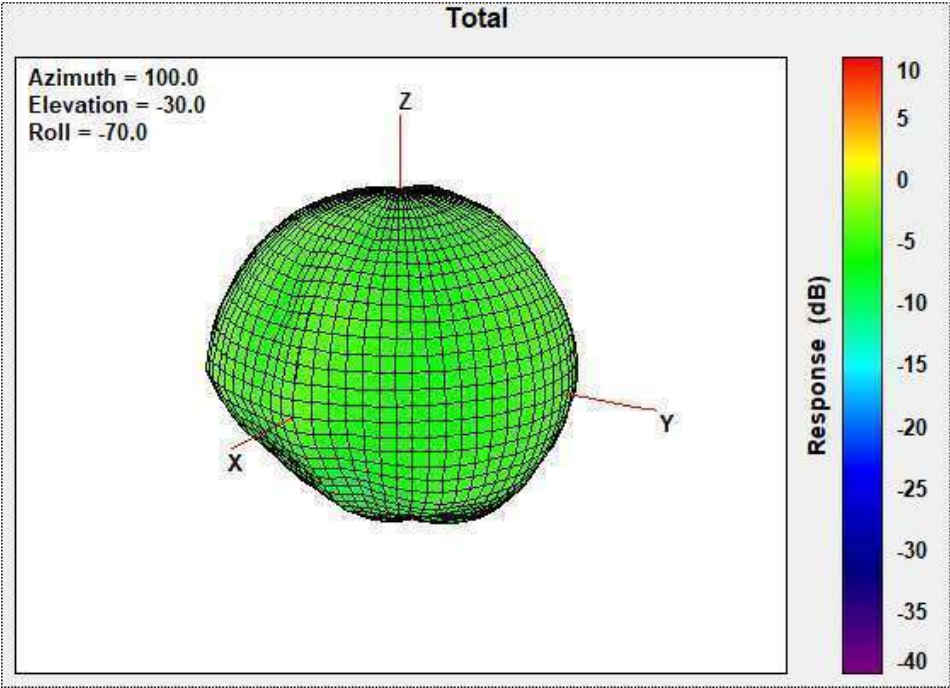
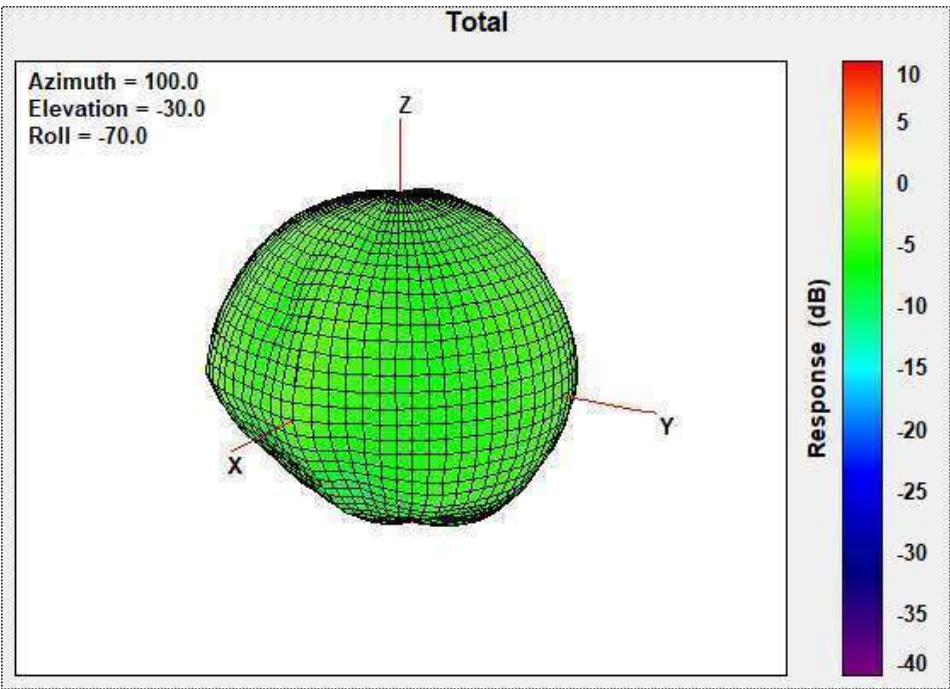


2310MHz



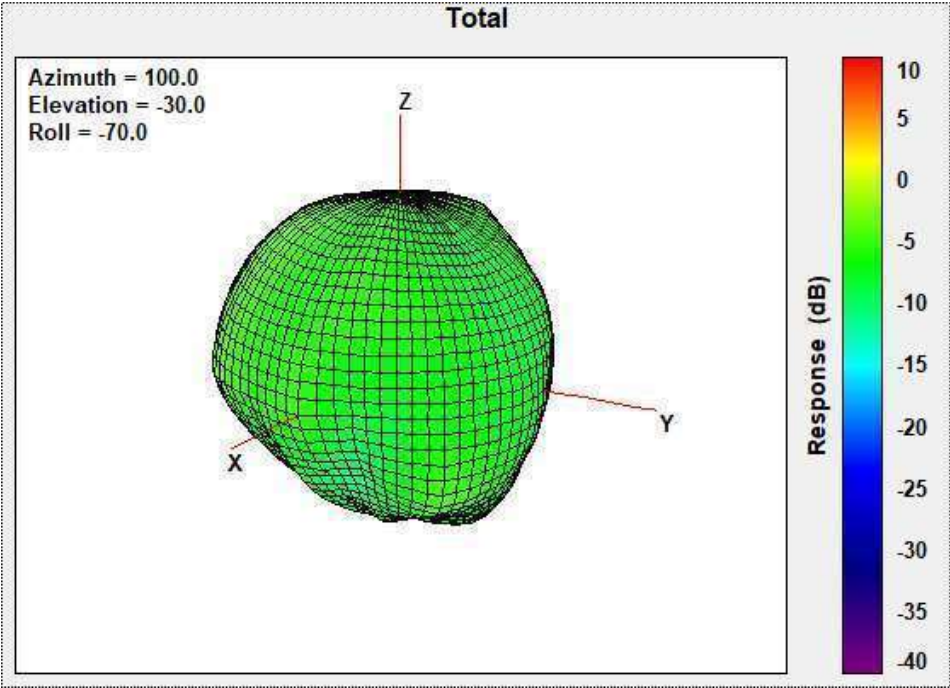
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2310MHz |
| Peak Gain W/ Cable loss (dBi) | 0.33    |

2315MHz



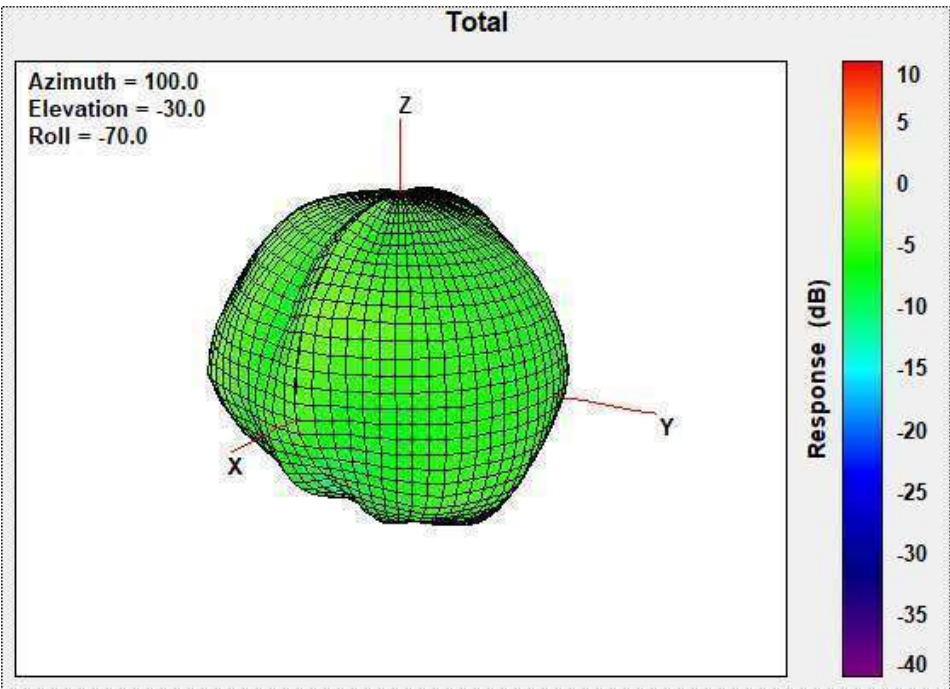
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|-------------------------------|---------|
| Center Frequency              | 2315MHz |
| Peak Gain W/ Cable loss (dBi) | 0.54    |

2350MHz



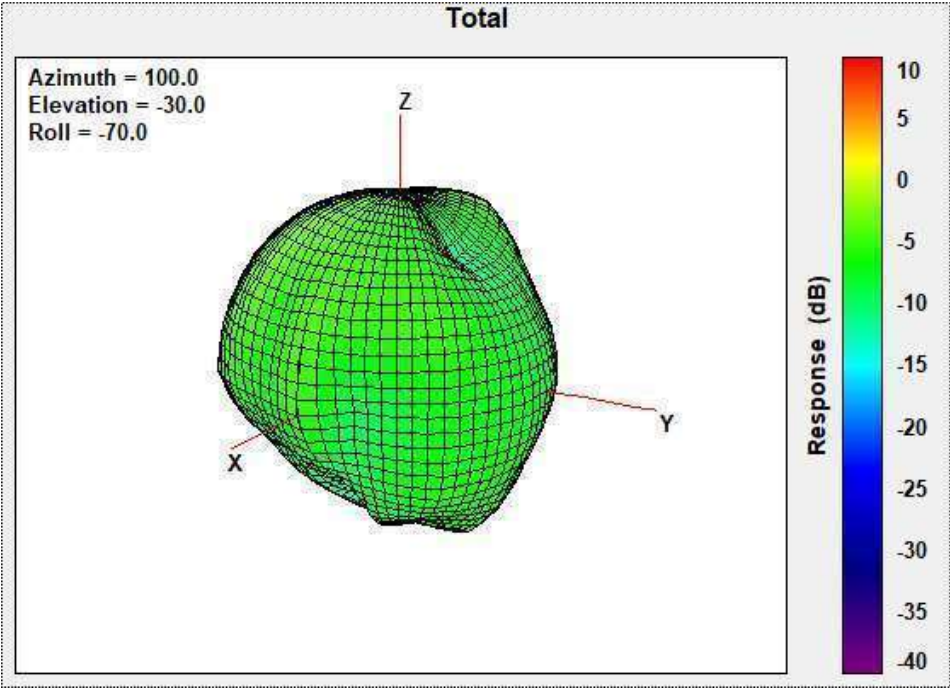
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|-------------------------------|---------|
| Center Frequency              | 2350MHz |
| Peak Gain W/ Cable loss (dBi) | 0.37    |

2400MHz



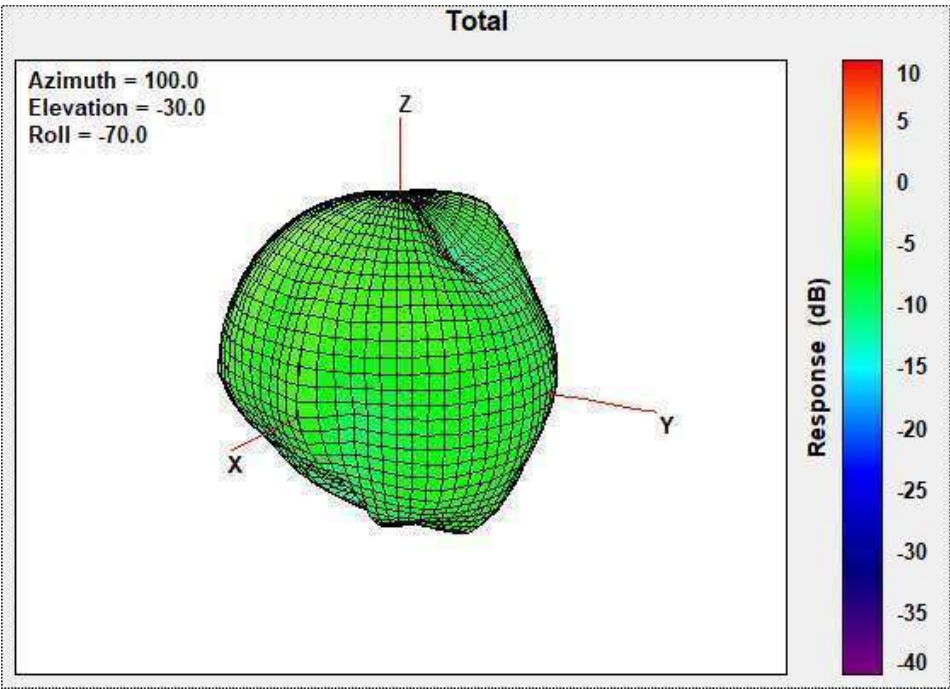
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|-------------------------------|---------|
| Center Frequency              | 2400MHz |
| Peak Gain W/ Cable loss (dBi) | 1.04    |

2483.5MHz



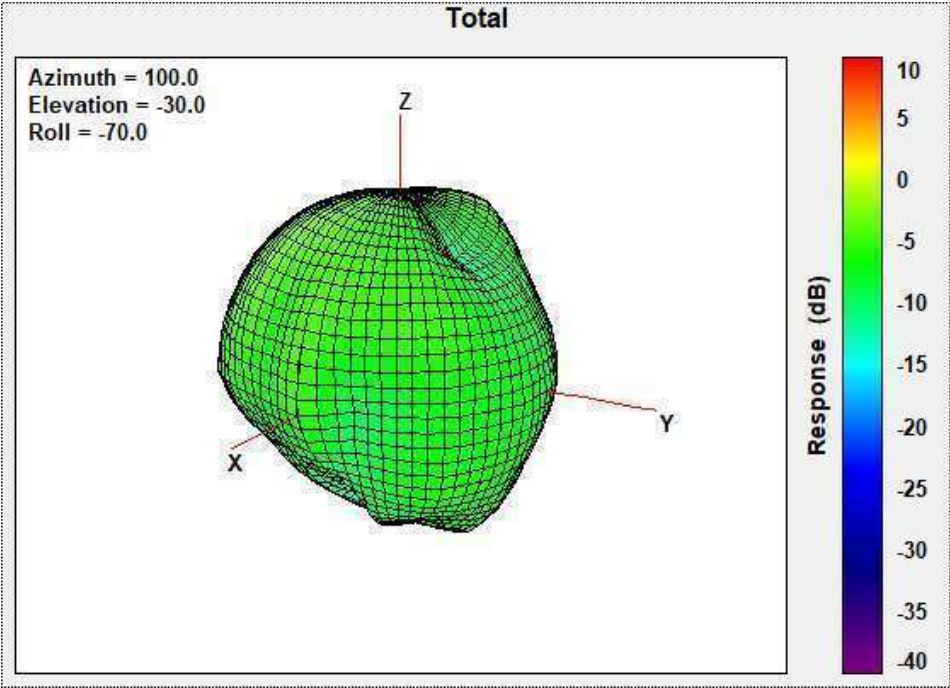
|                               |           |
|-------------------------------|-----------|
| Center Frequency              | 2483.5MHz |
| Peak Gain W/ Cable loss (dBi) | 0.10      |

2489.25MHz



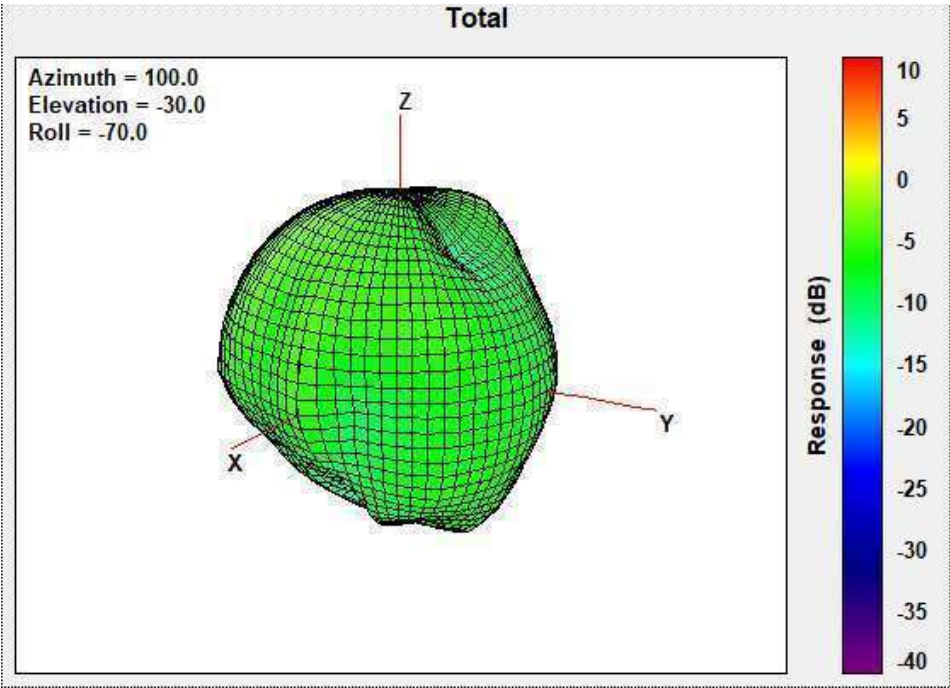
|                               |            |
|-------------------------------|------------|
| Center Frequency              | 2489.25MHz |
| Peak Gain W/ Cable loss (dBi) | 0.04       |

2495MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2495MHz |
| Peak Gain W/ Cable loss (dBi) | 0.09    |

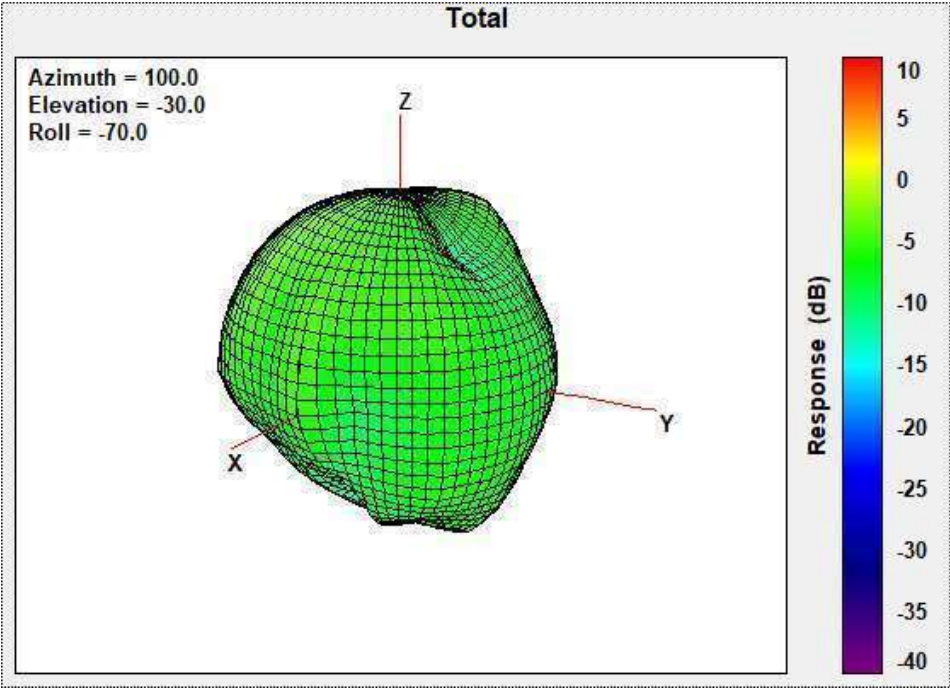
2496MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2496MHz |
| Peak Gain W/ Cable loss (dBi) | 0.10    |

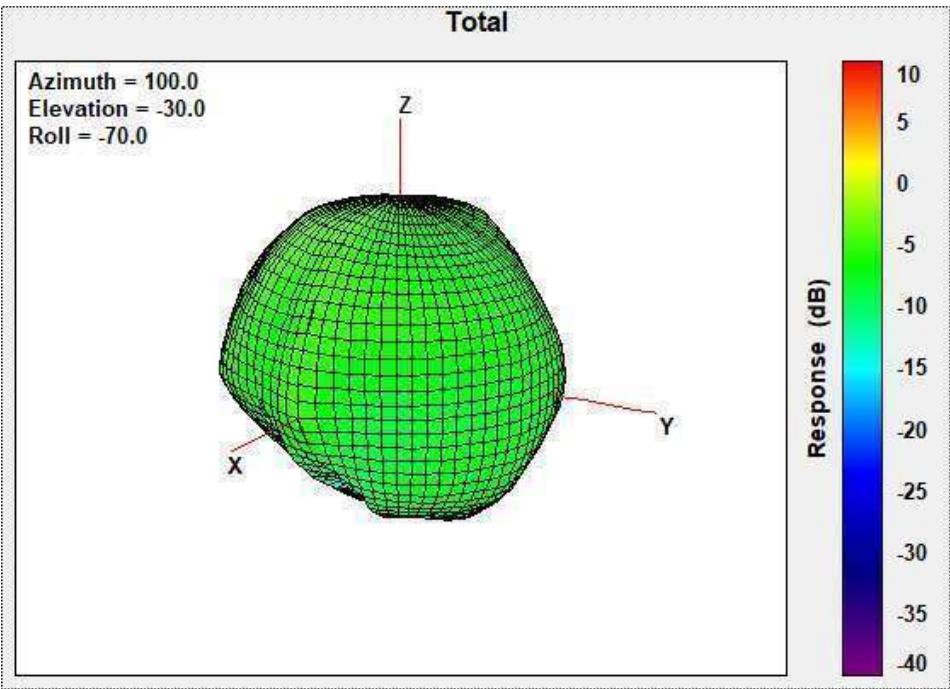


2500MHz



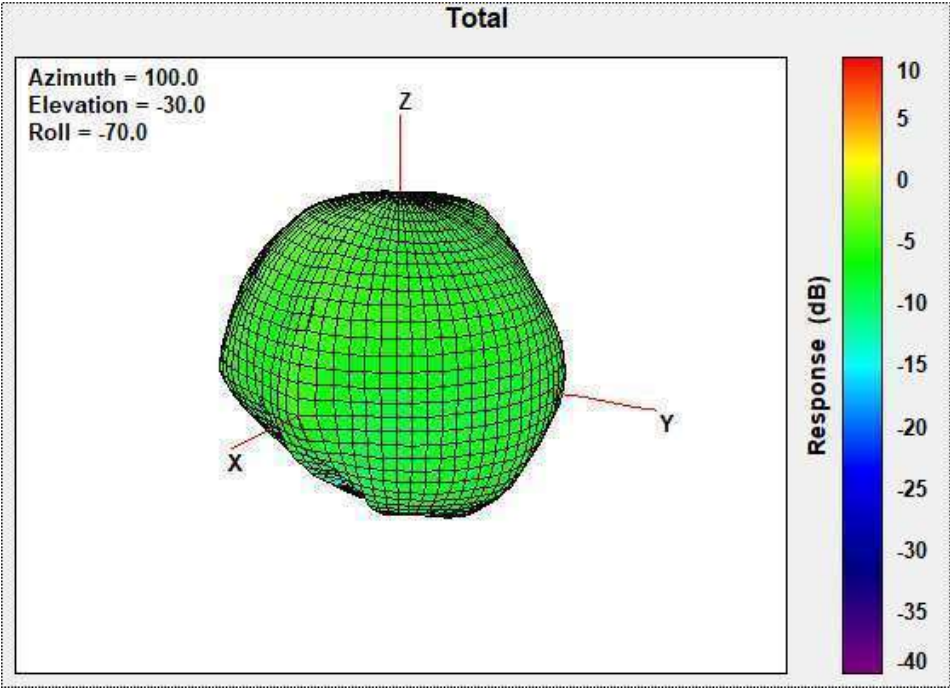
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|-------------------------------|---------|
| Center Frequency              | 2500MHz |
| Peak Gain W/ Cable loss (dBi) | 0.04    |

2535MHz



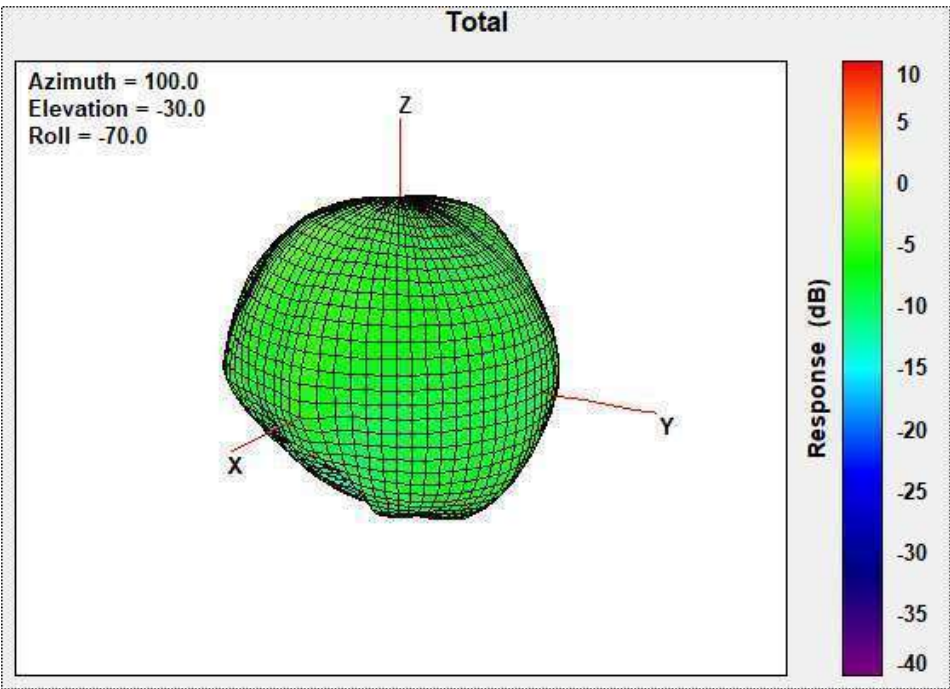
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|-------------------------------|---------|
| Center Frequency              | 2535MHz |
| Peak Gain W/ Cable loss (dBi) | -0.45   |

2570MHz



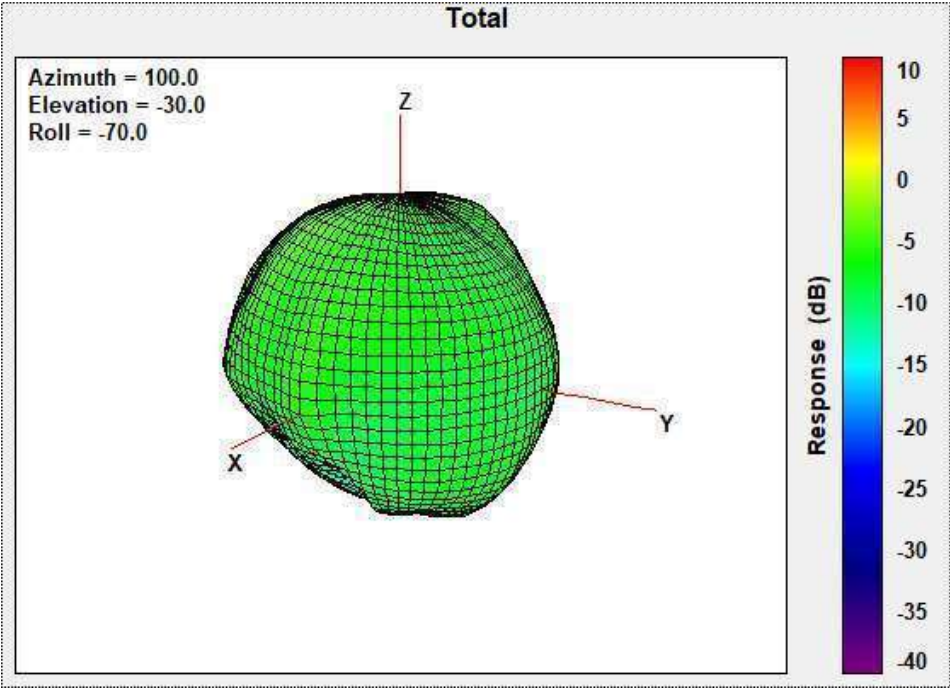
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|-------------------------------|---------|
| Center Frequency              | 2570MHz |
| Peak Gain W/ Cable loss (dBi) | -0.93   |

2593MHz



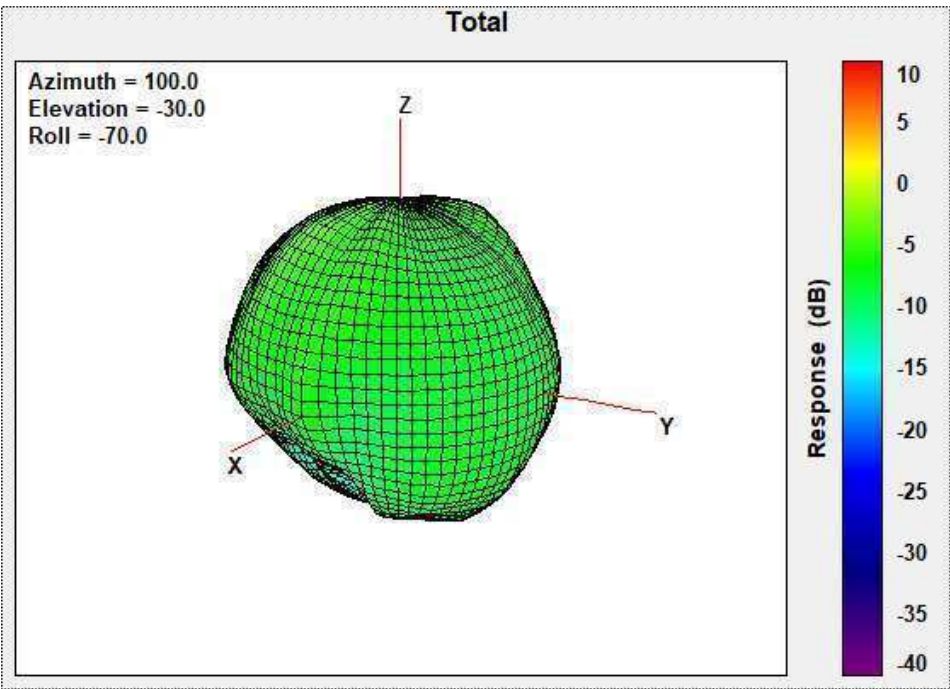
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|-------------------------------|---------|
| Center Frequency              | 2593MHz |
| Peak Gain W/ Cable loss (dBi) | -1.36   |

2595MHz



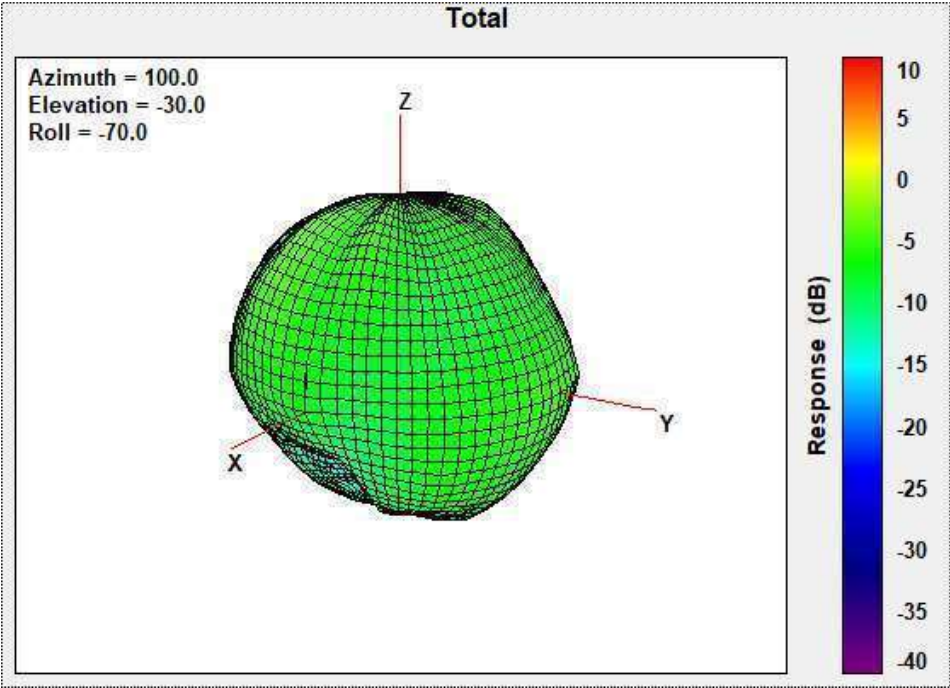
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2595MHz |
| Peak Gain W/ Cable loss (dBi) | -1.40   |

2620MHz



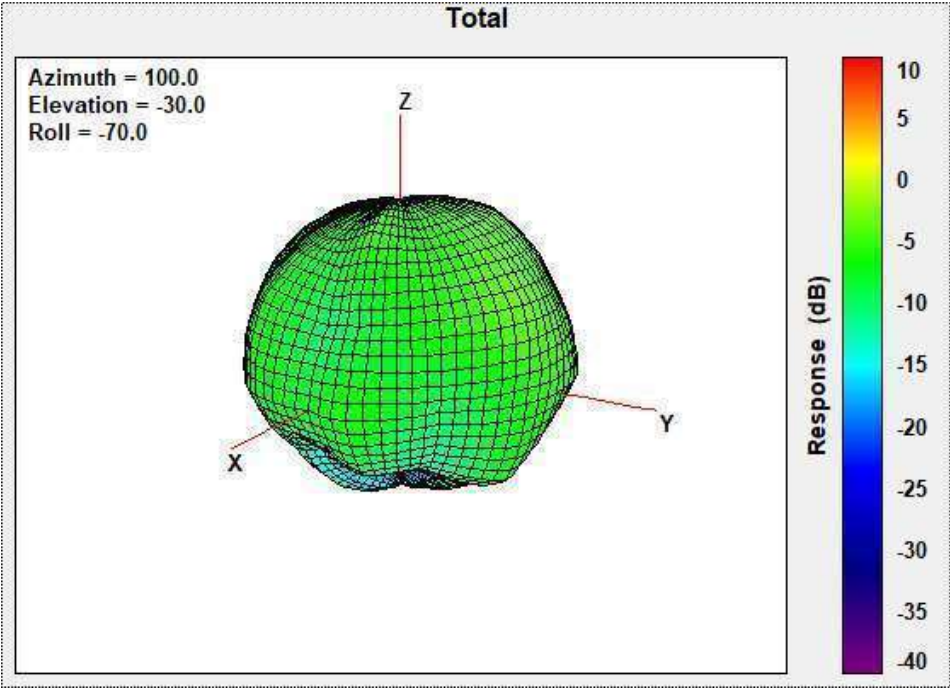
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2620MHz |
| Peak Gain W/ Cable loss (dBi) | -1.63   |

2690MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2690MHz |
| Peak Gain W/ Cable loss (dBi) | -0.45   |

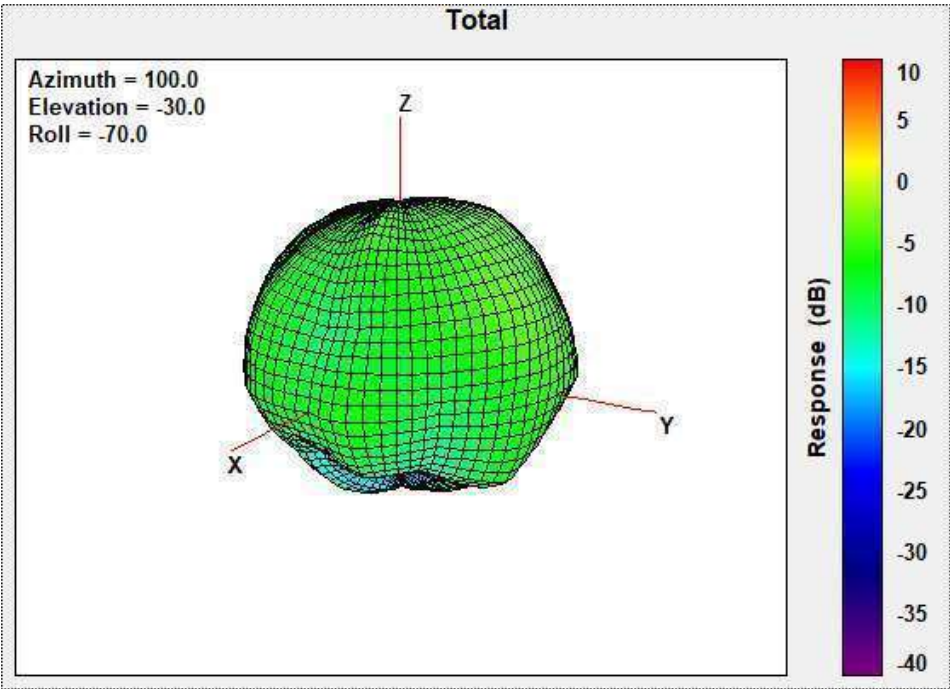
3300MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3300MHz |
| Peak Gain W/ Cable loss (dBi) | -4.55   |

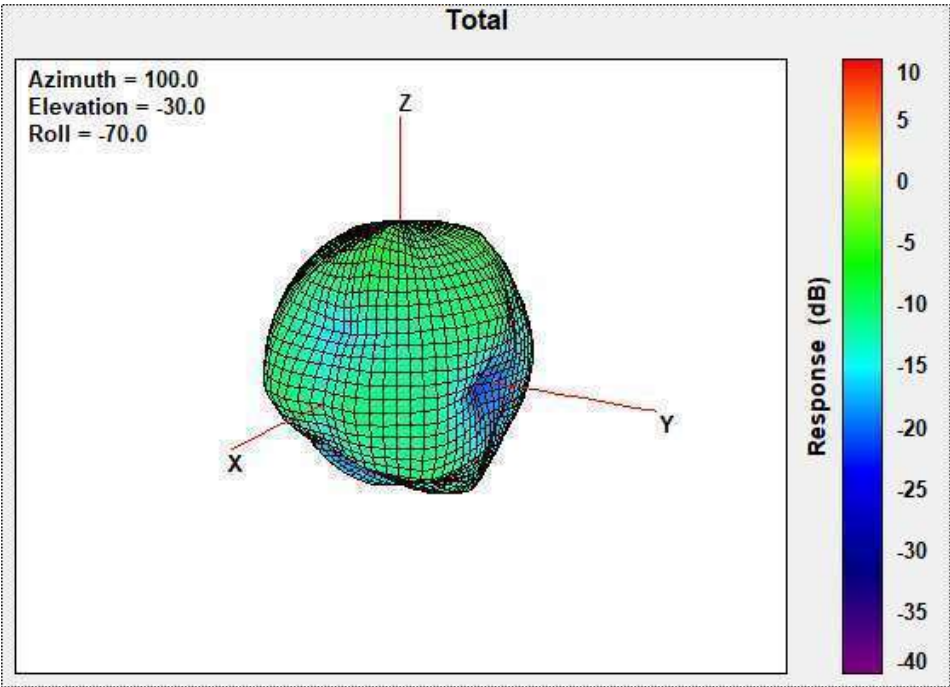


3400MHz



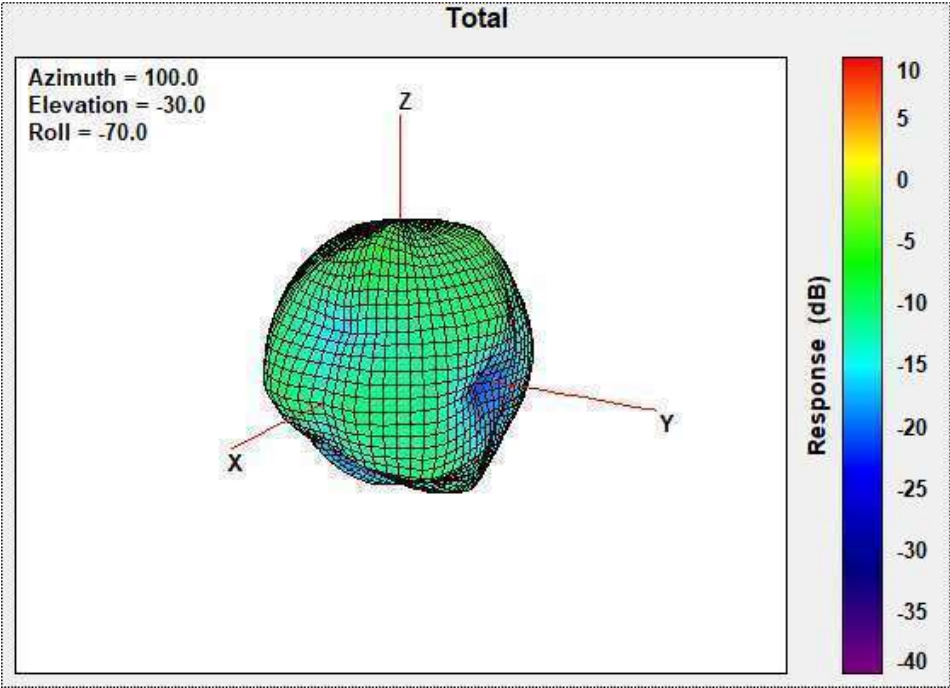
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|-------------------------------|---------|
| Center Frequency              | 3400MHz |
| Peak Gain W/ Cable loss (dBi) | -4.81   |

3500MHz



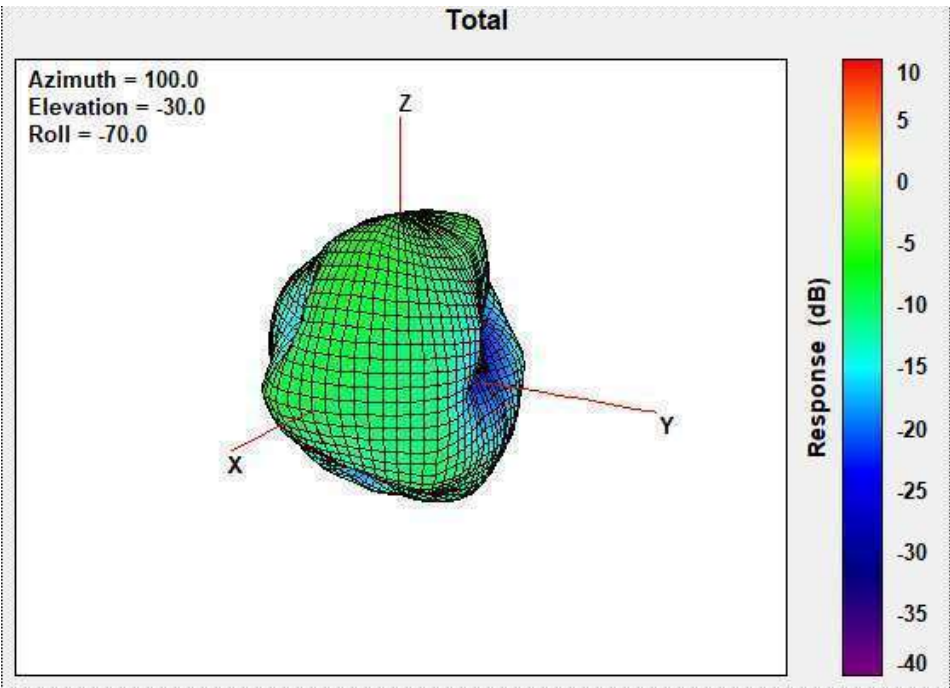
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3500MHz |
| Peak Gain W/ Cable loss (dBi) | -6.10   |

3550MHz



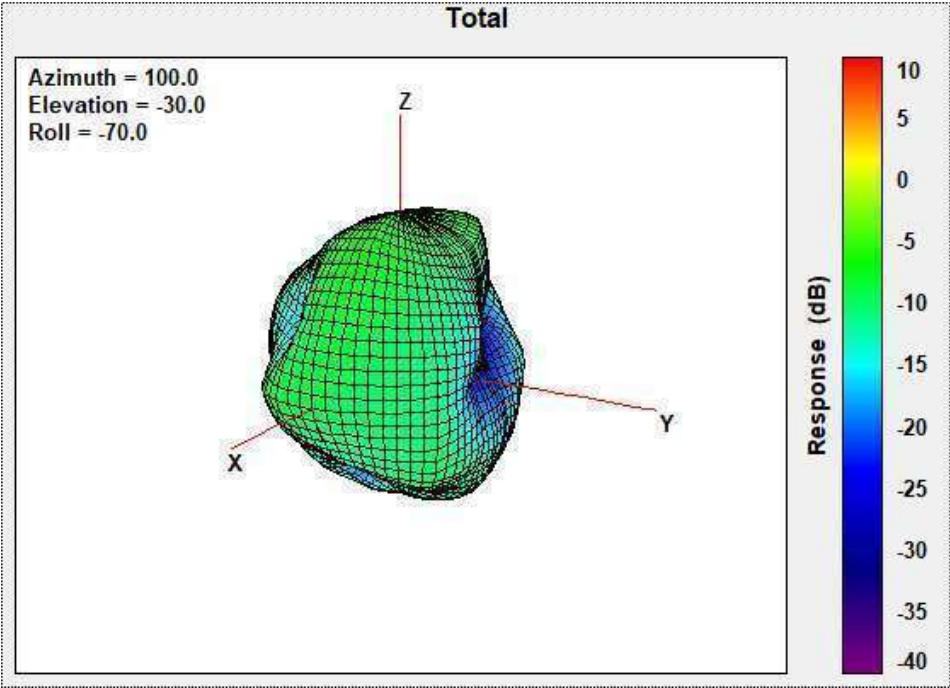
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|-------------------------------|---------|
| Center Frequency              | 3550MHz |
| Peak Gain W/ Cable loss (dBi) | -5.39   |

3600MHz



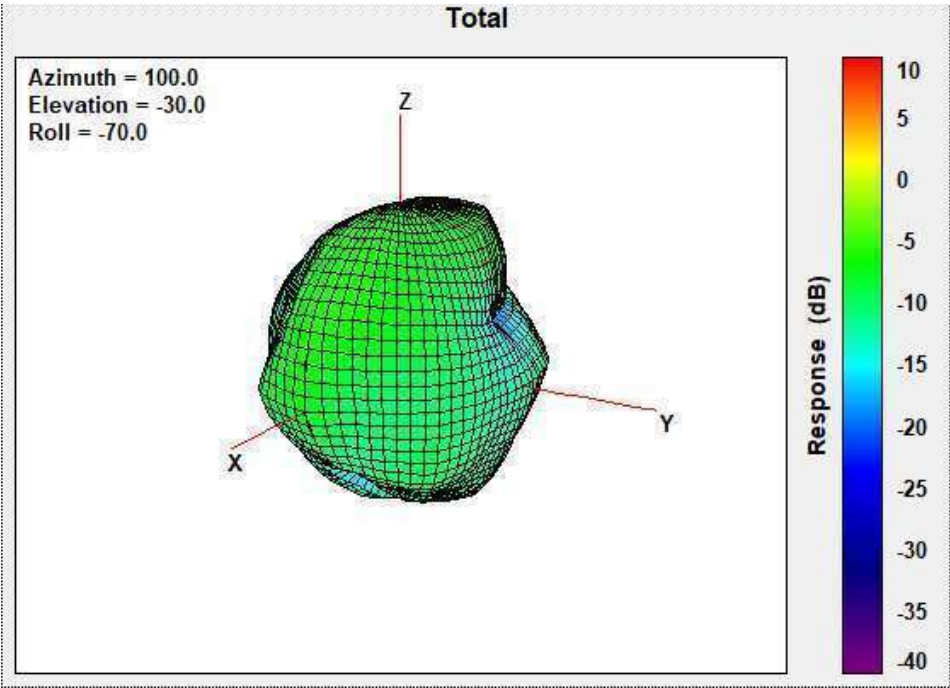
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|-------------------------------|---------|
| Center Frequency              | 3600MHz |
| Peak Gain W/ Cable loss (dBi) | -4.34   |

3625MHz



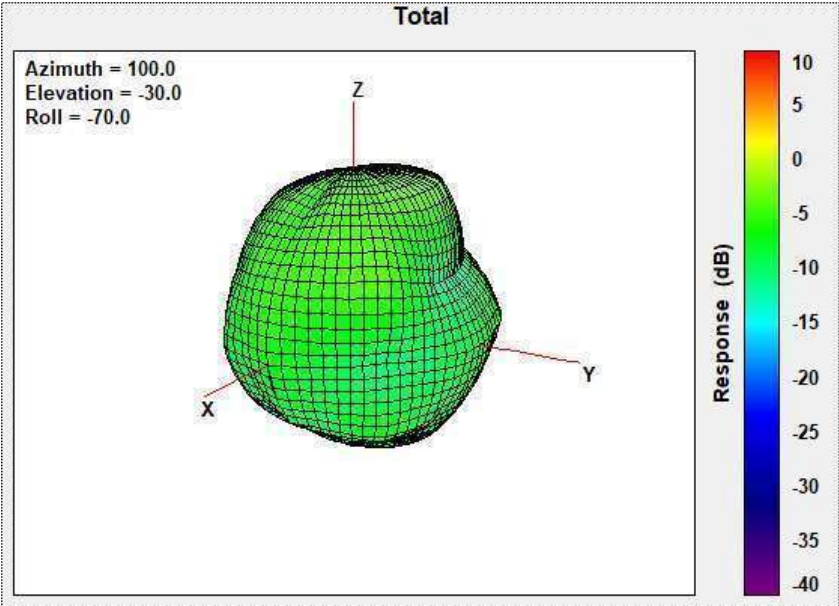
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3625MHz |
| Peak Gain W/ Cable loss (dBi) | -4.47   |

3700MHz



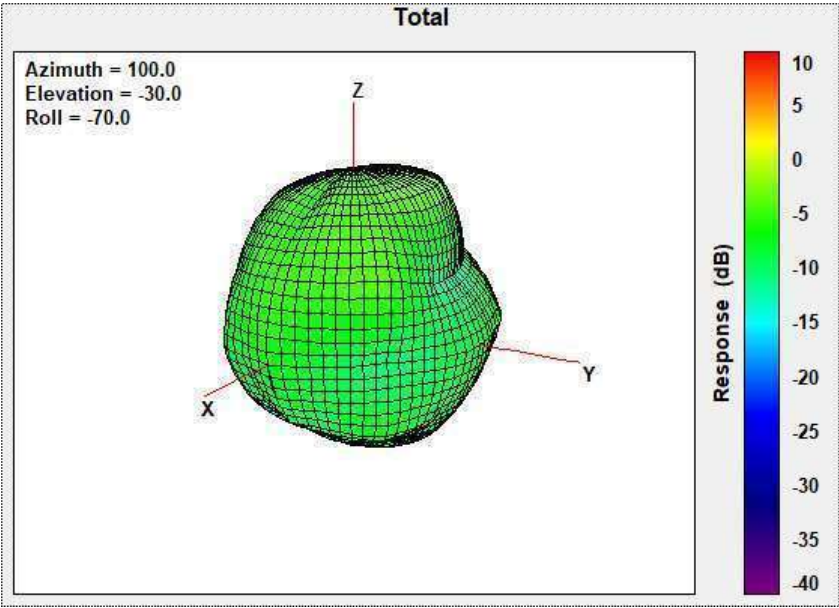
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3700MHz |
| Peak Gain W/ Cable loss (dBi) | -6.43   |

3750MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3750MHz |
| Peak Gain W/ Cable loss (dBi) | -4.96   |

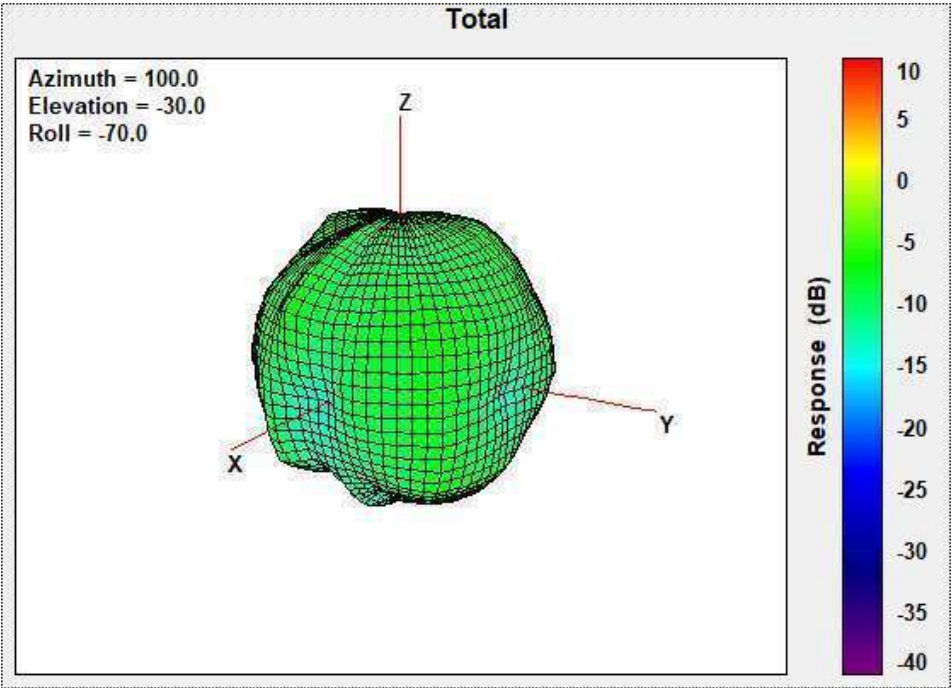
3800MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3800MHz |
| Peak Gain W/ Cable loss (dBi) | -3.44   |

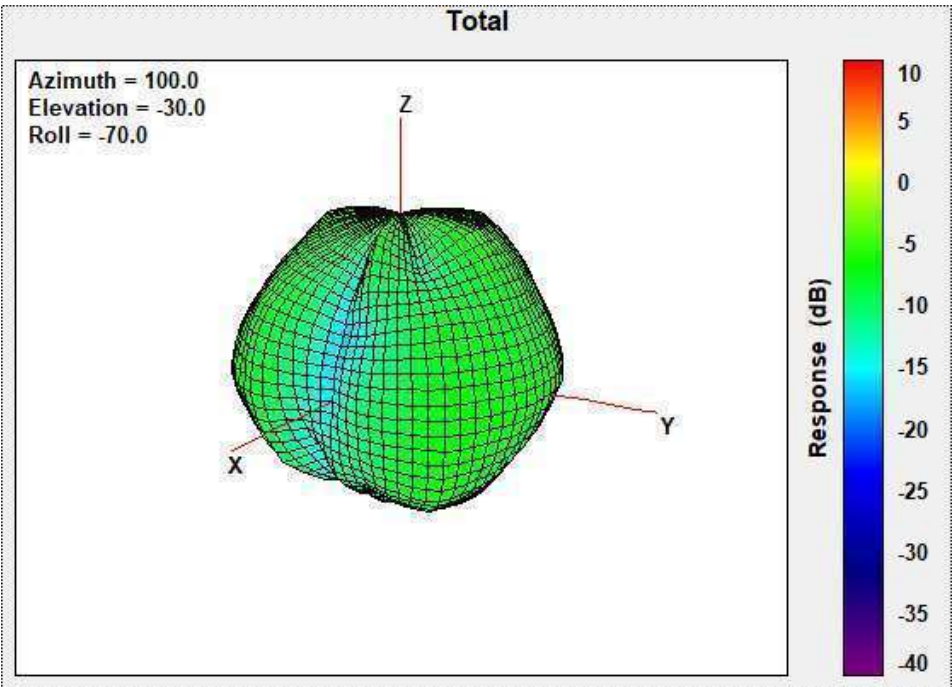


4200MHz



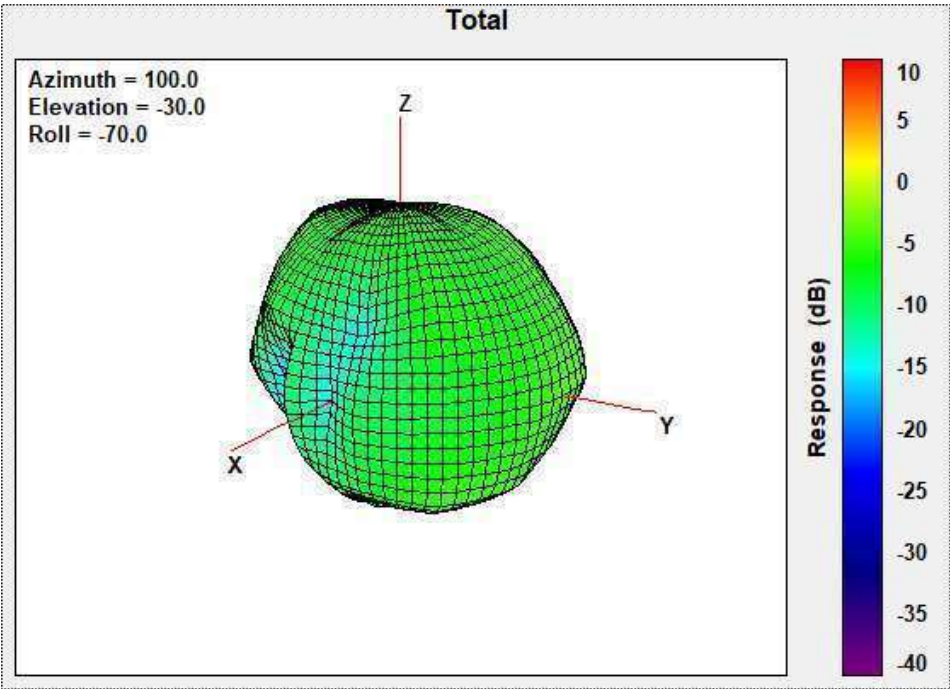
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4200MHz |
| Peak Gain W/ Cable loss (dBi) | -5.64   |

4400MHz



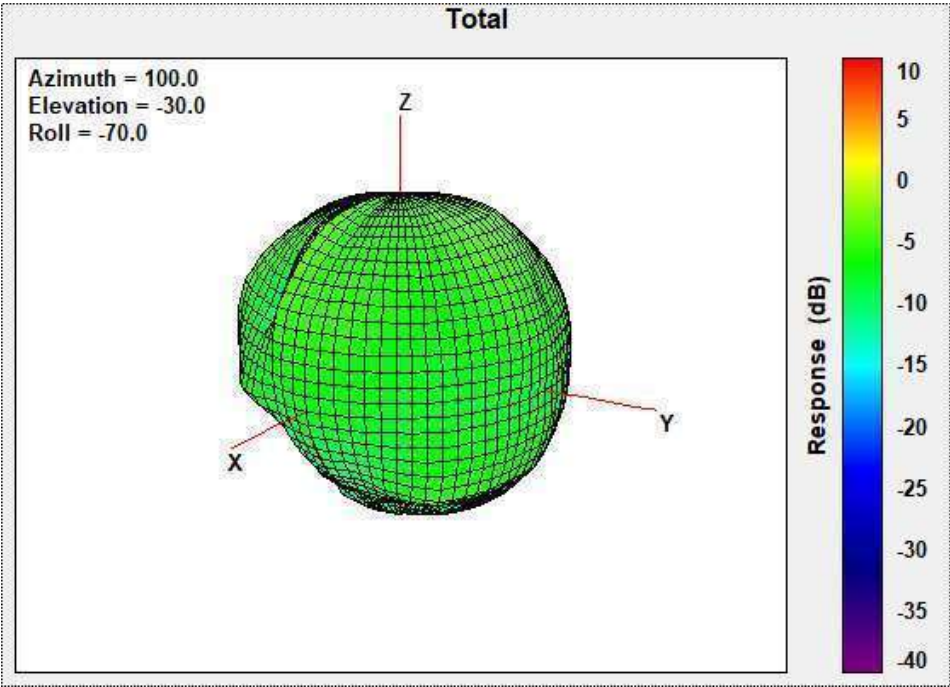
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4400MHz |
| Peak Gain W/ Cable loss (dBi) | -5.04   |

4700MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4700MHz |
| Peak Gain W/ Cable loss (dBi) | -3.70   |

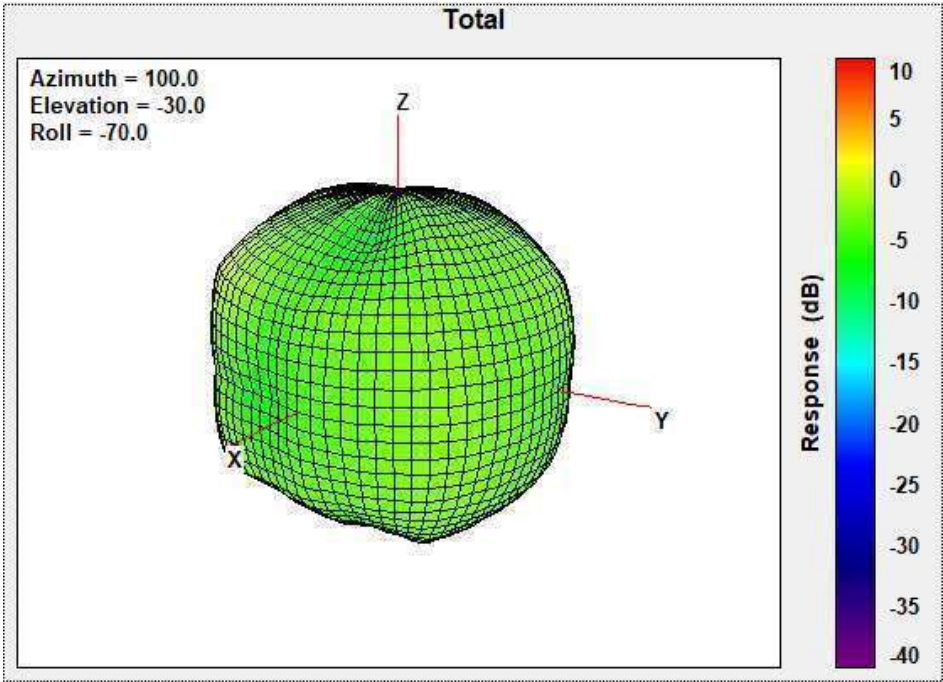
5000MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 5000MHz |
| Peak Gain W/ Cable loss (dBi) | -3.28   |

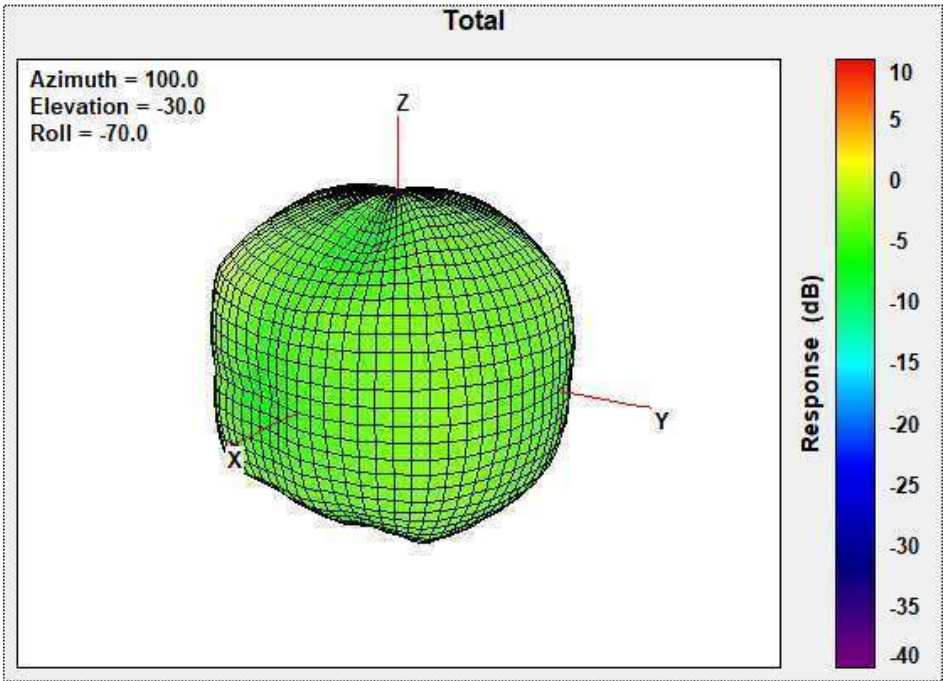
WWAN MIMO2 Antenna (Tx2)

1695 MHz



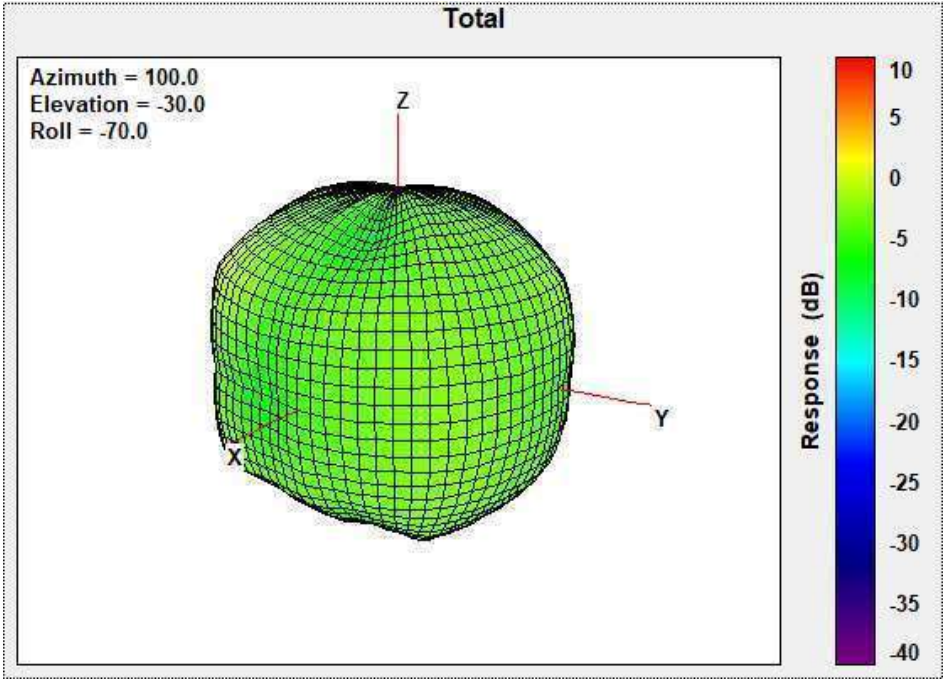
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 1695MHz |
| Peak Gain W/ Cable loss (dBi) | -0.89   |

1702.5 MHz



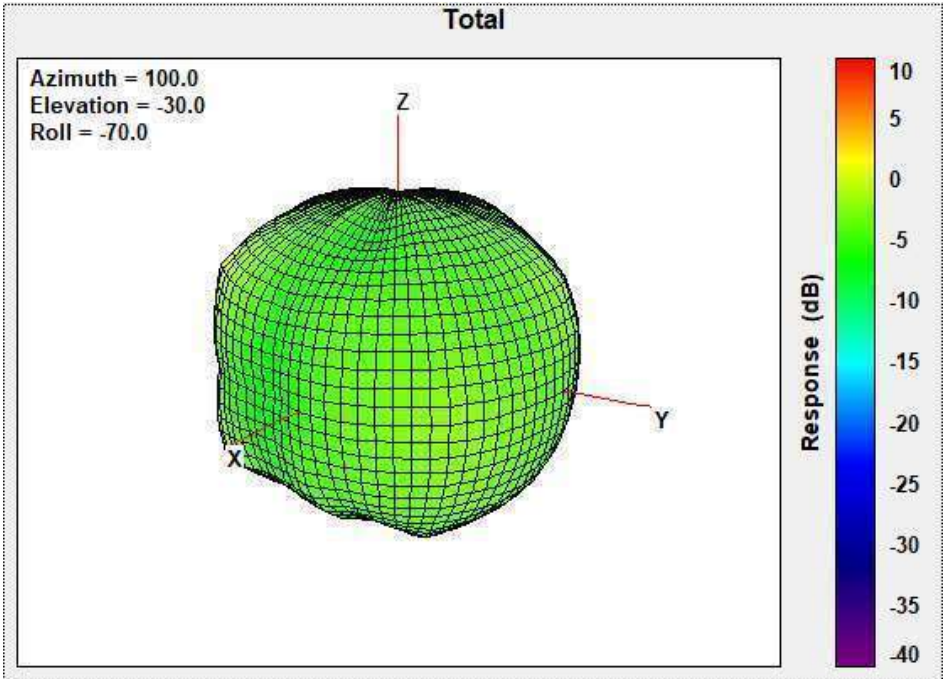
|                               |           |
|-------------------------------|-----------|
| Center Frequency              | 1702.5MHz |
| Peak Gain W/ Cable loss (dBi) | -1.03     |

1710 MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 1710MHz |
| Peak Gain W/ Cable loss (dBi) | -1.22   |

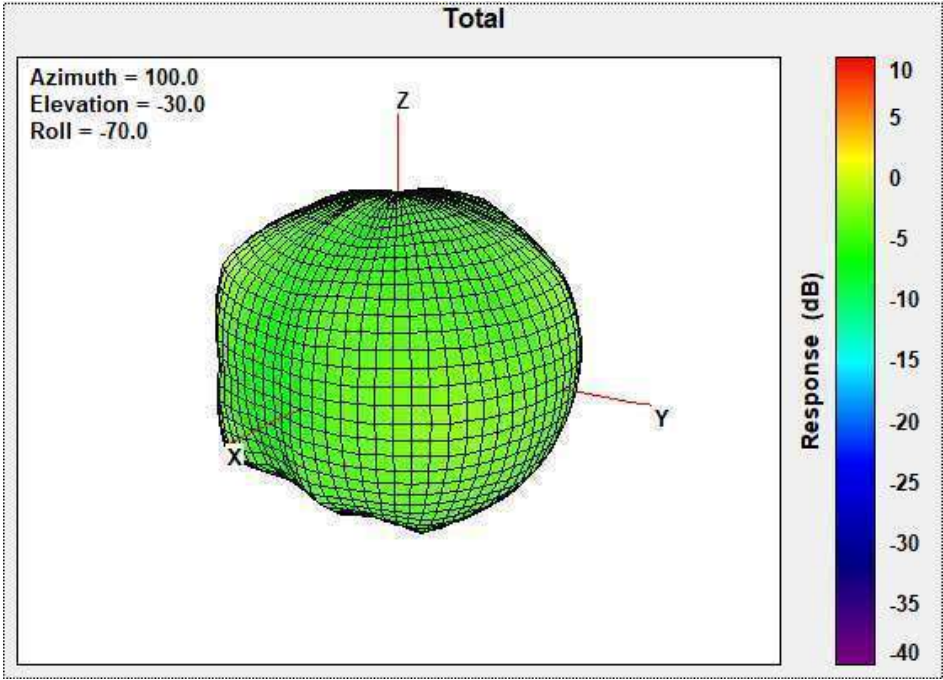
1732.5 MHz



|                               |           |
|-------------------------------|-----------|
| Center Frequency              | 1732.5MHz |
| Peak Gain W/ Cable loss (dBi) | -1.23     |

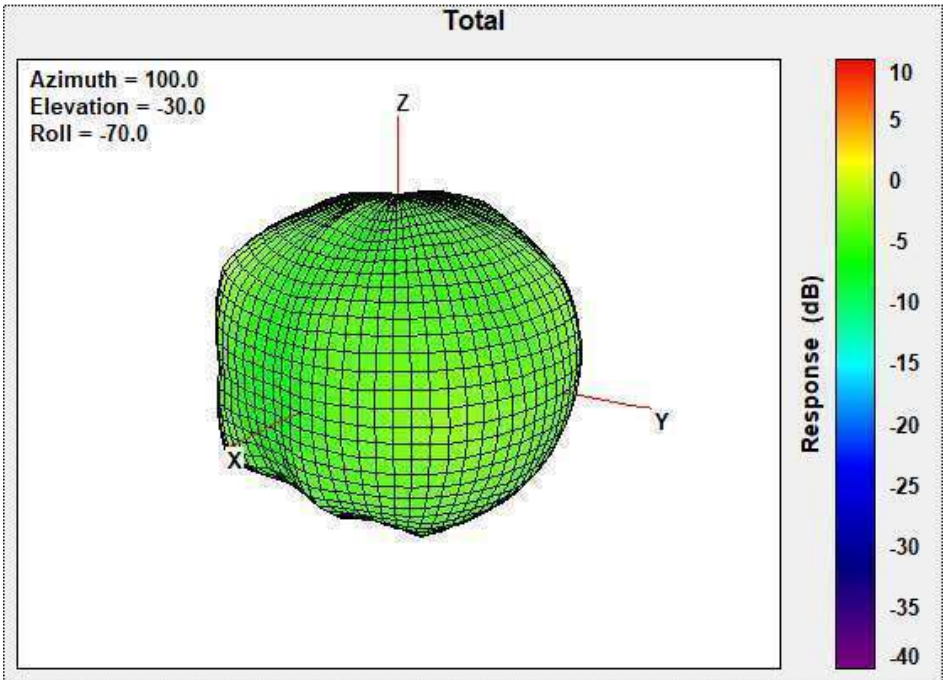


1745 MHz



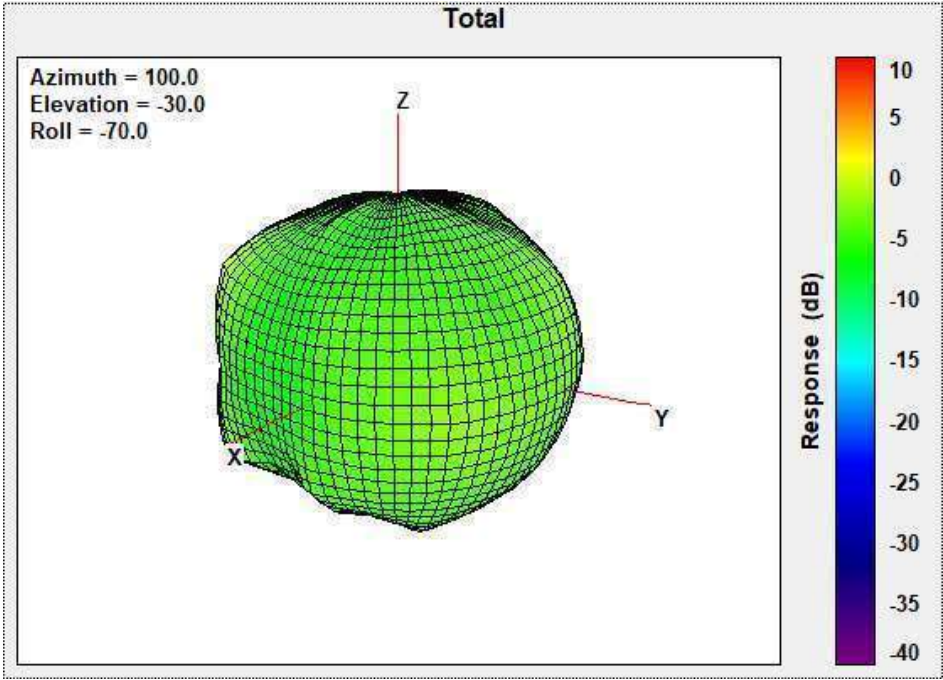
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|-------------------------------|---------|
| Center Frequency              | 1745MHz |
| Peak Gain W/ Cable loss (dBi) | -1.33   |

1747.5 MHz



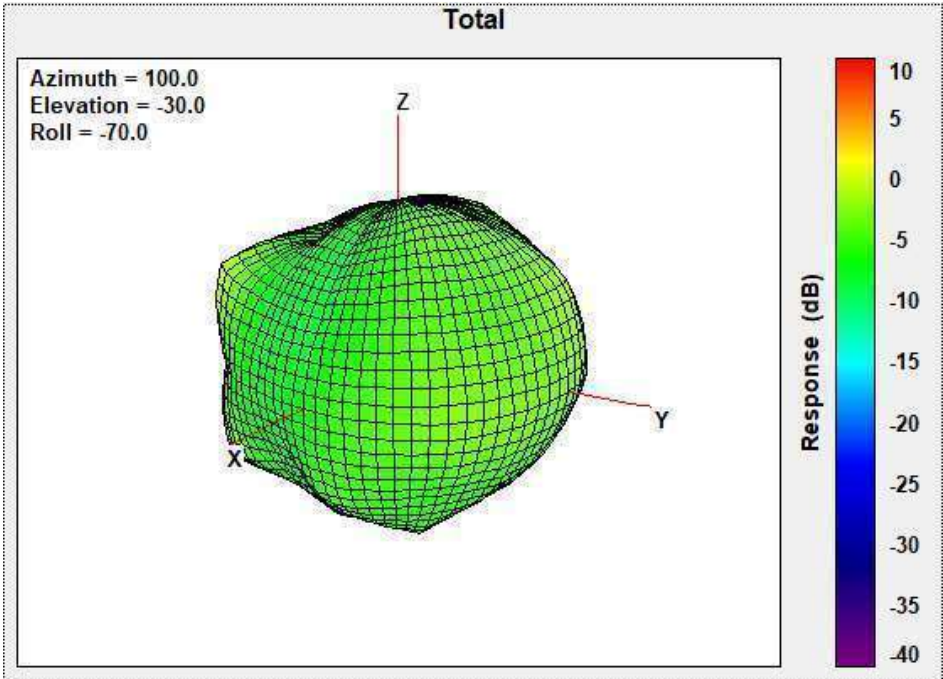
|                               |           |
|-------------------------------|-----------|
| Center Frequency              | 1747.5MHz |
| Peak Gain W/ Cable loss (dBi) | -1.36     |

1755 MHz



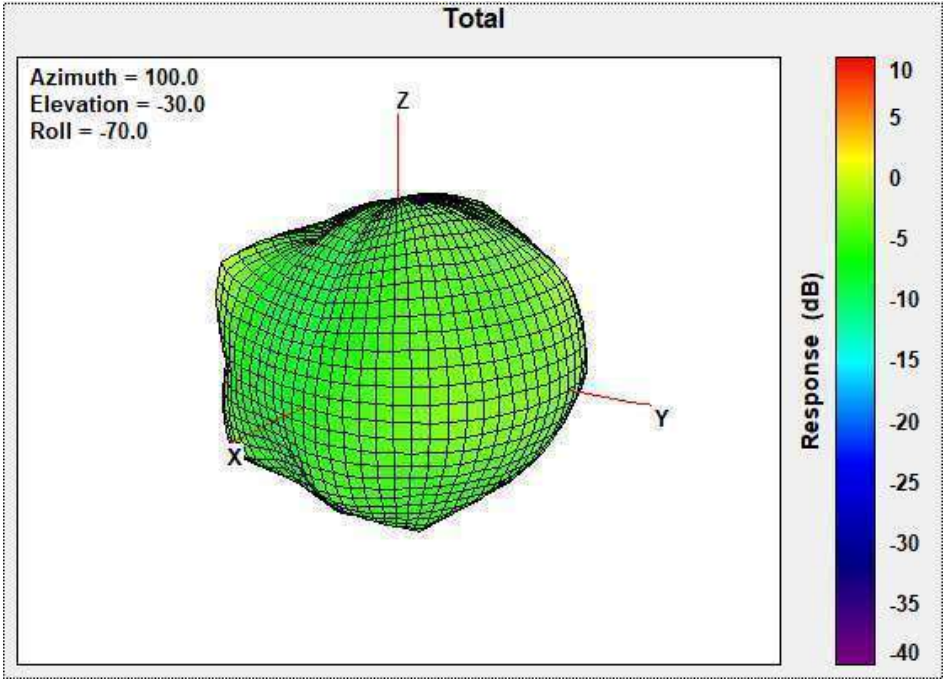
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|-------------------------------|---------|
| Center Frequency              | 1755MHz |
| Peak Gain W/ Cable loss (dBi) | -1.62   |

1780 MHz



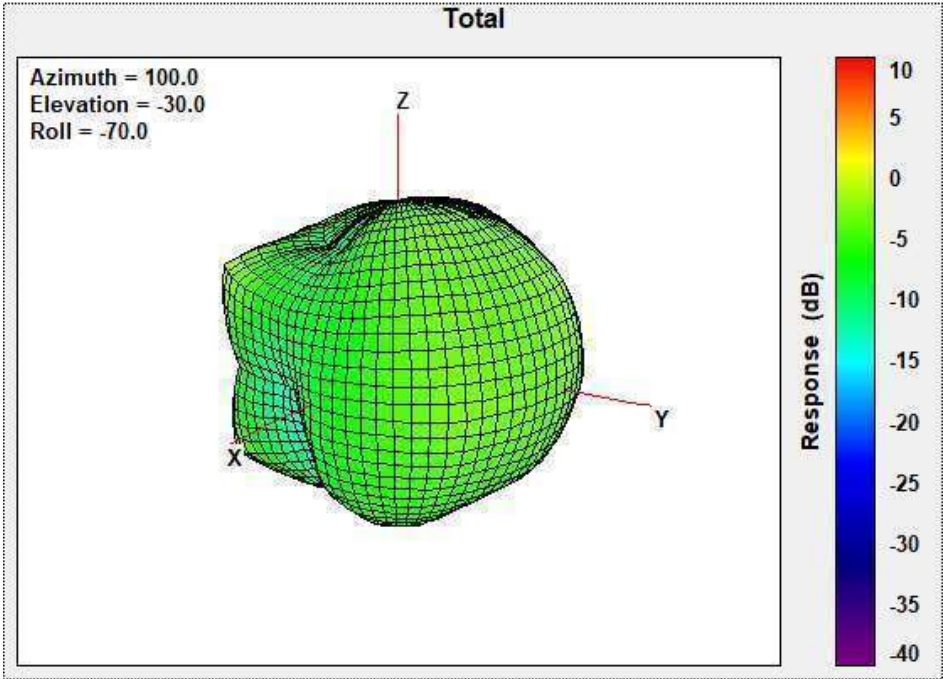
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 1780MHz |
| Peak Gain W/ Cable loss (dBi) | -2.95   |

1785 MHz



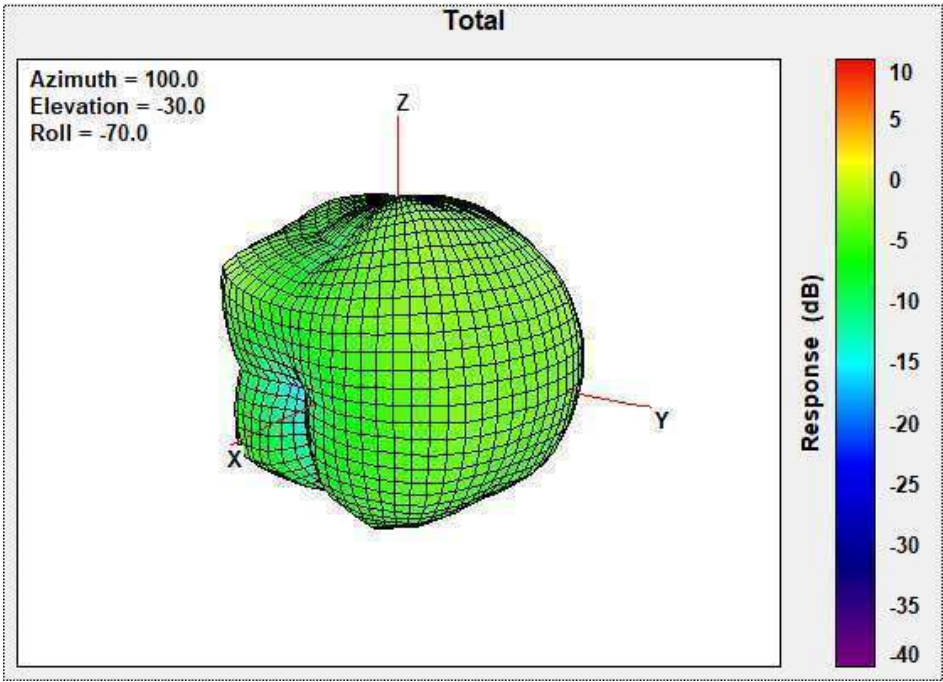
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 1785MHz |
| Peak Gain W/ Cable loss (dBi) | -3.09   |

1850 MHz



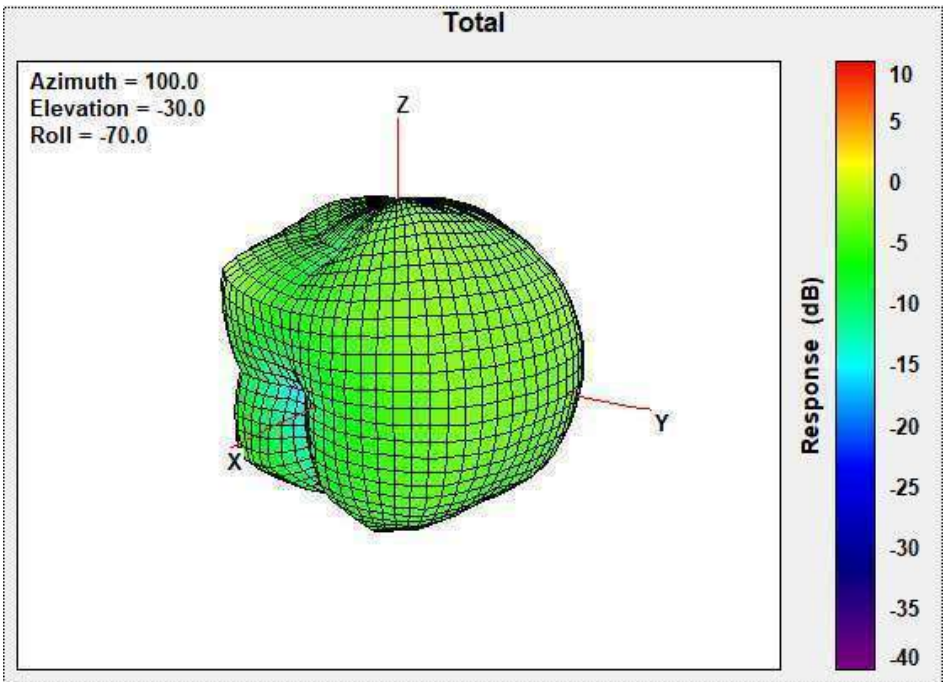
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 1850MHz |
| Peak Gain W/ Cable loss (dBi) | -1.55   |

1880 MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 1880MHz |
| Peak Gain W/ Cable loss (dBi) | -0.96   |

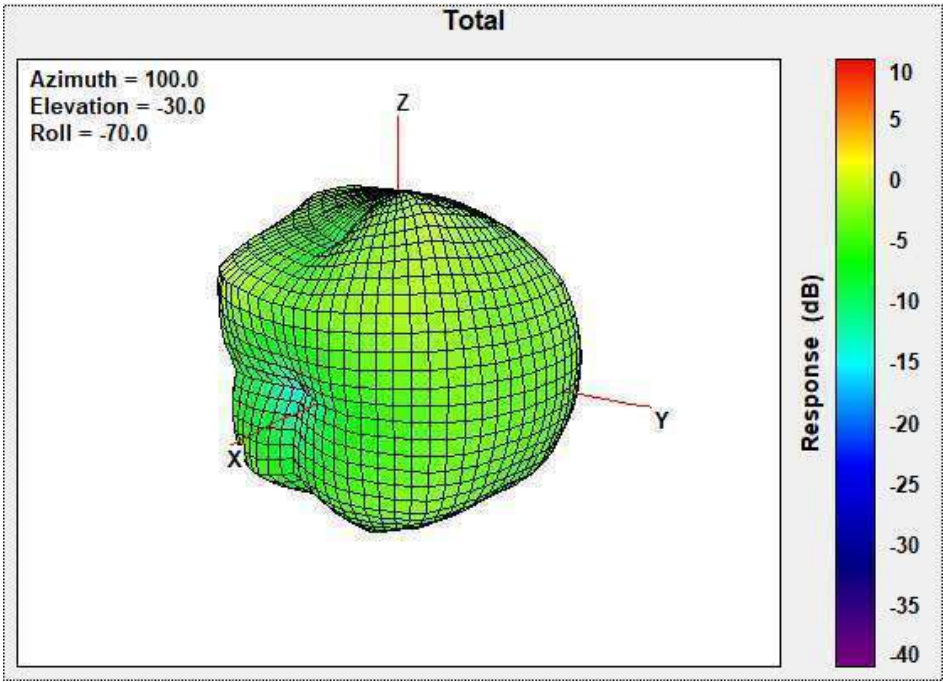
1882.5 MHz



|                               |           |
|-------------------------------|-----------|
| Center Frequency              | 1882.5MHz |
| Peak Gain W/ Cable loss (dBi) | -0.88     |

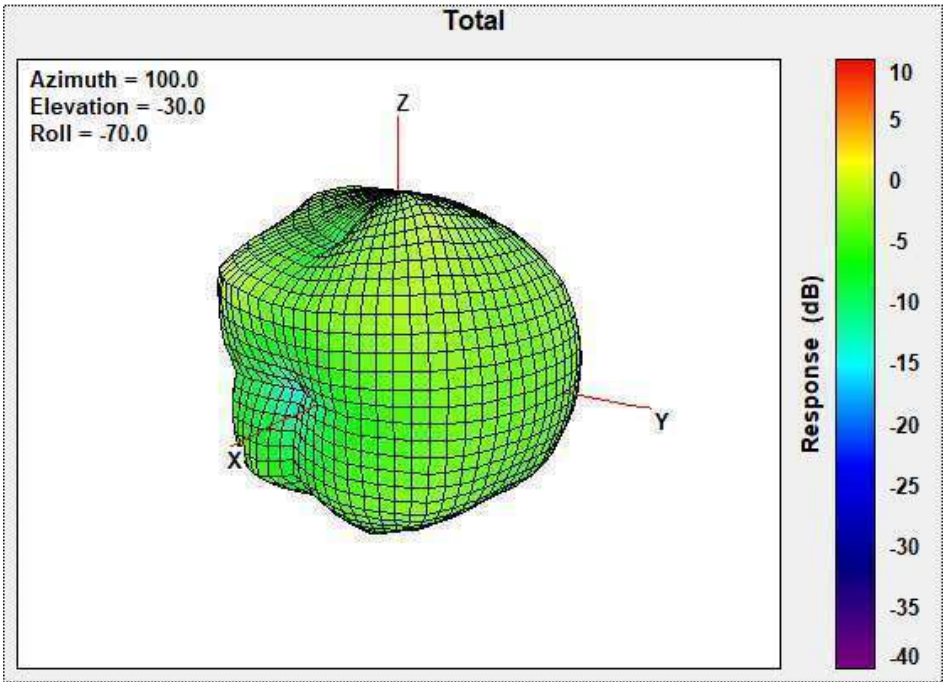


1900MHz



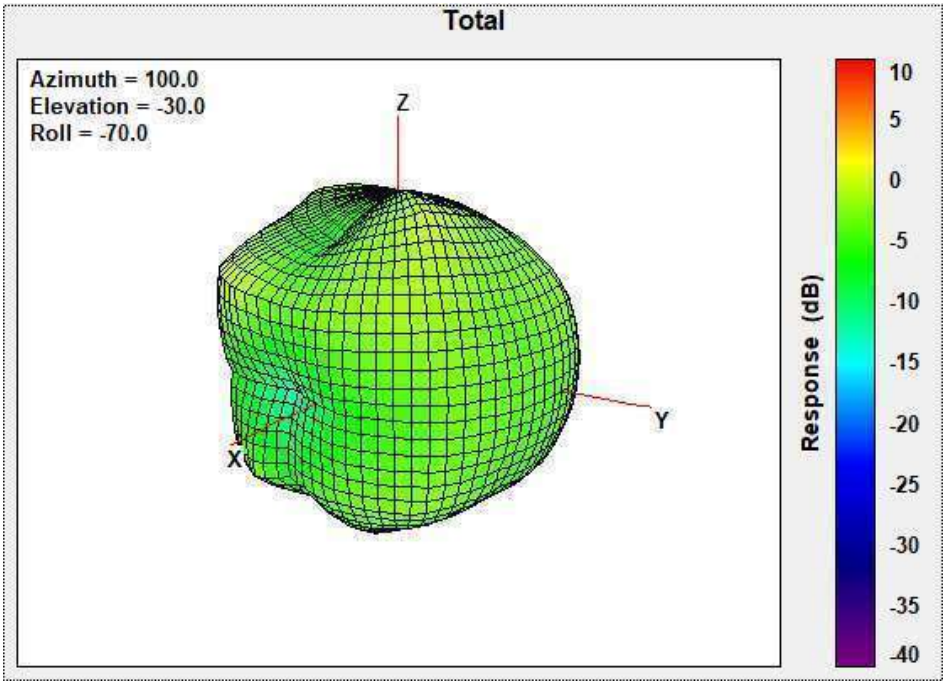
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 1900MHz |
| Peak Gain W/ Cable loss (dBi) | -0.27   |

1910MHz



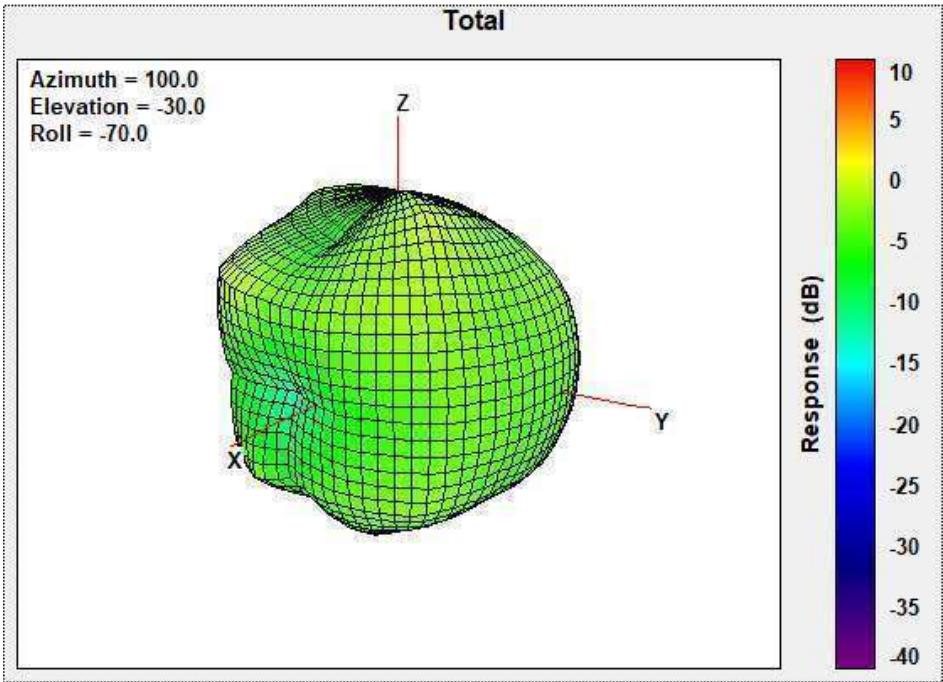
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|-------------------------------|---------|
| Center Frequency              | 1910MHz |
| Peak Gain W/ Cable loss (dBi) | 0.00    |

1915MHz



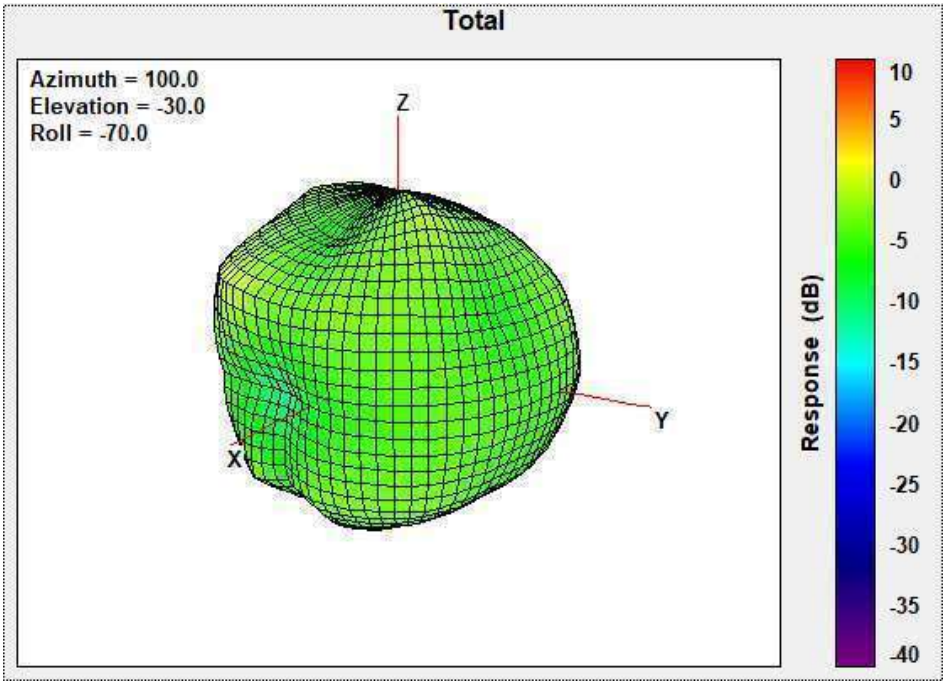
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|-------------------------------|---------|
| Center Frequency              | 1915MHz |
| Peak Gain W/ Cable loss (dBi) | 0.33    |

1920MHz



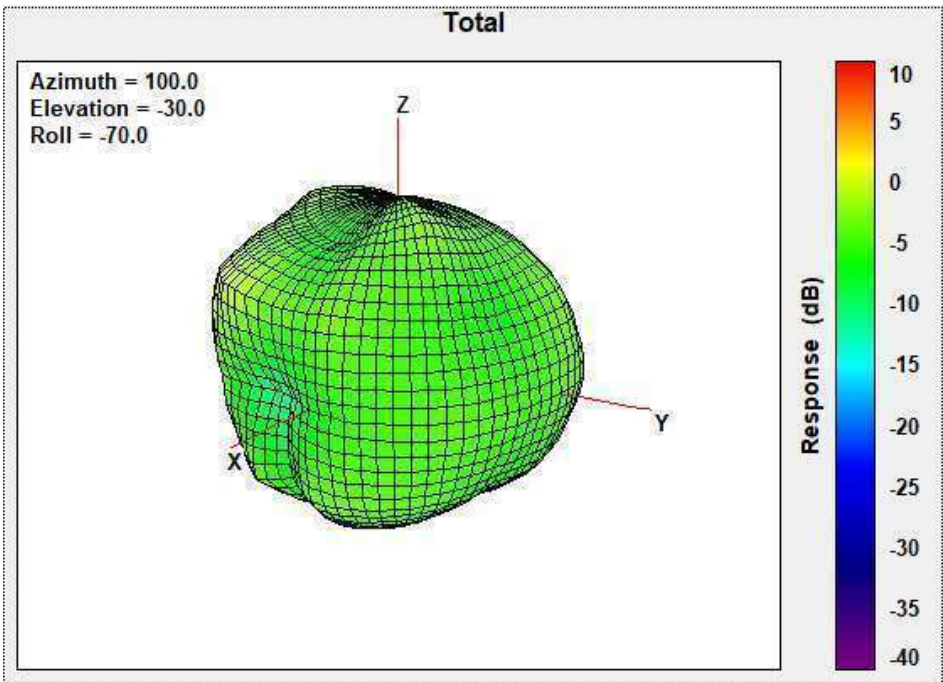
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 1920MHz |
| Peak Gain W/ Cable loss (dBi) | 0.41    |

1950MHz



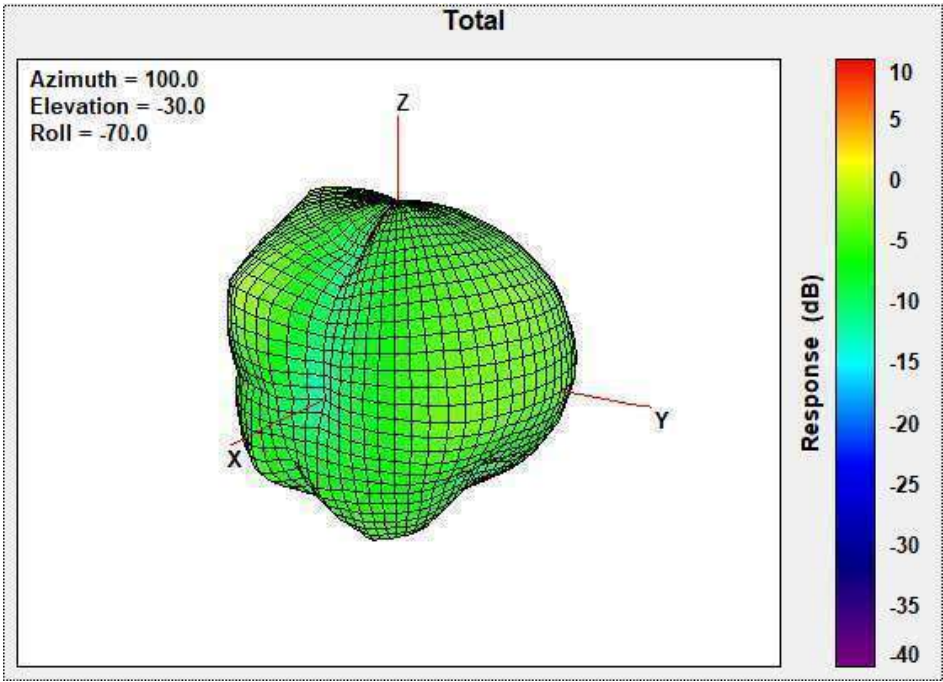
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|-------------------------------|---------|
| Center Frequency              | 1950MHz |
| Peak Gain W/ Cable loss (dBi) | 0.79    |

1980MHz



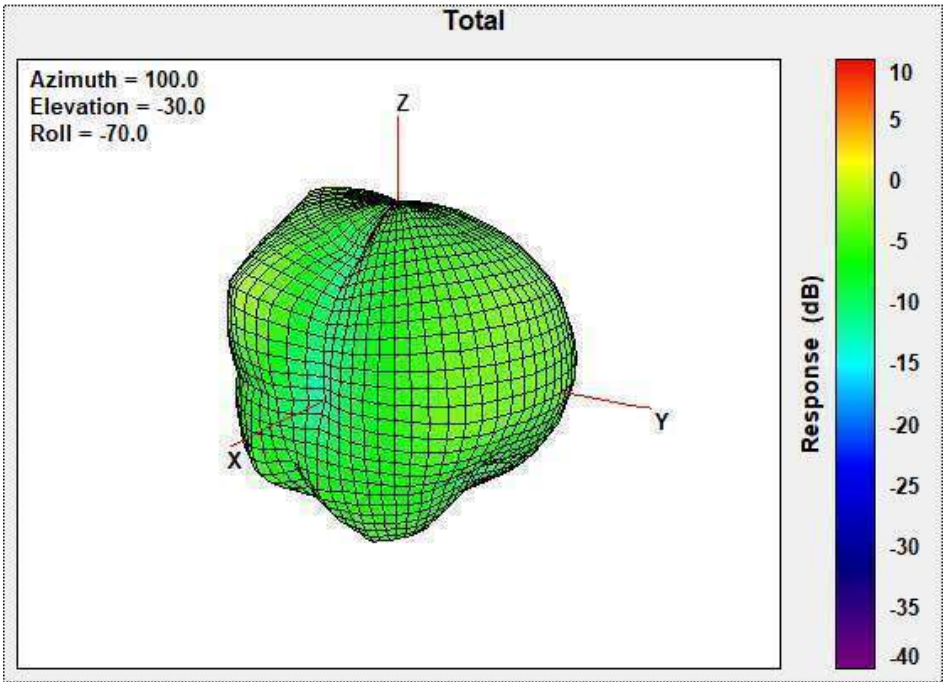
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 1980MHz |
| Peak Gain W/ Cable loss (dBi) | 0.57    |

2010MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2010MHz |
| Peak Gain W/ Cable loss (dBi) | 0.35    |

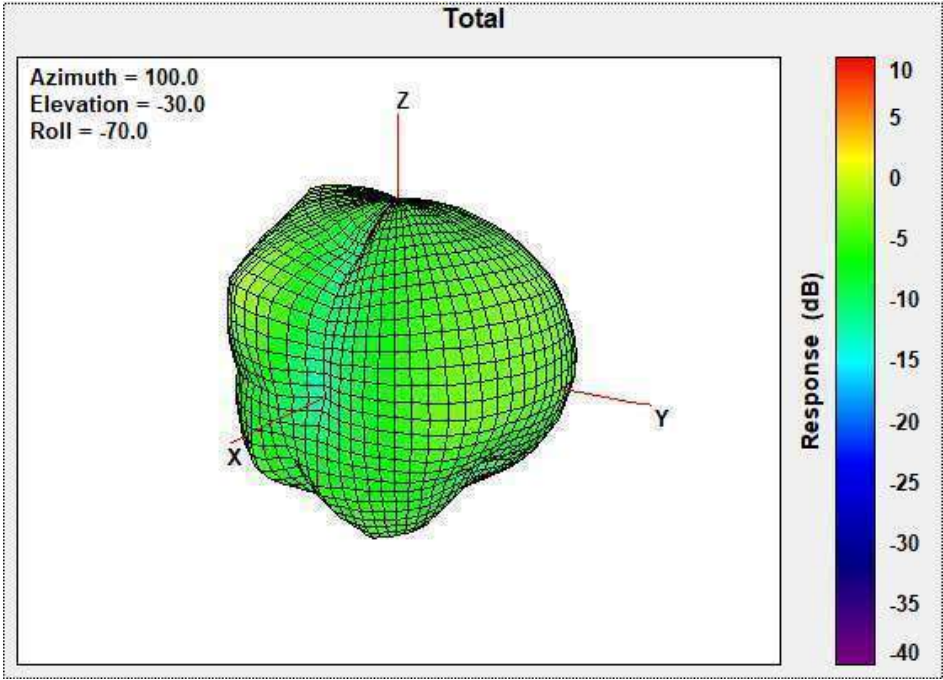
2017.5MHz



|                               |           |
|-------------------------------|-----------|
| Center Frequency              | 2017.5MHz |
| Peak Gain W/ Cable loss (dBi) | 0.38      |

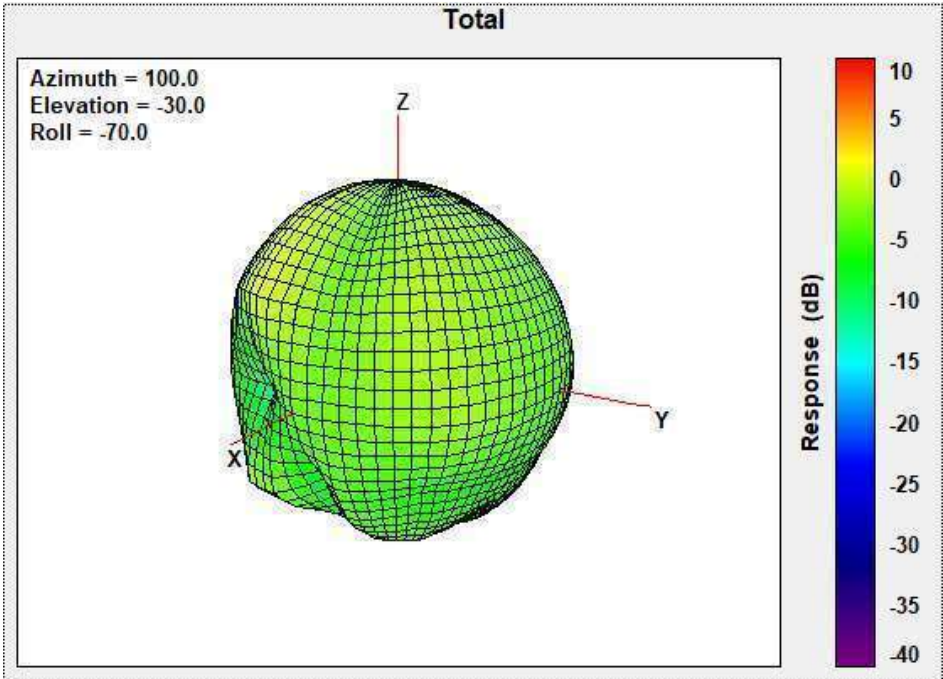


2025MHz



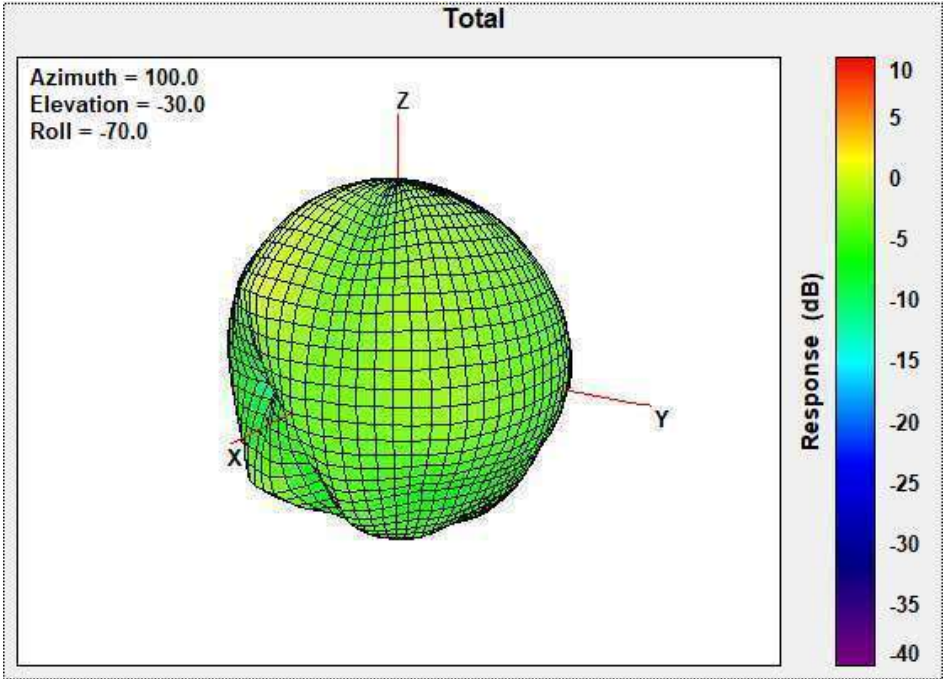
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2025MHz |
| Peak Gain W/ Cable loss (dBi) | 0.26    |

2300MHz



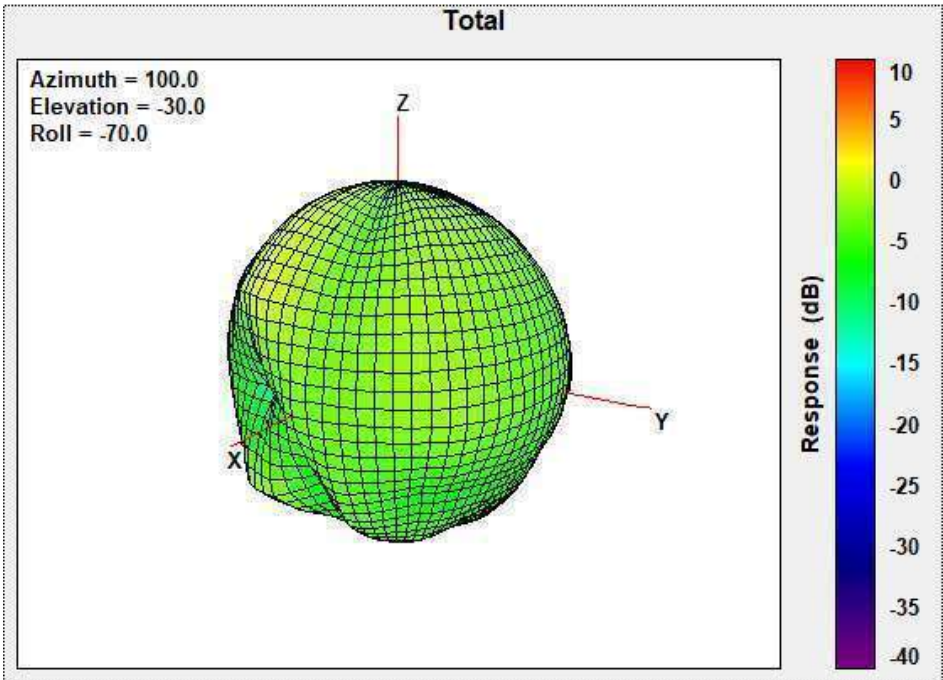
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2300MHz |
| Peak Gain W/ Cable loss (dBi) | 0.34    |

2305MHz



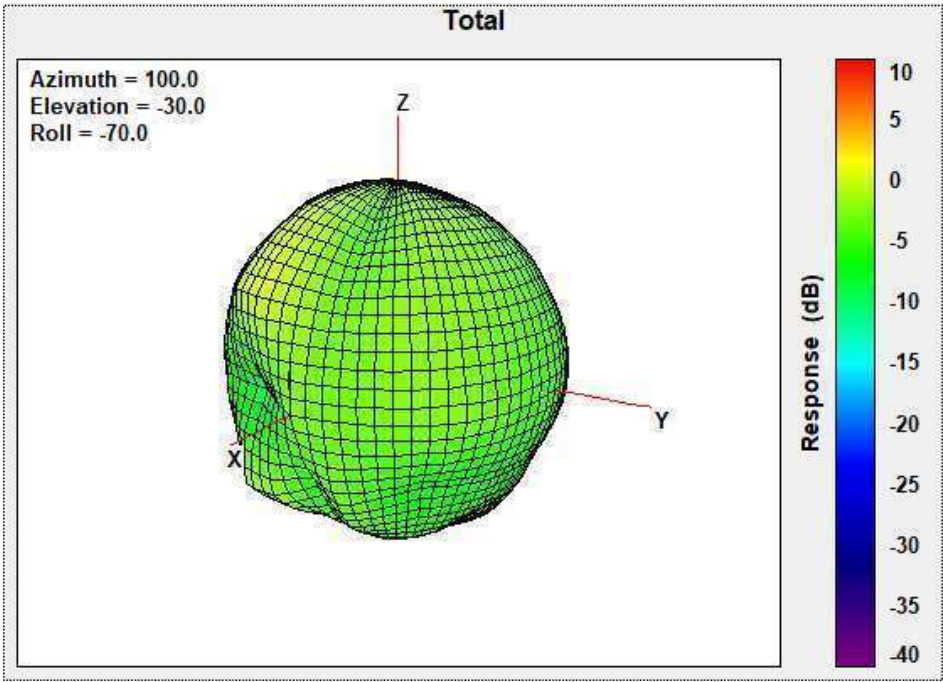
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2305MHz |
| Peak Gain W/ Cable loss (dBi) | 0.46    |

2310MHz



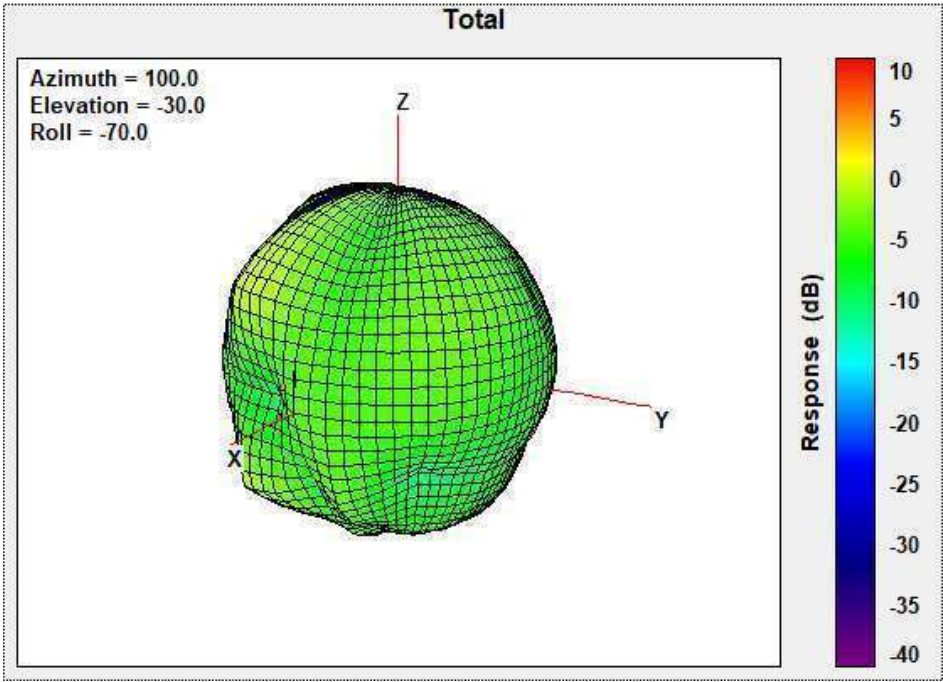
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2310MHz |
| Peak Gain W/ Cable loss (dBi) | 0.51    |

2315MHz



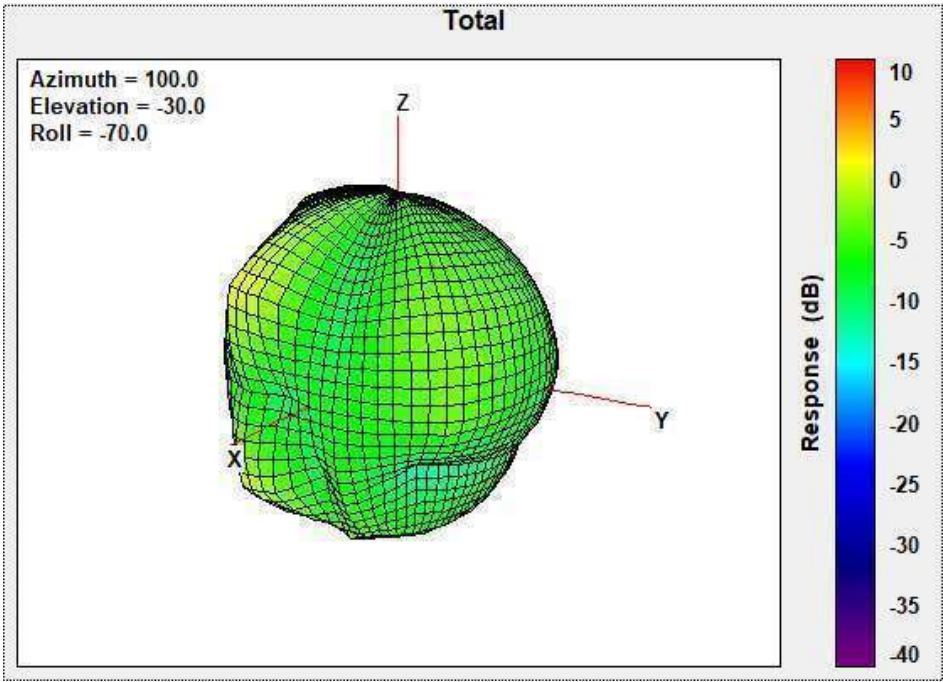
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2315MHz |
| Peak Gain W/ Cable loss (dBi) | 0.59    |

2350MHz



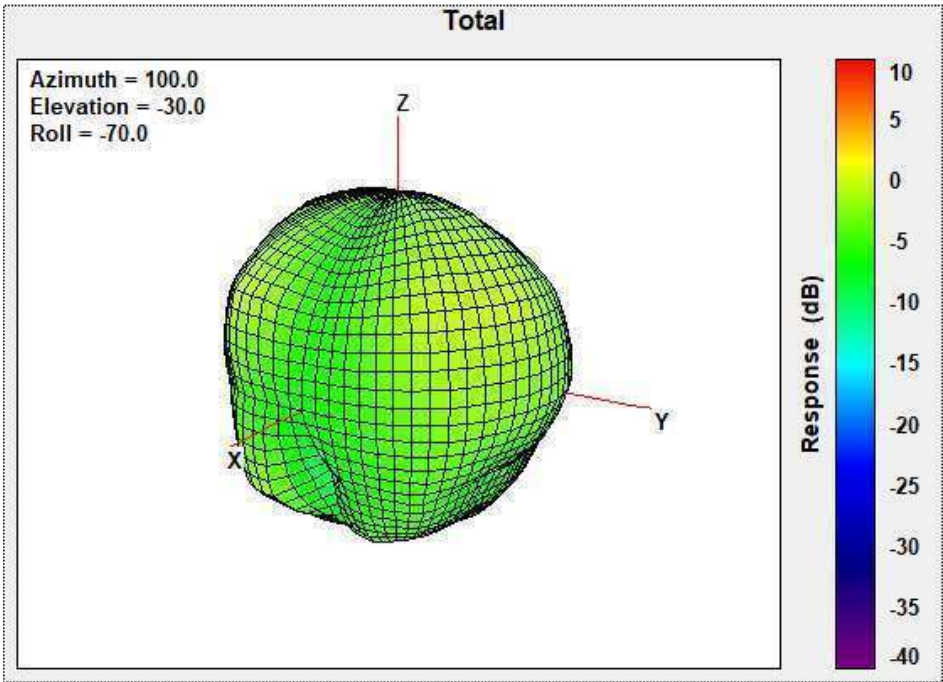
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2350MHz |
| Peak Gain W/ Cable loss (dBi) | 0.41    |

2400MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2400MHz |
| Peak Gain W/ Cable loss (dBi) | 0.14    |

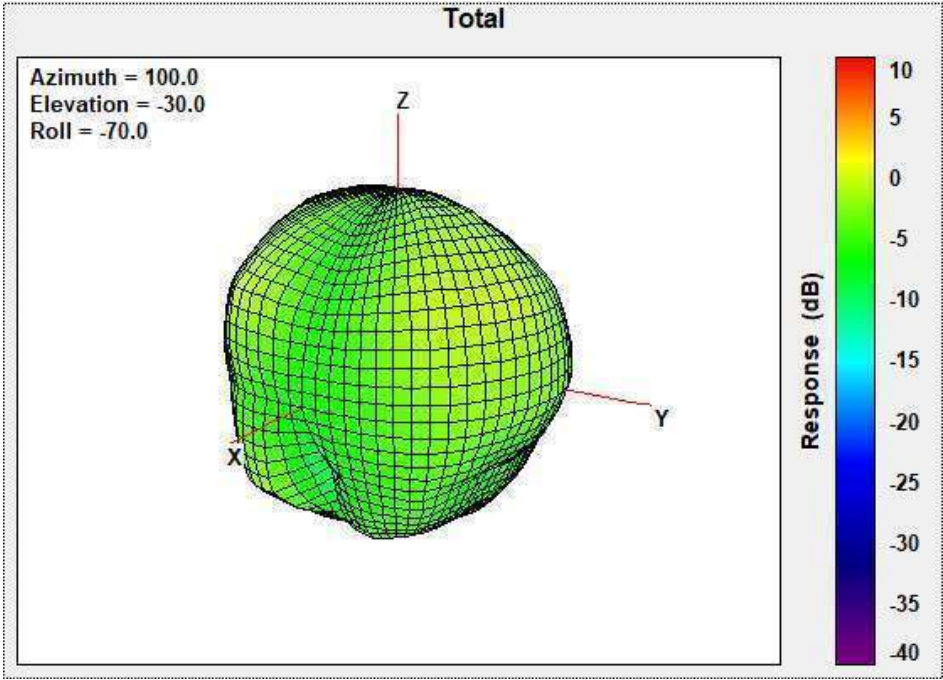
2483.5MHz



|                               |           |
|-------------------------------|-----------|
| Center Frequency              | 2483.5MHz |
| Peak Gain W/ Cable loss (dBi) | -0.34     |

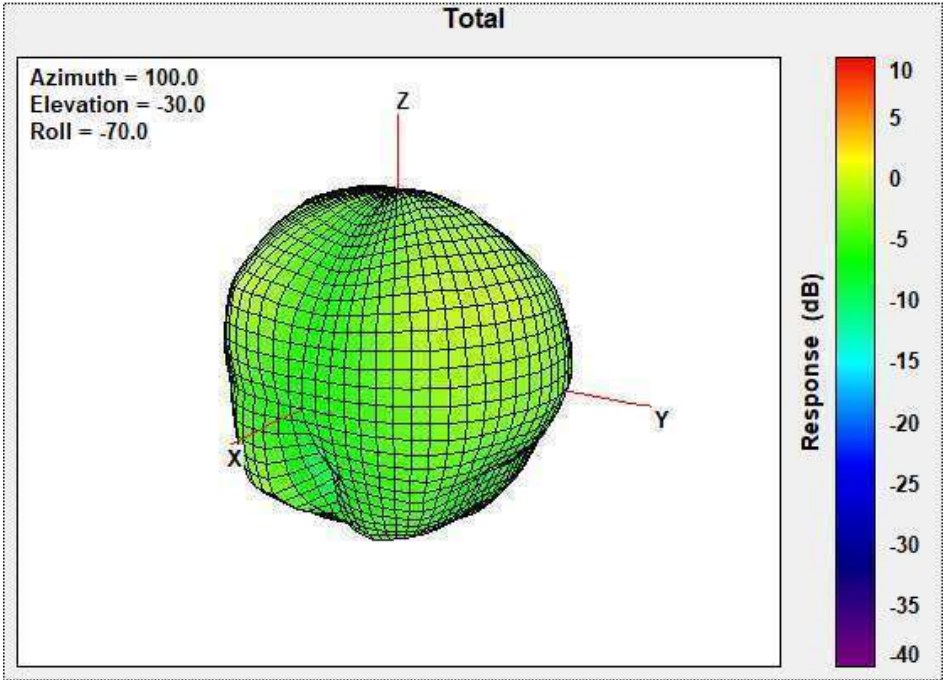


2489.25MHz



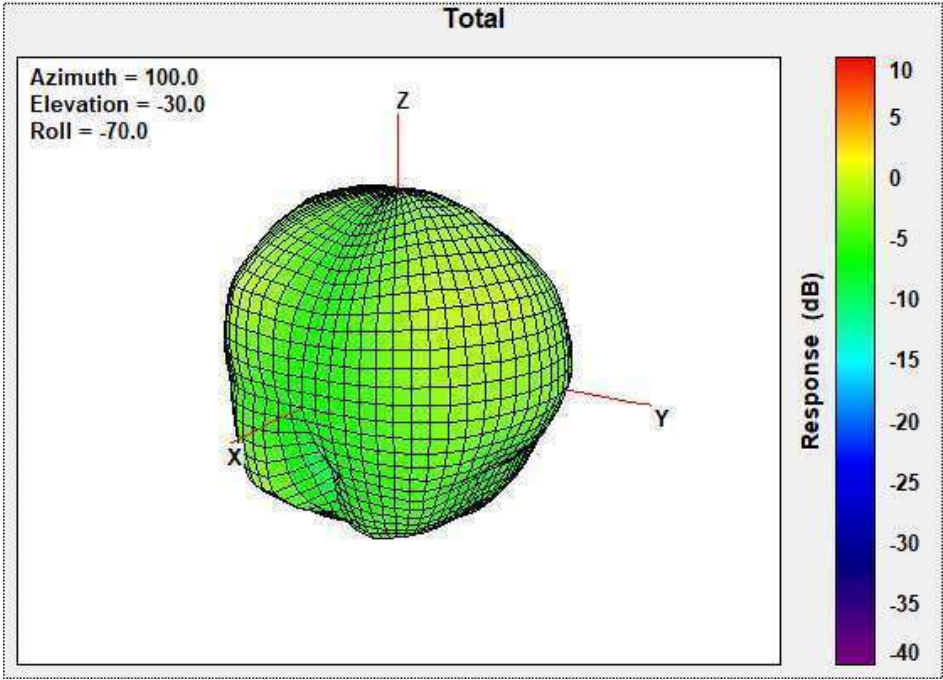
|                               |            |
|-------------------------------|------------|
| Center Frequency              | 2489.25MHz |
| Peak Gain W/ Cable loss (dBi) | -0.35      |

2495MHz



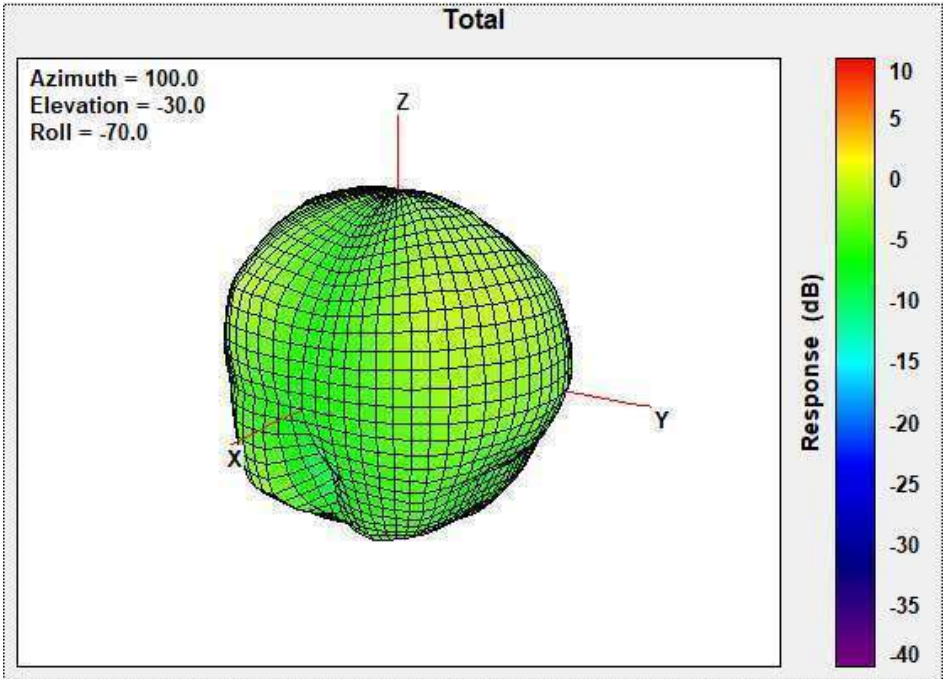
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|-------------------------------|---------|
| Center Frequency              | 2495MHz |
| Peak Gain W/ Cable loss (dBi) | -0.56   |

2496MHz



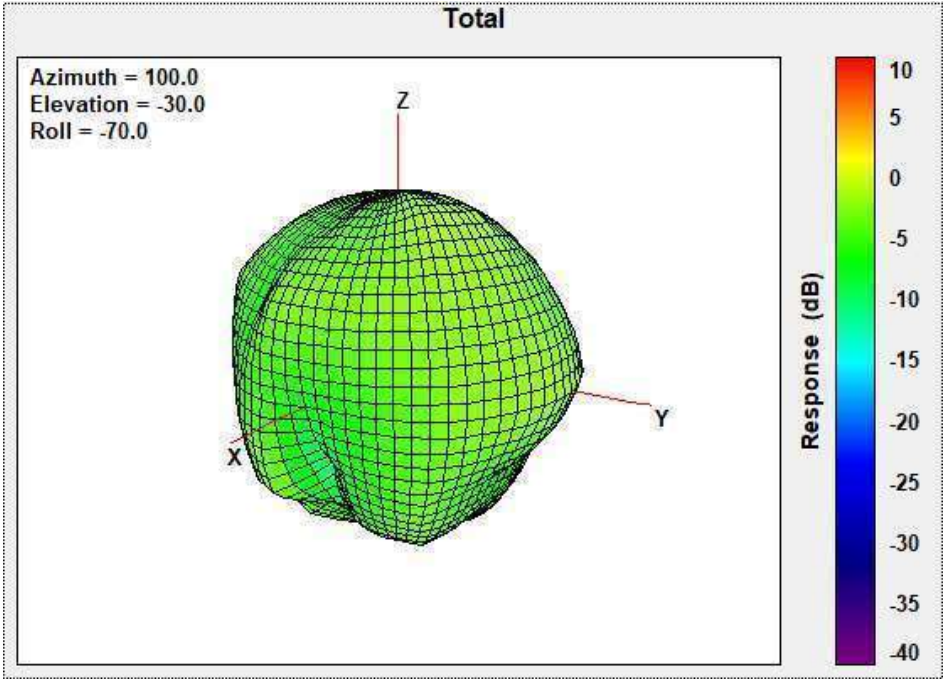
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2496MHz |
| Peak Gain W/ Cable loss (dBi) | -0.58   |

2500MHz



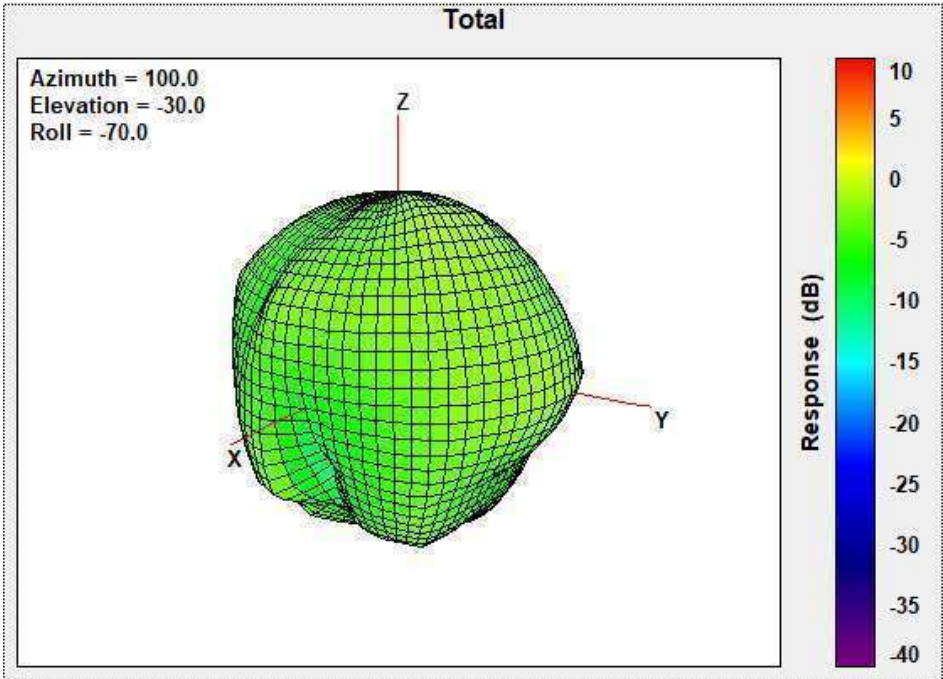
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2500MHz |
| Peak Gain W/ Cable loss (dBi) | -0.73   |

2535MHz



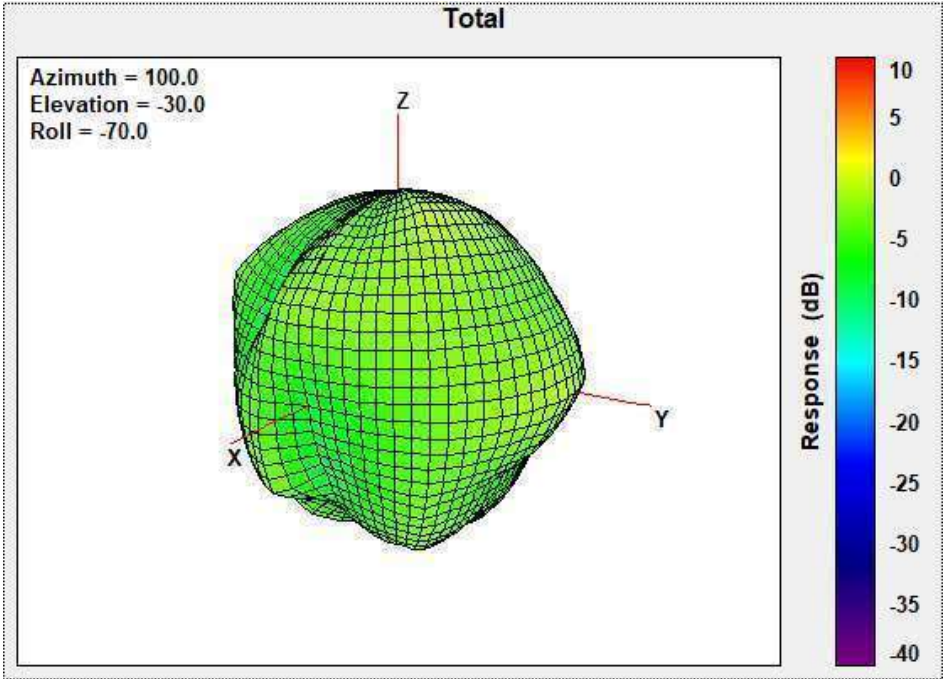
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2535MHz |
| Peak Gain W/ Cable loss (dBi) | -0.55   |

2570MHz



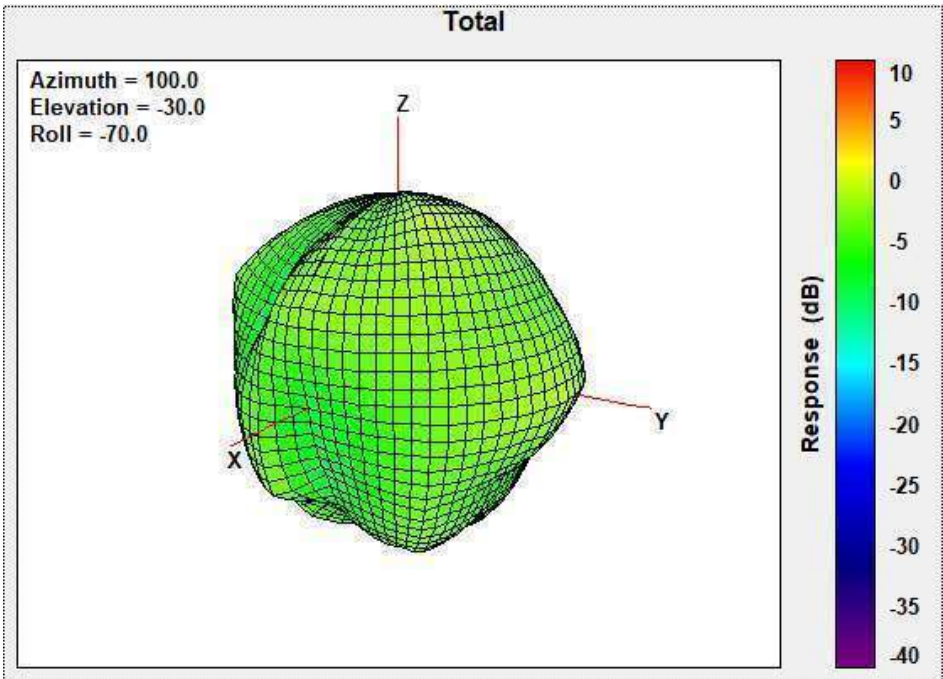
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2570MHz |
| Peak Gain W/ Cable loss (dBi) | -0.39   |

2593MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2593MHz |
| Peak Gain W/ Cable loss (dBi) | -0.13   |

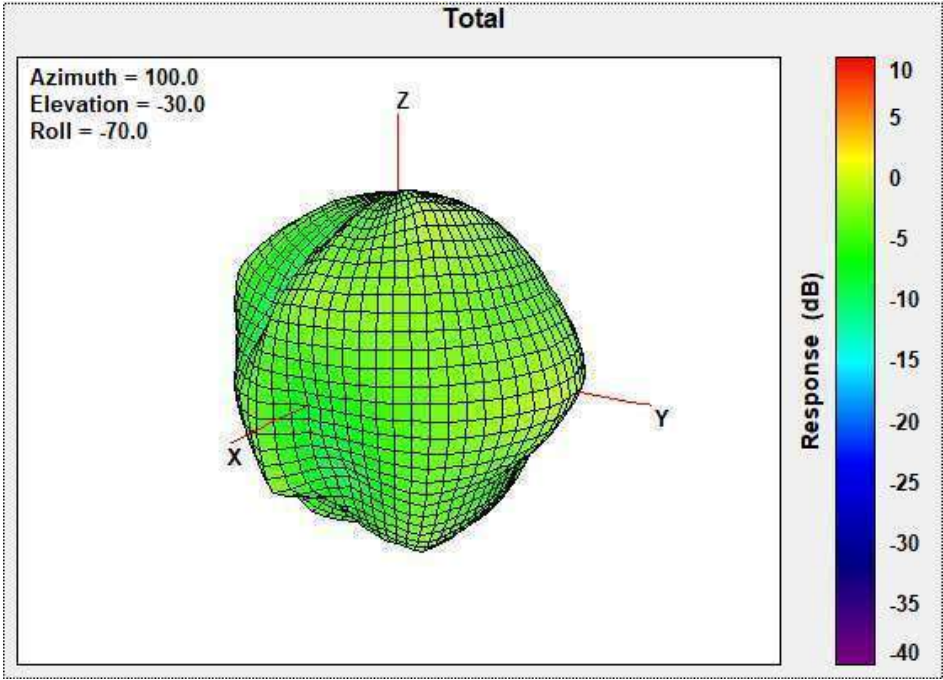
2595MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2595MHz |
| Peak Gain W/ Cable loss (dBi) | -0.15   |

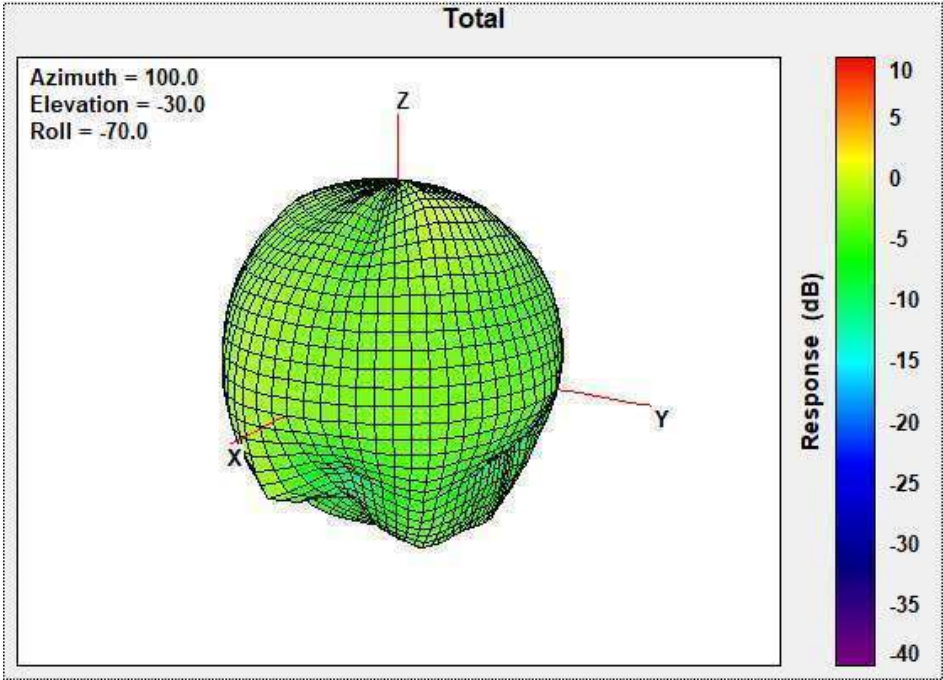


2620MHz



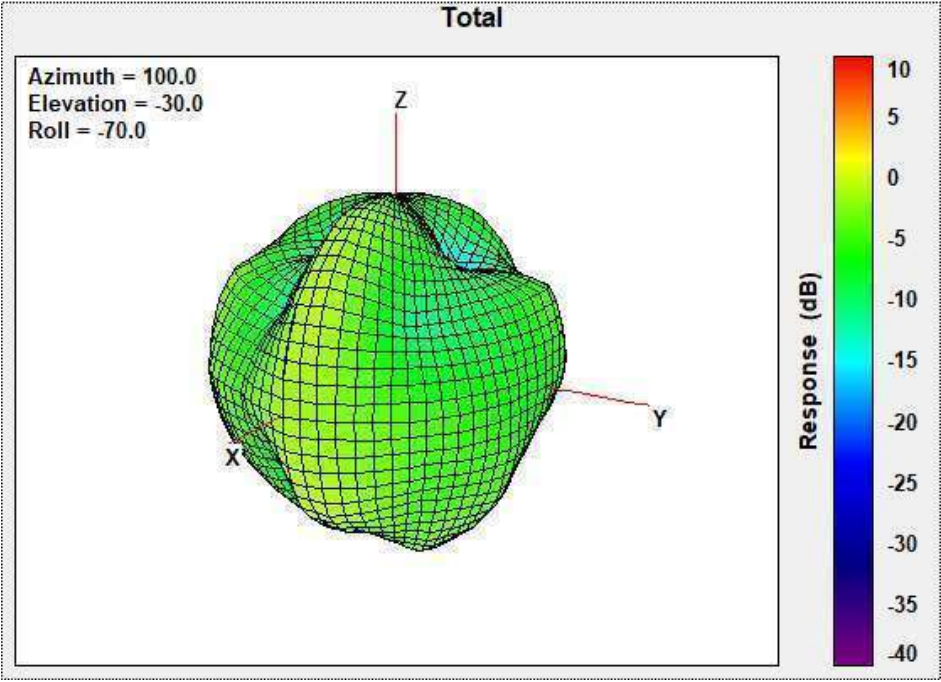
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2620MHz |
| Peak Gain W/ Cable loss (dBi) | -0.14   |

2690MHz



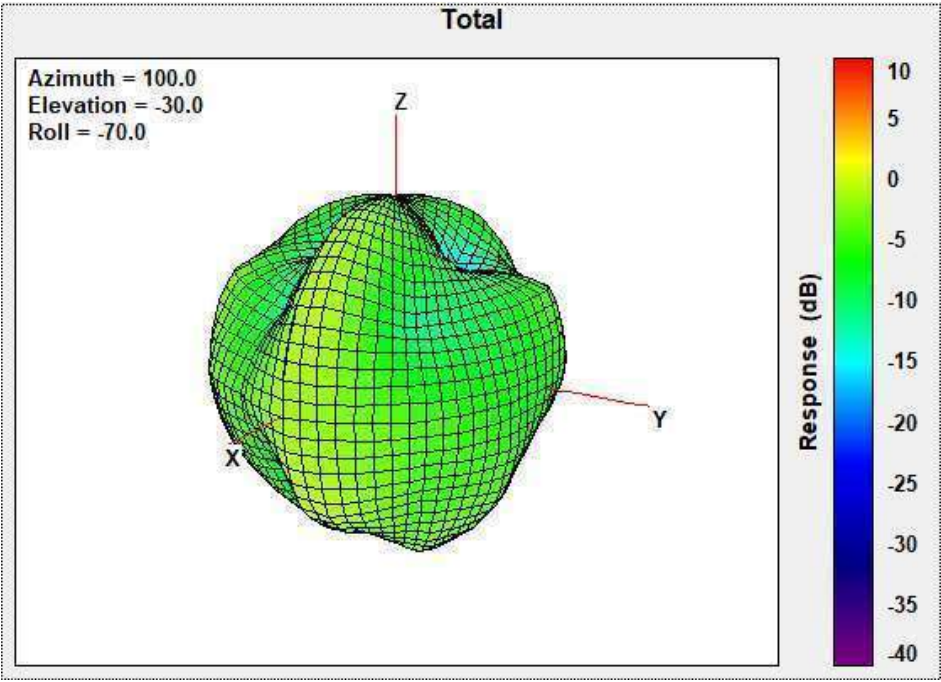
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 2690MHz |
| Peak Gain W/ Cable loss (dBi) | -0.07   |

3300MHz



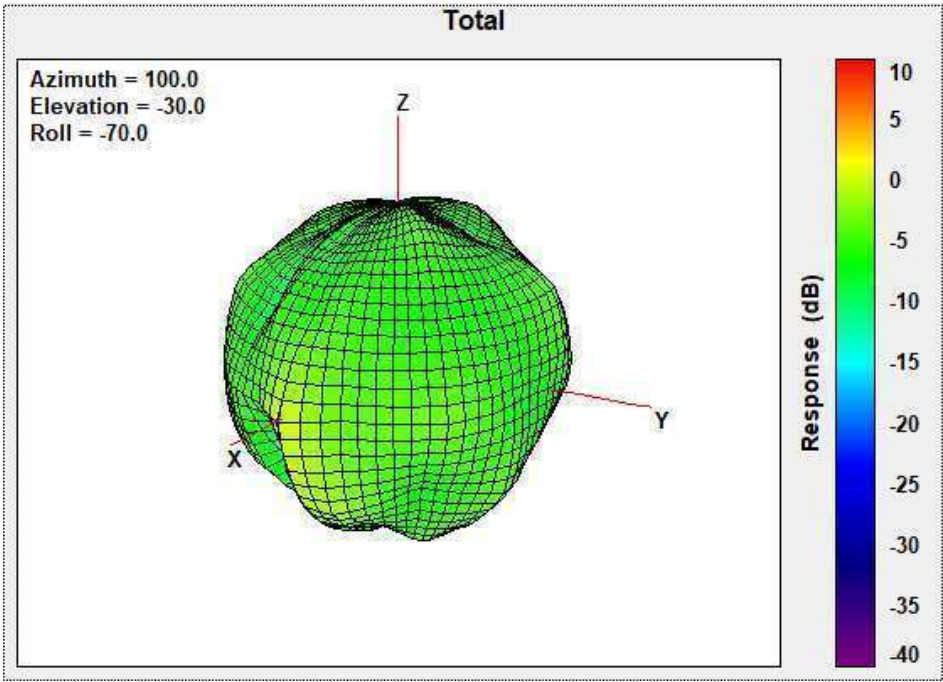
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3300MHz |
| Peak Gain W/ Cable loss (dBi) | -0.38   |

**3400MHz**



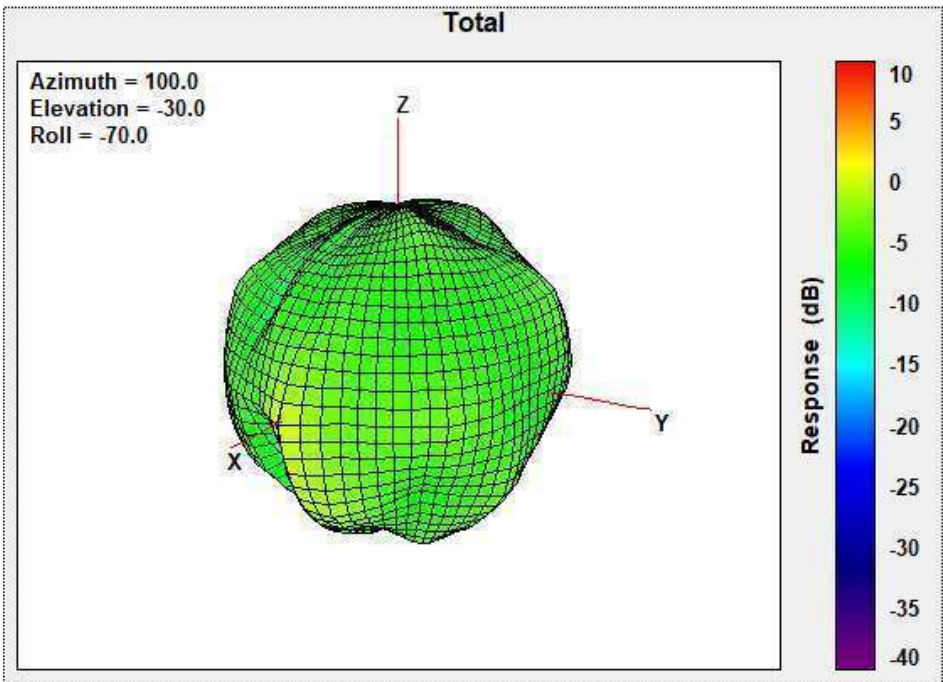
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3400MHz |
| Peak Gain W/ Cable loss (dBi) | -0.99   |

3500MHz



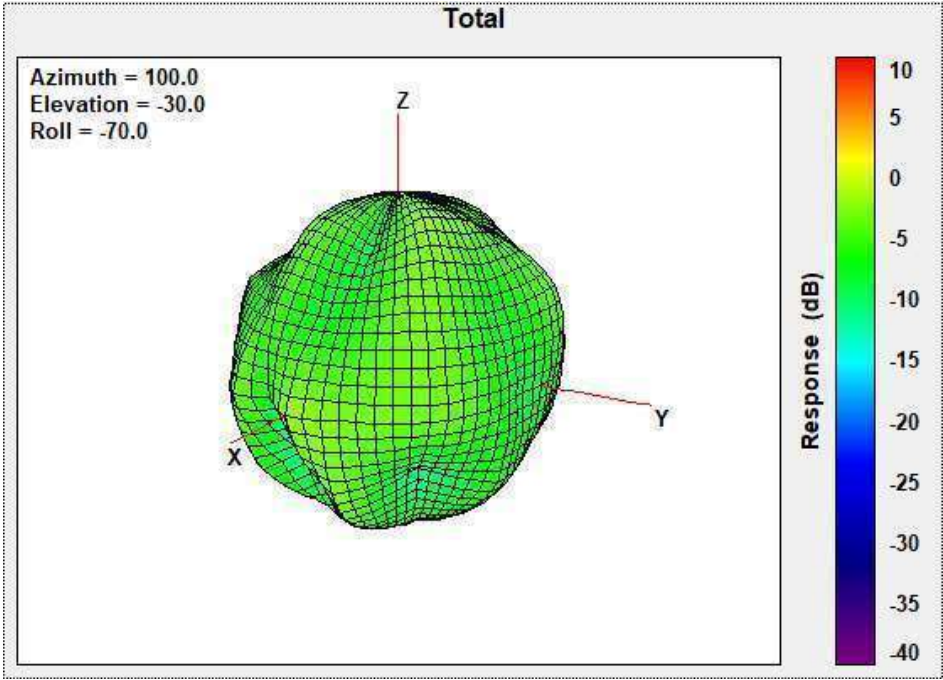
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3500MHz |
| Peak Gain W/ Cable loss (dBi) | -0.72   |

3550MHz



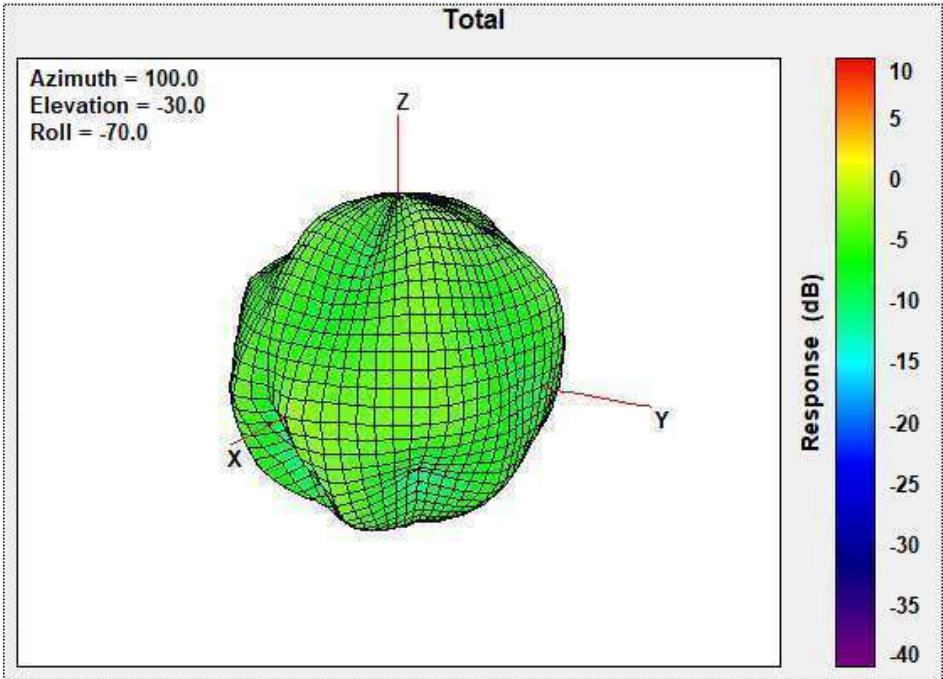
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3550MHz |
| Peak Gain W/ Cable loss (dBi) | -1.59   |

3600MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3600MHz |
| Peak Gain W/ Cable loss (dBi) | -2.17   |

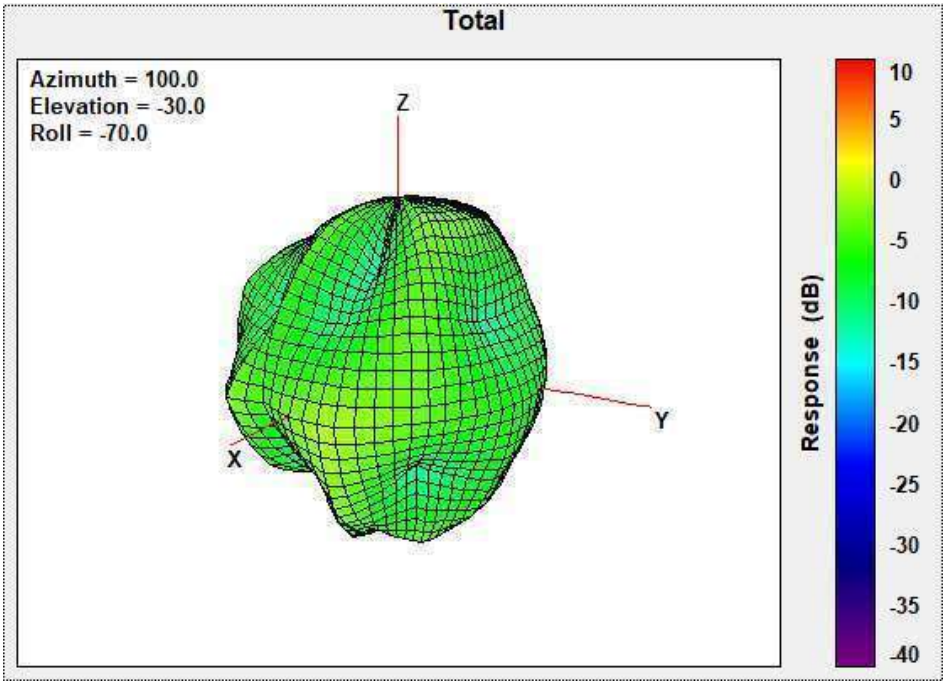
3625MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3625MHz |
| Peak Gain W/ Cable loss (dBi) | -1.47   |

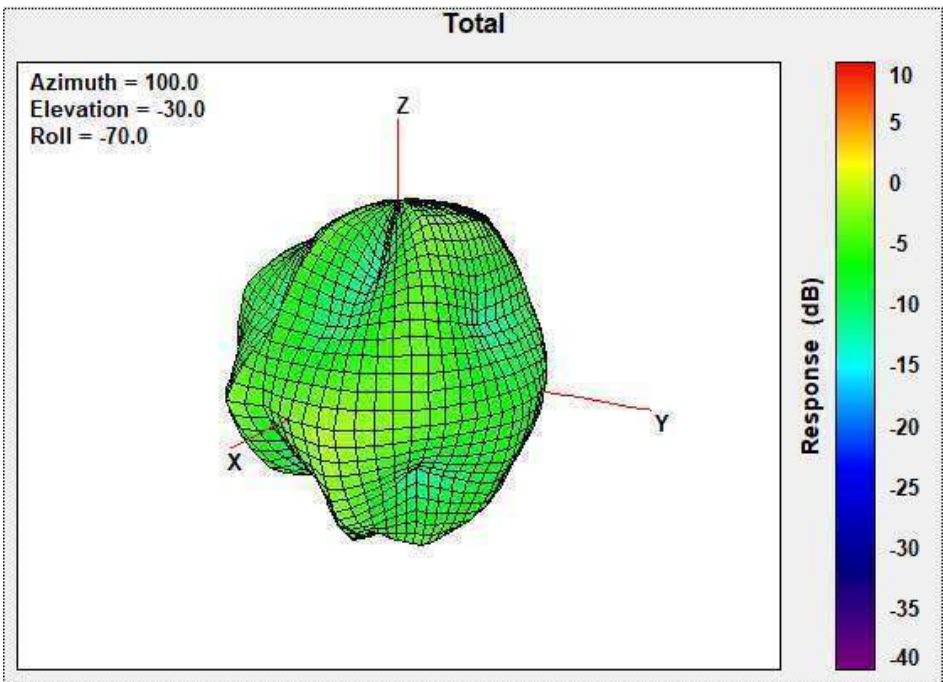


3700MHz



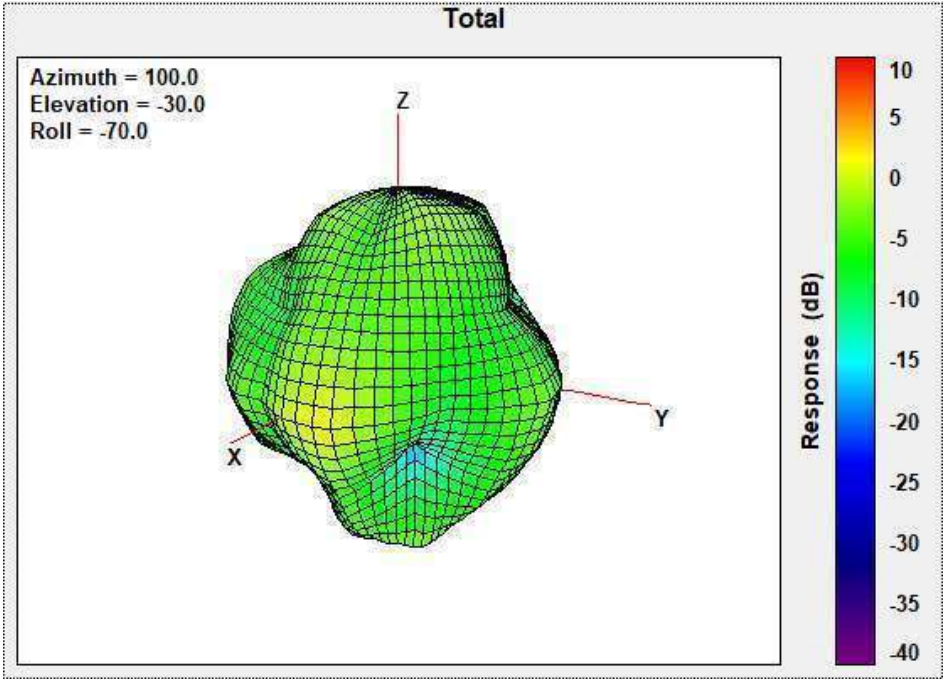
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3700MHz |
| Peak Gain W/ Cable loss (dBi) | -1.05   |

3750MHz



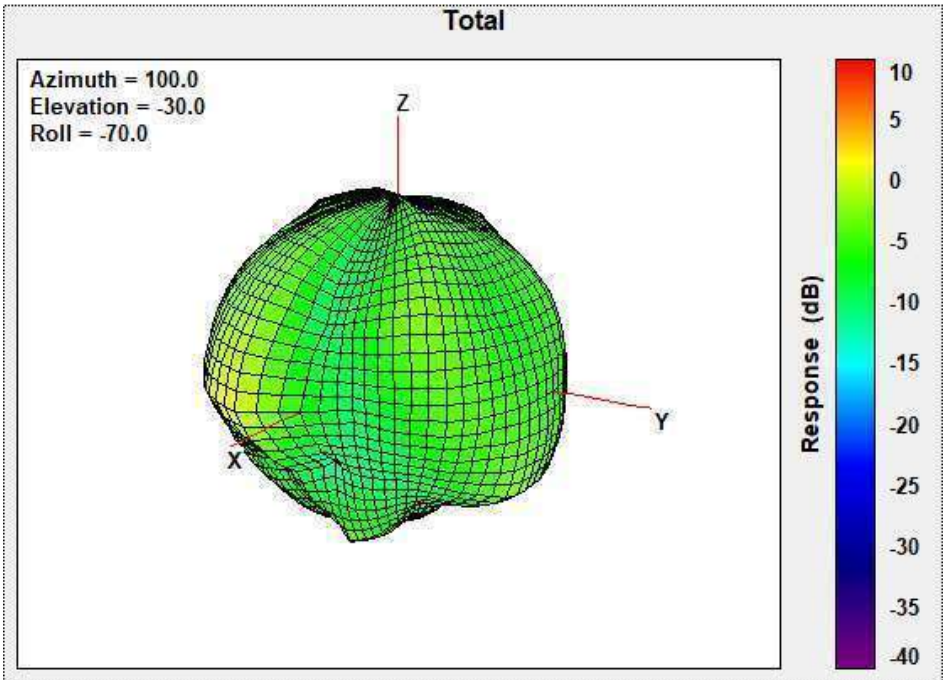
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3750MHz |
| Peak Gain W/ Cable loss (dBi) | -1.18   |

3800MHz



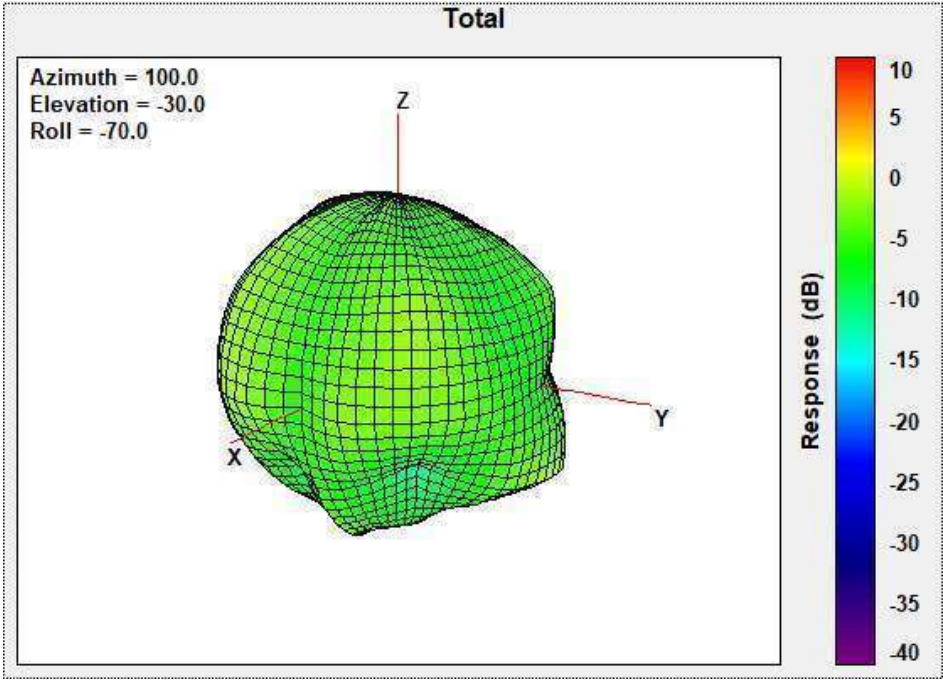
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 3800MHz |
| Peak Gain W/ Cable loss (dBi) | -1.30   |

4200MHz



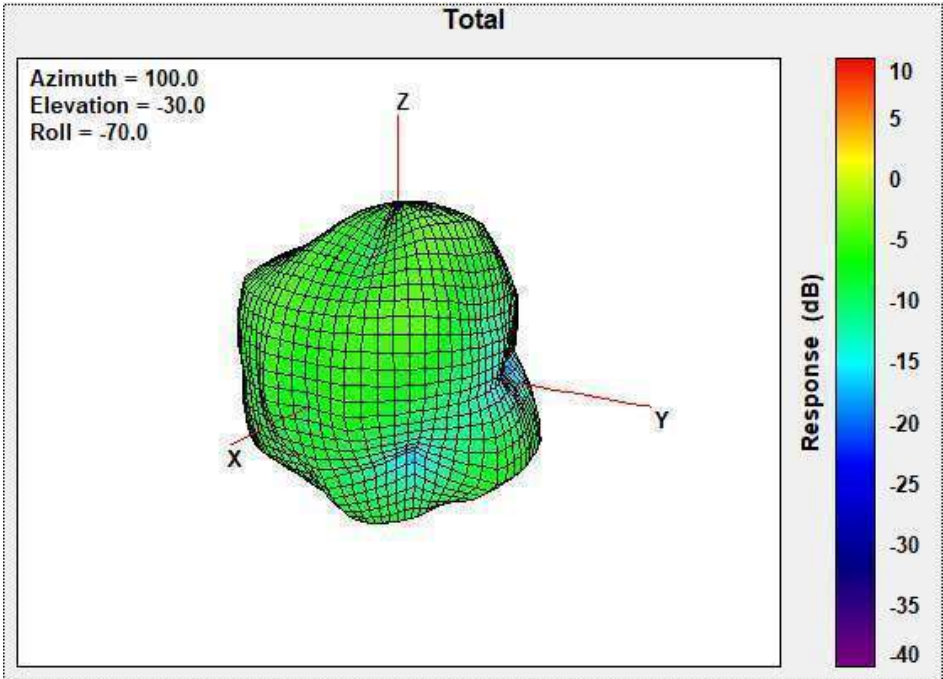
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4200MHz |
| Peak Gain W/ Cable loss (dBi) | -0.53   |

4400MHz



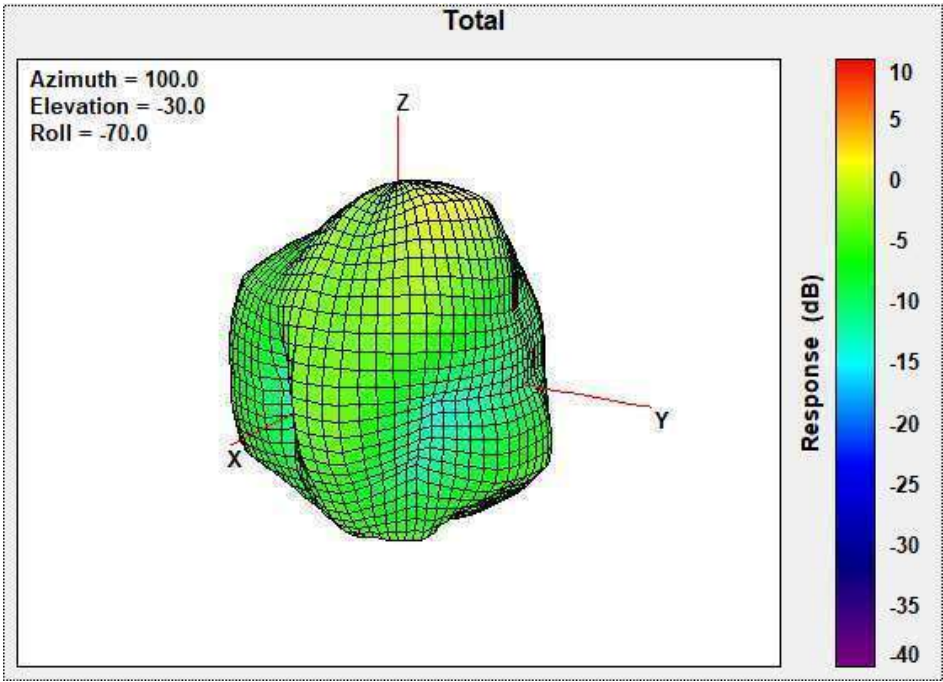
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4400MHz |
| Peak Gain W/ Cable loss (dBi) | 1.22    |

4700MHz



|                               |         |
|-------------------------------|---------|
| Center Frequency              | 4700MHz |
| Peak Gain W/ Cable loss (dBi) | -1.44   |

5000MHz



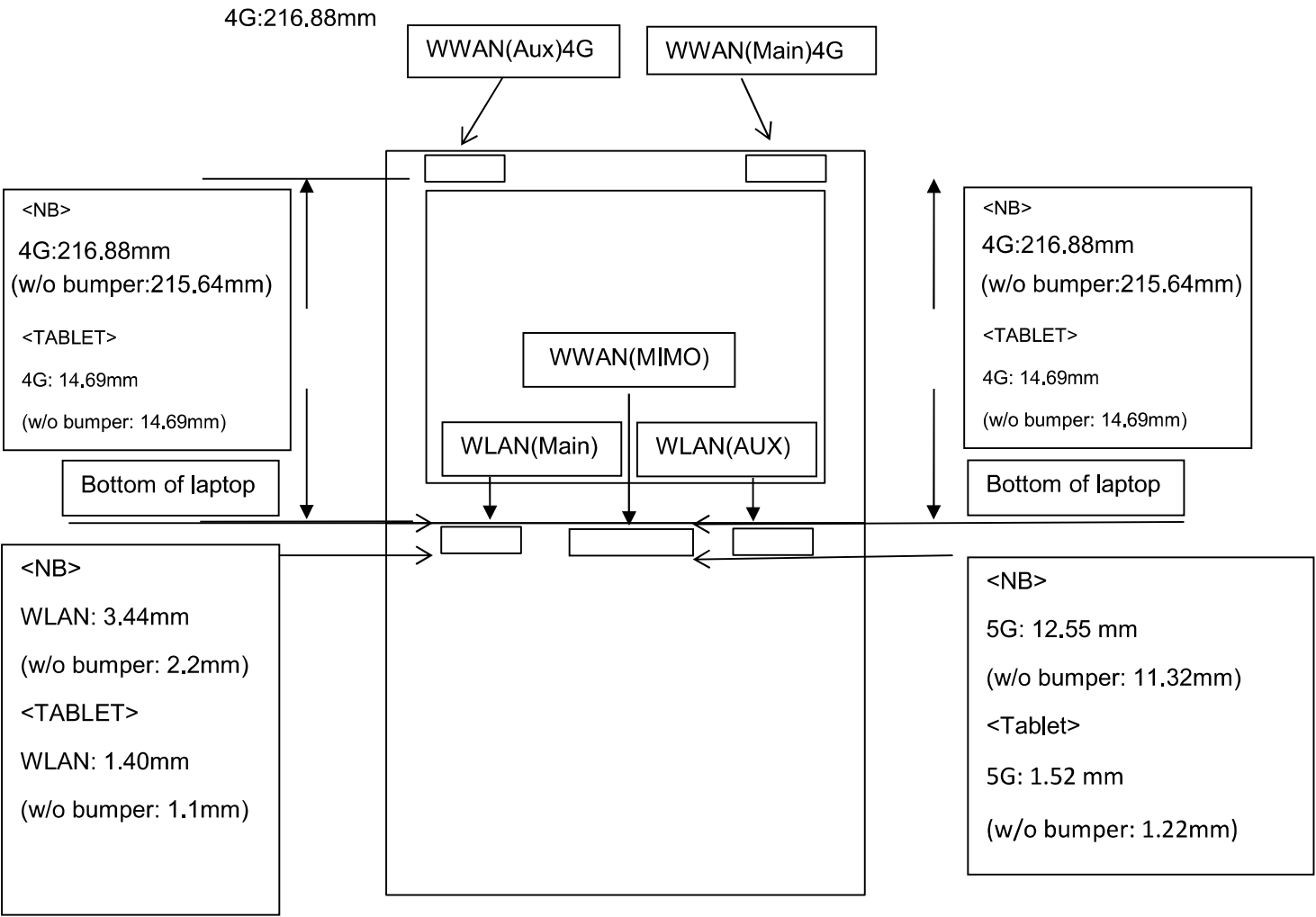
|                               |         |
|-------------------------------|---------|
| Center Frequency              | 5000MHz |
| Peak Gain W/ Cable loss (dBi) | 0.78    |



Section 4. Antenna Host Platform Location Information

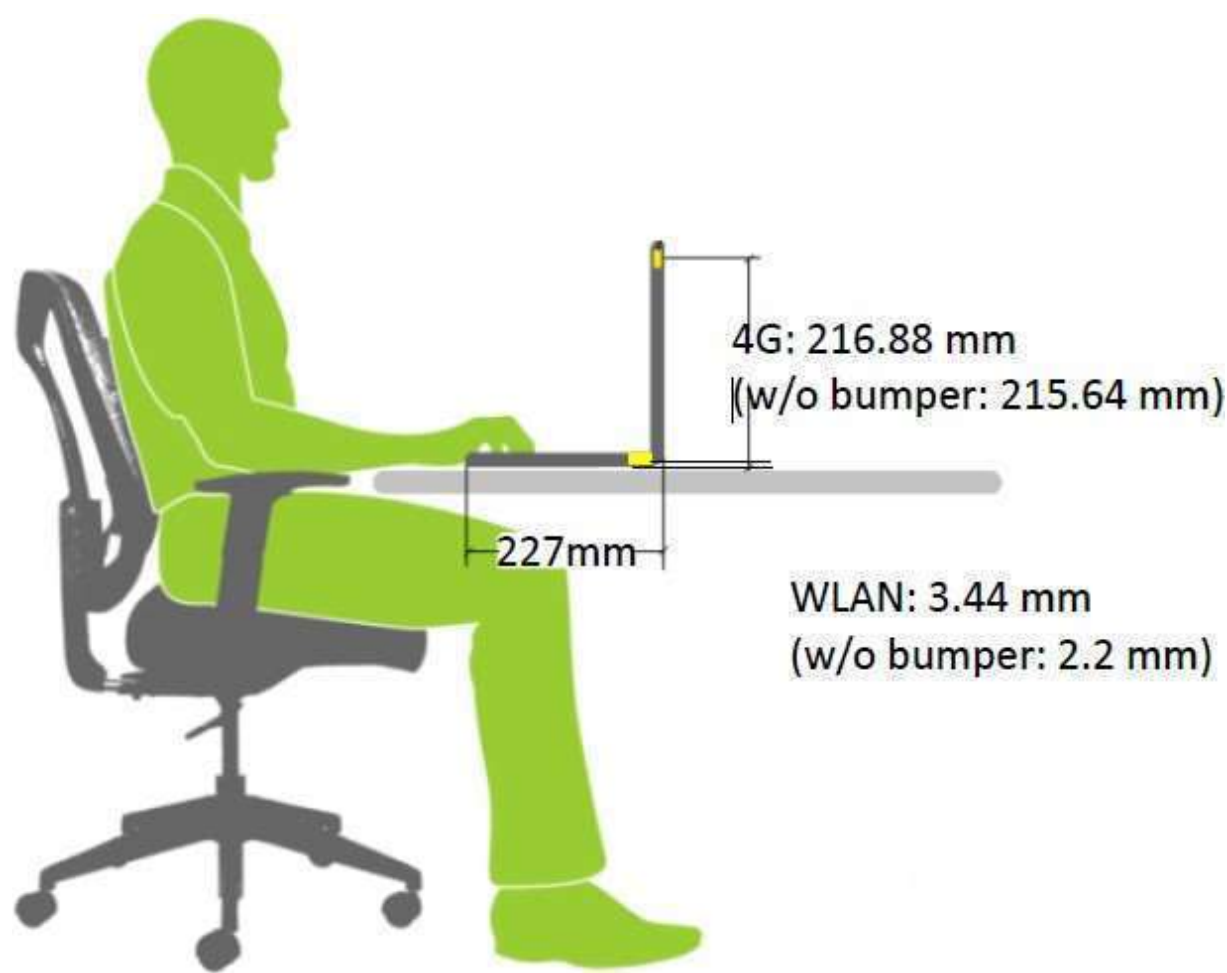
Include a dimensioned photo(s) or dimensioned drawing(s) of Main and Aux antennaplacements (measurements are not required for receive-only antenna). Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding 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)

