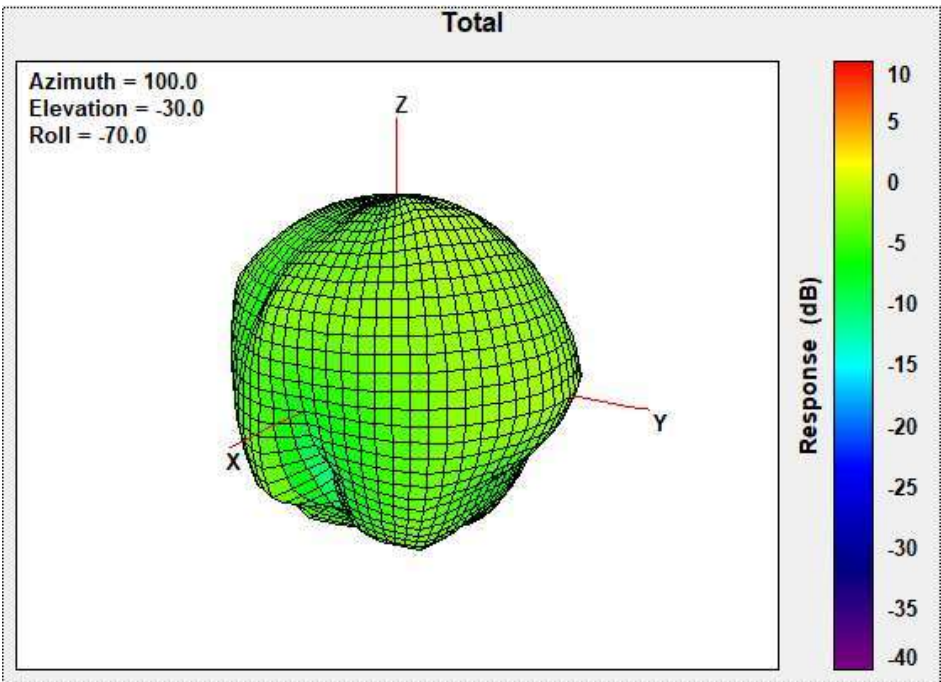
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2500MHz |
| Peak Gain W/ Cable loss (dBi) | 0.41    |

2535MHz



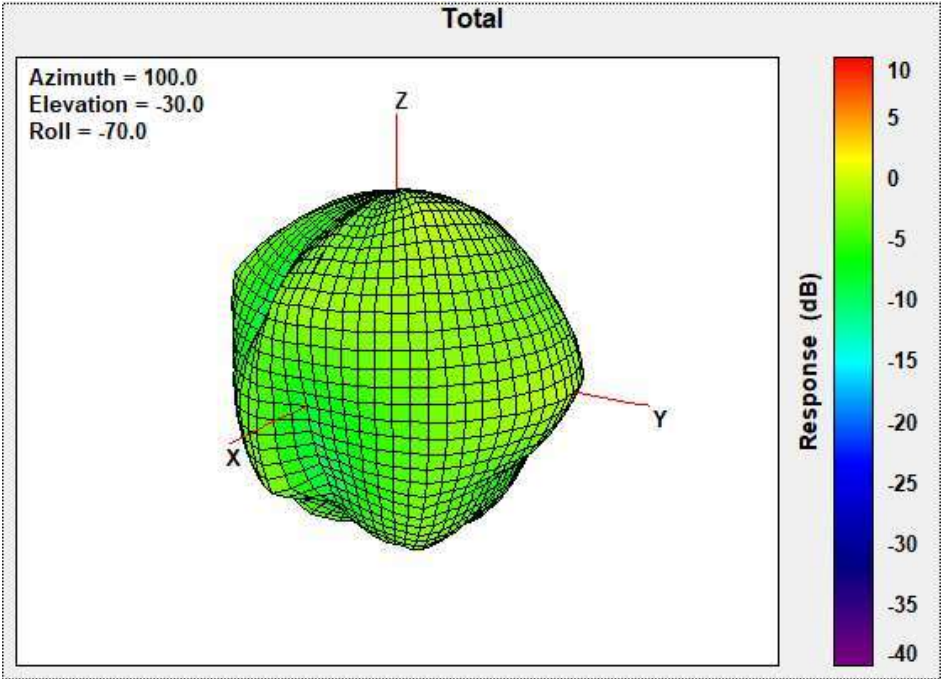
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2535MHz |
| Peak Gain W/ Cable loss (dBi) | -0.62   |

2570MHz



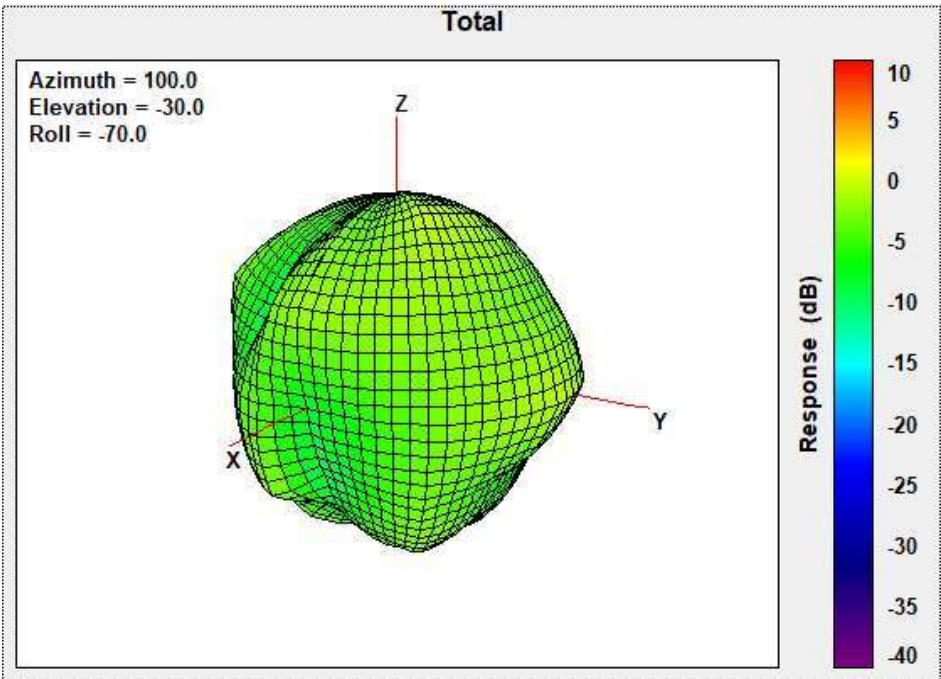
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2570MHz |
| Peak Gain W/ Cable loss (dBi) | -1.07   |

2593MHz



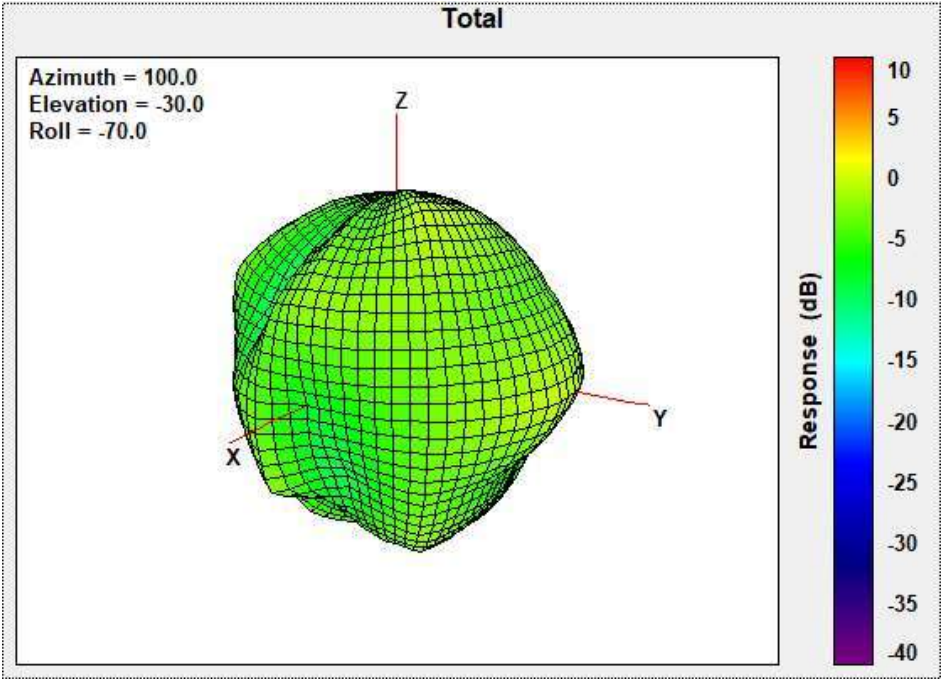
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2593MHz |
| Peak Gain W/ Cable loss (dBi) | -0.73   |

2595MHz



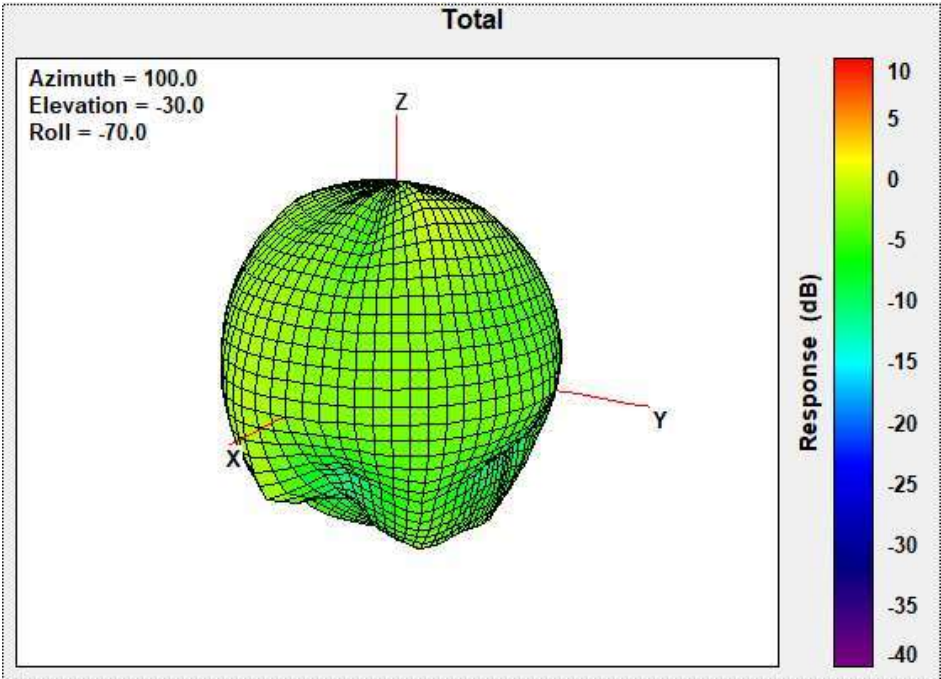
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|-------------------------------|---------|
| Center Frequency              | 2595MHz |
| Peak Gain W/ Cable loss (dBi) | -0.75   |

2620MHz



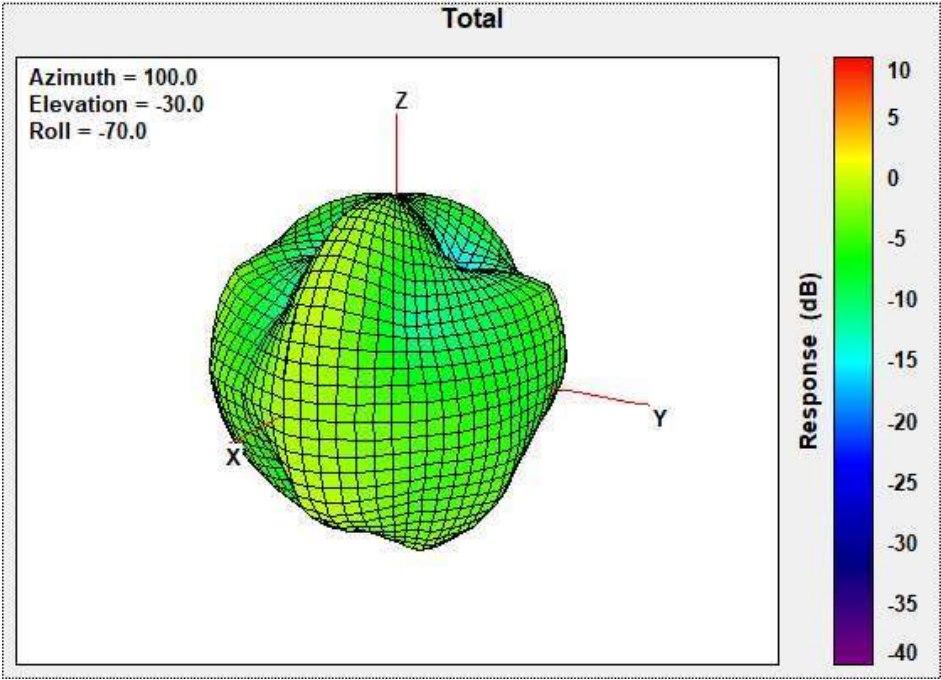
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2620MHz |
| Peak Gain W/ Cable loss (dBi) | -1.10   |

2690MHz



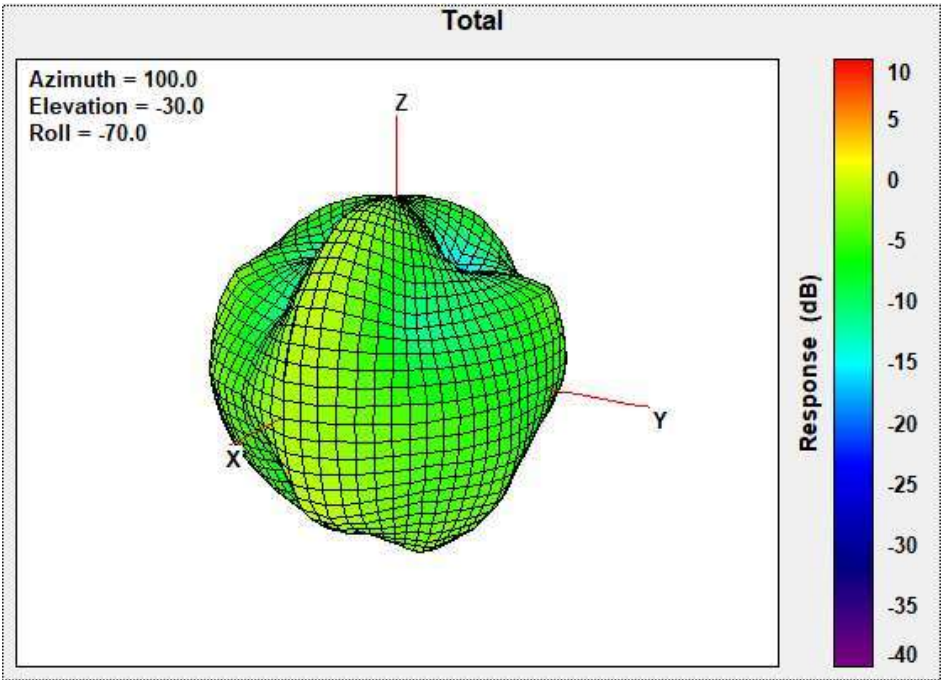
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2690MHz |
| Peak Gain W/ Cable loss (dBi) | -0.68   |

3300MHz



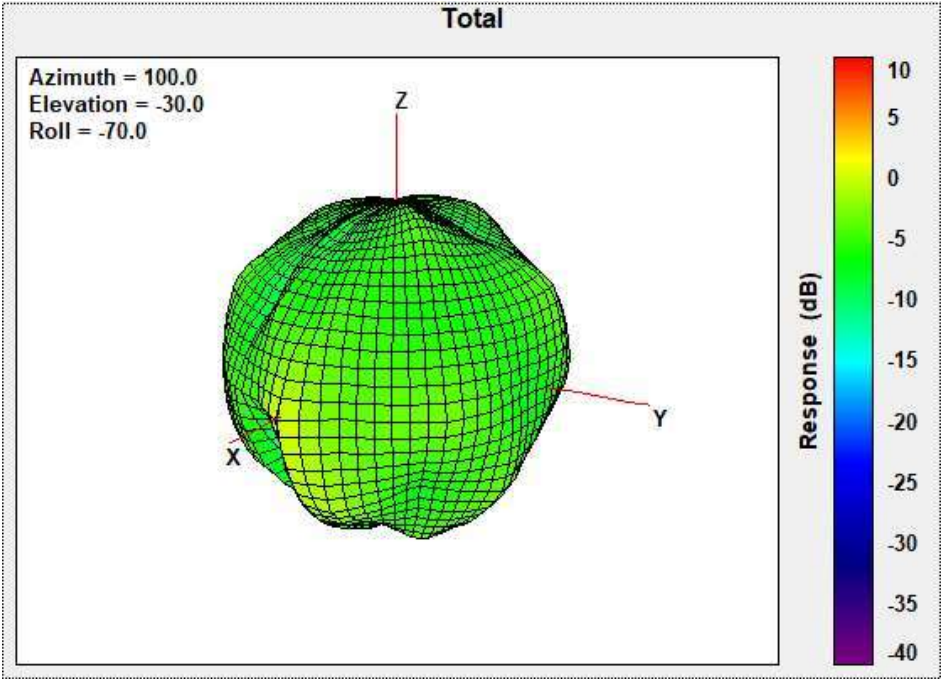
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3300MHz |
| Peak Gain W/ Cable loss (dBi) | 0.10    |

3400MHz



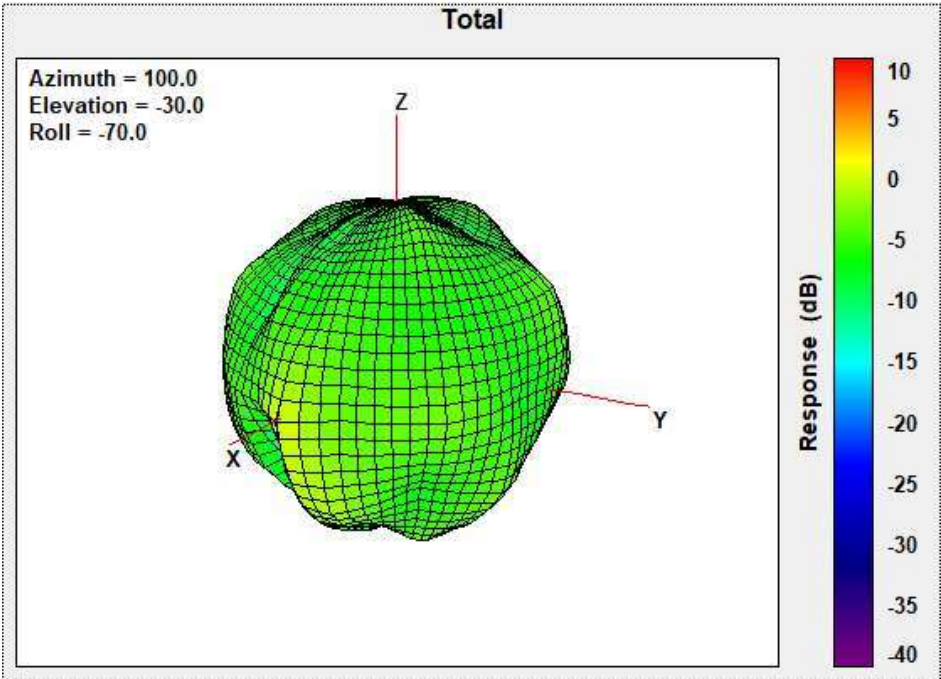
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3400MHz |
| Peak Gain W/ Cable loss (dBi) | 0.19    |

3500MHz



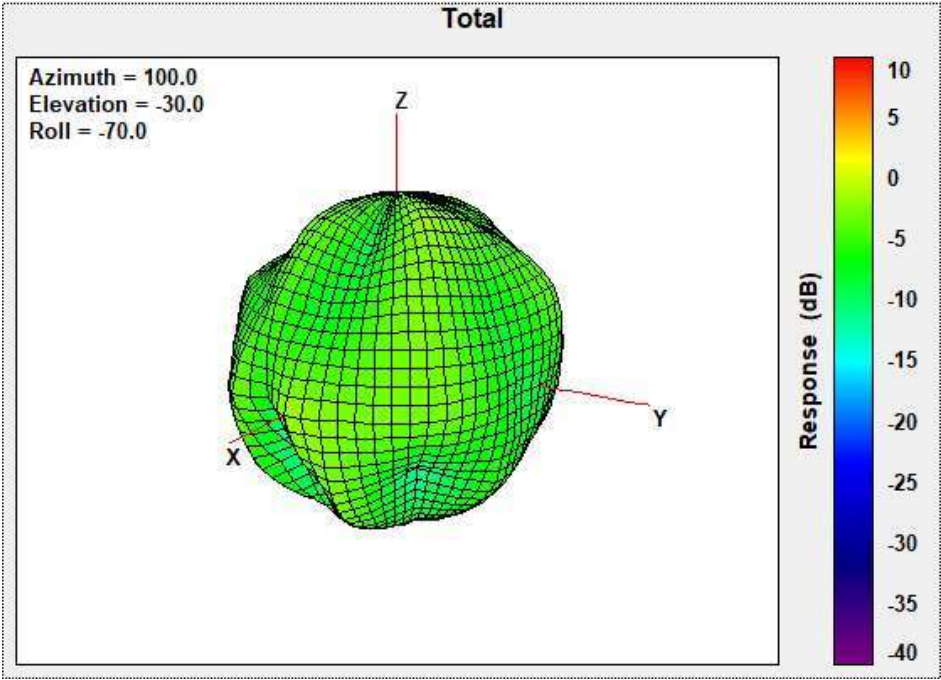
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3500MHz |
| Peak Gain W/ Cable loss (dBi) | -2.59   |

3550MHz



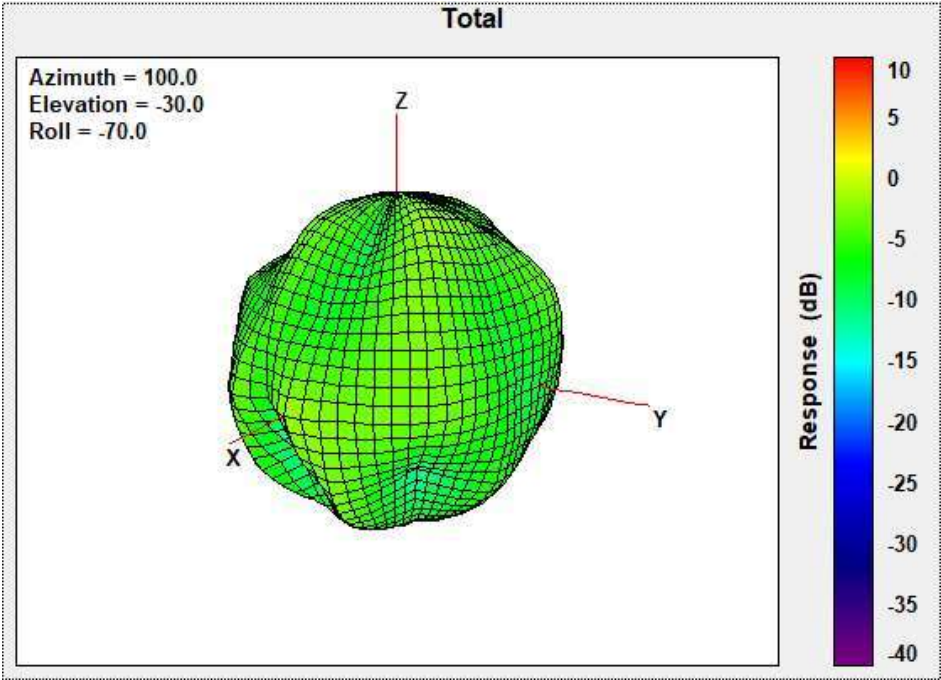
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|-------------------------------|---------|
| Center Frequency              | 3550MHz |
| Peak Gain W/ Cable loss (dBi) | -1.48   |

3600MHz



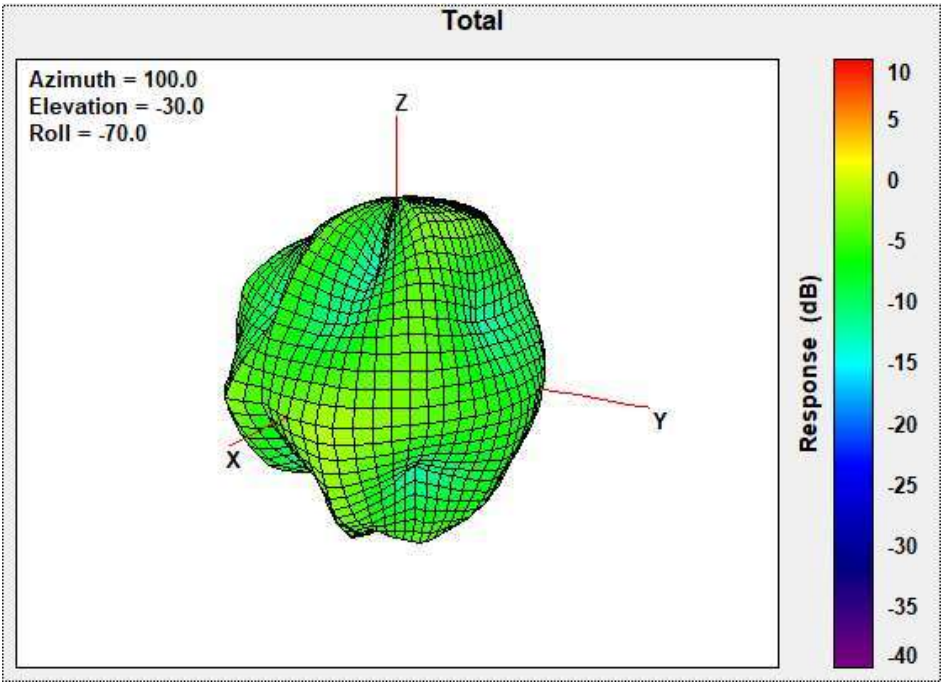
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3600MHz |
| Peak Gain W/ Cable loss (dBi) | -0.50   |

3625MHz



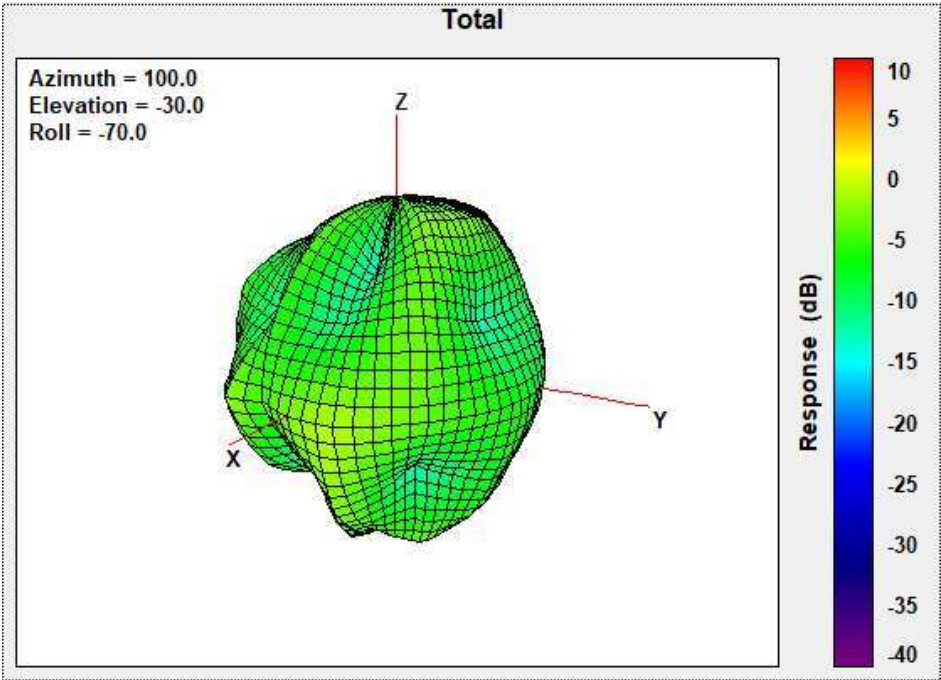
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3625MHz |
| Peak Gain W/ Cable loss (dBi) | -0.36   |

3700MHz



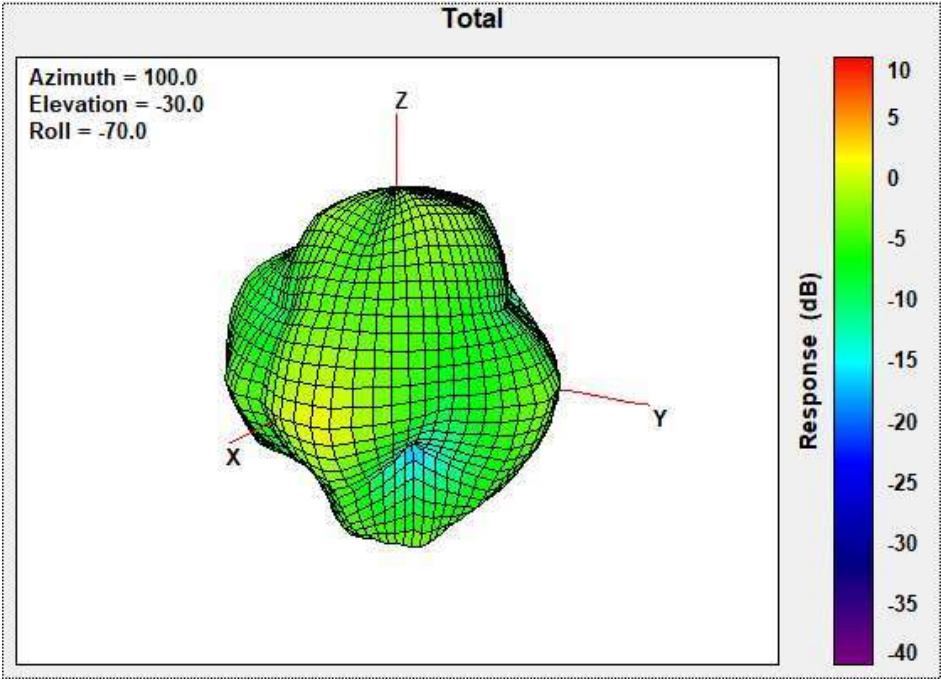
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3700MHz |
| Peak Gain W/ Cable loss (dBi) | -0.02   |

3750MHz



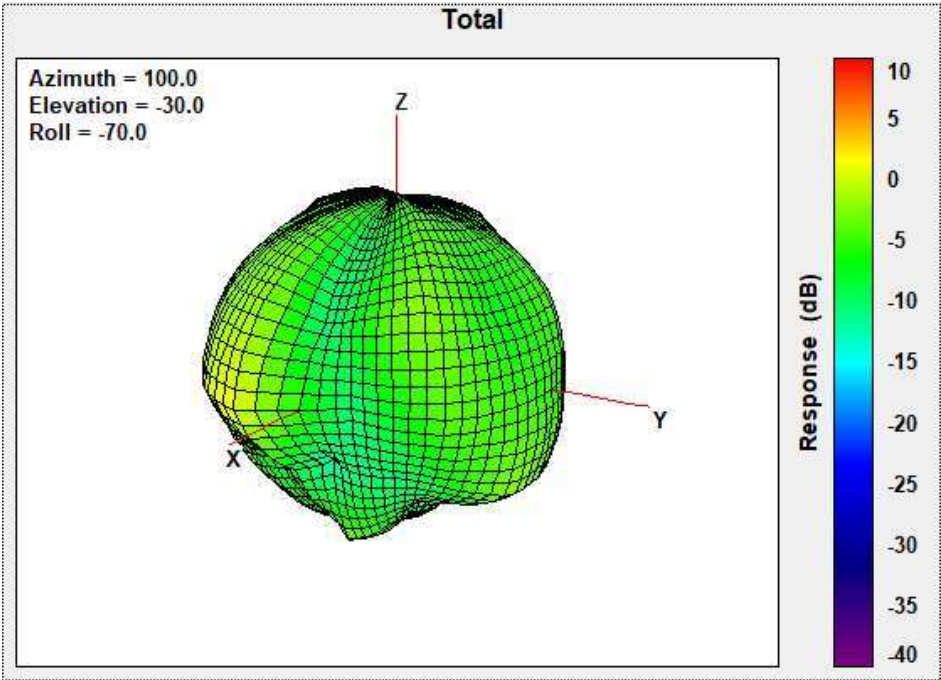
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3750MHz |
| Peak Gain W/ Cable loss (dBi) | 0.36    |

3800MHz



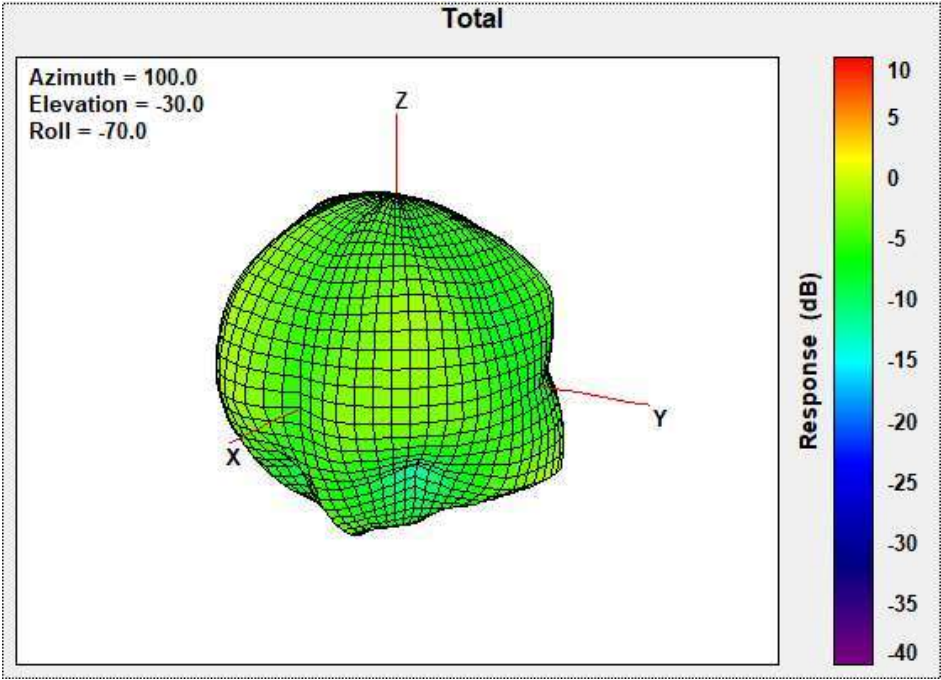
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3800MHz |
| Peak Gain W/ Cable loss (dBi) | 0.63    |

4200MHz



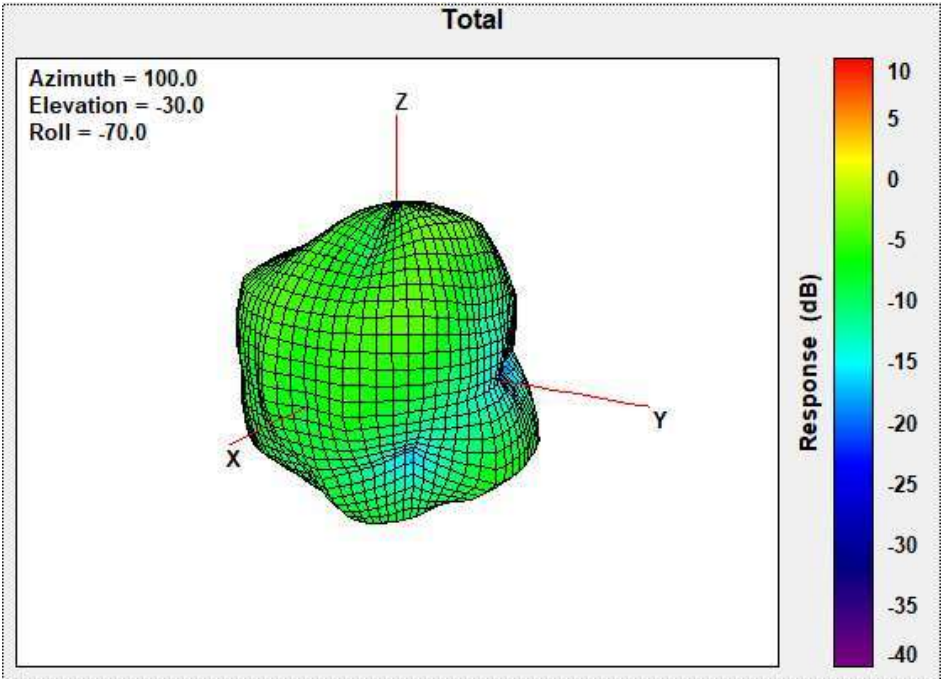
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4200MHz |
| Peak Gain W/ Cable loss (dBi) | -0.02   |

4400MHz



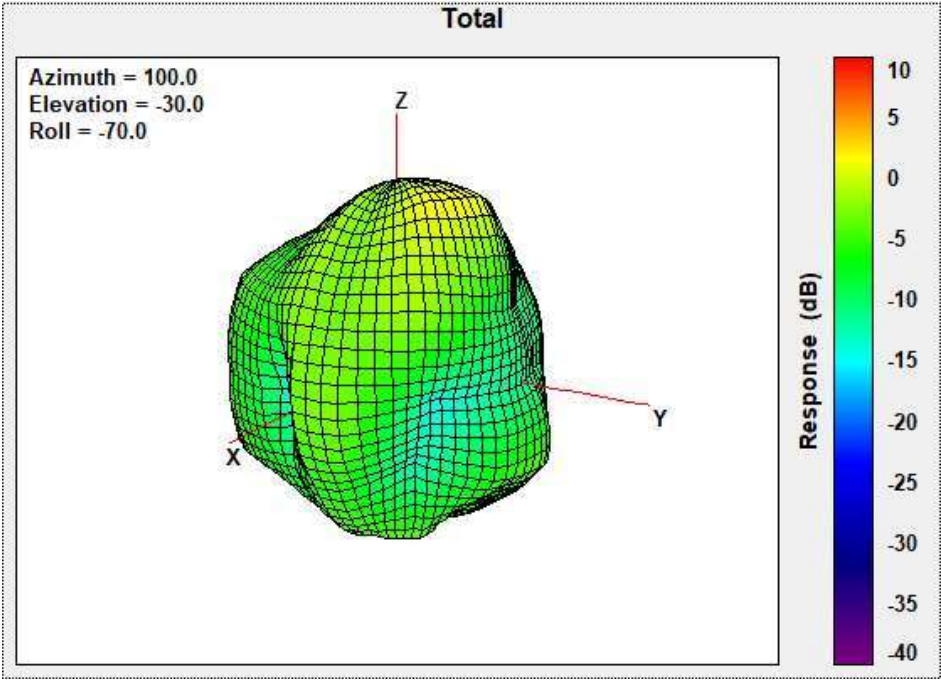
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4400MHz |
| Peak Gain W/ Cable loss (dBi) | 0.56    |

4700MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4700MHz |
| Peak Gain W/ Cable loss (dBi) | -1.28   |

5000MHz

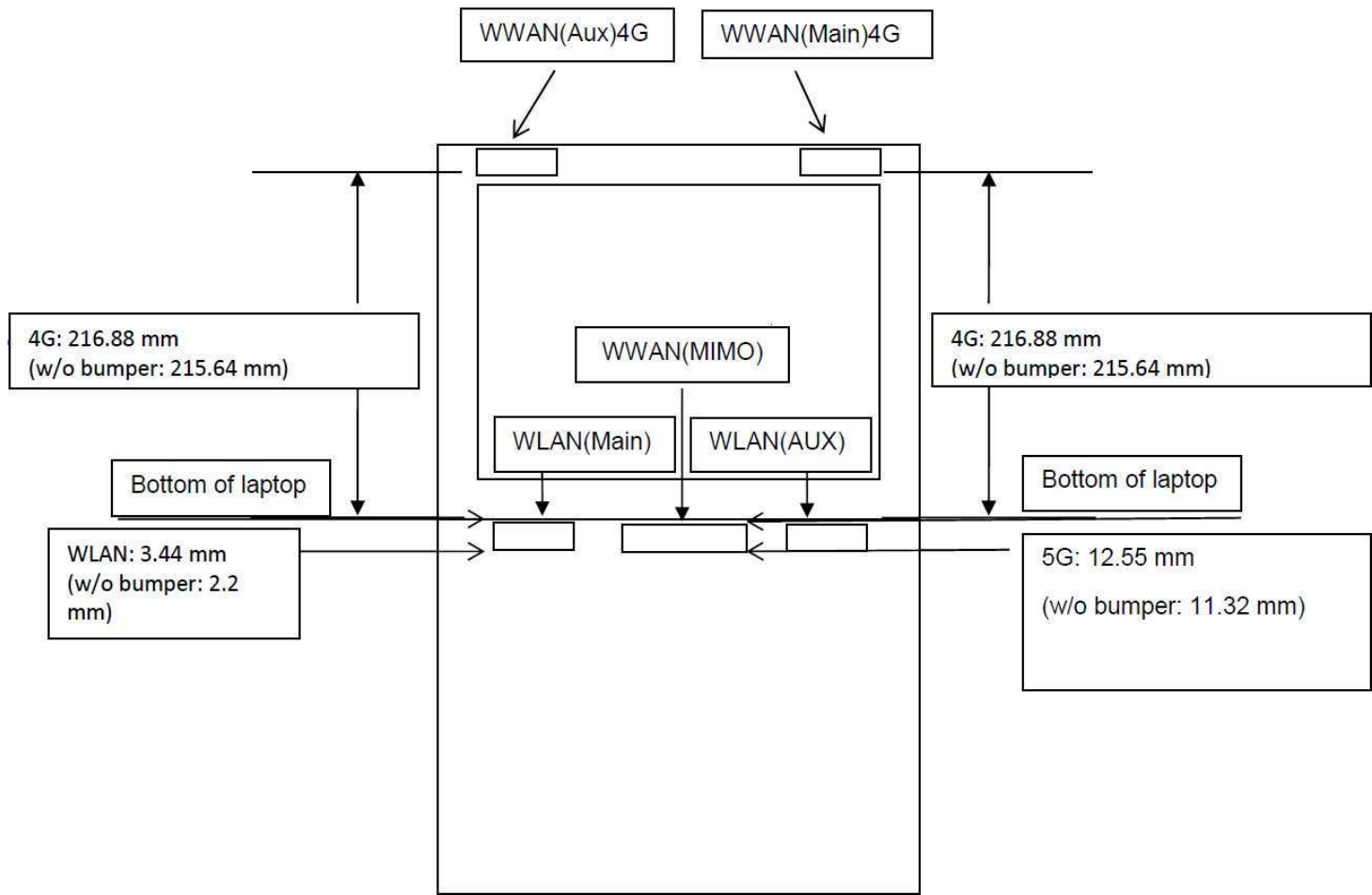


|                               |         |
|-------------------------------|---------|
| Center Frequency              | 5000MHz |
| Peak Gain W/ Cable loss (dBi) | 1.19    |

Section 4. Antenna Host Platform Location Information

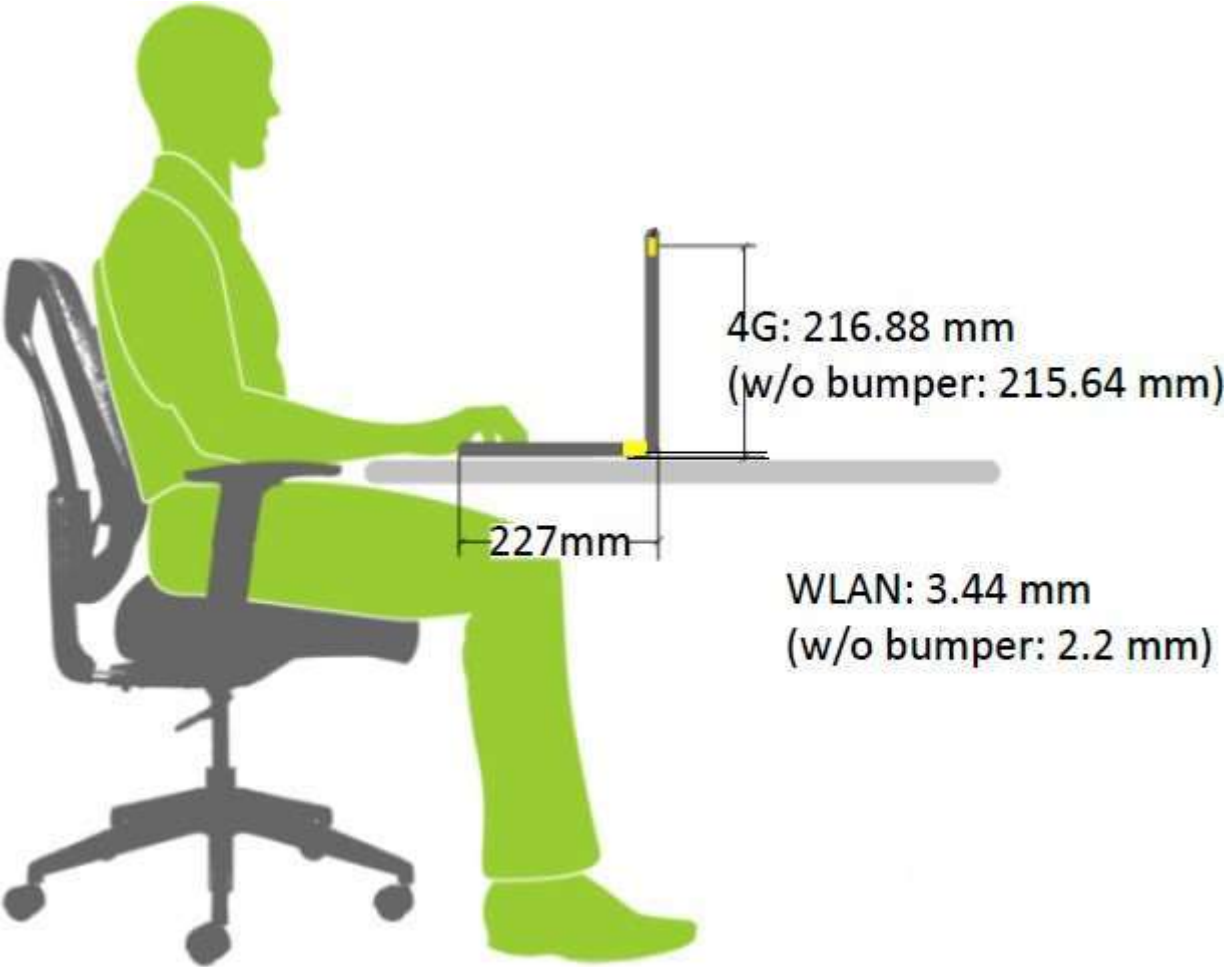
Include a **dimensioned photo(s) or dimensioned drawing(s)** of Main and Aux antennaplacements (measurements are not required for receive-only antenna). Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.

<NB mode>



**Section 5. Antenna dimensional information for SAR evaluation**

Include a **dimensioned photo(s) or dimensioned drawing(s)** showing the distance (mm) between the transmit antennas and the user. For notebook/laptop hosts show lapheld position (example below). For tablet hosts show all orientations including lapheld, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.



## Section 6. Diagram Example of Co-Location Antenna Separation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between all WLAN transmit antennas and other co-located radiator transmit antenna such as Bluetooth, WWAN, ..

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)

