

# Regulatory WWAN Antenna Information

|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| Platform         |                                                                         |
| Platform Owner   | DELL                                                                    |
| Brand Name       | DELL                                                                    |
| Model Name       | P175G                                                                   |
| ODM              | Compal                                                                  |
|                  | TB mode                                                                 |
|                  |                                                                         |
| Antenna          |                                                                         |
| Manufacturer     | Auden Techno Corp.                                                      |
| Part Number      | ■ Tx1/Rx1 <a href="#">Antenna</a> WWAN Main/AUX: A22784-00(DC33002RL1L) |
|                  | ■ MIMO2/3 Antenna WWAN: A22785-00(DC33002RH1L)                          |
|                  |                                                                         |
|                  |                                                                         |
|                  |                                                                         |
| Module           |                                                                         |
| With WWAN Module | FM350-GL                                                                |
| (Check Box)      | L860-GL-16                                                              |
|                  |                                                                         |
|                  |                                                                         |
|                  |                                                                         |
|                  |                                                                         |
|                  |                                                                         |

## Antenna Sample / Antenna Data

### Requirements for worldwide regulatory approval

| Section | Description of Required OEM / ODM Antenna Information                                                                                                                                                                        | US / IC  | EU       | Japan    | Taiwan                   | S.Korea                  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|--------------------------|--------------------------|
| 1A      | Part Number for Antenna only                                                                                                                                                                                                 | Required | Required | Required | Required                 | Required                 |
| 1B      | Antenna Manufacturer Name                                                                                                                                                                                                    | Required | Required | Required | Required                 | Required                 |
| 1C      | Description of Antenna Type                                                                                                                                                                                                  | Required | N/A      | N/A      | N/A                      | N/A                      |
| 1D      | Part number of Antenna Assembly / cable impedance, length & diameter.                                                                                                                                                        | Required | Desired  | Desired  | Desired                  | Desired                  |
| 1E      | Tx1, Tx2 & Tx3 antenna (Peak Gain W/ cable loss) *                                                                                                                                                                           | Required | Required | Required | Required                 | Required                 |
|         | 1E OR 1F, 1G, 1H                                                                                                                                                                                                             |          |          |          |                          |                          |
| 1F      | Tx1, Tx2 & Tx3 antenna (Peak Gain only) *                                                                                                                                                                                    | Required | Required | Required | Required                 | Required                 |
| 1G      | VSWR of cable including connector                                                                                                                                                                                            | Required | Required | Required | Required                 | Required                 |
| 1H      | Tx1, Tx2 & Tx3 antenna (Cable loss W/ connector) *                                                                                                                                                                           | Required | Required | Required | Required                 | Required                 |
| 2       | Dimensioned Photographs and Drawings of Tx1, Tx2, and Tx3 (or Rx3) antennas                                                                                                                                                  | Required | Required | Required | Required                 | Required                 |
| 3       | Radiation patterns of antennas loaded in the host platform.                                                                                                                                                                  | Required | Desired  | Required | N/A                      | Required                 |
| 4       | Platform model name / number - correlated to antenna manufacturer and antenna part number                                                                                                                                    | Required | Required | Desired  | Required                 | Desired                  |
| 5       | Photograph(s) or Drawings showing location of antennas in platform. <u>(S. Korea requires photographs of antennas for approval submission).</u><br><u>Taiwan requires pictures of each antenna type shown in the system.</u> | Required | Required | Desired  | <u>Required (Photos)</u> | <u>Required (Photos)</u> |
| 6       | Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).                                                                                         | Required | N/A      | N/A      | N/A                      | N/A                      |
| 7       | Photograph(s) or Drawings showing the location of all antennas (WLAN, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.                 | Required | N/A      | N/A      | N/A                      | N/A                      |
| 8       | Local representative contact information for LMA/ PARS process.                                                                                                                                                              | Required | N/A      | N/A      | N/A                      | N/A                      |

# Antenna Information

## Section 1. Antenna Assembly Specifications

| 1A                                                                           | 1B                 | 1C           | 1D                                                                                                                   | 1E                                | 1F                                | 1G                             | 1H                               |
|------------------------------------------------------------------------------|--------------------|--------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------------------------|
| Antenna Part Number                                                          | Manufacture        | Antenna Type | Cable Assembly Part Number and Information                                                                           | *Peak Gain W/ Cable loss (dBi)    | Peak Gain w/o Cable Loss (dBi)    | VSWR                           | Cable Loss (dBi)                 |
| Tx/Rx1<br>Antenna<br>Auden P/N:<br>A22784-00<br>Customer P/N:<br>DC33002RL1L | Auden Techno Corp. | PIFA         | Cable length: 319mm<br>diameter: 1.13mm<br>50 ohm SLL<br>Coaxial<br>MAIN<br><br>Connector: I-PEX<br>PN:20565-001R-13 | 617-698MHz<br>-8.64 dBi (peak)    | 617-698MHz<br>-8.09 dBi (peak)    | 617-698MHz<br>3.5 max          | 617-698MHz<br>0.55 dBi (peak)    |
|                                                                              |                    |              |                                                                                                                      | 698-821MHz<br>-5.55 dBi (peak)    | 698-821MHz<br>-5 dBi (peak)       | 698-821MHz<br>3.5 max          | 698-821MHz<br>0.55 dBi (peak)    |
|                                                                              |                    |              |                                                                                                                      | 824-960MHz<br>-4.89 dBi (peak)    | 824-960MHz<br>-4.31 dBi (peak)    | 824-960MHz<br>3.5 max          | 824-960MHz<br>0.58 dBi (peak)    |
|                                                                              |                    |              |                                                                                                                      | 1425-1515MHz<br>-8.89 dBi (peak)  | 1425-1515MHz<br>-8.19 dBi (peak)  | 1425-1515MHz<br>3.5 max        | 1425-1515MHz<br>0.70 dBi (peak)  |
|                                                                              |                    |              |                                                                                                                      | 1710-2200MHz<br>-2.16 dBi (peak)  | 1710-2200MHz<br>-1.36 dBi (peak)  | 1710-2200MHz<br>3.5 max        | 1710-2200MHz<br>0.80 dBi (peak)  |
|                                                                              |                    |              |                                                                                                                      | 2300-2690MHz<br>-0.82 dBi (peak)  | 2300-2690MHz<br>0.07 dBi (peak)   | 2300-2690MHz<br>3.5 max        | 2300-2690MHz<br>0.89 dBi (peak)  |
|                                                                              |                    |              |                                                                                                                      | 3400-3800MHz<br>-4.32 dBi (peak)  | 3400-3800MHz<br>-3.26 dBi (peak)  | 3400-3800MHz<br>3.5 max        | 3400-3800MHz<br>1.06 dBi (peak)  |
|                                                                              |                    |              |                                                                                                                      | 4200-4700MHz<br>-2.79 dBi (peak)  | 4200-4700MHz<br>-1.57 dBi (peak)  | 4200-4700MHz<br>3.5 dBi (peak) | 4200-4700MHz<br>1.22 dBi (peak)  |
|                                                                              | Auden Techno Corp. | PIFA         | Cable length: 511mm<br>diameter: 1.13mm<br>50 ohm SLL<br>Coaxial<br>AUX<br><br>Connector: I-PEX<br>PN:20565-001R-13  | 5150-5925MHz<br>-1.37 dBi (peak)  | 5150-5925MHz<br>-0.02 dBi (peak)  | 5150-5925MHz<br>3.5 max        | 5150-5925MHz<br>1.35 dBi (peak)  |
|                                                                              |                    |              |                                                                                                                      | 617-698MHz<br>-9.05 dBi (peak)    | 617-698MHz<br>-8.24 dBi (peak)    | 617-698MHz<br>3.5 max          | 617-698MHz<br>0.81 dBi (peak)    |
|                                                                              |                    |              |                                                                                                                      | 698-821MHz<br>-5.4 dBi (peak)     | 698-821MHz<br>-4.52 dBi (peak)    | 698-821MHz<br>3.5 max          | 698-821MHz<br>0.88 dBi (peak)    |
|                                                                              |                    |              |                                                                                                                      | 824-960MHz<br>-4.67 dBi (peak)    | 824-960MHz<br>-3.75 dBi (peak)    | 824-960MHz<br>3.5 max          | 824-960MHz<br>0.92 dBi (peak)    |
|                                                                              |                    |              |                                                                                                                      | 1425-1515MHz<br>0.32 dBi (peak)   | 1425-1515MHz<br>1.44 dBi (peak)   | 1425-1515MHz<br>3.5 max        | 1425-1515MHz<br>1.12 dBi (peak)  |
|                                                                              |                    |              |                                                                                                                      | 1557-1610 MHz<br>-6.35 dBi (peak) | 1557-1610 MHz<br>-5.21 dBi (peak) | 1557-1610 MHz<br>3.5 max       | 1557-1610 MHz<br>1.14 dBi (peak) |
|                                                                              |                    |              |                                                                                                                      | 1805-2200MHz<br>-3.86 dBi (peak)  | 1805-2200MHz<br>-2.56 dBi (peak)  | 1805-2200MHz<br>3.5 max        | 1805-2200MHz<br>1.3 dBi (peak)   |
|                                                                              |                    |              |                                                                                                                      | 2300-2690MHz<br>0.34 dBi (peak)   | 2300-2690MHz<br>1.77 dBi (peak)   | 2300-2690MHz<br>3.5 max        | 2300-2690MHz<br>1.43 dBi (peak)  |

|  |  |  |  |                                            |                                            |                                          |                                           |
|--|--|--|--|--------------------------------------------|--------------------------------------------|------------------------------------------|-------------------------------------------|
|  |  |  |  | 3400-3800MHz<br><b>-2.33</b> dBi<br>(peak) | 3400-3800MHz<br><b>-0.64</b> dBi<br>(peak) | 3400-3800MHz<br><b>3.5</b> max           | 3400-3800MHz<br><b>1.69</b> dBi<br>(peak) |
|  |  |  |  | 4200-4700MHz<br><b>-2.4</b> dBi<br>(peak)  | 4200-4700MHz<br><b>-0.43</b> dBi<br>(peak) | 4200-4700MHz<br><b>3.5</b> dBi<br>(peak) | 4200-4700MHz<br><b>1.97</b> dBi<br>(peak) |
|  |  |  |  | 5150-5925MHz<br><b>-0.41</b> dBi<br>(peak) | 5150-5925MHz<br><b>1.76</b> dBi<br>(peak)  | 5150-5925MHz<br><b>3.5</b> max           | 5150-5925MHz<br><b>2.17</b> dBi<br>(peak) |

| 1A<br>Antenna Part<br>Number                                                     | 1B<br>Manufacture                 | 1C<br>Antenna<br>Type | 1D<br>Cable Assembly<br>Part Number and<br>Information                                                                     | 1E<br>*Peak Gain W/<br>Cable loss (dBi)    | 1F<br>Peak Gain w/o<br>Cable Loss<br>(dBi) | 1G<br>VSWR                     | 1H<br>Cable Loss<br>(dBi)                 |
|----------------------------------------------------------------------------------|-----------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------|-------------------------------------------|
| Antenna<br><b>Auden P/N:</b><br>A22785-00<br><b>Customer P/N:</b><br>DC33002RH1L | <b>Auden<br/>Techno<br/>Corp.</b> | <b>Coupled</b>        | <b>Cable length:<br/>147.5mm<br/>diameter: 1.13mm<br/>50 ohm LL Coaxial<br/><br/>Connector: I-PEX<br/>PN:20565-001R-13</b> | 1425-1515MHz<br><b>-1.11</b> dBi<br>(peak) | 1425-1515MHz<br><b>-0.79</b> dBi<br>(peak) | 1425-1515MHz<br><b>3.5</b> max | 1425-1515MHz<br><b>0.32</b> dBi<br>(peak) |
|                                                                                  |                                   |                       |                                                                                                                            | 1710-2200MHz<br><b>-1.95</b> dBi<br>(peak) | 1710-2200MHz<br><b>-1.57</b> dBi<br>(peak) | 1710-2200MHz<br><b>3.5</b> max | 1710-2200MHz<br><b>0.38</b> dBi<br>(peak) |
|                                                                                  |                                   |                       |                                                                                                                            | 2300-2690MHz<br><b>-0.43</b> dBi<br>(peak) | 2300-2690MHz<br><b>-0.02</b> dBi<br>(peak) | 2300-2690MHz<br><b>3.5</b> max | 2300-2690MHz<br><b>0.41</b> dBi<br>(peak) |
|                                                                                  |                                   |                       |                                                                                                                            | 3400-3800MHz<br><b>0.38</b> dBi<br>(peak)  | 3400-3800MHz<br><b>0.87</b> dBi<br>(peak)  | 3400-3800MHz<br><b>3.5</b> max | 3400-3800MHz<br><b>0.49</b> dBi<br>(peak) |
|                                                                                  |                                   |                       |                                                                                                                            | 4200-5000MHz<br><b>0.85</b> dBi<br>(peak)  | 4200-5000MHz<br><b>1.42</b> dBi<br>(peak)  | 4200-5000MHz<br><b>3.5</b> max | 4200-5000MHz<br><b>0.57</b> dBi<br>(peak) |
|                                                                                  | <b>Auden<br/>Techno<br/>Corp.</b> | <b>Coupled</b>        | <b>Cable length:<br/>218mm<br/>diameter: 1.13mm<br/>50 ohm LL Coaxial<br/><br/>Connector: I-PEX<br/>PN:20565-001R-13</b>   | 1805-2200MHz<br><b>-1.6</b> dBi<br>(peak)  | 1805-2200MHz<br><b>-1.05</b> dBi<br>(peak) | 1805-2200MHz<br><b>3.5</b> max | 1805-2200MHz<br><b>0.55</b> dBi<br>(peak) |
|                                                                                  |                                   |                       |                                                                                                                            | 2300-2690MHz<br><b>-0.05</b> dBi<br>(peak) | 2300-2690MHz<br><b>0.56</b> dBi<br>(peak)  | 2300-2690MHz<br><b>3.5</b> max | 2300-2690MHz<br><b>0.61</b> dBi<br>(peak) |
|                                                                                  |                                   |                       |                                                                                                                            | 3400-3800MHz<br><b>0.38</b> dBi<br>(peak)  | 3400-3800MHz<br><b>1.1</b> dBi<br>(peak)   | 3400-3800MHz<br><b>3.5</b> max | 3400-3800MHz<br><b>0.72</b> dBi<br>(peak) |
|                                                                                  |                                   |                       |                                                                                                                            | 4200-5000MHz<br><b>1.52</b> dBi<br>(peak)  | 4200-5000MHz<br><b>2.36</b> dBi<br>(peak)  | 4200-5000MHz<br><b>3.5</b> max | 4200-5000MHz<br><b>0.84</b> dBi<br>(peak) |

- Antenna Peak Gain required being test in system basis.
- 1E frame contend absolutely peak antenna gain include H/V

## Antenna Peak Gain Table: Low and middle band

| Frequency<br>(MHz) | PTx antenna |          | DRx antenna |          |
|--------------------|-------------|----------|-------------|----------|
|                    | Horizontal  | Vertical | Horizontal  | Vertical |
|                    | (dBi)       | (dBi)    | (dBi)       | (dBi)    |
| 617                | -16.58      | -16.91   | -10.75      | -11.23   |
| 634.5              | -14.71      | -15.93   | -9.61       | -10.05   |
| 652                | -13.12      | -13.42   | -9.05       | -9.35    |
| 663                | -13.15      | -12.14   |             |          |
| 680.5              | -10.41      | -9.48    |             |          |
| 698                | -8.64       | -8.89    |             |          |
| 703                | -11.73      | -11.06   |             |          |
| 707.5              | -11.53      | -10.75   |             |          |
| 717                | -10.04      | -9.93    | -8.01       | -8.27    |
| 725.5              | -8.85       | -9.31    | -7.21       | -8.12    |
| 748                | -6.47       | -7.52    | -7.67       | -7.61    |
| 756                | -6.03       | -6.83    | -7.51       | -8.13    |
| 768                | -5.55       | -6.54    | -7.13       | -7.74    |
| 777                | -5.81       | -6.39    | -7.35       | -6.42    |
| 782                | -5.93       | -6.46    | -7.33       | -6.39    |
| 787                | -6.17       | -6.70    | -7.57       | -6.55    |
| 791                |             |          | -10.24      | -7.83    |
| 806                |             |          | -7.13       | -5.69    |
| 814                | -6.83       | -7.33    | -5.40       | -6.94    |
| 821                |             |          | -5.99       | -6.84    |
| 824                | -7.41       | -8.47    | -6.27       | -7.07    |
| 832                | -7.58       | -9.18    | -7.54       | -6.93    |
| 836.5              | -8.09       | -8.95    | -8.17       | -7.06    |
| 849                | -8.56       | -9.57    | -7.68       | -6.94    |
| 862                | -9.35       | -9.65    | -8.00       | -7.57    |
| 880                | -5.80       | -7.40    | -6.12       | -7.68    |
| 897.5              | -4.89       | -8.62    | -6.54       | -8.56    |
| 915                | -5.90       | -9.34    | -7.39       | -7.81    |
| 925                | -7.07       | -9.37    | -7.82       | -7.12    |
| 960                | -7.46       | -9.39    | -4.67       | -5.11    |
| 1427.9             | -10.97      | -9.74    | 0.32        | -4.33    |
| 1447.9             | -10.41      | -10.05   | -0.73       | -4.01    |
| 1455.4             | -10.51      | -10.23   | -1.32       | -4.09    |
| 1462.9             | -10.95      | -10.80   | -1.34       | -4.55    |
| 1496               | -11.45      | -9.55    | -4.04       | -6.61    |
| 1510.9             | -12.38      | -8.89    | -5.40       | -6.50    |
| 1557               |             |          | -6.35       | -6.46    |

|      |  |  |       |       |
|------|--|--|-------|-------|
| 1575 |  |  | -6.68 | -6.90 |
| 1610 |  |  | -7.02 | -7.30 |

**High band**

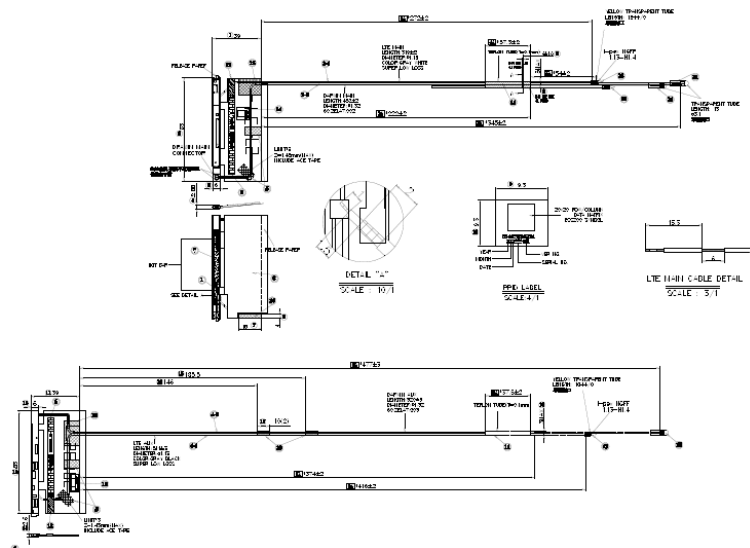
|                            | <b>PTx antenna</b> |                 | <b>DRx antenna</b> |                 |
|----------------------------|--------------------|-----------------|--------------------|-----------------|
| <b>Frequency<br/>(MHz)</b> | <b>Horizontal</b>  | <b>Vertical</b> | <b>Horizontal</b>  | <b>Vertical</b> |
|                            | <b>(dBi)</b>       | <b>(dBi)</b>    | <b>(dBi)</b>       | <b>(dBi)</b>    |
| 1710                       | -6.63              | -7.29           |                    |                 |
| 1732.5                     | -7.34              | -6.15           |                    |                 |
| 1747.5                     | -7.61              | -6.25           |                    |                 |
| 1755                       | -7.30              | -6.06           |                    |                 |
| 1785                       | -7.56              | -6.76           |                    |                 |
| 1805                       | -7.04              | -6.80           | -6.52              | -6.08           |
| 1850                       | -4.96              | -6.63           | -7.94              | -8.08           |
| 1880                       | -3.67              | -4.85           | -7.22              | -8.97           |
| 1910                       | -3.36              | -2.76           | -7.28              | -7.82           |
| 1920                       | -2.49              | -2.78           | -7.22              | -7.42           |
| 1950                       | -2.21              | -3.01           | -7.01              | -6.37           |
| 1980                       | -2.16              | -3.93           | -6.75              | -6.17           |
| 2110                       | -4.62              | -4.87           | -4.49              | -5.42           |
| 2200                       | -3.87              | -5.42           | -3.86              | -4.60           |
| 2300                       | -1.20              | -2.75           | 0.34               | -1.38           |
| 2305                       | -1.15              | -2.68           | -0.06              | -1.44           |
| 2315                       | -0.82              | -2.68           | -0.24              | -1.82           |
| 2350                       | -1.64              | -5.36           | -1.52              | -3.44           |
| 2400                       | -3.14              | -5.38           | -1.89              | -3.93           |
| 2500                       | -5.78              | -8.09           | -2.02              | -4.26           |
| 2570                       | -6.63              | -8.84           | -1.70              | -4.37           |
| 2595                       | -5.90              | -8.07           | -1.77              | -4.51           |
| 2620                       | -5.04              | -7.93           | -2.21              | -4.98           |
| 2690                       | -5.10              | -7.21           | -0.96              | -4.37           |
| 3400                       | -4.32              | -7.90           | -2.33              | -5.19           |
| 3500                       | -8.37              | -11.88          | -2.91              | -4.84           |
| 3600                       | -7.85              | -8.20           | -3.33              | -5.97           |
| 3700                       | -7.10              | -6.25           | -4.37              | -7.95           |
| 3800                       | -5.03              | -4.50           | -6.82              | -6.68           |
| 4200                       | -5.90              | -7.14           | -7.20              | -7.28           |
| 4400                       | -6.15              | -7.49           | -2.40              | -3.85           |
| 4700                       | -2.79              | -4.55           | -4.11              | -4.52           |
| 5150                       | -2.12              | -1.37           | -2.97              | -0.41           |
| 5537.5                     | -2.57              | -1.83           | -5.91              | -3.81           |
| 5925                       | -4.49              | -2.51           | -3.36              | -5.86           |

|                    | DRx2 antenna |          | DRx1 antenna |          |
|--------------------|--------------|----------|--------------|----------|
| Frequency<br>(MHz) | Horizontal   | Vertical | Horizontal   | Vertical |
|                    | (dBi)        | (dBi)    | (dBi)        | (dBi)    |
| 1452               | -1.11        | -2.87    |              |          |
| 1474               | -1.89        | -3.48    |              |          |
| 1496               | -2.01        | -3.79    |              |          |
| 1710               | -2.79        | -3.82    |              |          |
| 1732.5             | -1.99        | -5.75    |              |          |
| 1747.5             | -2.06        | -6.01    |              |          |
| 1755               | -2.04        | -5.97    |              |          |
| 1785               | -2.46        | -7.12    |              |          |
| 1805               | -2.96        | -7.43    | -3.18        | -4.65    |
| 1850               | -4.18        | -5.88    | -2.91        | -5.26    |
| 1880               | -2.87        | -5.23    | -2.30        | -4.42    |
| 1910               | -2.51        | -5.25    | -1.60        | -3.86    |
| 1920               | -2.89        | -5.27    | -2.04        | -3.91    |
| 1950               | -3.58        | -4.39    | -2.34        | -3.68    |
| 1980               | -2.53        | -4.30    | -1.90        | -4.69    |
| 2110               | -1.95        | -4.05    | -3.89        | -4.75    |
| 2200               | -2.19        | -2.80    | -3.45        | -4.80    |
| 2300               | -0.64        | -1.23    | -0.05        | -3.15    |
| 2305               | -0.45        | -1.11    | -0.62        | -2.80    |
| 2315               | -0.62        | -0.97    | -0.60        | -3.25    |
| 2350               | -1.58        | -1.18    | -1.24        | -4.43    |
| 2400               | -1.86        | -1.67    | -1.55        | -4.17    |
| 2500               | -0.92        | -1.59    | -0.25        | -2.70    |
| 2570               | -1.06        | -2.00    | -1.98        | -4.60    |
| 2595               | -0.43        | -2.25    | -2.44        | -3.96    |
| 2620               | -0.89        | -2.14    | -2.27        | -3.78    |
| 2690               | -1.60        | -1.58    | -1.35        | -3.71    |
| 3400               | 0.38         | -1.50    | 0.01         | -2.52    |
| 3500               | 0.13         | -2.01    | 0.38         | -2.57    |
| 3600               | -0.15        | -1.62    | -1.15        | -2.16    |
| 3700               | -0.46        | -2.38    | -0.49        | -2.48    |
| 3800               | -0.92        | -1.70    | -1.41        | -3.29    |
| 4200               | -0.56        | -0.37    | -1.66        | -1.44    |
| 4400               | -0.12        | -0.73    | -0.21        | 1.52     |
| 4700               | -3.74        | -3.75    | -0.89        | -0.77    |
| 5000               | -1.26        | 0.85     | -3.95        | -3.88    |

Section 2. Dimensioned Photos or Drawings of Antennas

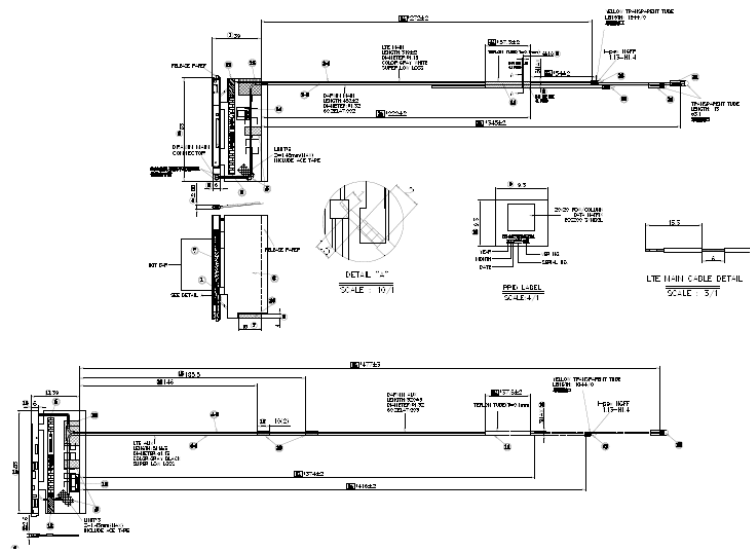
Include a dimensioned photo and dimensioned drawing of Main antenna here.

TPx Antenna Dimensioned Drawing:



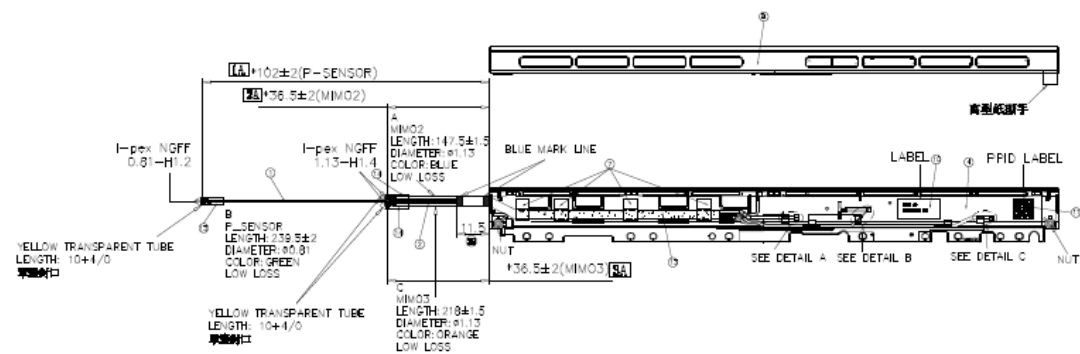
Include a dimensioned photo and dimensioned drawing of Aux antenna here.

DRx Antenna Dimensioned Drawing:



Include a dimensioned photo and dimensioned drawing of Aux antenna here.

DRx2 Antenna Dimensioned Drawing:



**(A) \*102±2(P-SENSOR)**

**(B) \*36.5±2(MIMO2)**

I-peck NGFF  
0.81-H1.2

I-peck NGFF  
1.13-H1.4

A MIMO2  
LENGTH:147.5±1.5  
DIAMETER:φ11.3  
COLOR:BLUE  
LOW LOSS

B F-SENSOR  
LENGTH:239.5±2  
DIAMETER:φ9.81  
COLOR:GREEN  
LOW LOSS

C MIMO3  
LENGTH:218±1.5  
DIAMETER:φ11.3  
COLOR:ORANGE  
LOW LOSS

YELLOW TRANSPARENT TUBE  
LENGTH: 10+/-0  
両面開口

YELLOW TRANSPARENT TUBE  
LENGTH: 10+/-0  
両面開口

BLUE MARK LINE

LABEL

FPID LABEL

NUT

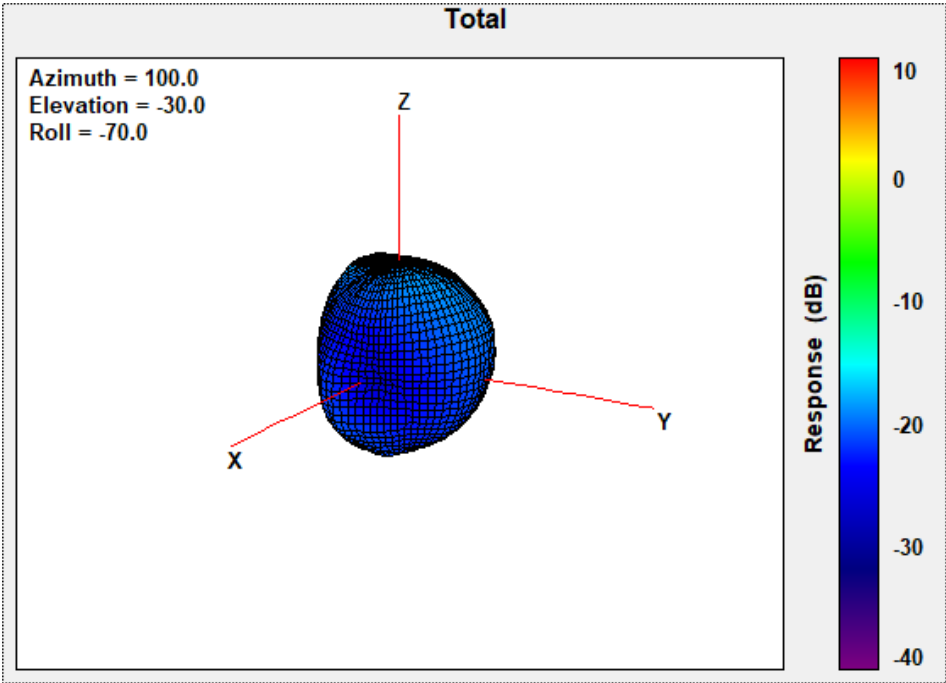
\*36.5±2(MIMO3) (S4)

SEE DETAIL A SEE DETAIL B SEE DETAIL C

高型取組手

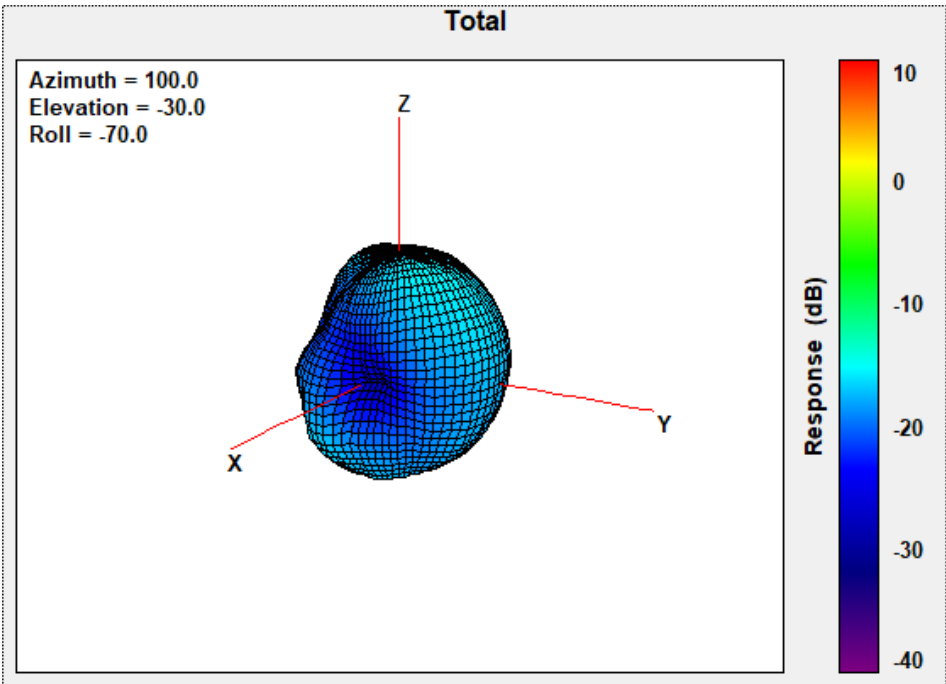
**Section 3. Radiation characteristics of antennae Loaded in Host Platform**  
**WWAN Main Antenna (PTx)**

617MHz



|                       |         |
|-----------------------|---------|
| Center Frequency      | 617 MHz |
| Horizontal (dBi) peak | -16.58  |
| Vertical (dBi) peak   | -16.91  |

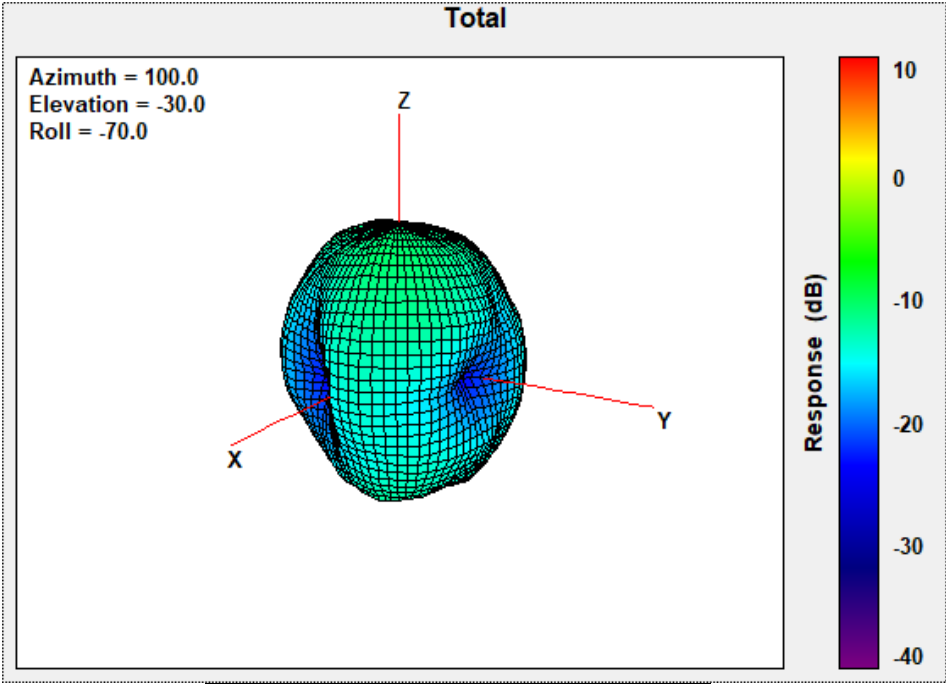
634.5MHz



|                       |          |
|-----------------------|----------|
| Center Frequency      | 634.5MHz |
| Horizontal (dBi) peak | -14.71   |

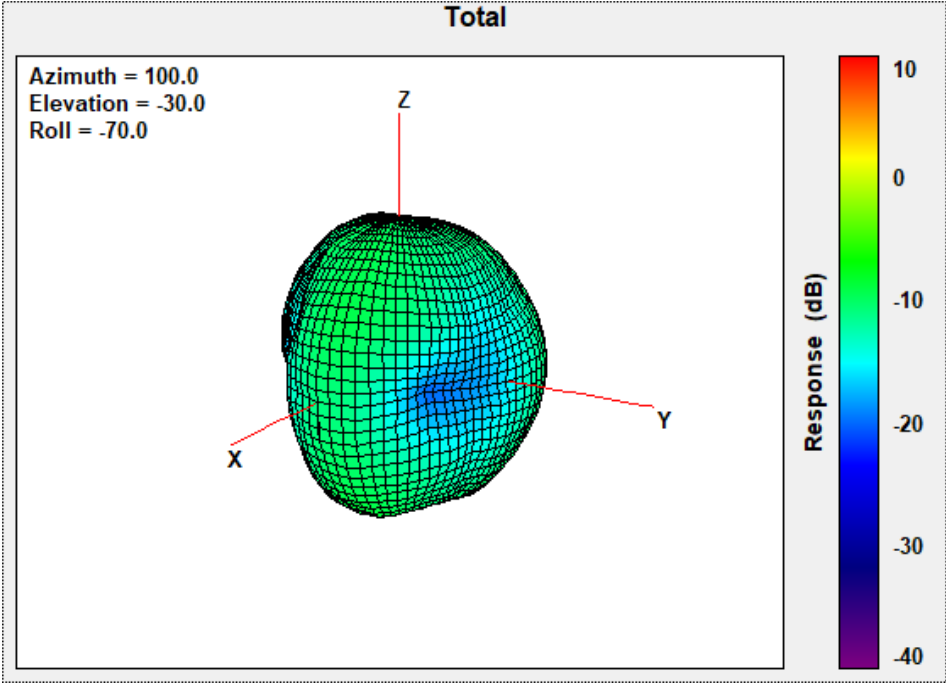
|                     |        |
|---------------------|--------|
| Vertical (dBi) peak | -15.93 |
|---------------------|--------|

652MHz



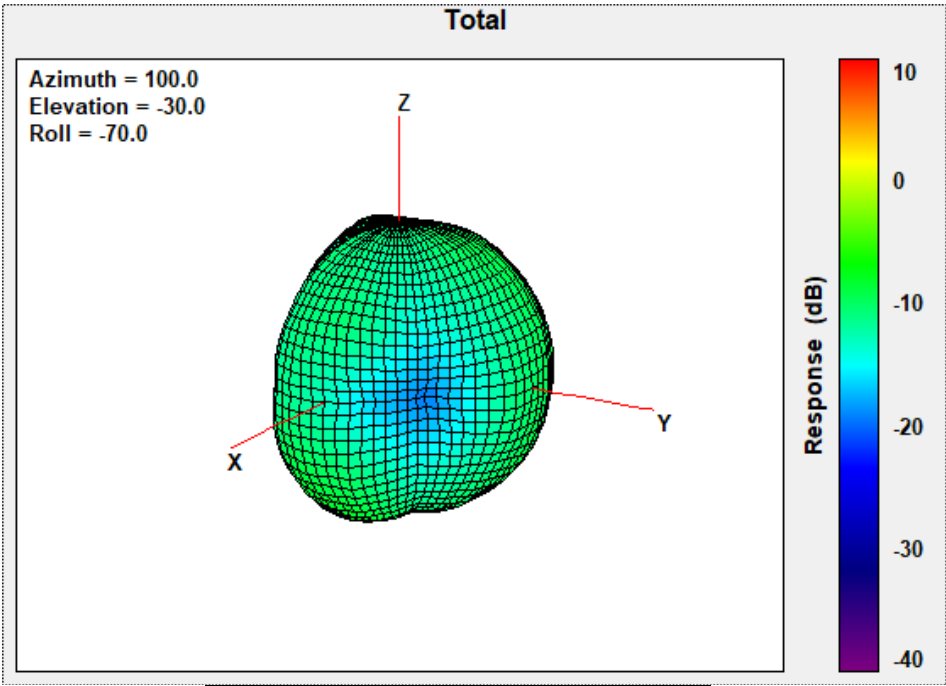
|                       |        |
|-----------------------|--------|
| Center Frequency      | 652MHz |
| Horizontal (dBi) peak | -13.12 |
| Vertical (dBi) peak   | -13.42 |

663MHz



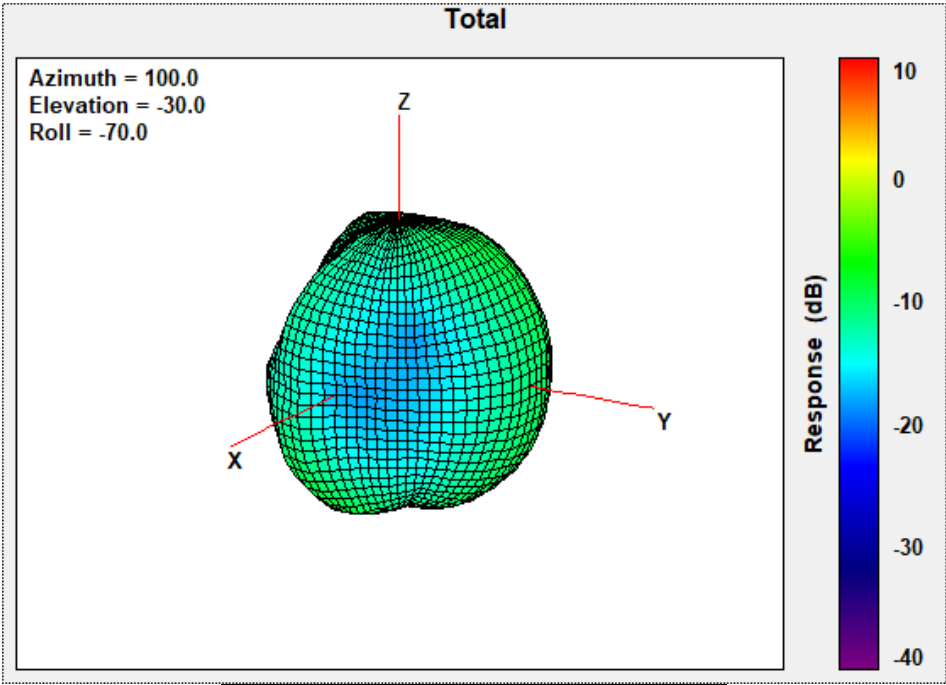
|                       |        |
|-----------------------|--------|
| Center Frequency      | 663MHz |
| Horizontal (dBi) peak | -13.15 |
| Vertical (dBi) peak   | -12.14 |

680.5MHz



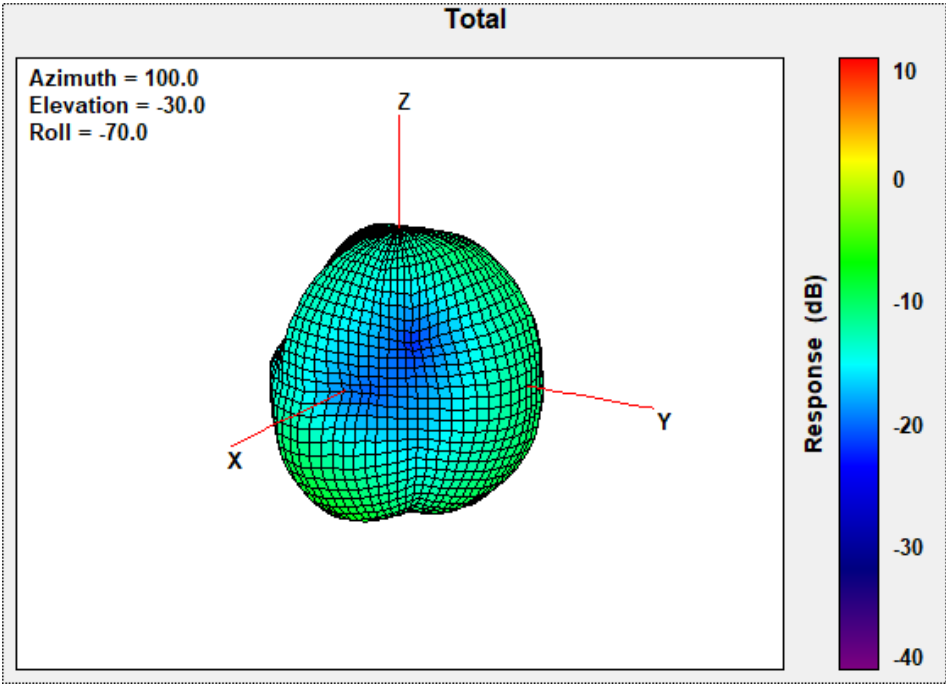
|                       |           |
|-----------------------|-----------|
| Center Frequency      | 680.5 MHz |
| Horizontal (dBi) peak | -10.41    |
| Vertical (dBi) peak   | -9.48     |

698MHz



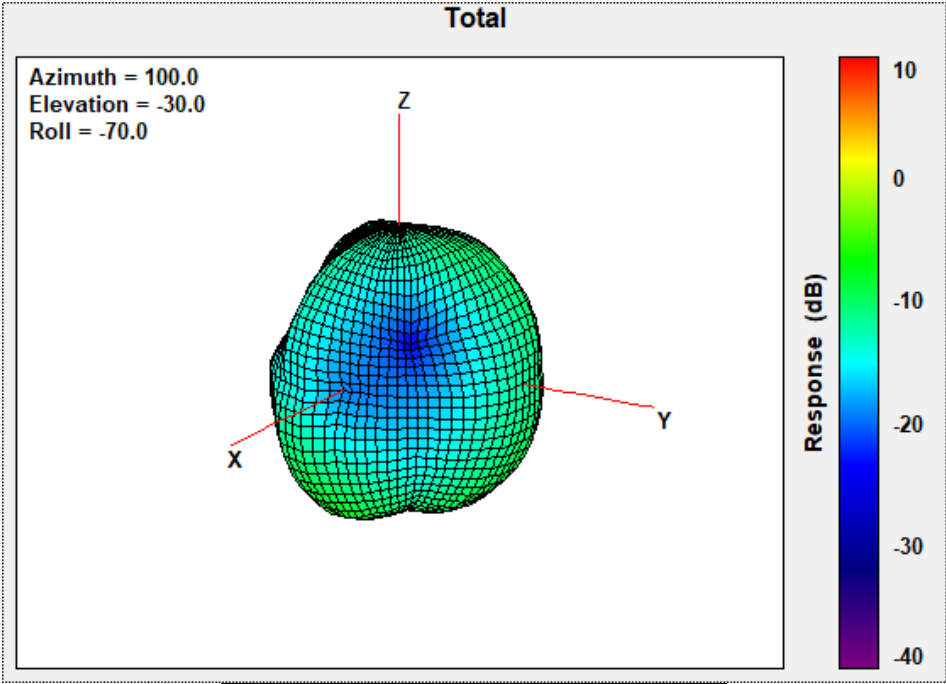
|                       |        |
|-----------------------|--------|
| Center Frequency      | 698MHz |
| Horizontal (dBi) peak | -8.64  |
| Vertical (dBi) peak   | -8.89  |

703MHz



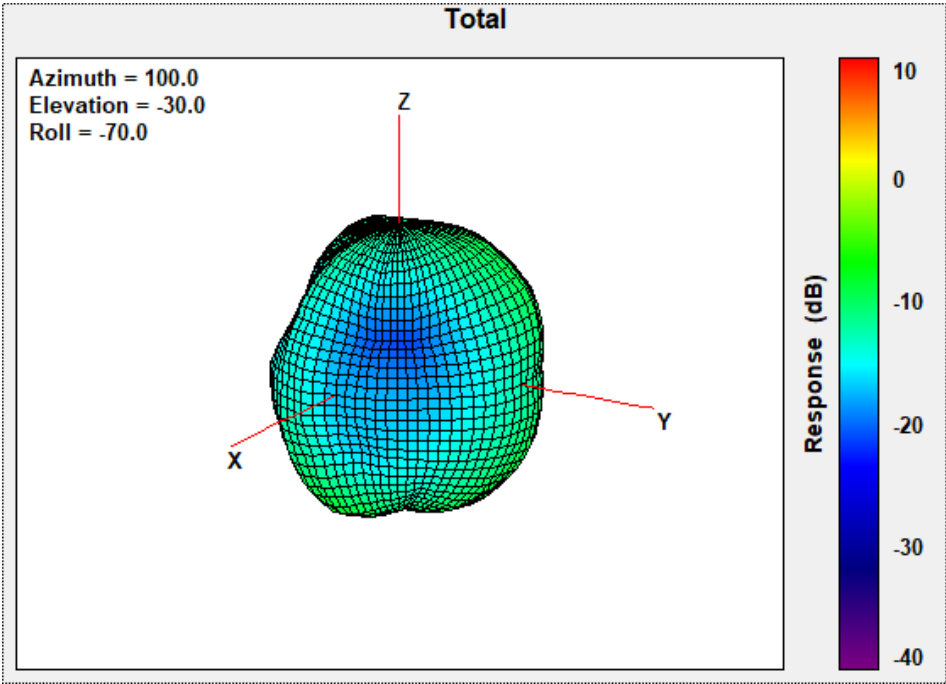
|                       |         |
|-----------------------|---------|
| Center Frequency      | 703 MHz |
| Horizontal (dBi) peak | -11.73  |
| Vertical (dBi) peak   | -11.06  |

707.5MHz



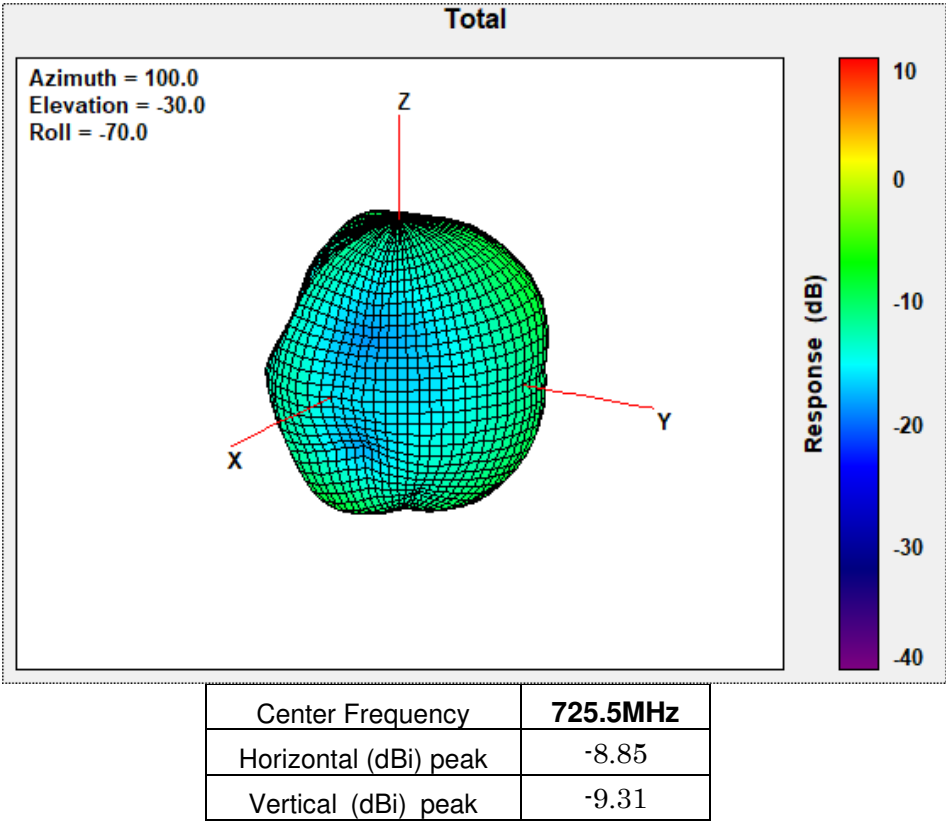
|                       |          |
|-----------------------|----------|
| Center Frequency      | 707.5MHz |
| Horizontal (dBi) peak | -11.53   |
| Vertical (dBi) peak   | -10.75   |

717MHz

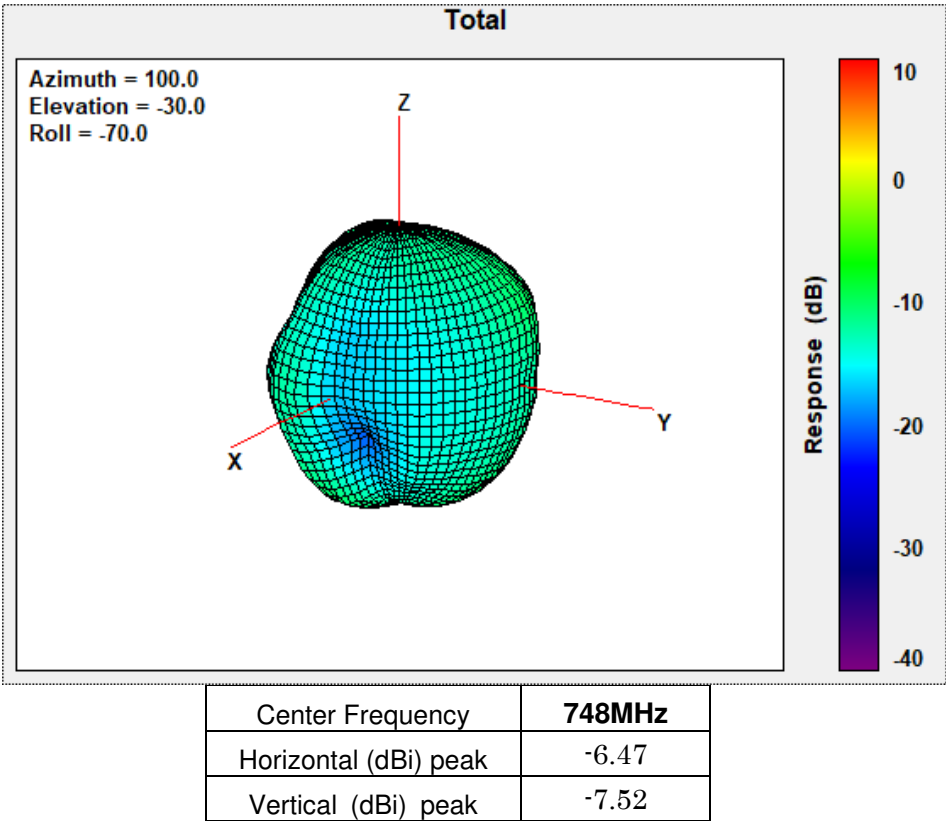


|                       |        |
|-----------------------|--------|
| Center Frequency      | 717MHz |
| Horizontal (dBi) peak | -10.04 |
| Vertical (dBi) peak   | -9.93  |

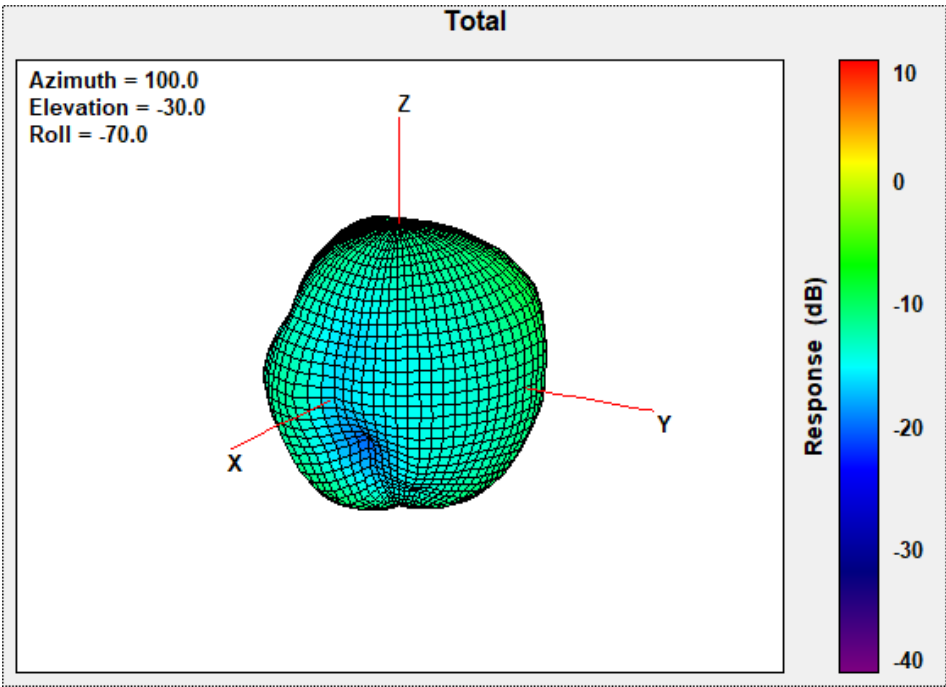
725.5MHz



748MHz

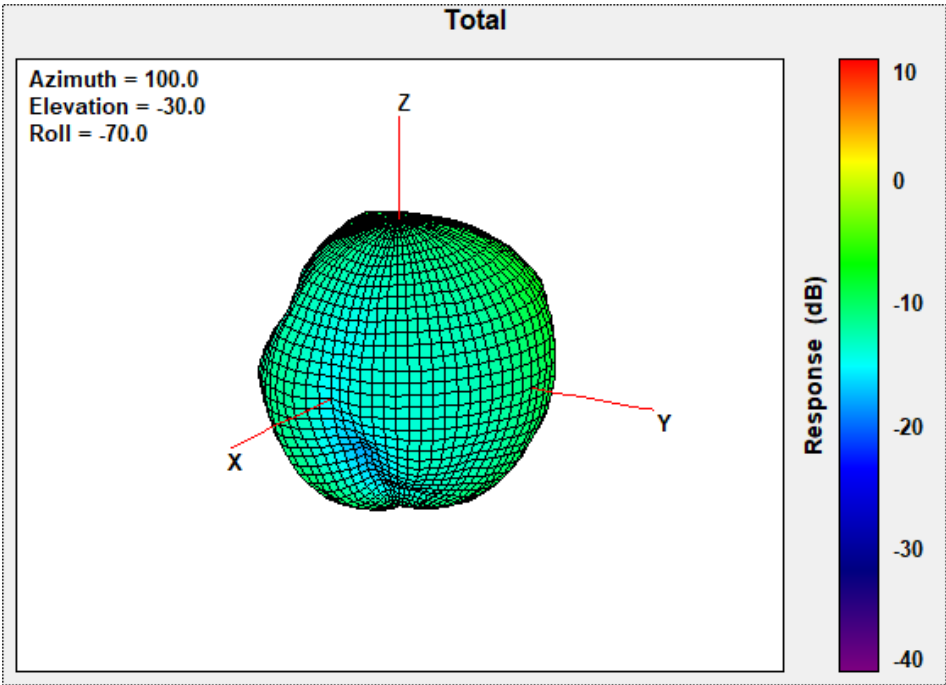


756MHz



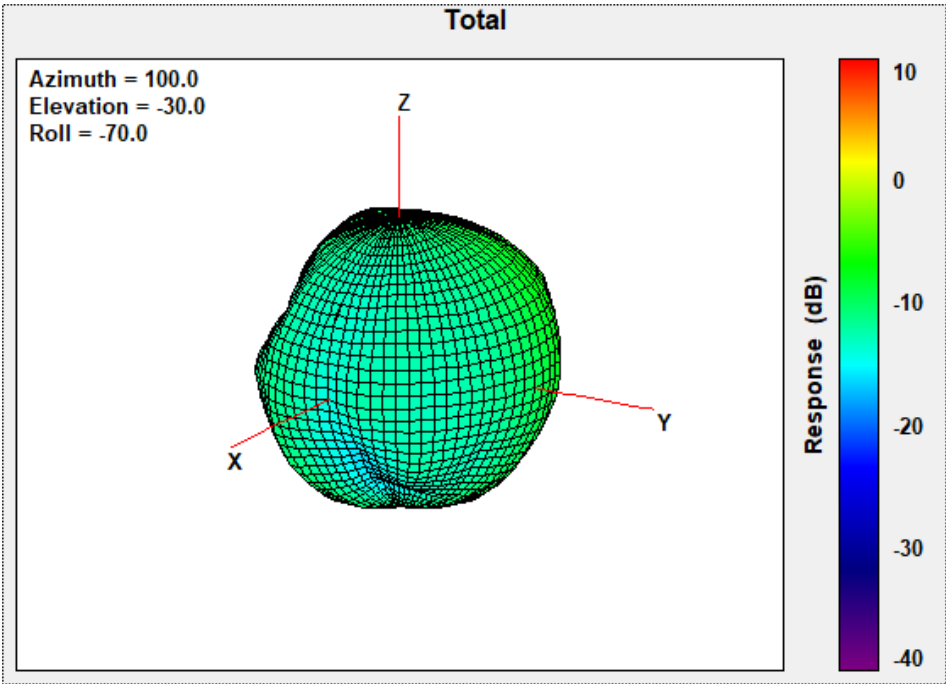
|                       |        |
|-----------------------|--------|
| Center Frequency      | 756MHz |
| Horizontal (dBi) peak | -6.03  |
| Vertical (dBi) peak   | -6.83  |

768MHz



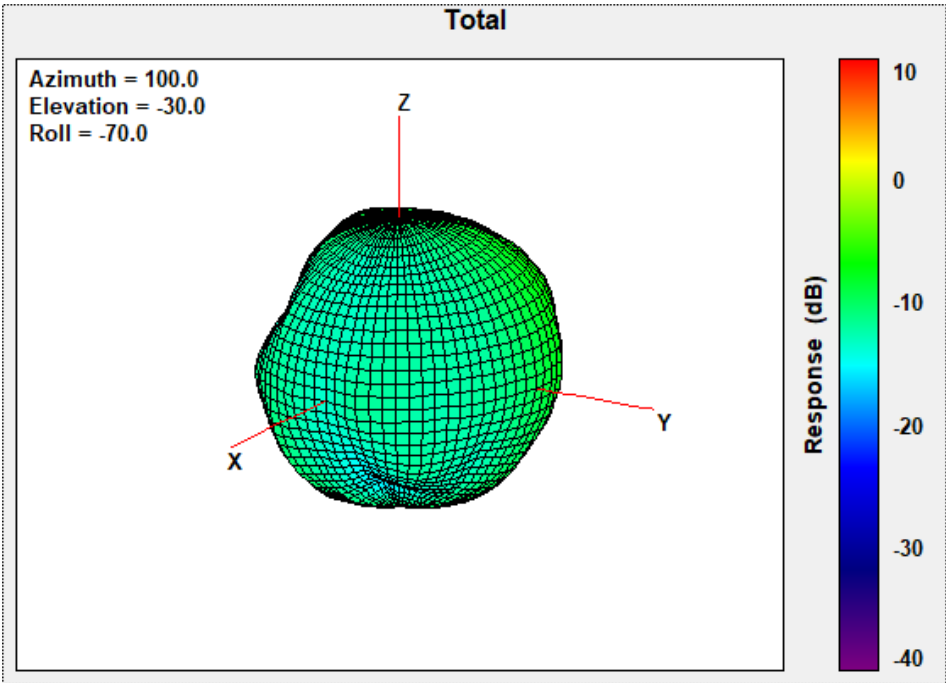
|                       |        |
|-----------------------|--------|
| Center Frequency      | 768MHz |
| Horizontal (dBi) peak | -5.55  |
| Vertical (dBi) peak   | -6.54  |

777MHz



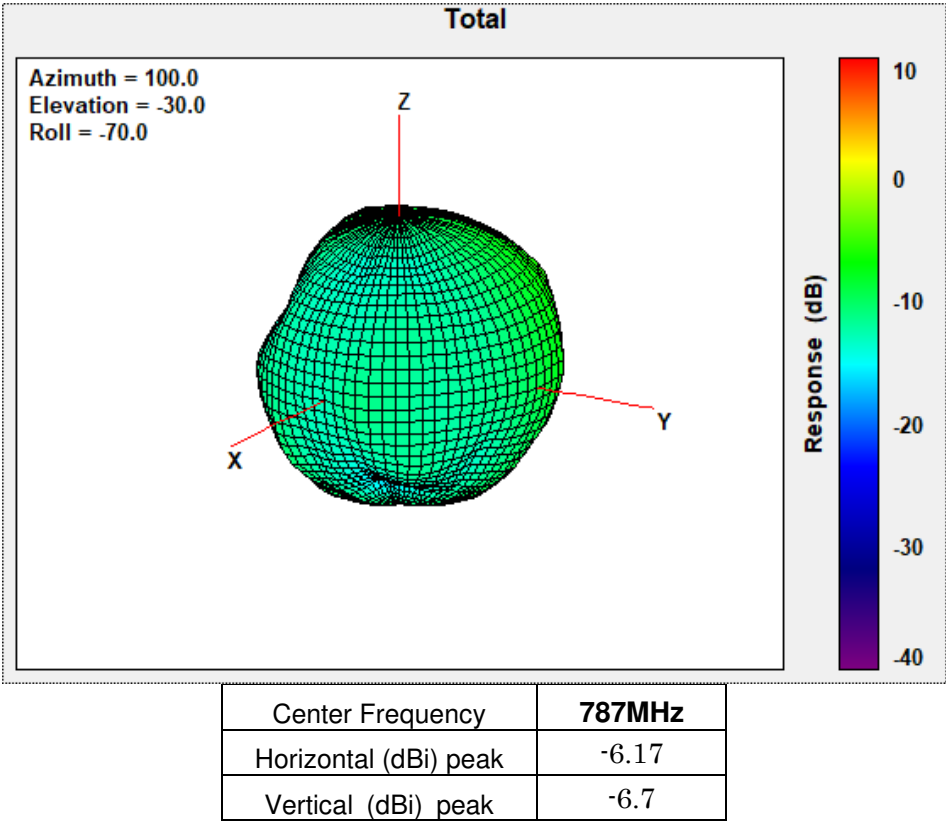
|                       |        |
|-----------------------|--------|
| Center Frequency      | 777MHz |
| Horizontal (dBi) peak | -5.81  |
| Vertical (dBi) peak   | -6.39  |

782MHz

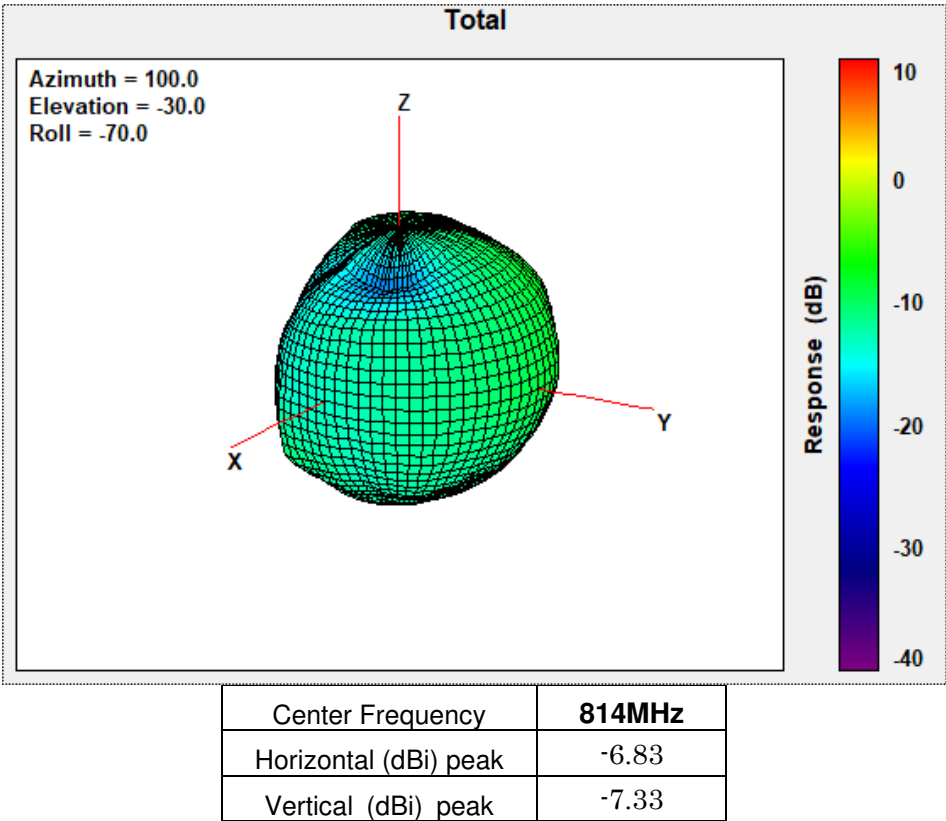


|                       |        |
|-----------------------|--------|
| Center Frequency      | 782MHz |
| Horizontal (dBi) peak | -5.93  |
| Vertical (dBi) peak   | -6.46  |

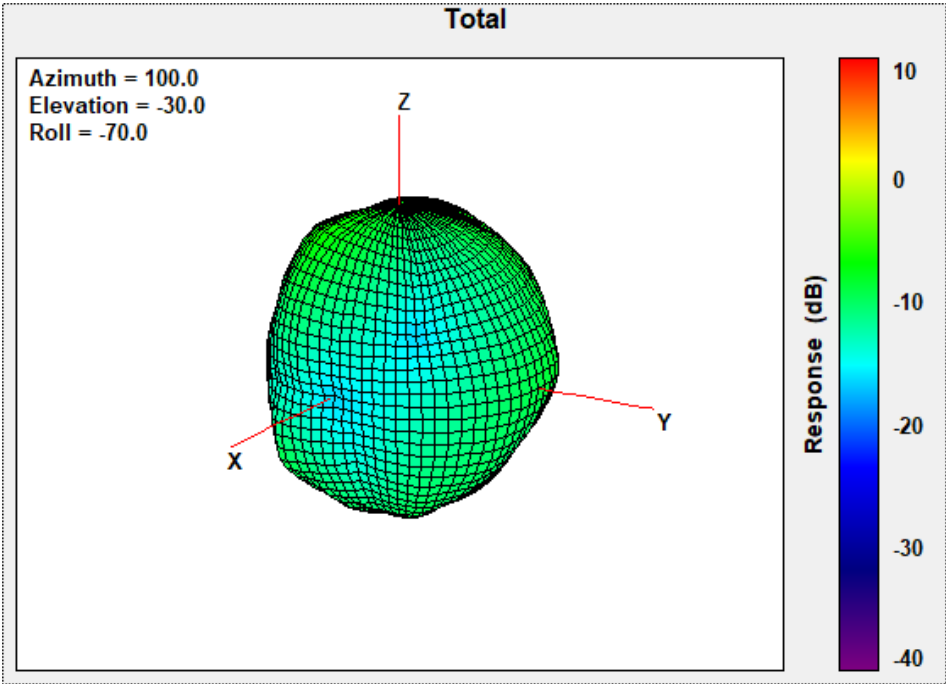
787MHz



814MHz

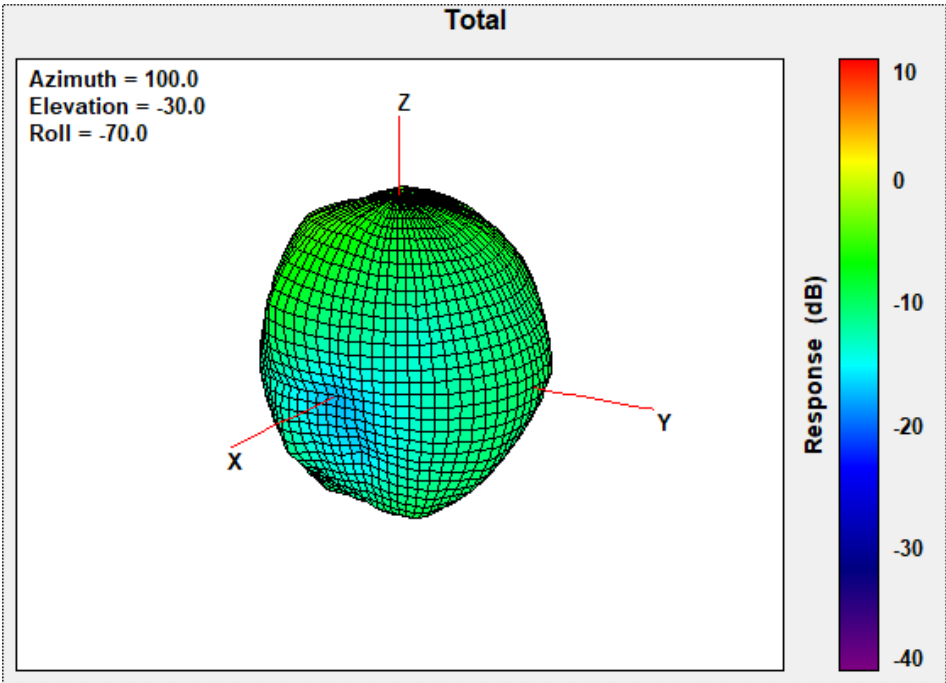


824MHz



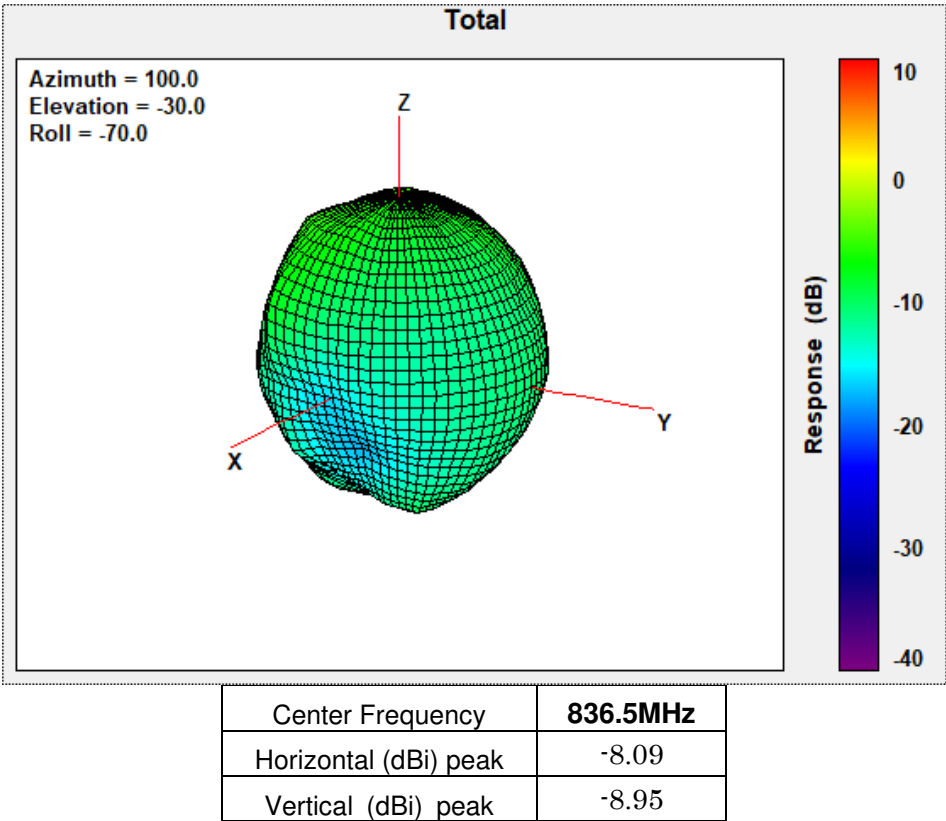
|                       |        |
|-----------------------|--------|
| Center Frequency      | 824MHz |
| Horizontal (dBi) peak | -7.41  |
| Vertical (dBi) peak   | -8.47  |

832MHz

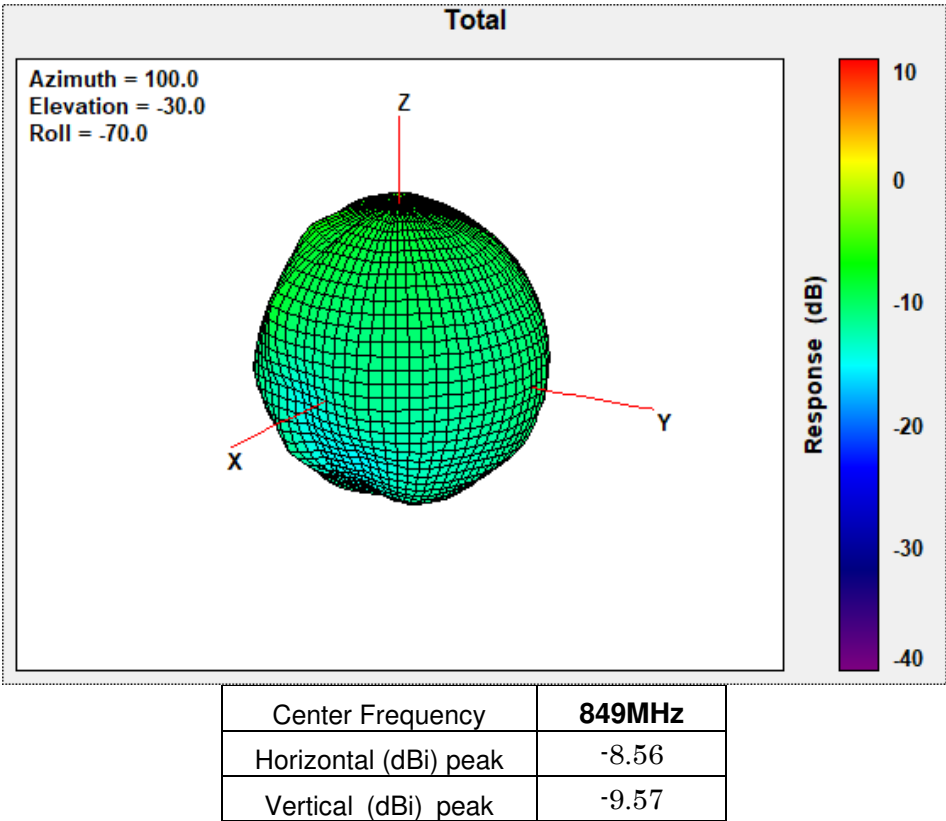


|                       |        |
|-----------------------|--------|
| Center Frequency      | 832MHz |
| Horizontal (dBi) peak | -7.58  |
| Vertical (dBi) peak   | -9.18  |

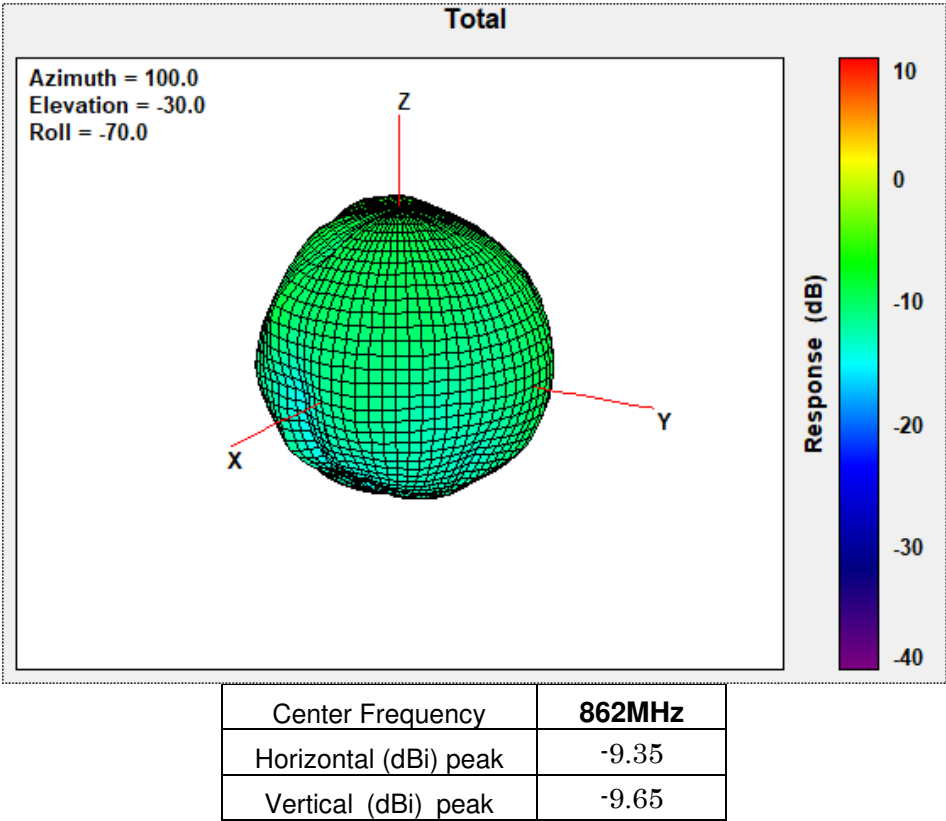
836.5MHz



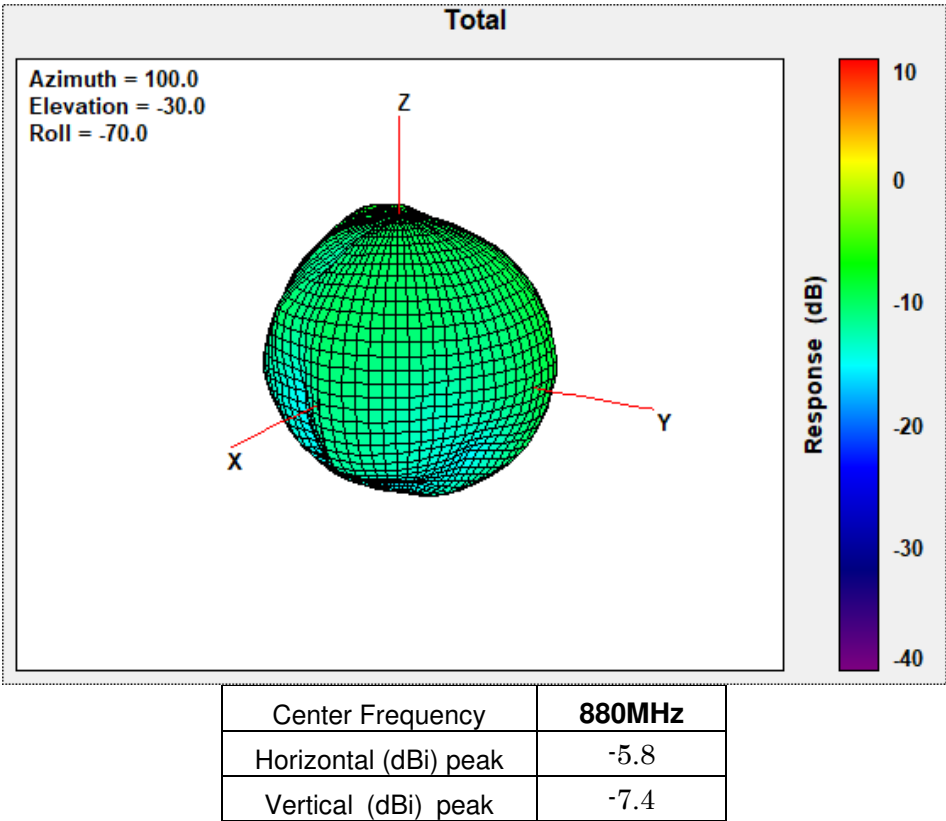
849MHz



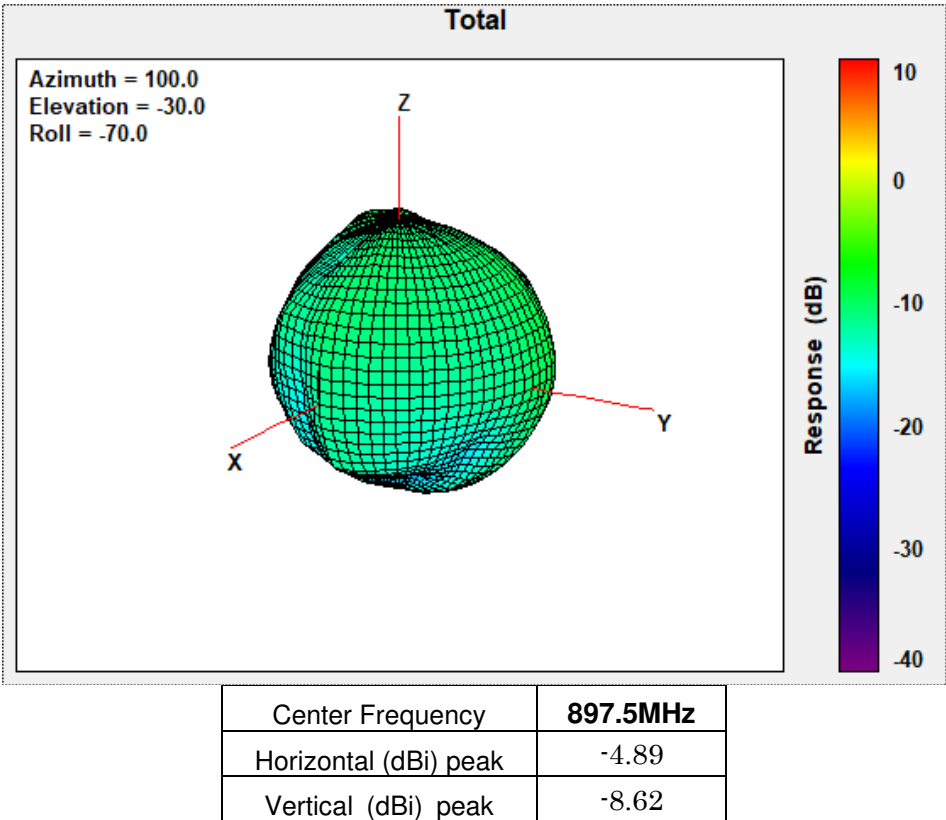
862MHz



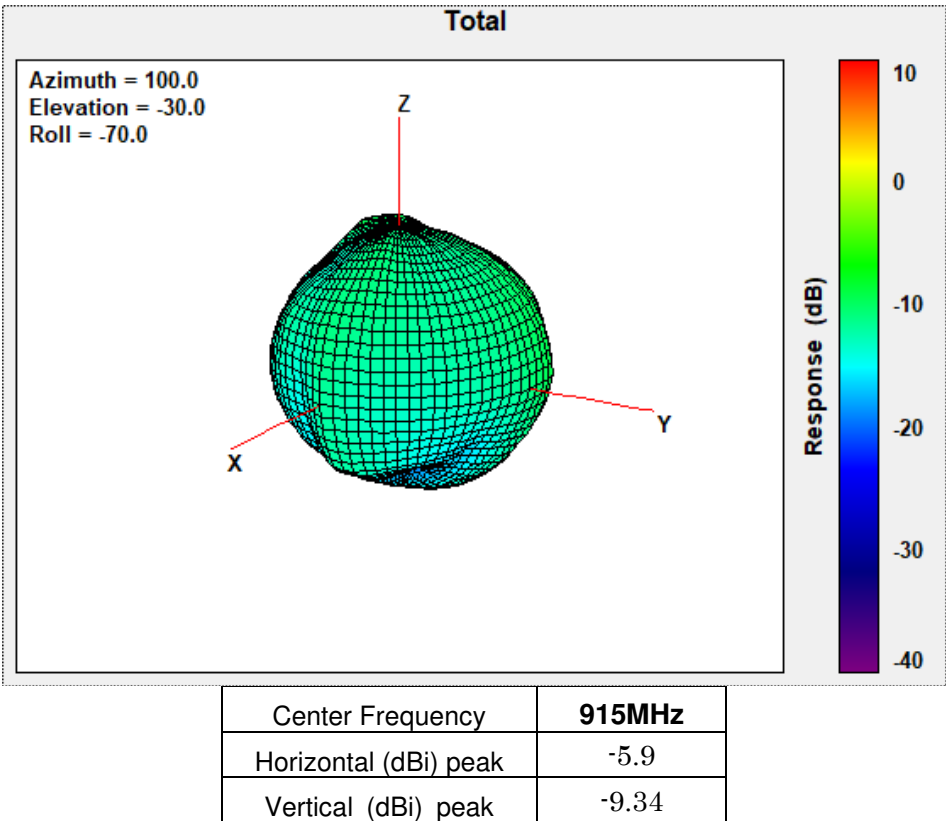
880MHz



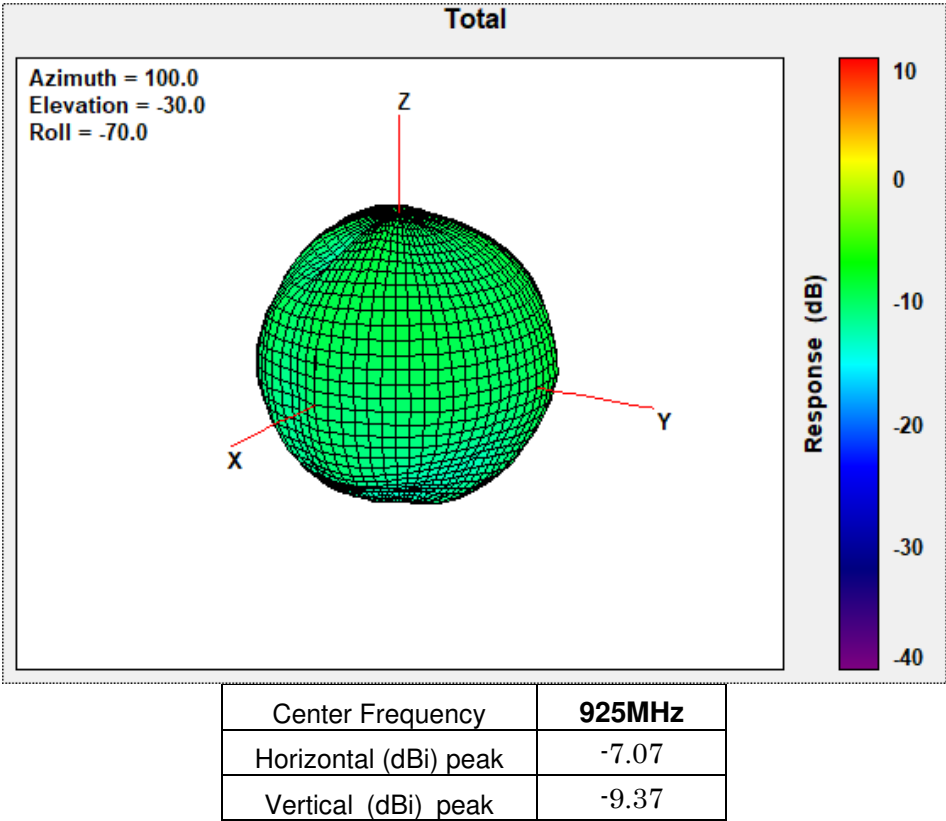
897.5MHz



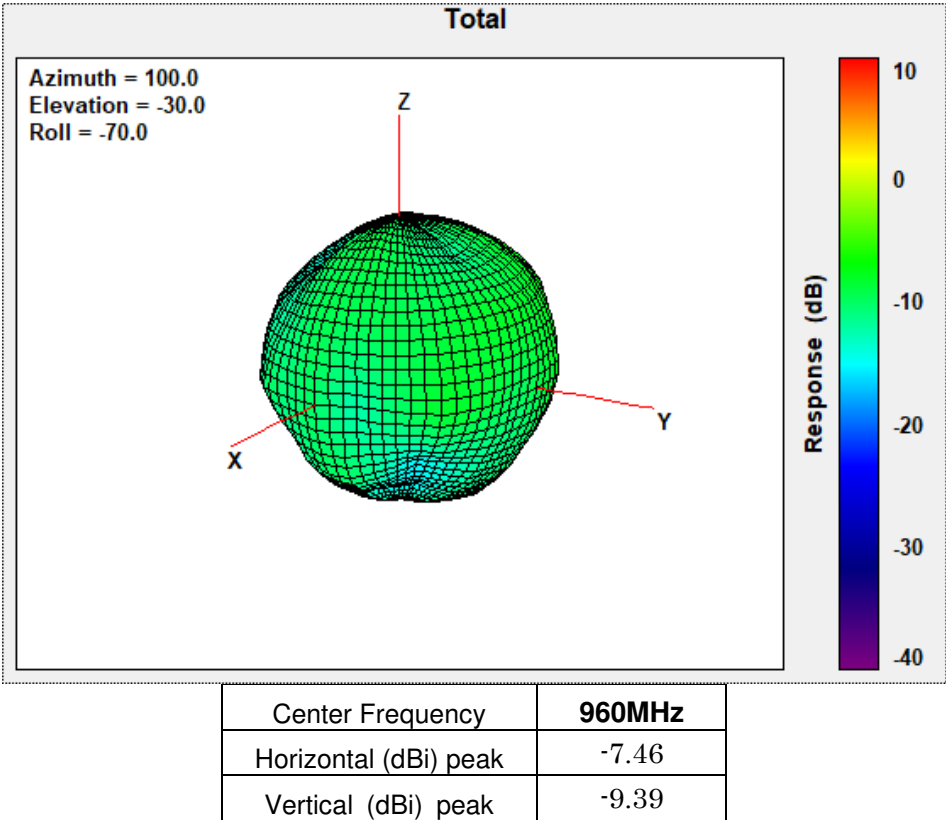
915MHz



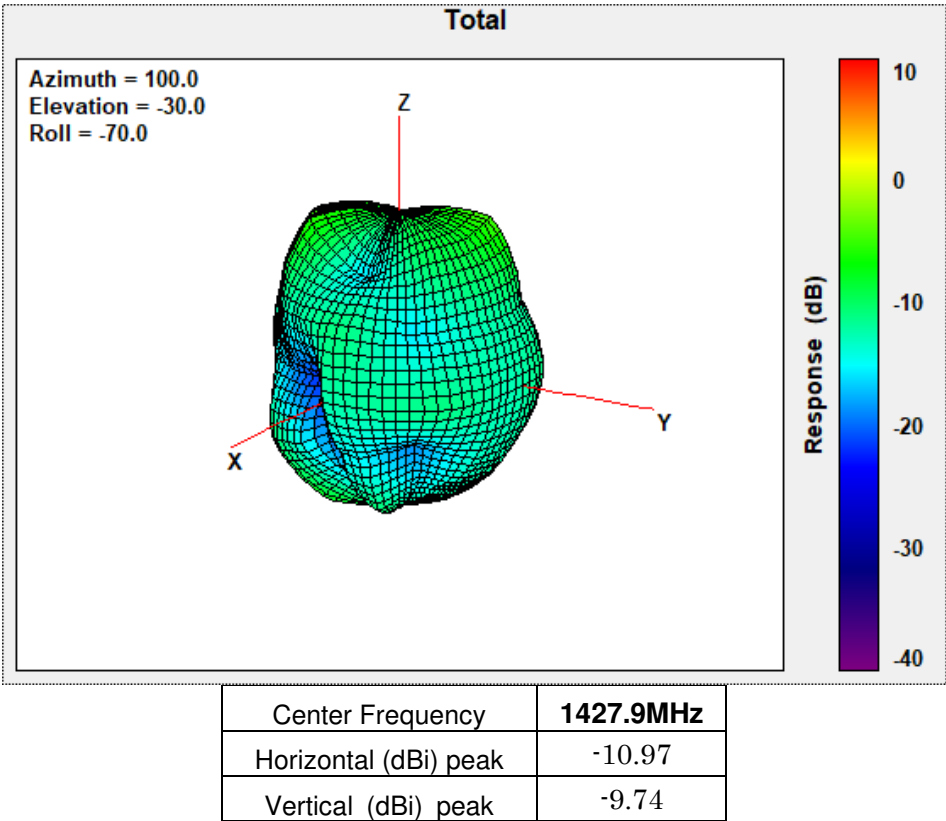
925MHz



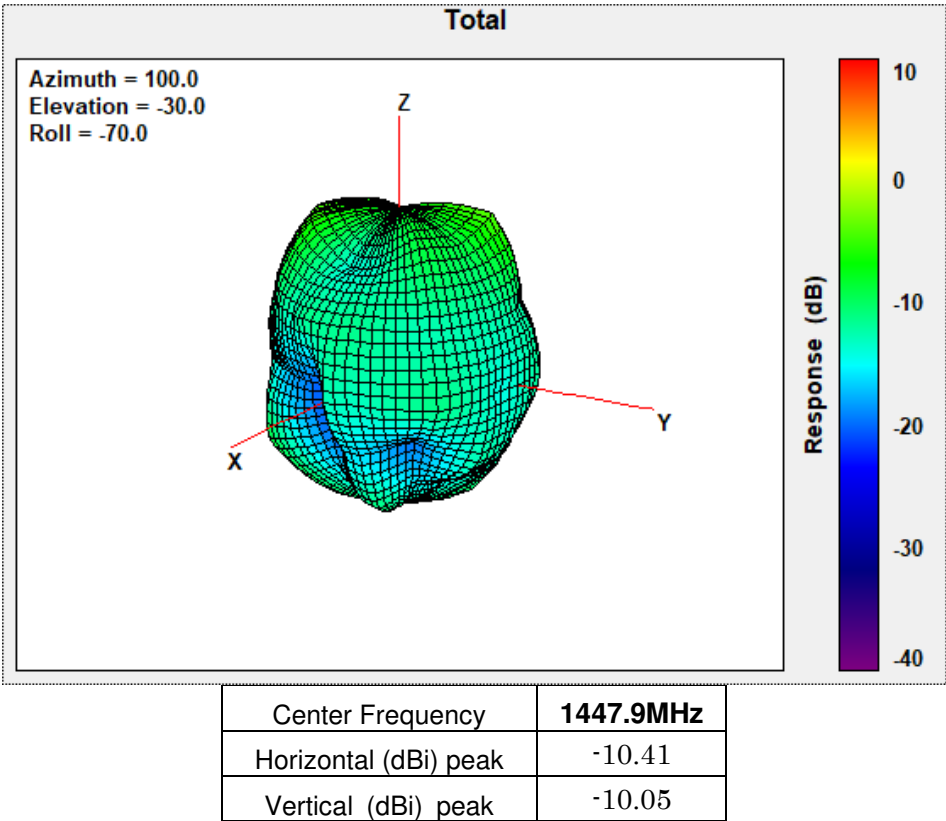
960MHz



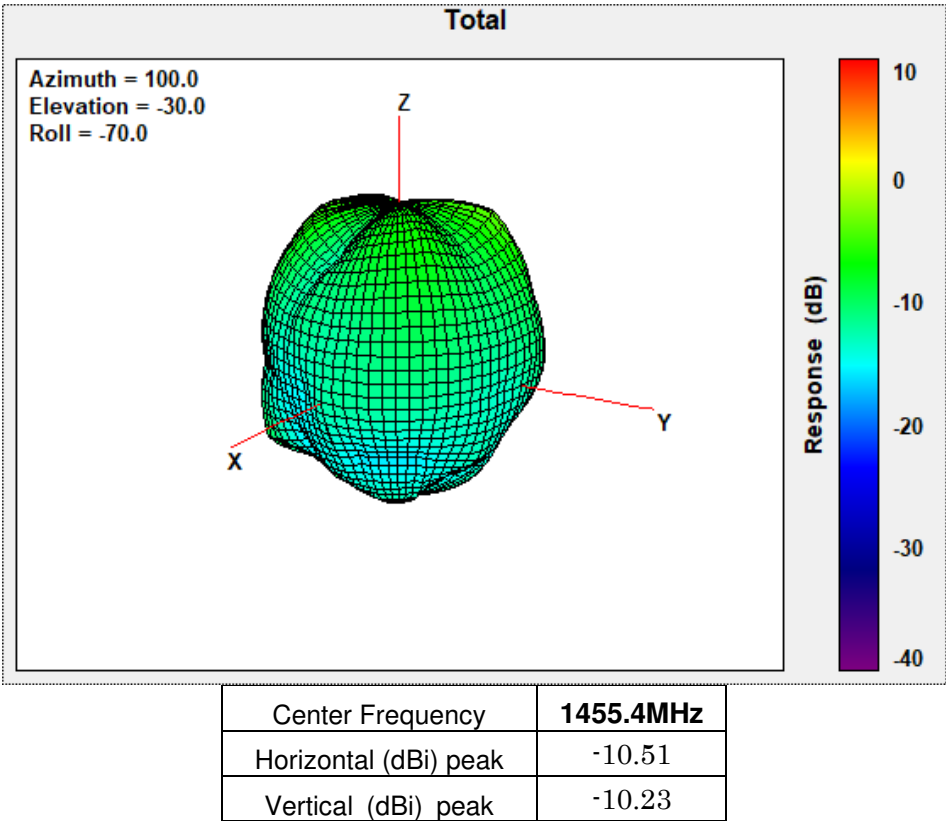
1427.9MHz



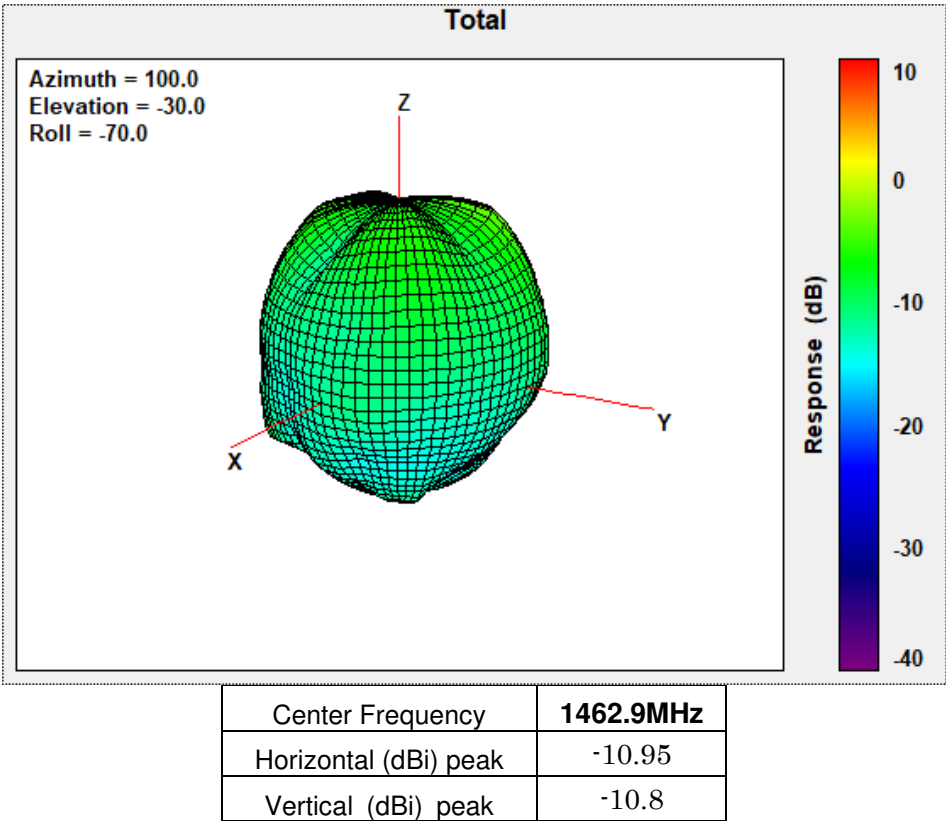
1447.9MHz



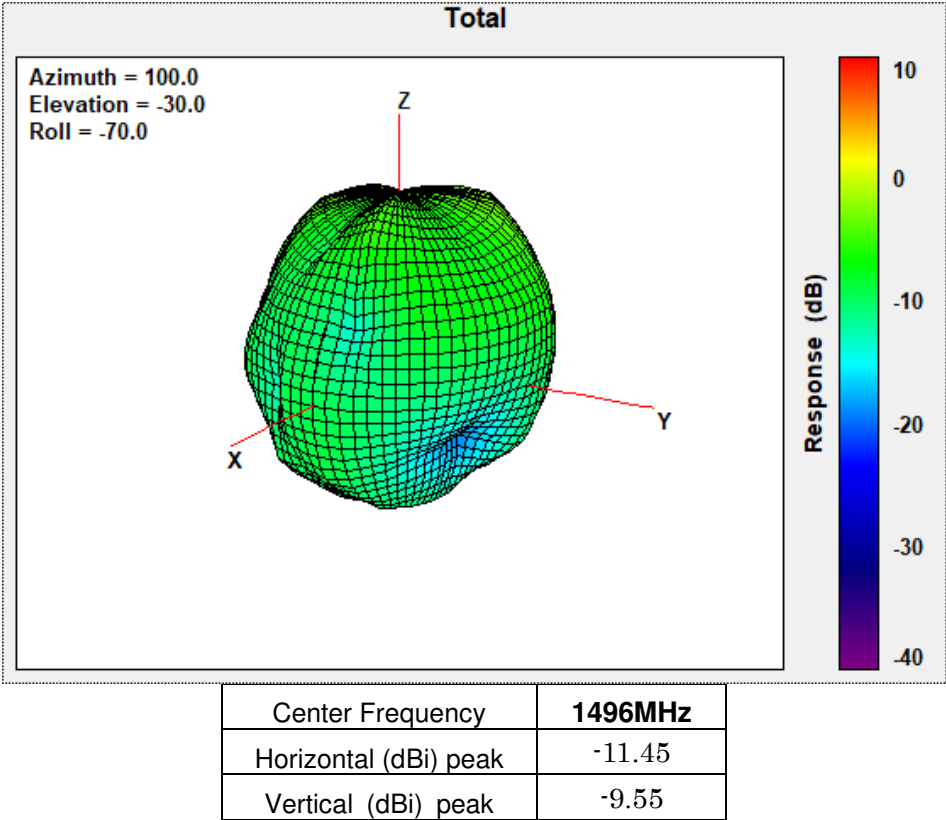
1455.4MHz



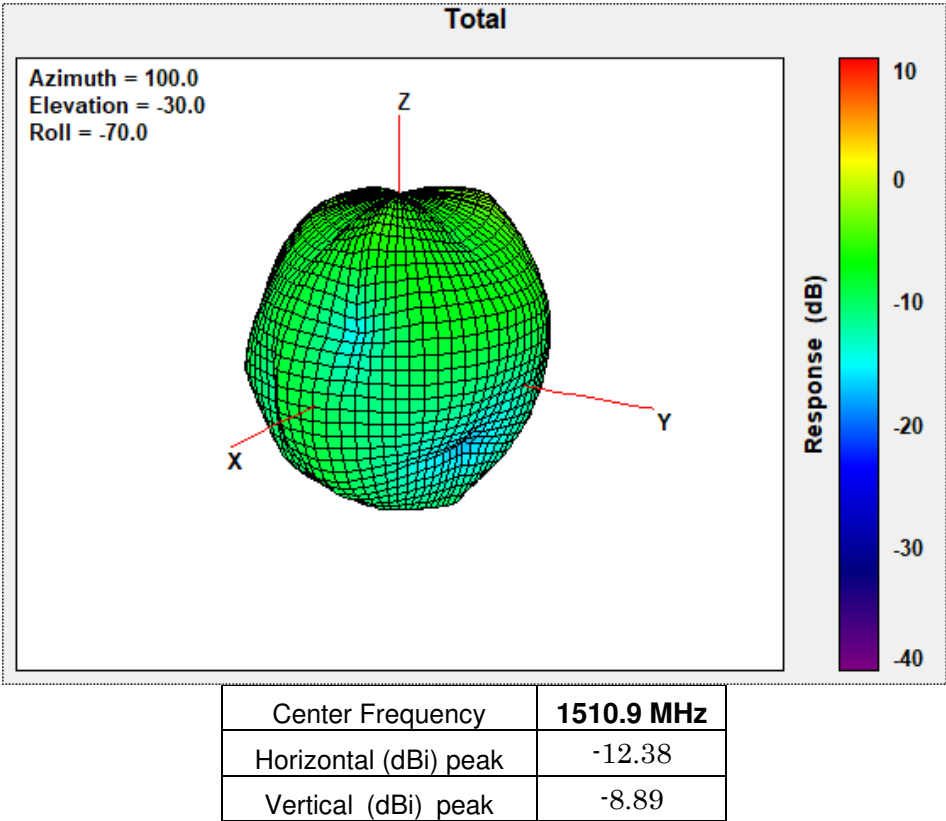
1462.9MHz



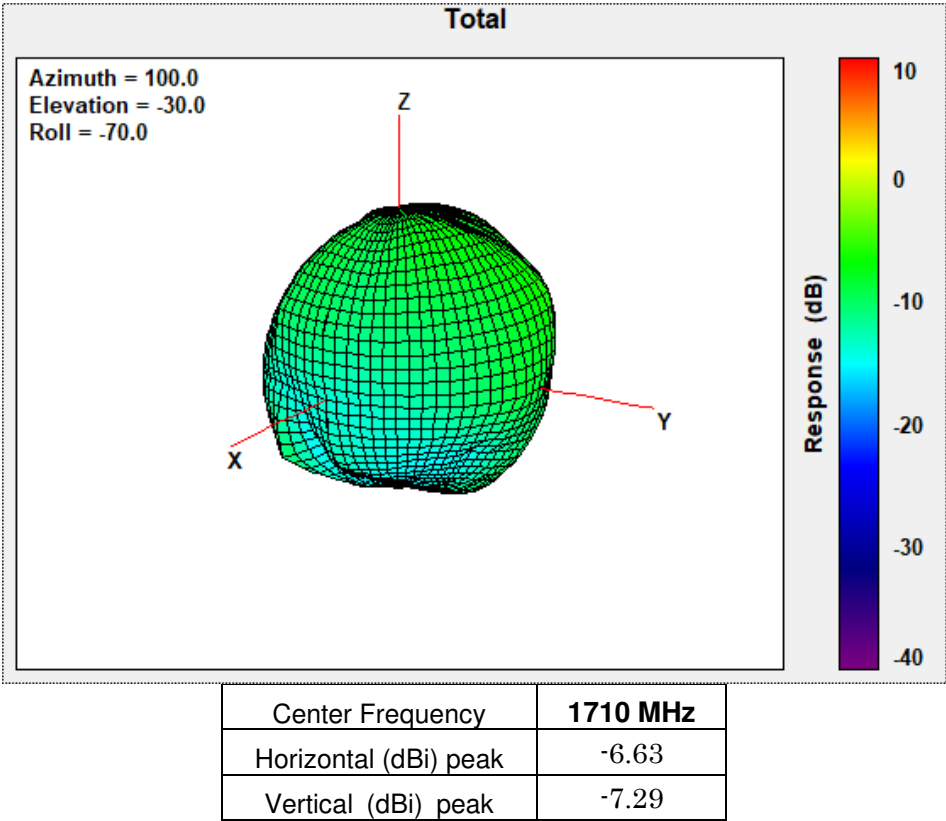
1496MHz



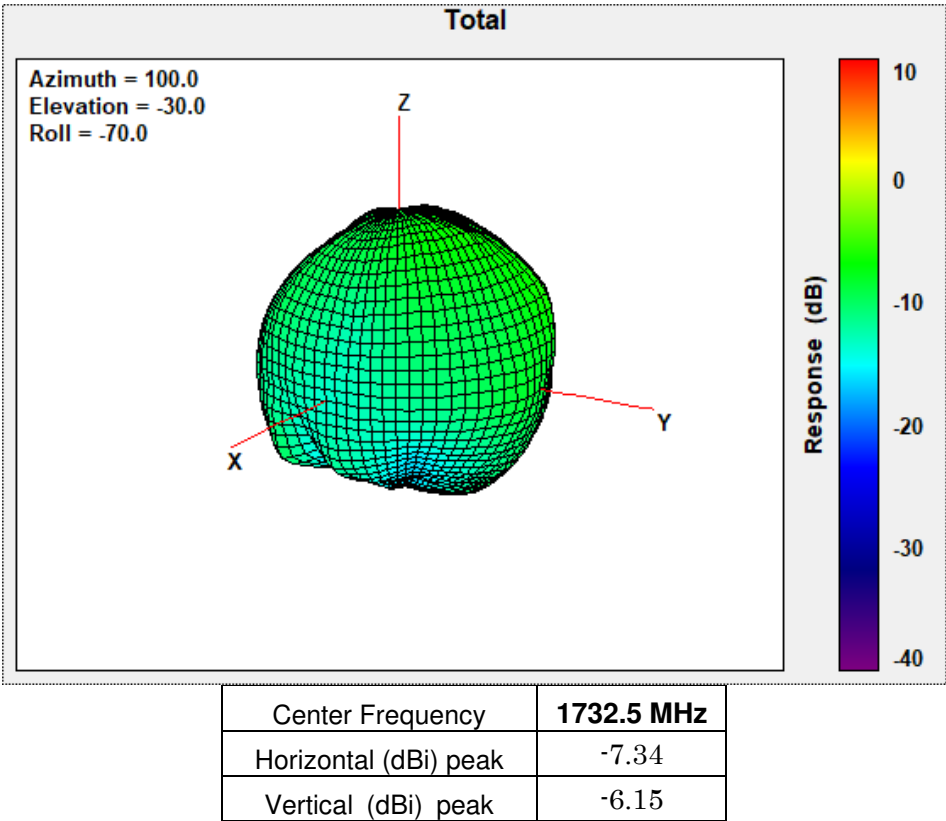
1510.9 MHz



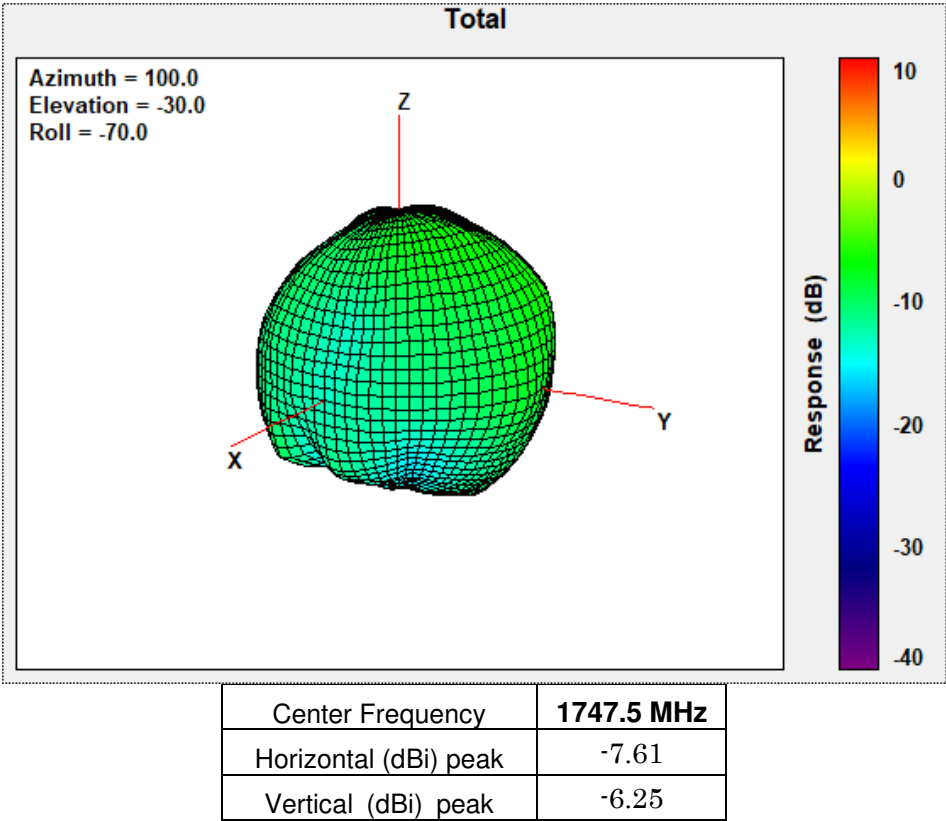
1710 MHz



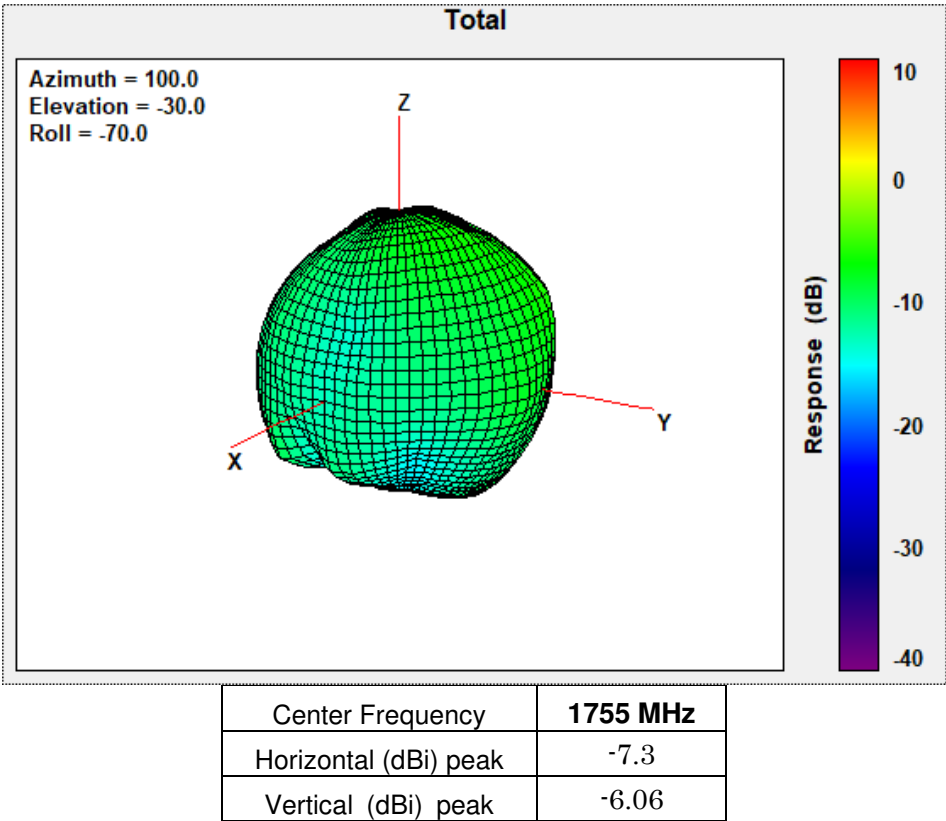
1732.5 MHz



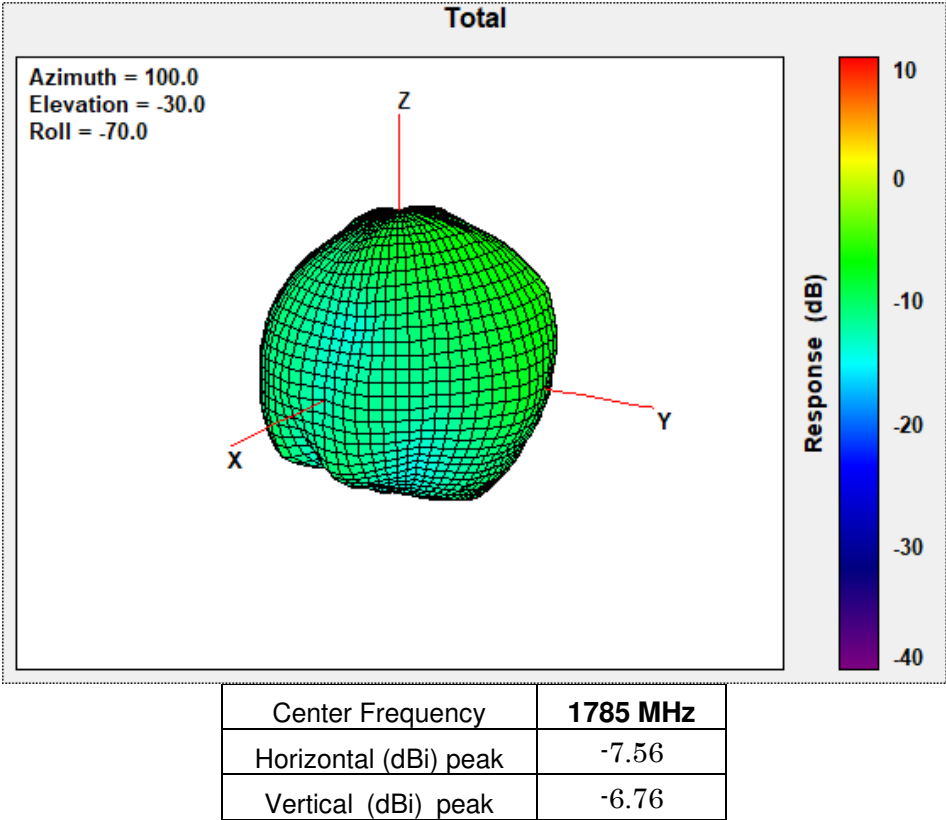
1747.5 MHz



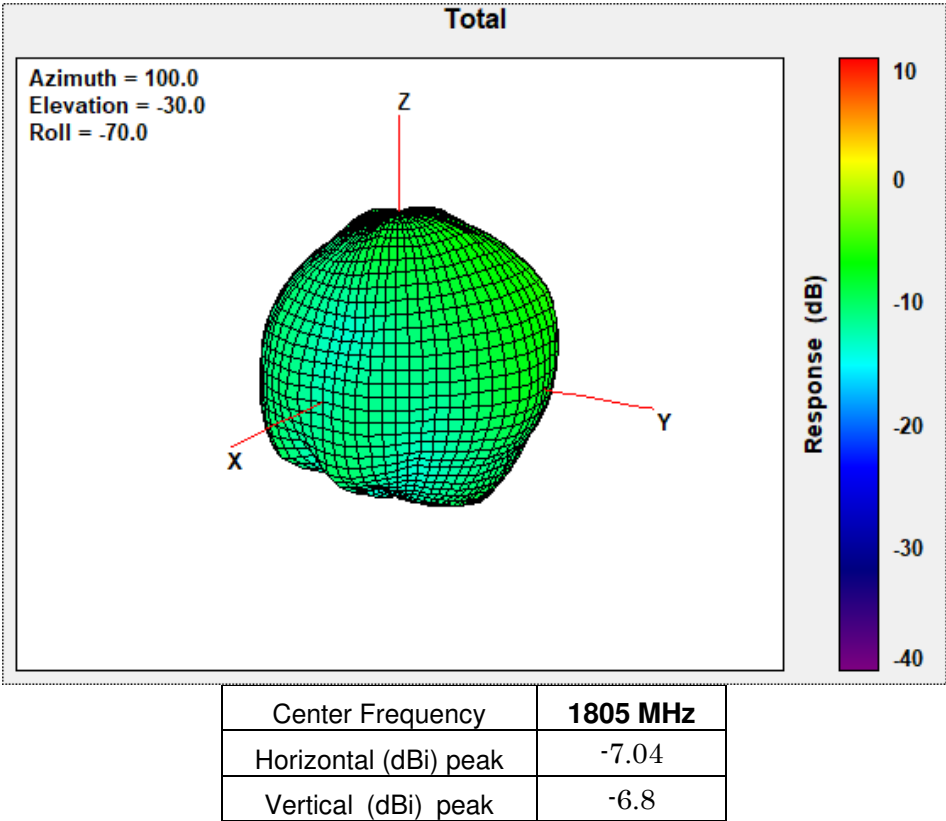
1755 MHz



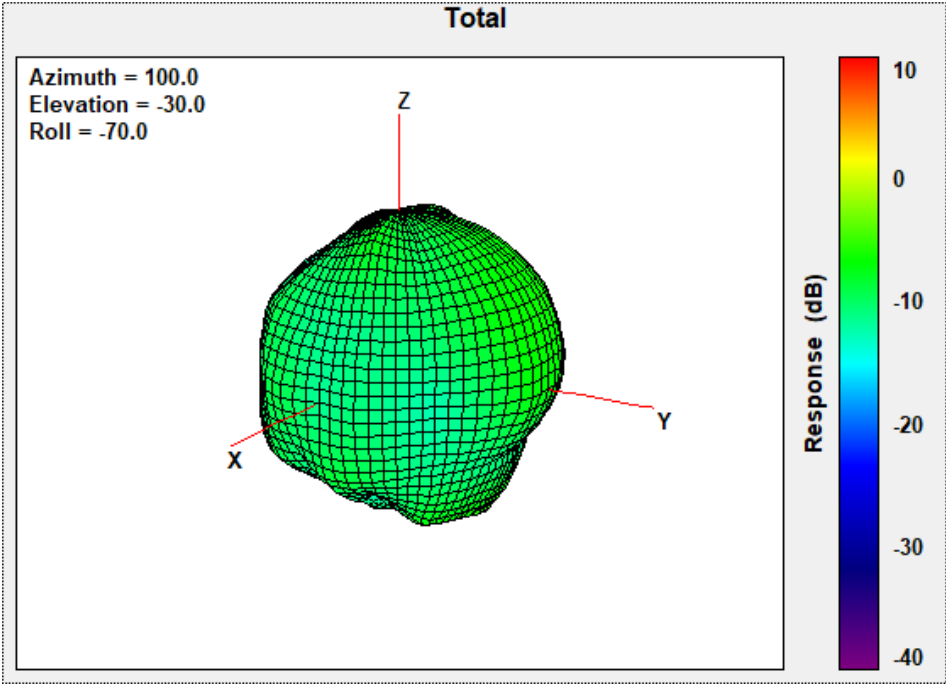
1785 MHz



1805 MHz

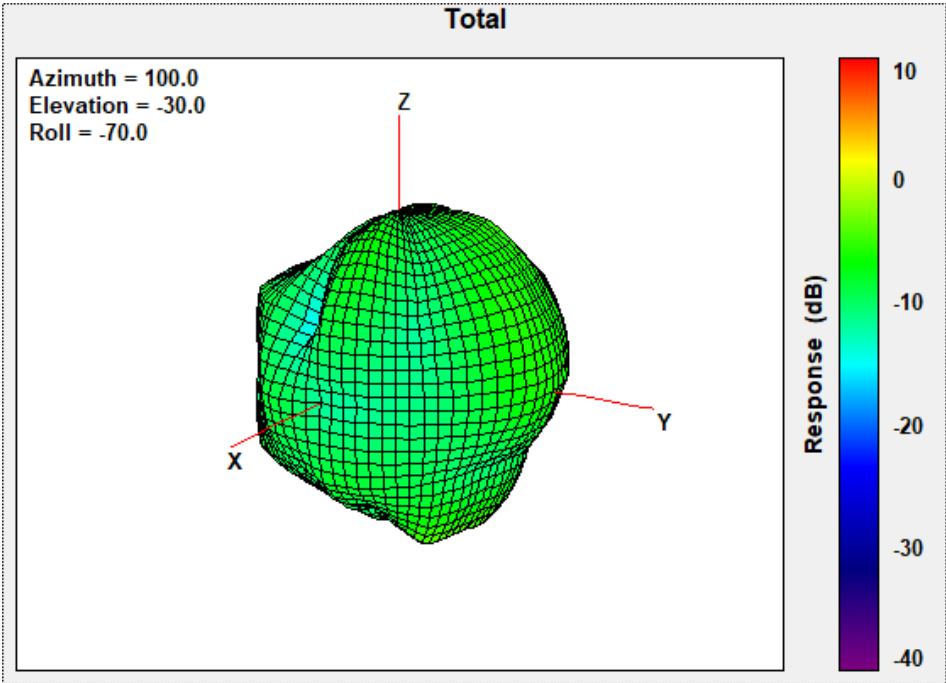


1850 MHz



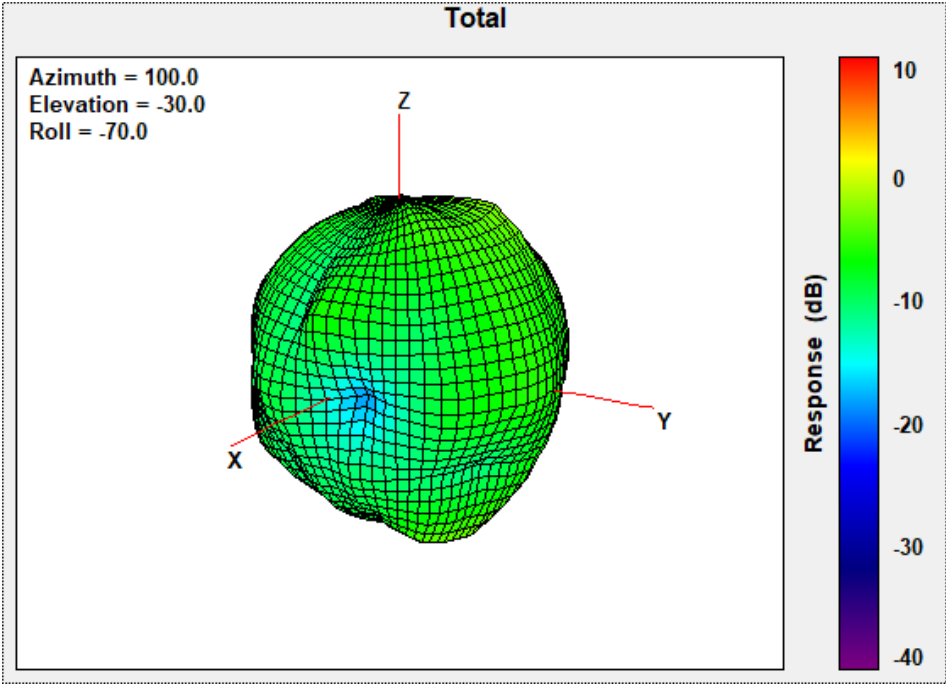
|                       |          |
|-----------------------|----------|
| Center Frequency      | 1850 MHz |
| Horizontal (dBi) peak | -4.96    |
| Vertical (dBi) peak   | -6.63    |

1880 MHz



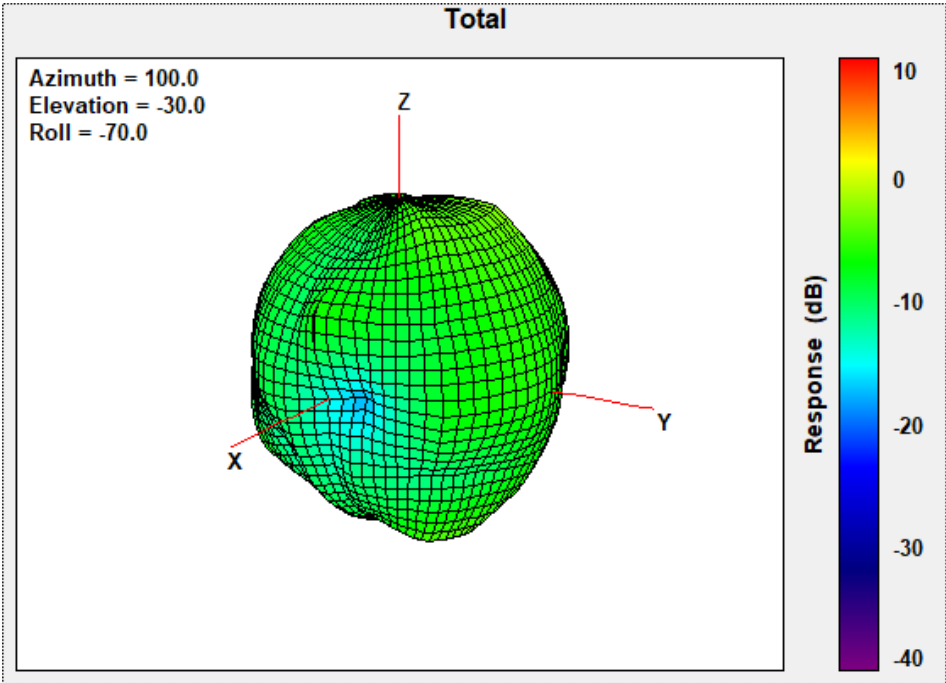
|                       |          |
|-----------------------|----------|
| Center Frequency      | 1880 MHz |
| Horizontal (dBi) peak | -3.67    |
| Vertical (dBi) peak   | -4.85    |

1910MHz



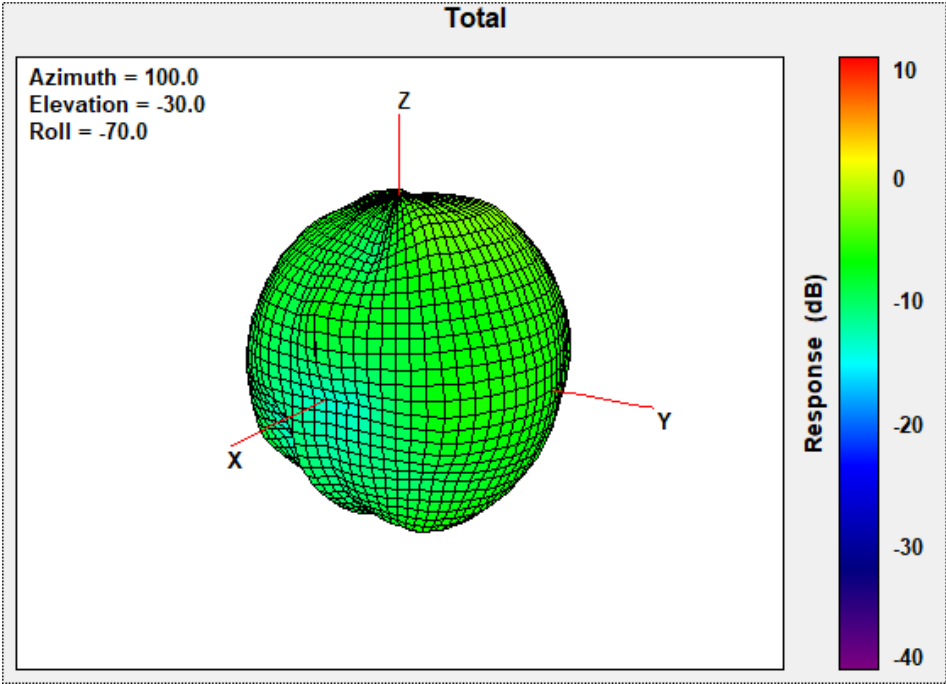
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1910MHz |
| Horizontal (dBi) peak | -3.36   |
| Vertical (dBi) peak   | -2.76   |

1920MHz



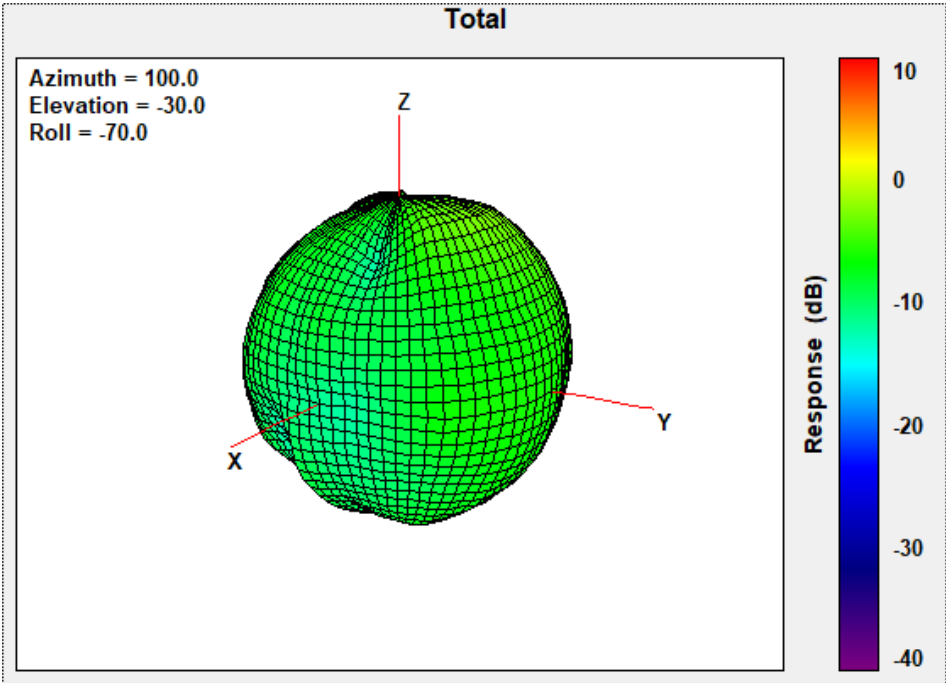
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1920MHz |
| Horizontal (dBi) peak | -2.49   |
| Vertical (dBi) peak   | -2.78   |

1950MHz



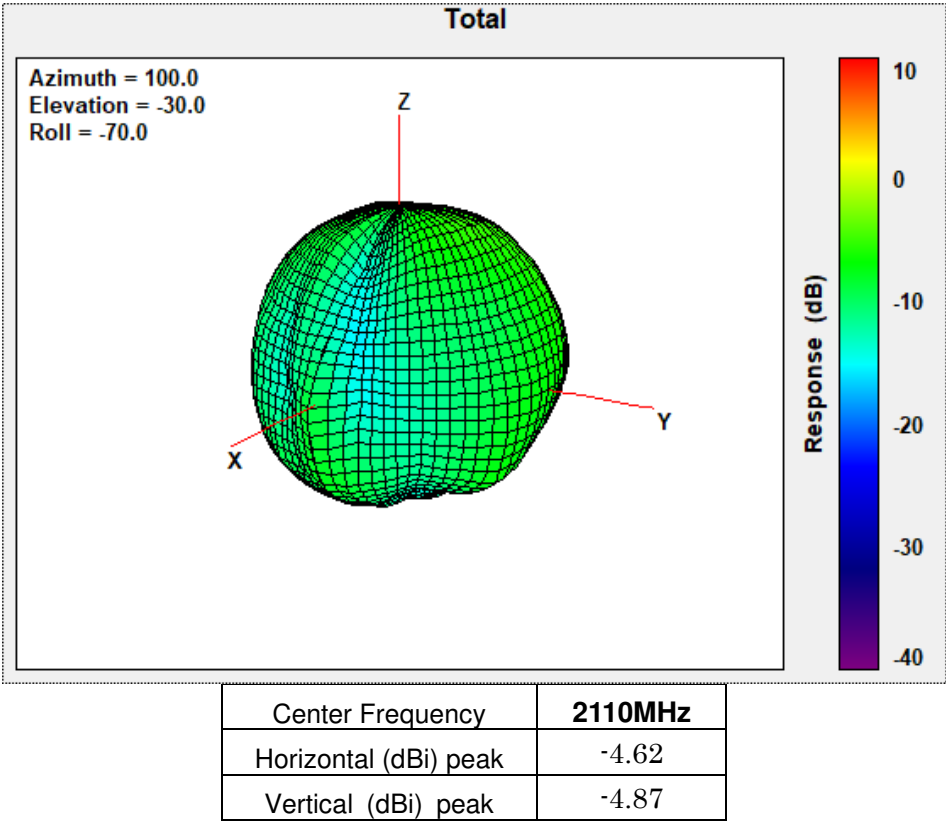
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1950MHz |
| Horizontal (dBi) peak | -2.21   |
| Vertical (dBi) peak   | -3.01   |

1980MHz

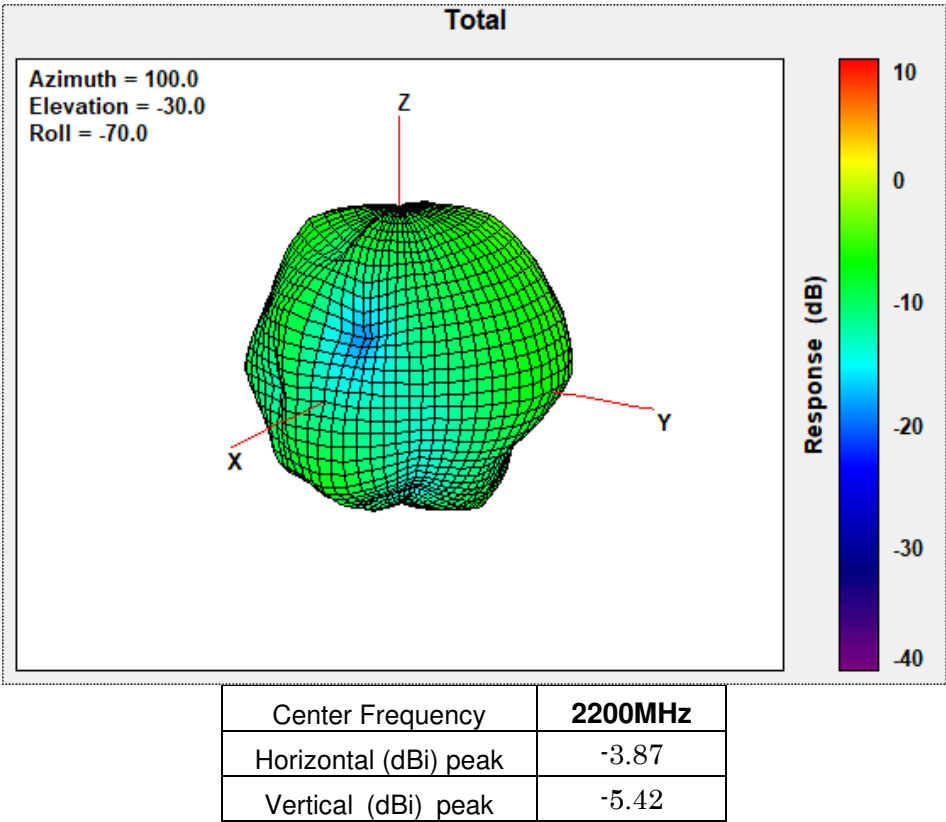


|                       |         |
|-----------------------|---------|
| Center Frequency      | 1980MHz |
| Horizontal (dBi) peak | -2.16   |
| Vertical (dBi) peak   | -3.93   |

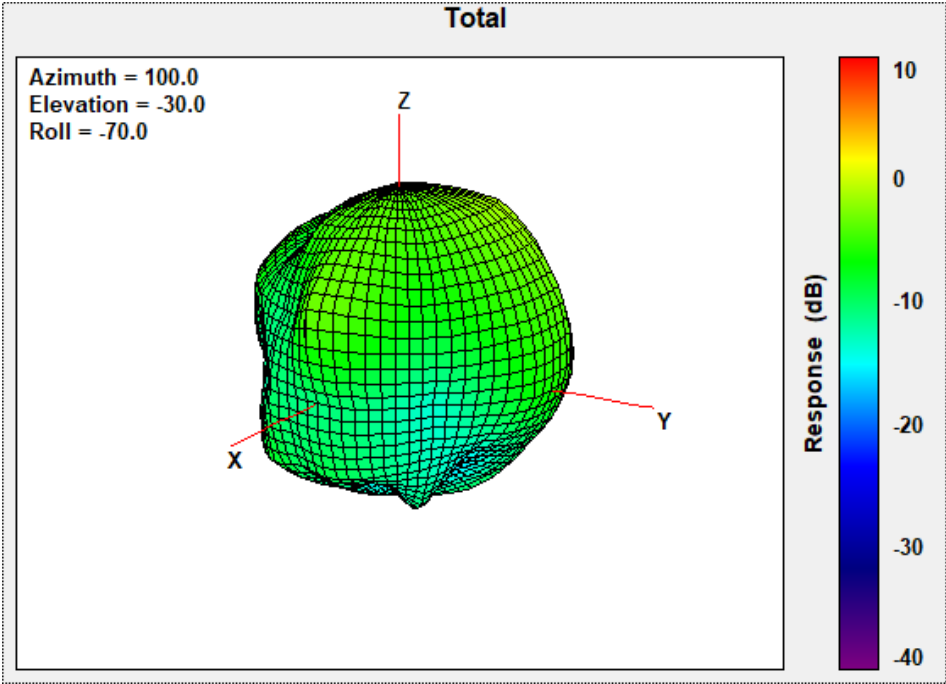
2110MHz



2200MHz

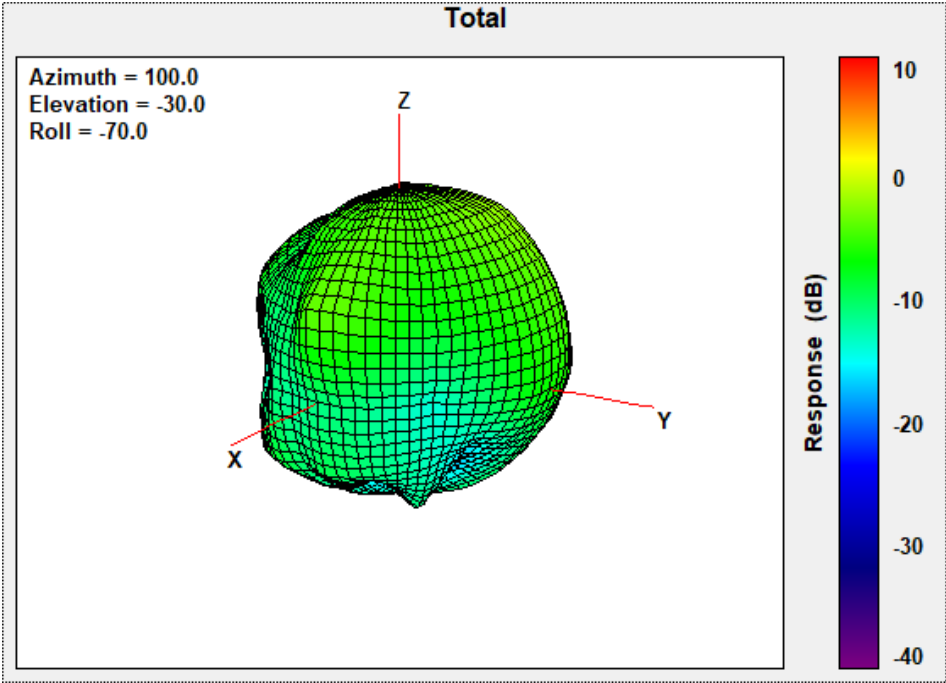


2300MHz



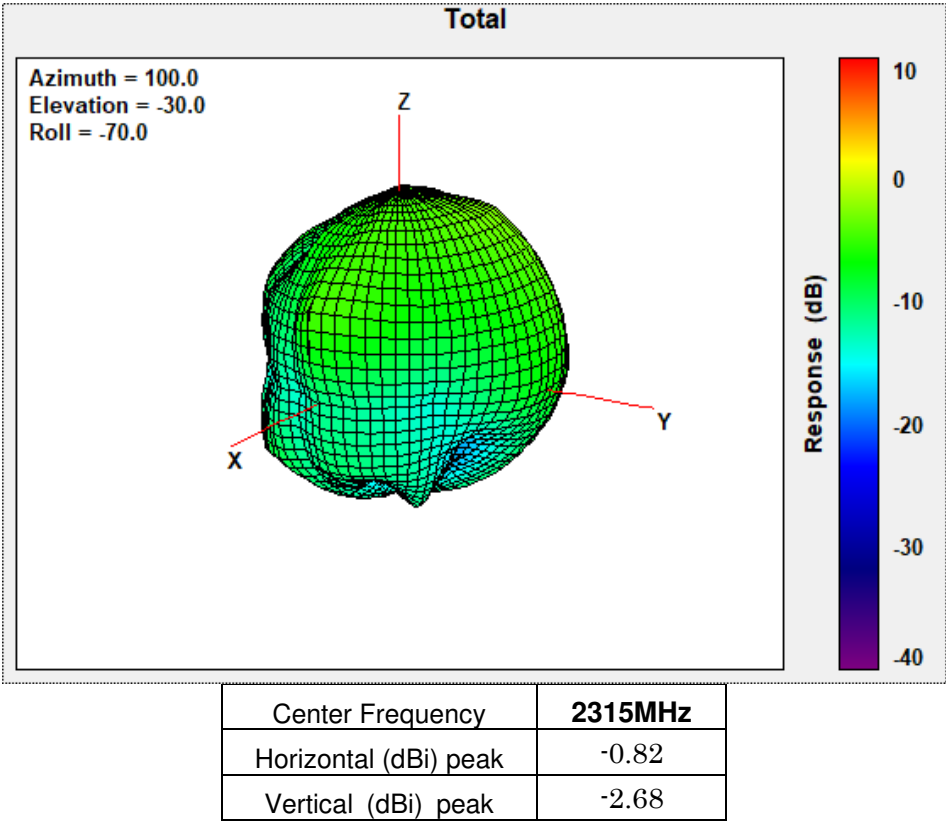
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2300MHz |
| Horizontal (dBi) peak | -1.2    |
| Vertical (dBi) peak   | -2.75   |

2305MHz

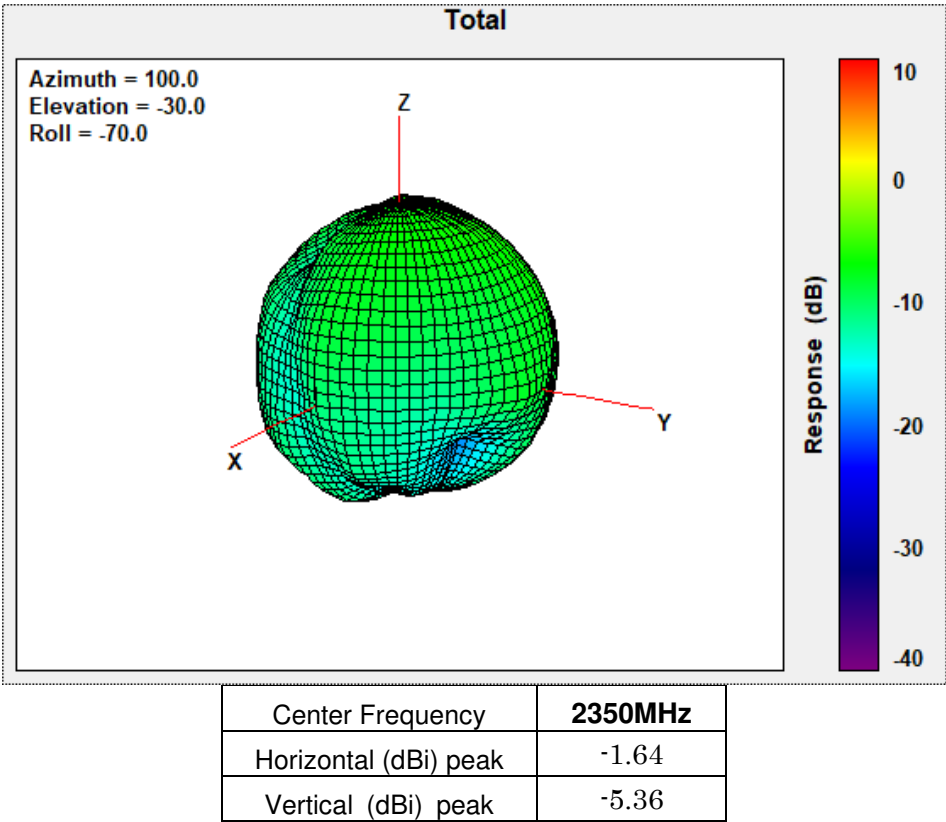


|                       |         |
|-----------------------|---------|
| Center Frequency      | 2305MHz |
| Horizontal (dBi) peak | -1.15   |
| Vertical (dBi) peak   | -2.68   |

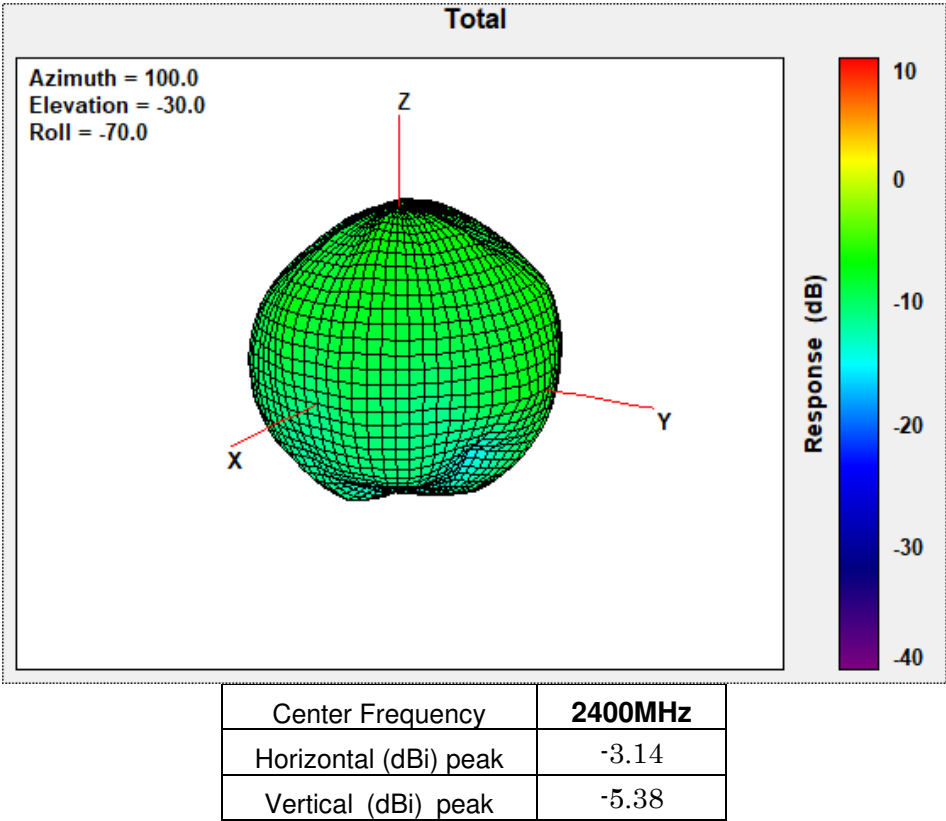
2315MHz



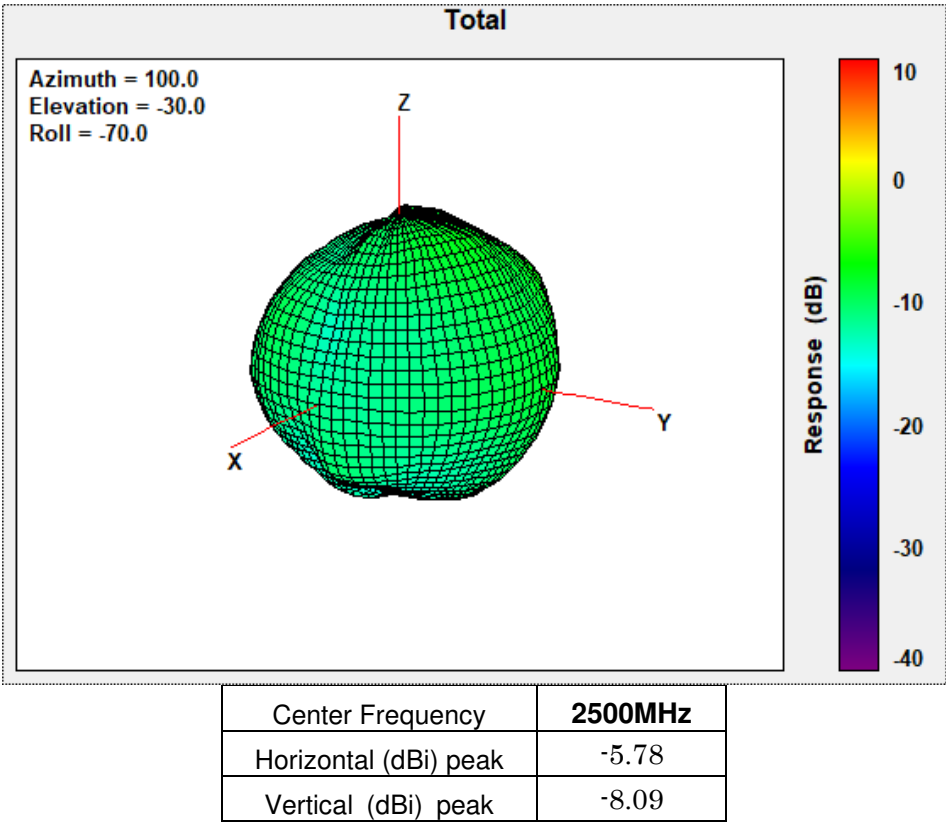
2350MHz



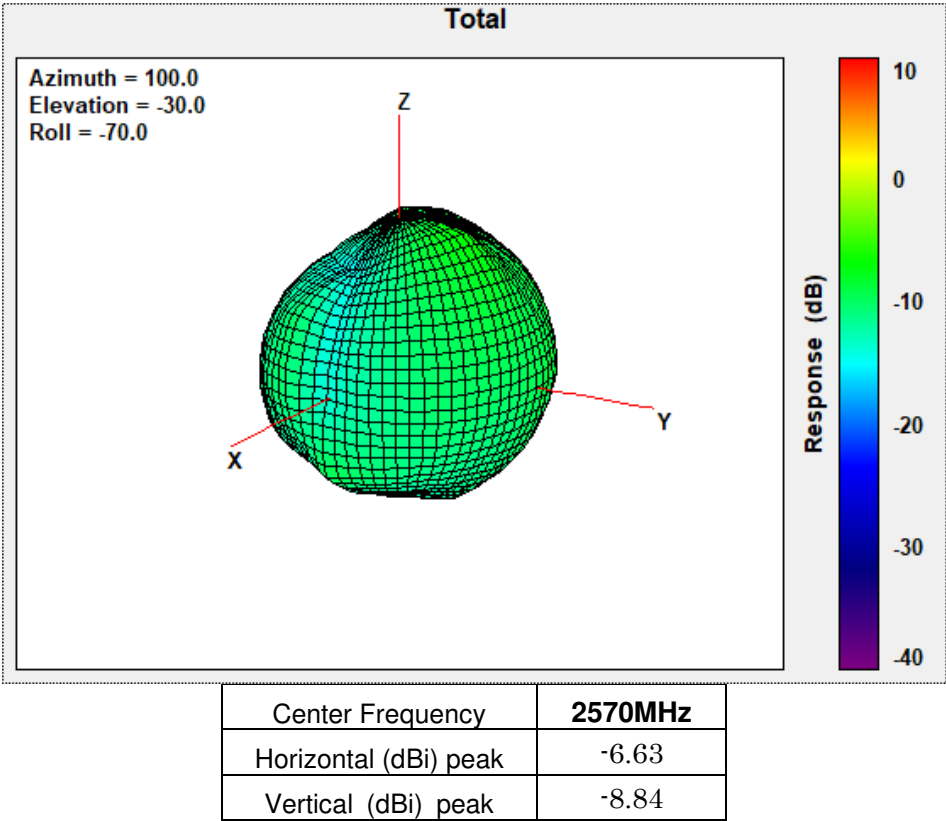
2400MHz



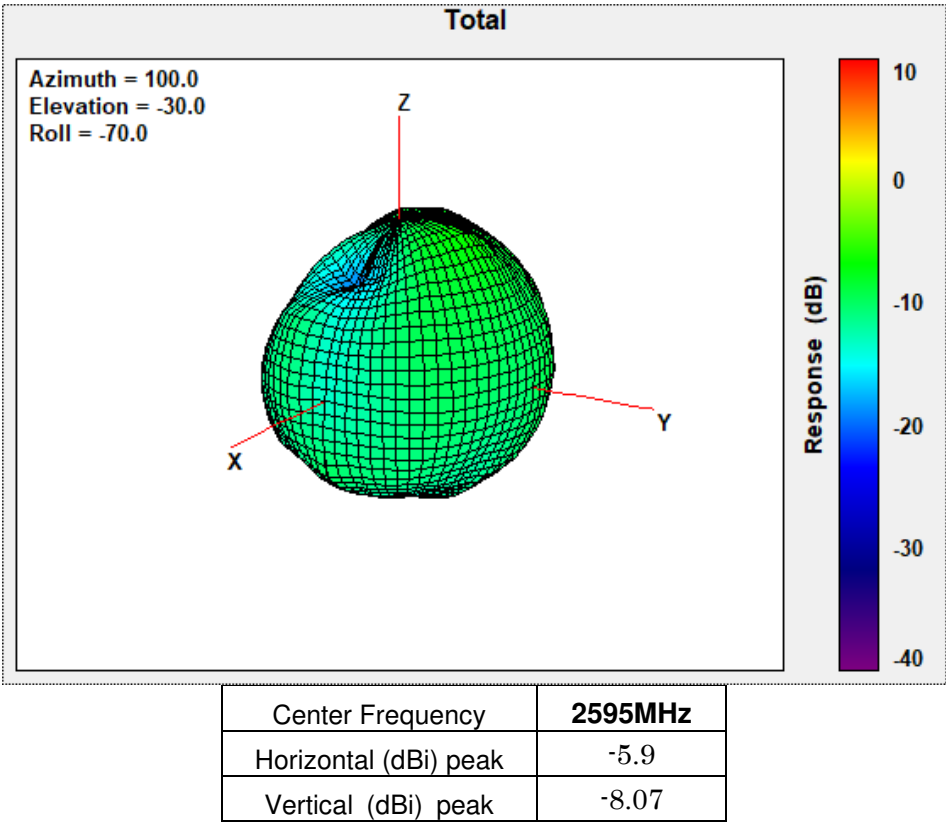
2500MHz



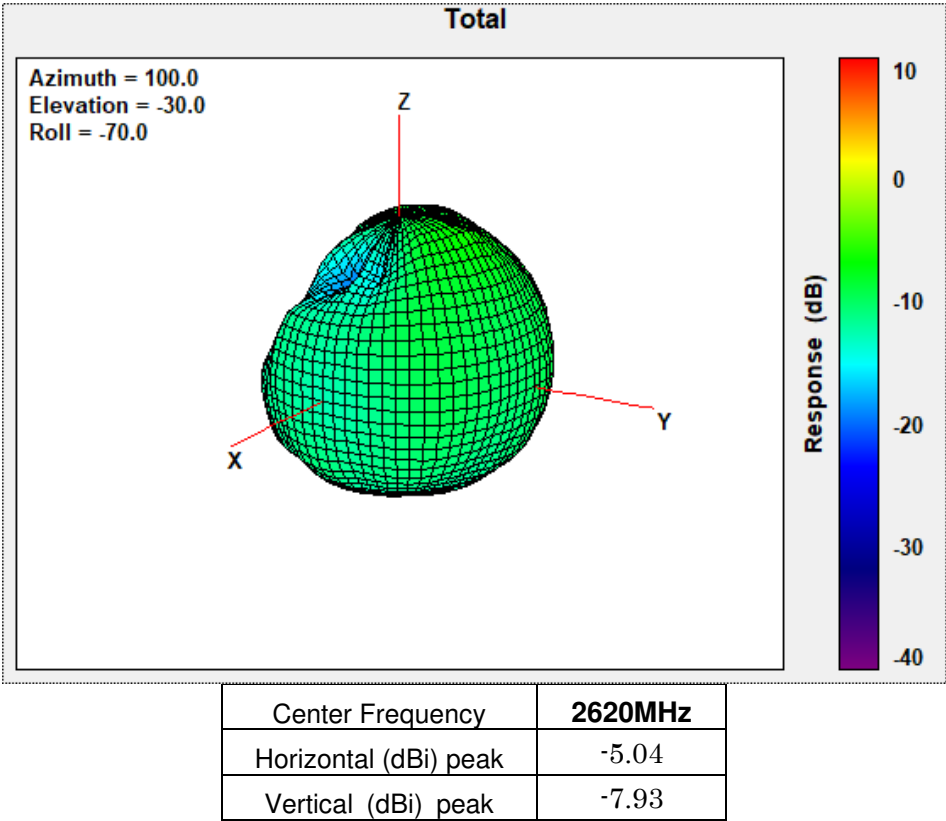
2570MHz



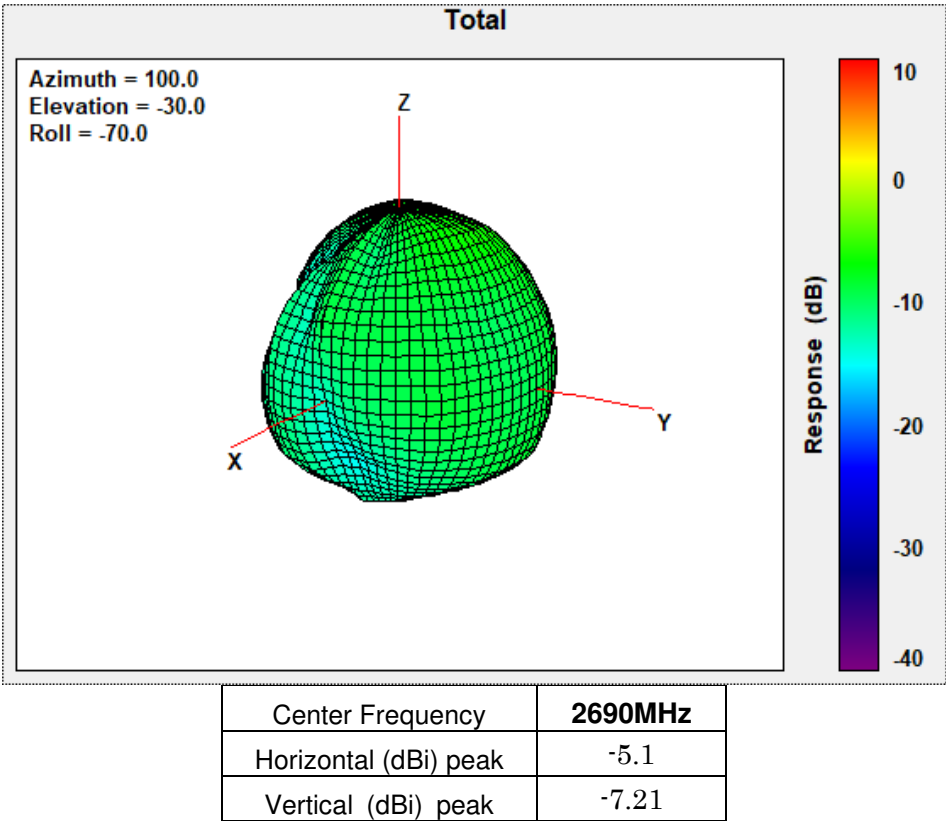
2595MHz



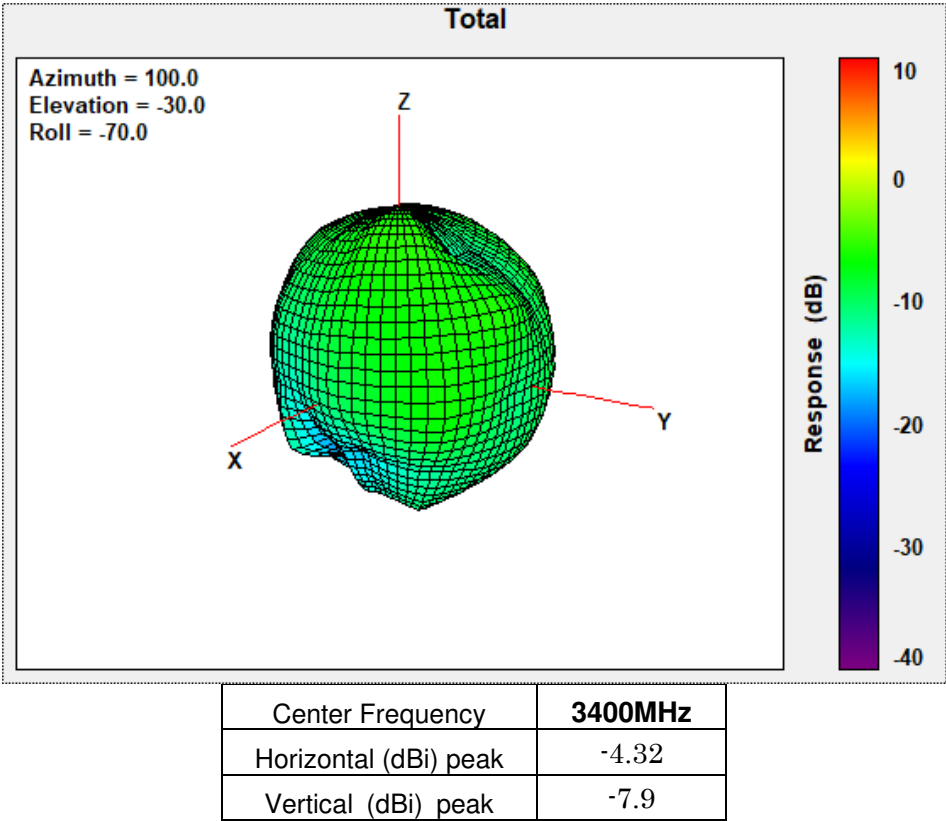
2620MHz



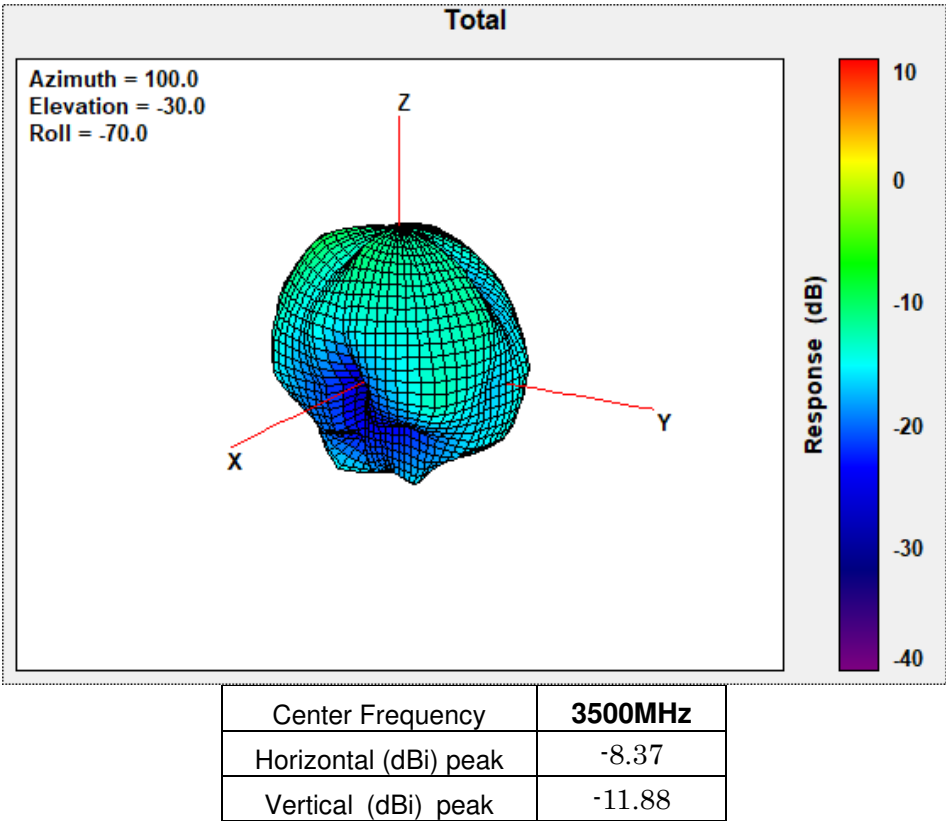
2690MHz



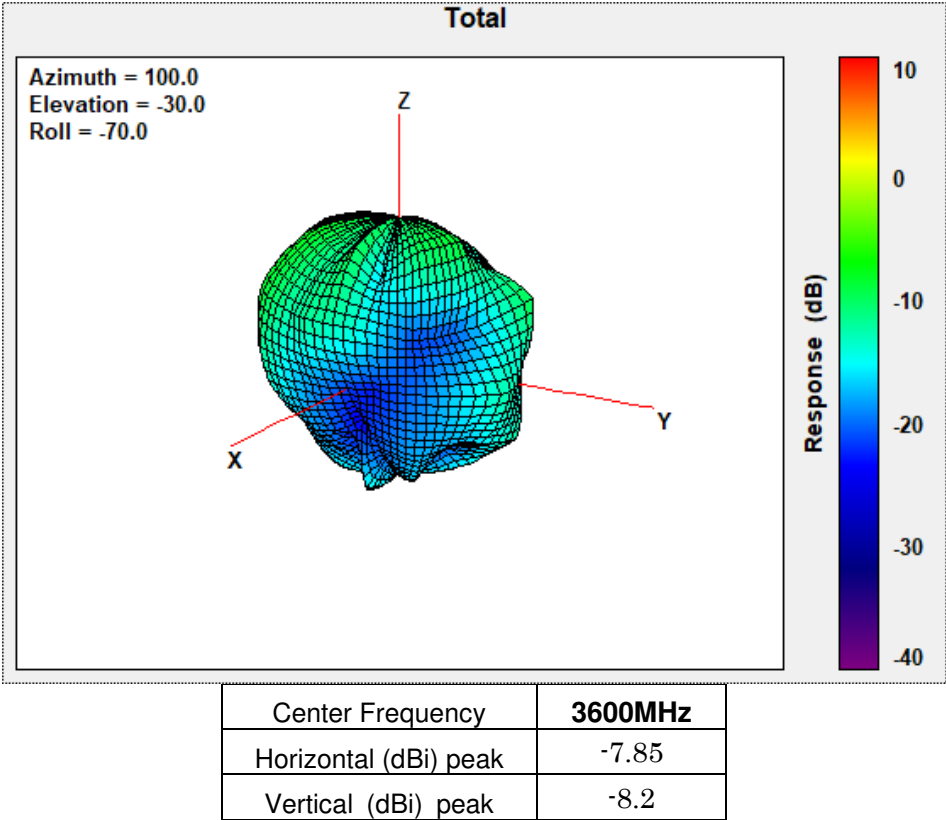
3400MHz



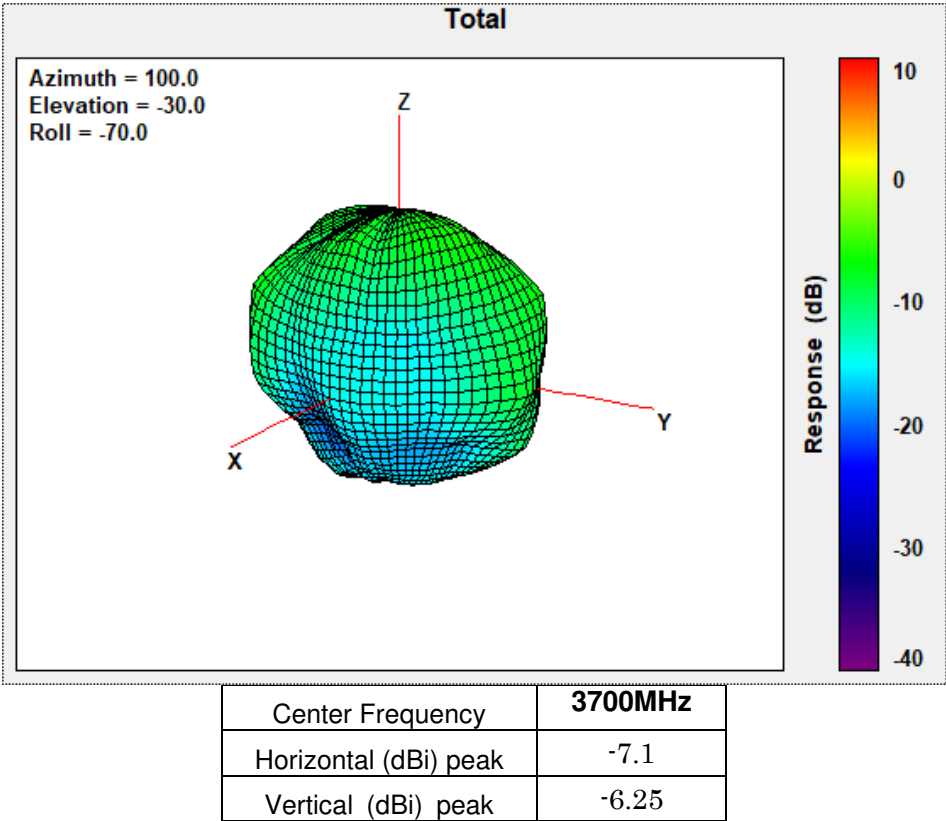
3500MHz



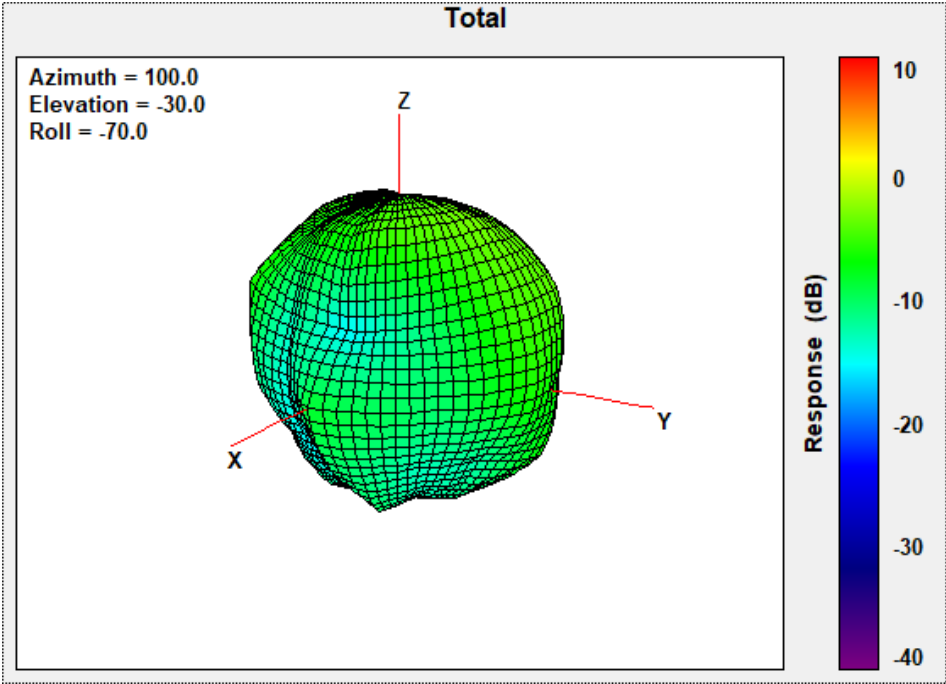
3600MHz



3700MHz

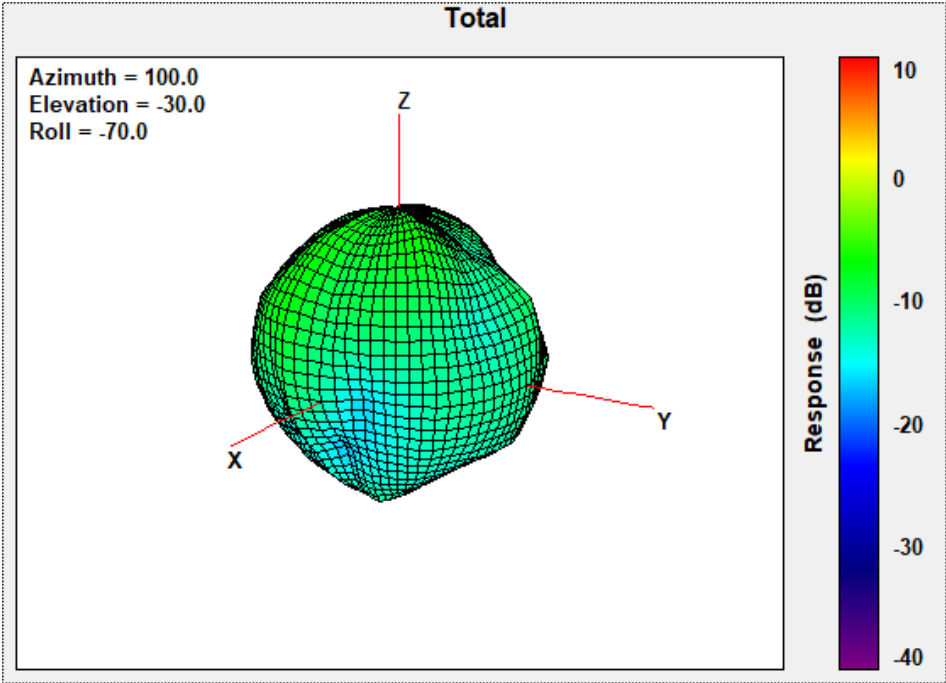


3800MHz



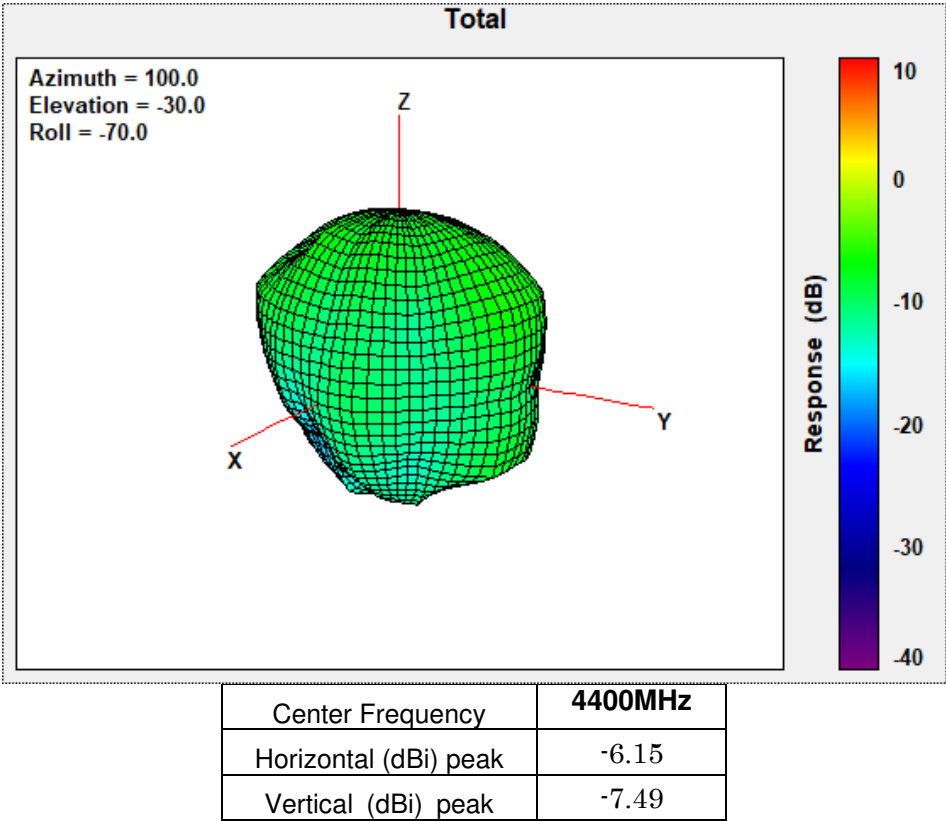
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3800MHz |
| Horizontal (dBi) peak | -5.03   |
| Vertical (dBi) peak   | -4.5    |

4200MHz

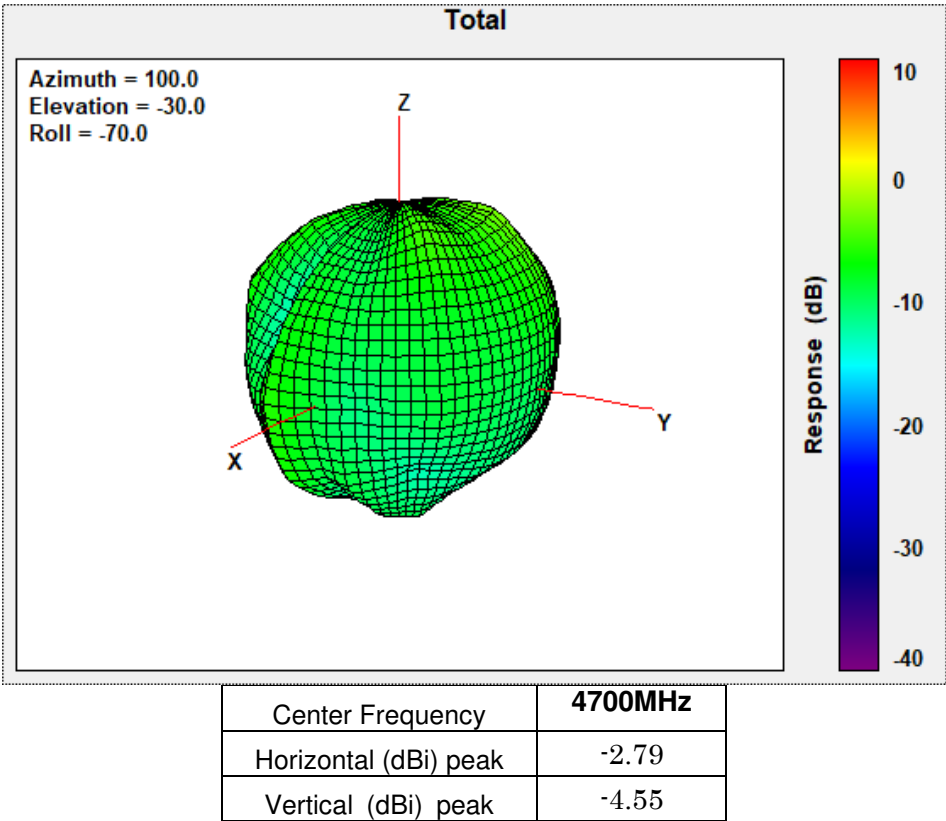


|                       |         |
|-----------------------|---------|
| Center Frequency      | 4200MHz |
| Horizontal (dBi) peak | -5.9    |
| Vertical (dBi) peak   | -7.14   |

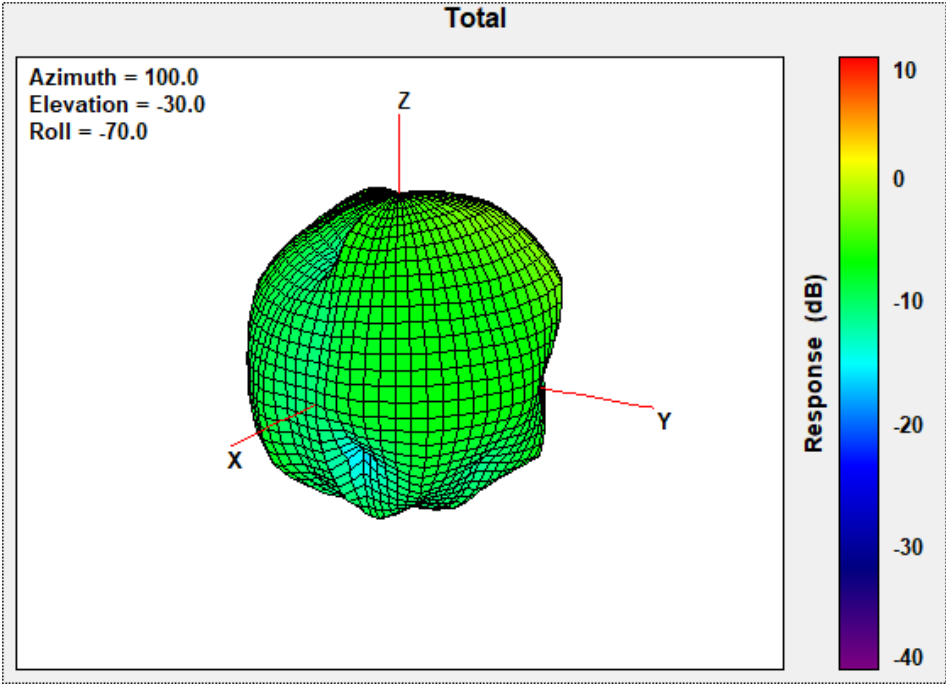
4400MHz



4700MHz

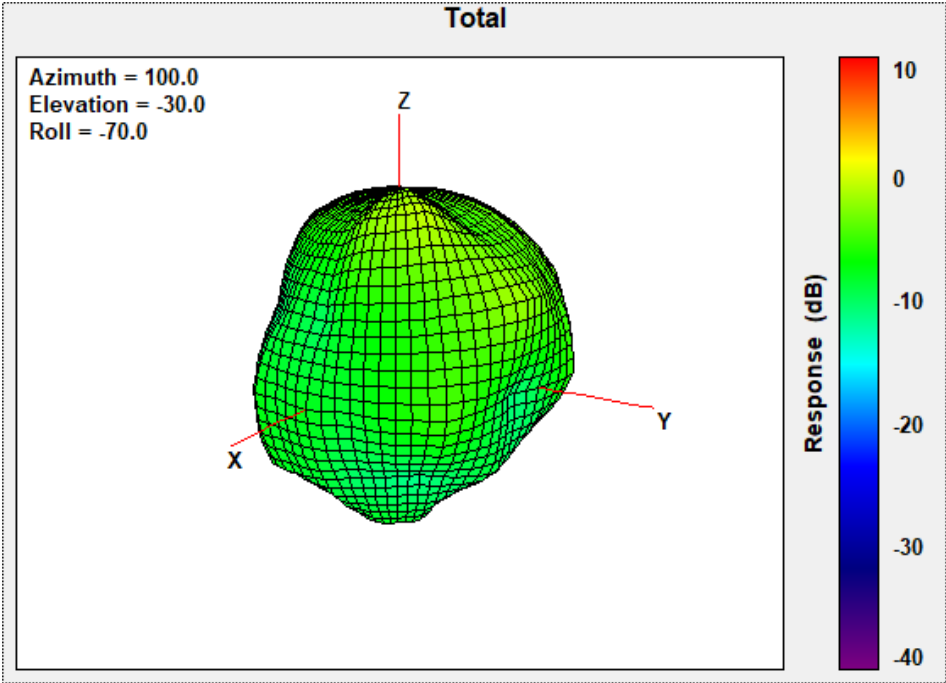


5150MHz



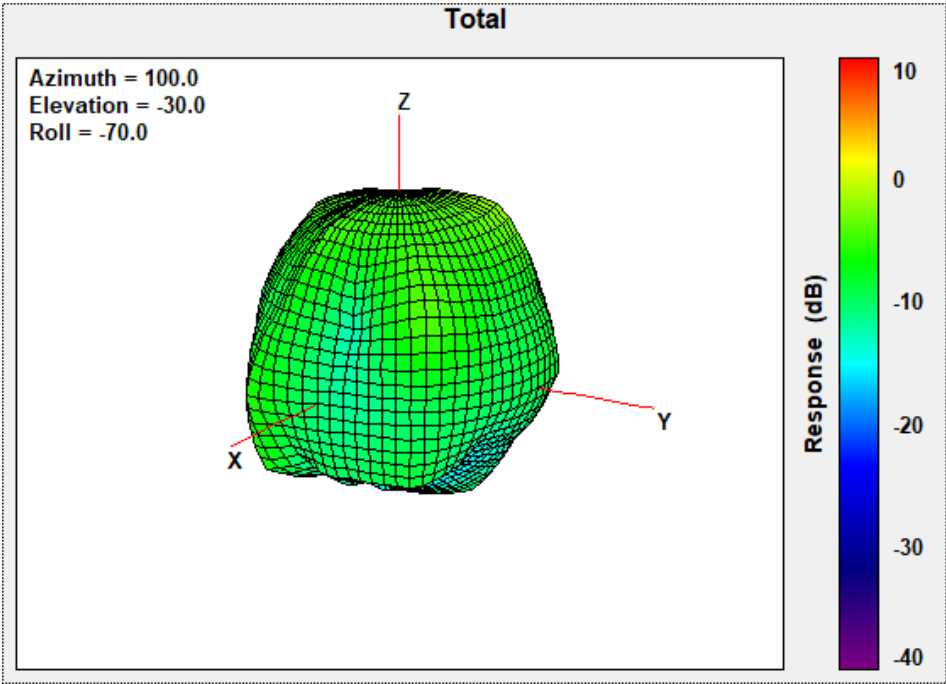
|                       |         |
|-----------------------|---------|
| Center Frequency      | 5150MHz |
| Horizontal (dBi) peak | -2.12   |
| Vertical (dBi) peak   | -1.37   |

5537.5MHz



|                       |           |
|-----------------------|-----------|
| Center Frequency      | 5537.5MHz |
| Horizontal (dBi) peak | -2.57     |
| Vertical (dBi) peak   | -1.83     |

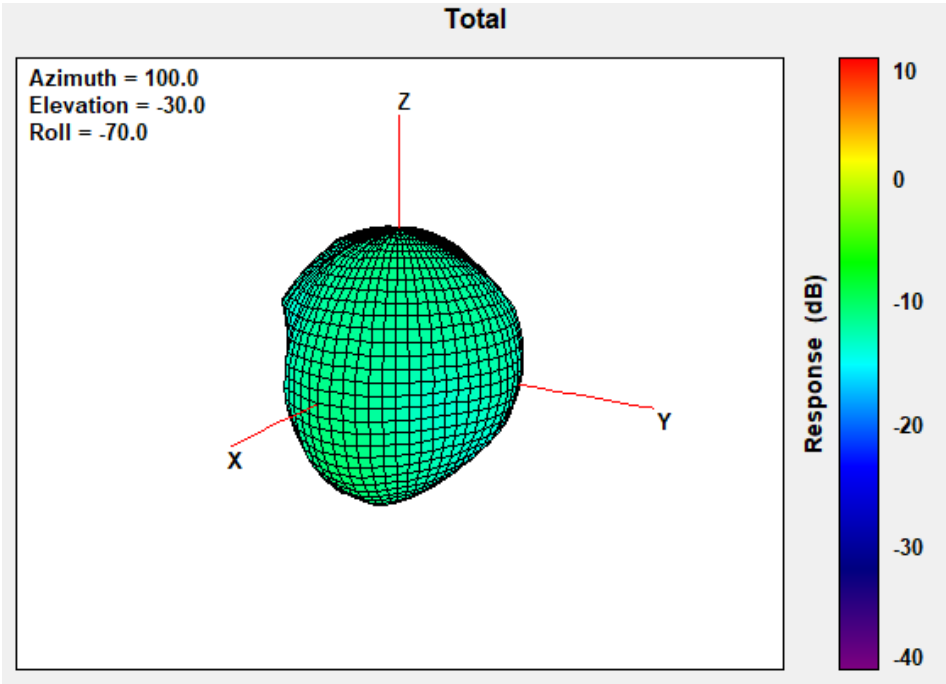
5925MHz



|                       |         |
|-----------------------|---------|
| Center Frequency      | 5925MHz |
| Horizontal (dBi) peak | -4.49   |
| Vertical (dBi) peak   | -2.51   |

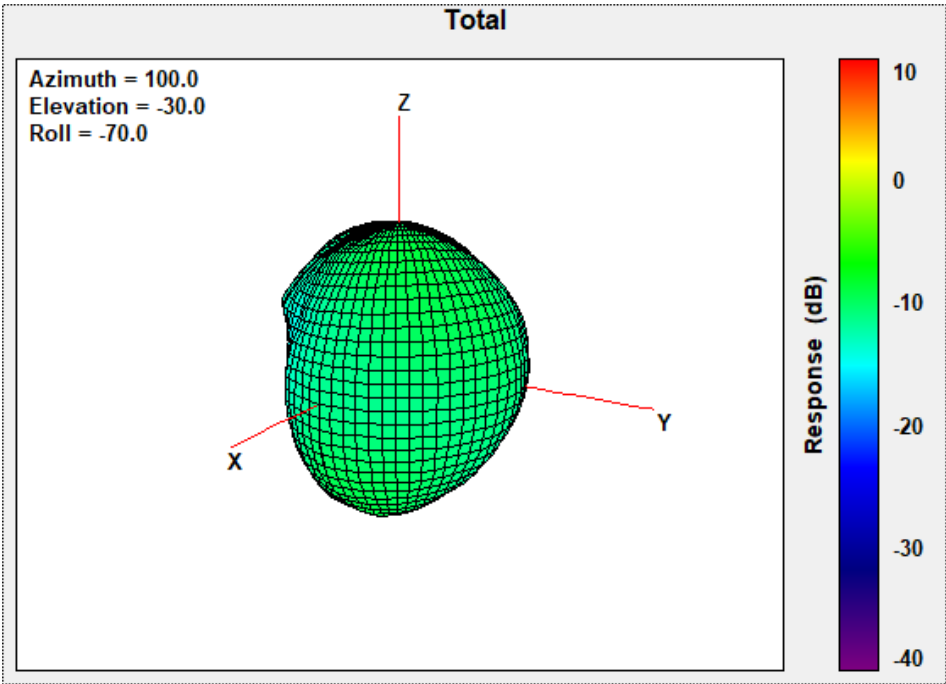
WWAN Aux Antenna (DRx)

617MHz



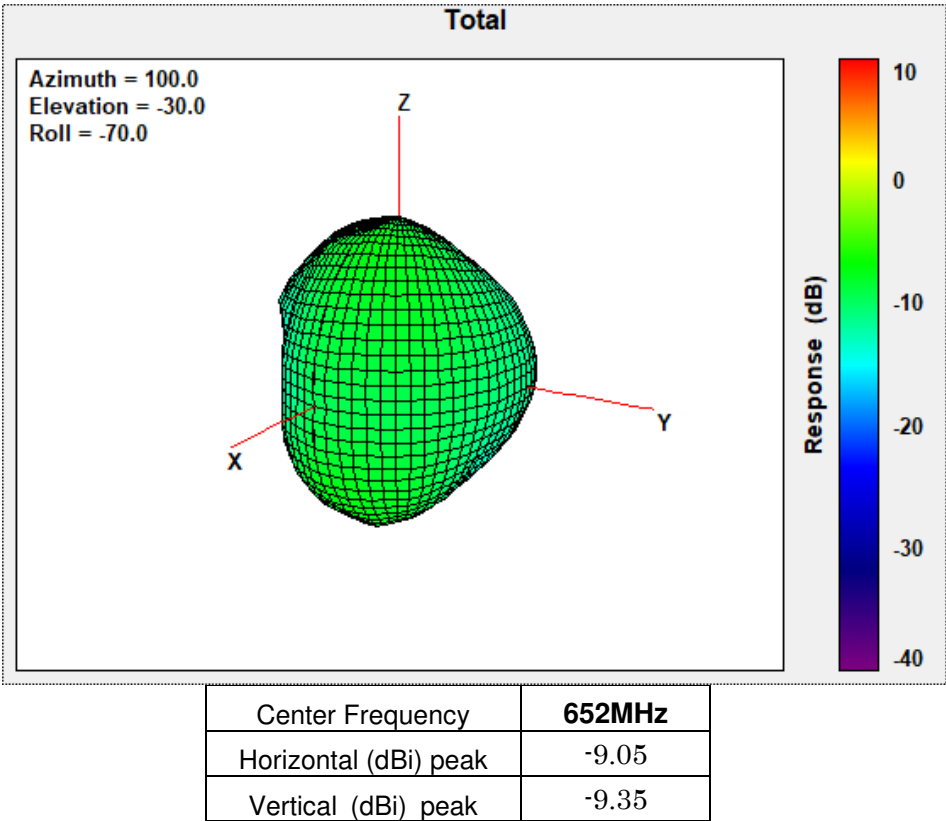
|                       |        |
|-----------------------|--------|
| Center Frequency      | 617MHz |
| Horizontal (dBi) peak | -10.75 |
| Vertical (dBi) peak   | -11.23 |

634MHz

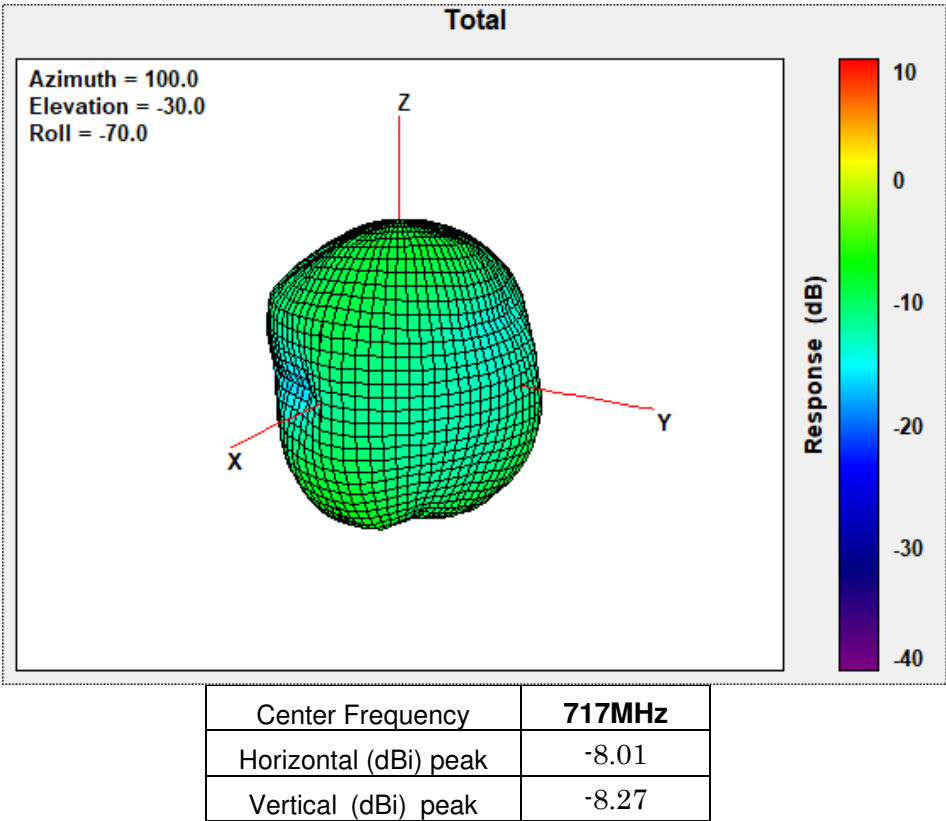


|                       |        |
|-----------------------|--------|
| Center Frequency      | 634MHz |
| Horizontal (dBi) peak | -9.61  |
| Vertical (dBi) peak   | -10.05 |

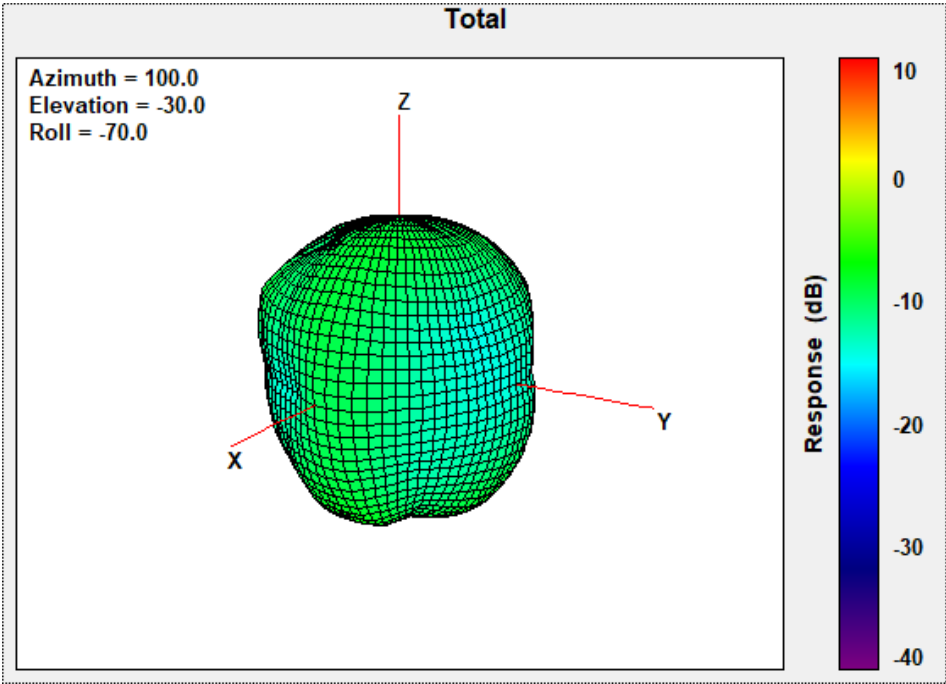
652MHz



717MHz

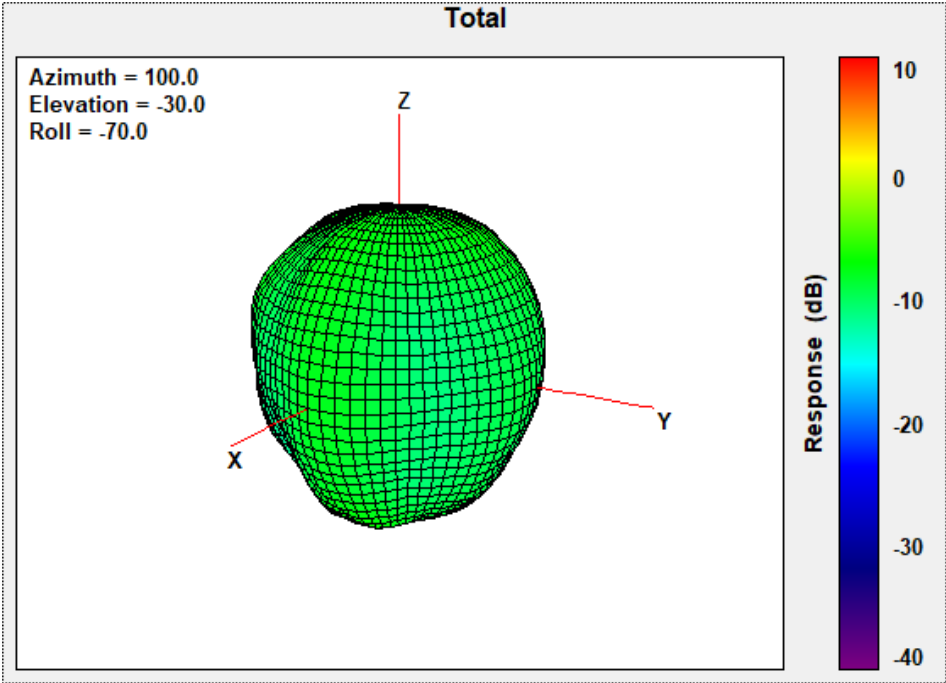


725.5MHz



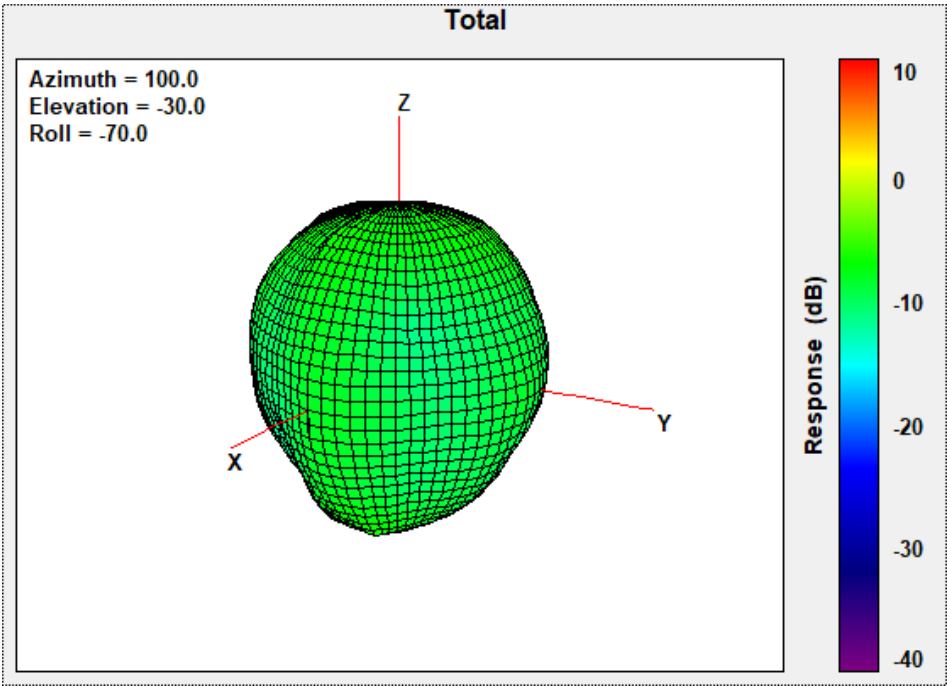
|                       |          |
|-----------------------|----------|
| Center Frequency      | 725.5MHz |
| Horizontal (dBi) peak | -7.21    |
| Vertical (dBi) peak   | -8.12    |

748MHz



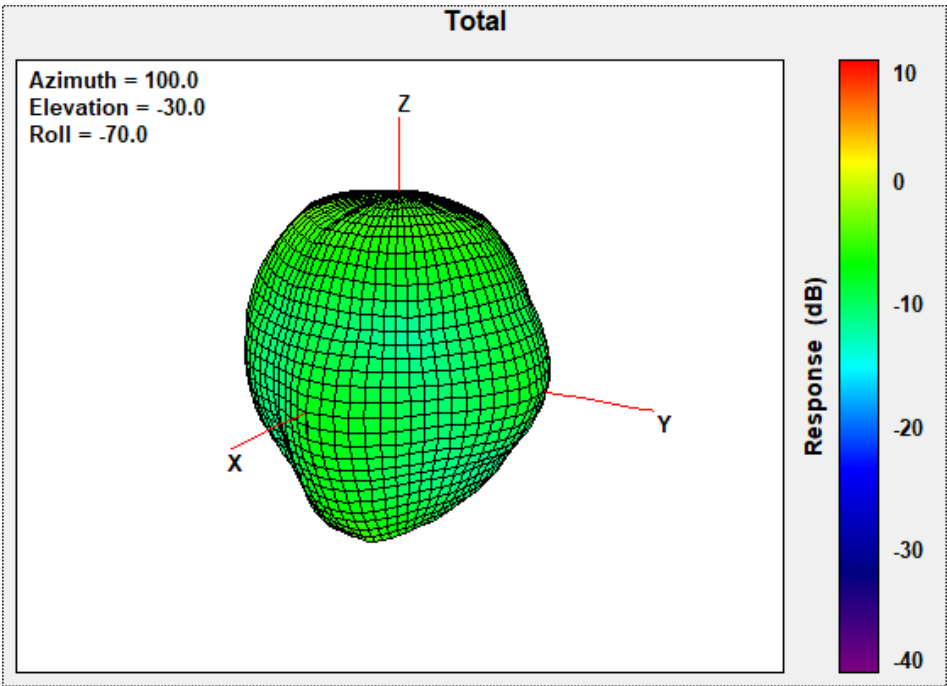
|                       |        |
|-----------------------|--------|
| Center Frequency      | 748MHz |
| Horizontal (dBi) peak | -7.67  |
| Vertical (dBi) peak   | -7.61  |

756MHz



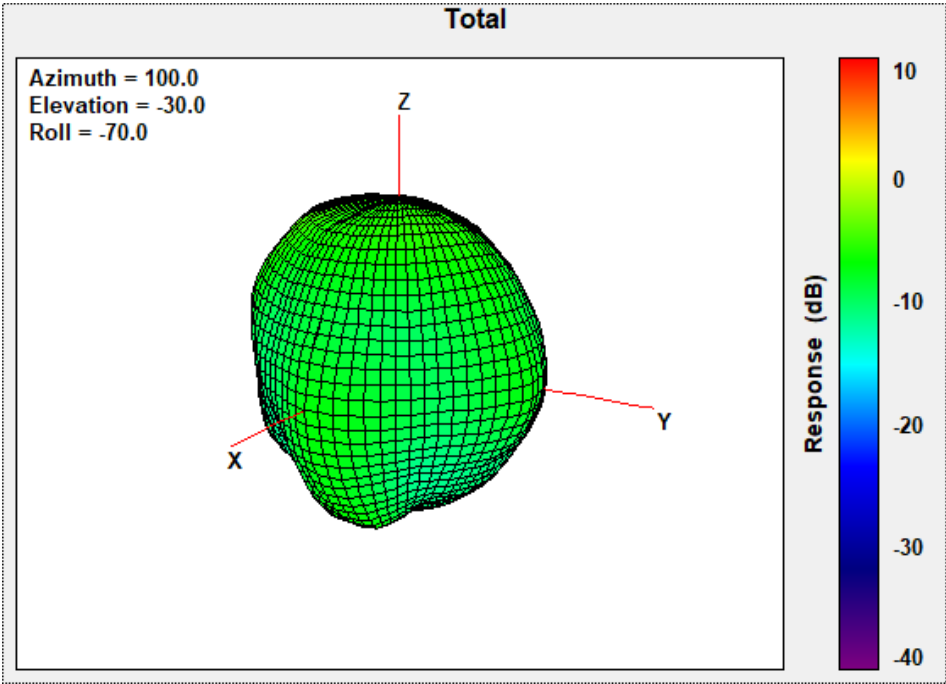
|                       |        |
|-----------------------|--------|
| Center Frequency      | 756MHz |
| Horizontal (dBi) peak | -7.51  |
| Vertical (dBi) peak   | -8.13  |

768MHz



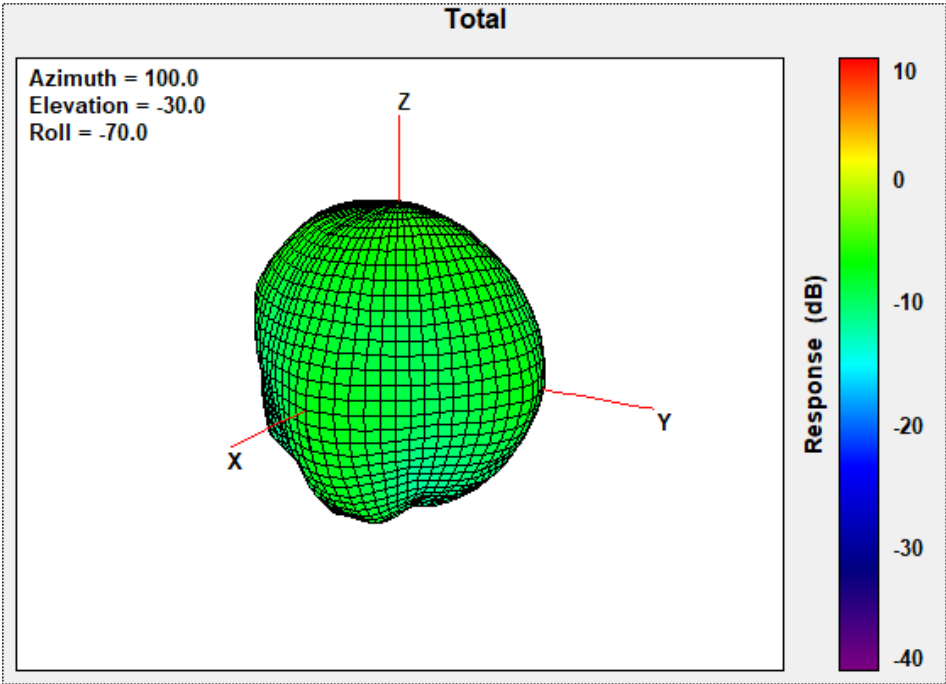
|                       |        |
|-----------------------|--------|
| Center Frequency      | 768MHz |
| Horizontal (dBi) peak | -7.13  |
| Vertical (dBi) peak   | -7.74  |

777MHz



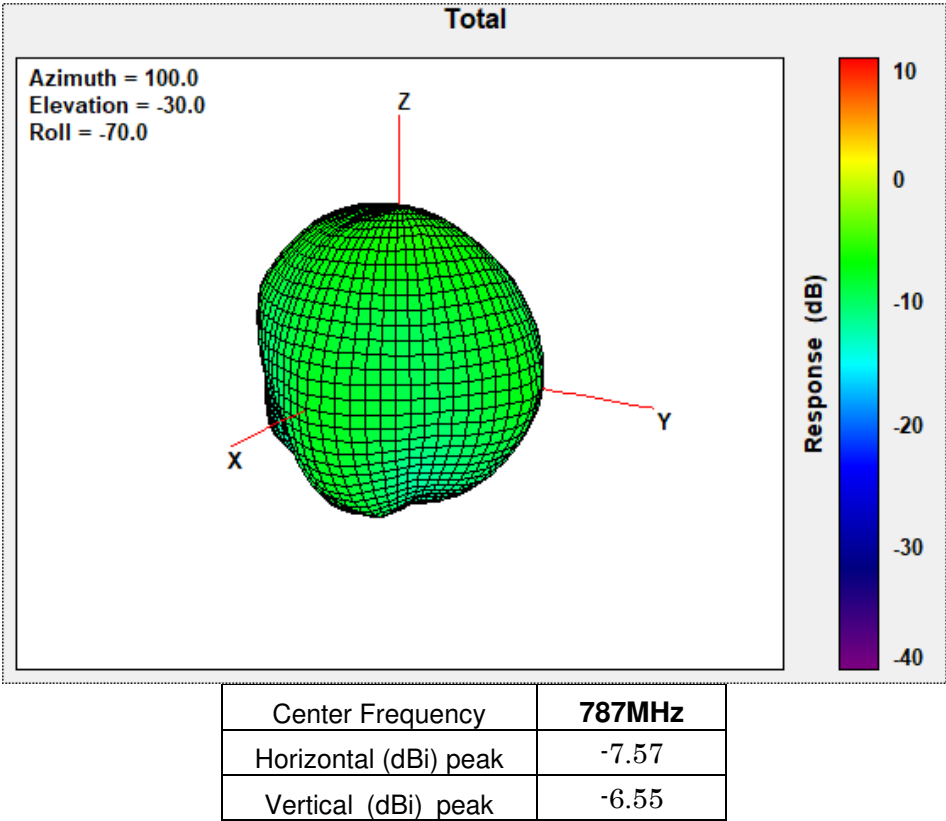
|                       |        |
|-----------------------|--------|
| Center Frequency      | 777MHz |
| Horizontal (dBi) peak | -7.35  |
| Vertical (dBi) peak   | -6.42  |

782MHz

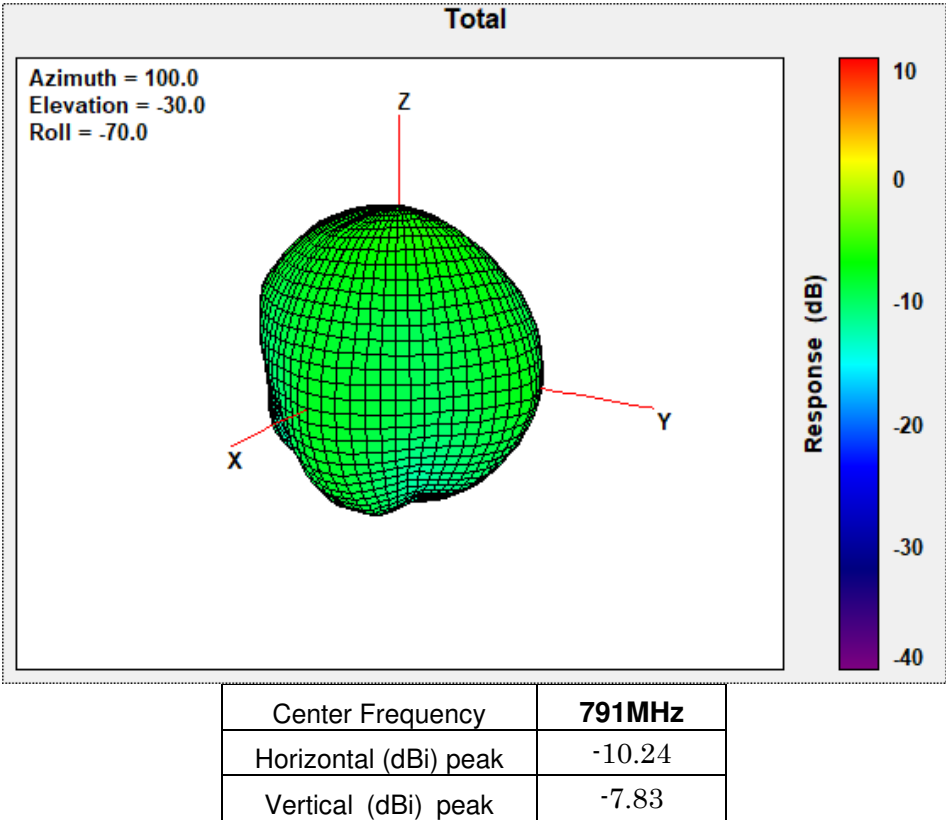


|                       |        |
|-----------------------|--------|
| Center Frequency      | 782MHz |
| Horizontal (dBi) peak | -7.33  |
| Vertical (dBi) peak   | -6.39  |

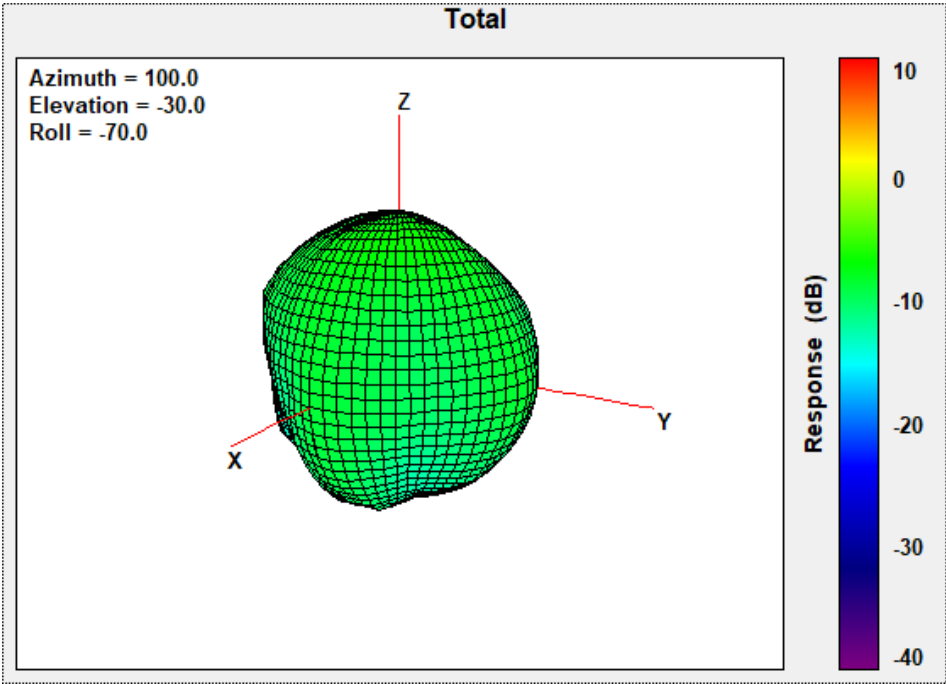
787MHz



791MHz

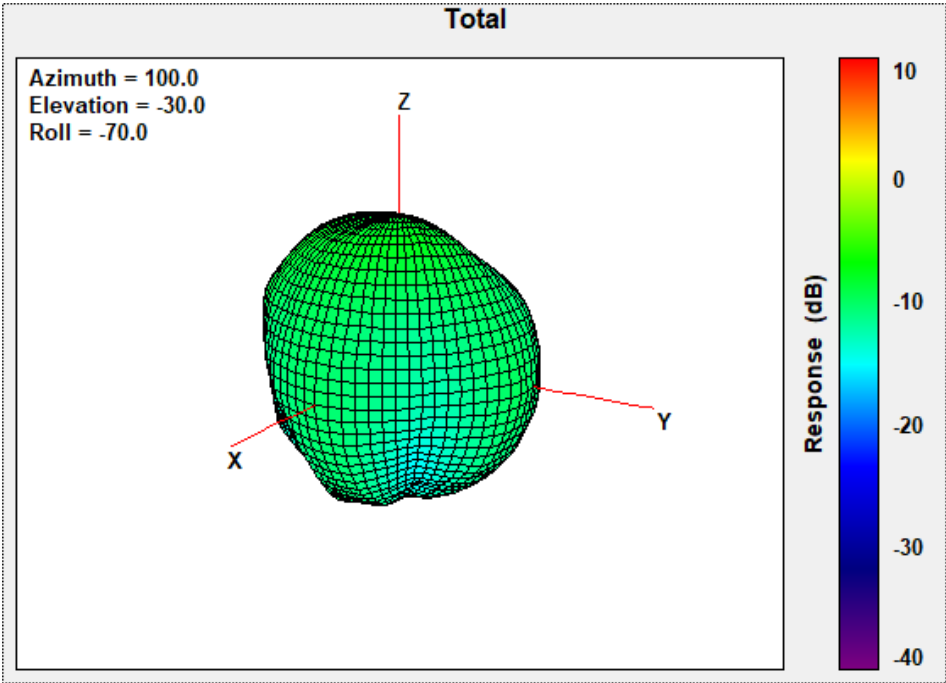


806MHz



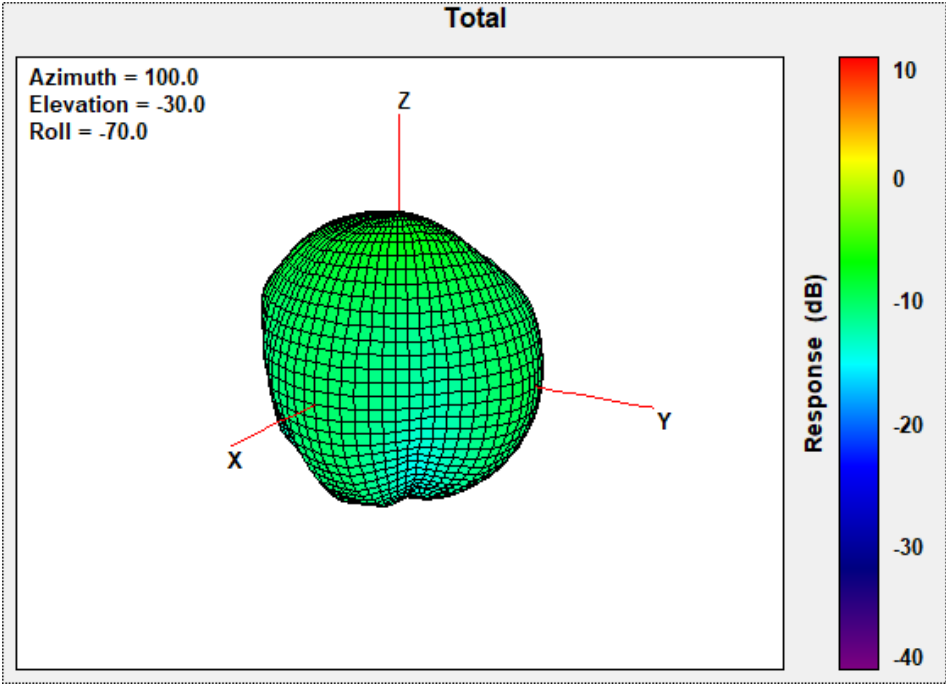
|                       |        |
|-----------------------|--------|
| Center Frequency      | 806MHz |
| Horizontal (dBi) peak | -7.13  |
| Vertical (dBi) peak   | -5.69  |

814MHz



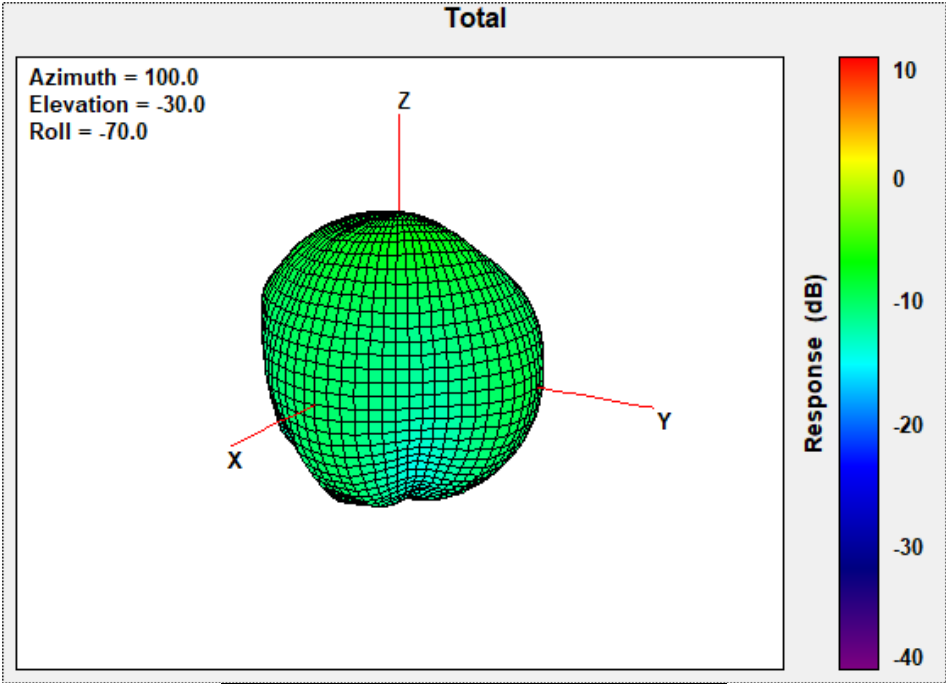
|                       |        |
|-----------------------|--------|
| Center Frequency      | 814MHz |
| Horizontal (dBi) peak | -5.4   |
| Vertical (dBi) peak   | -6.94  |

821MHz



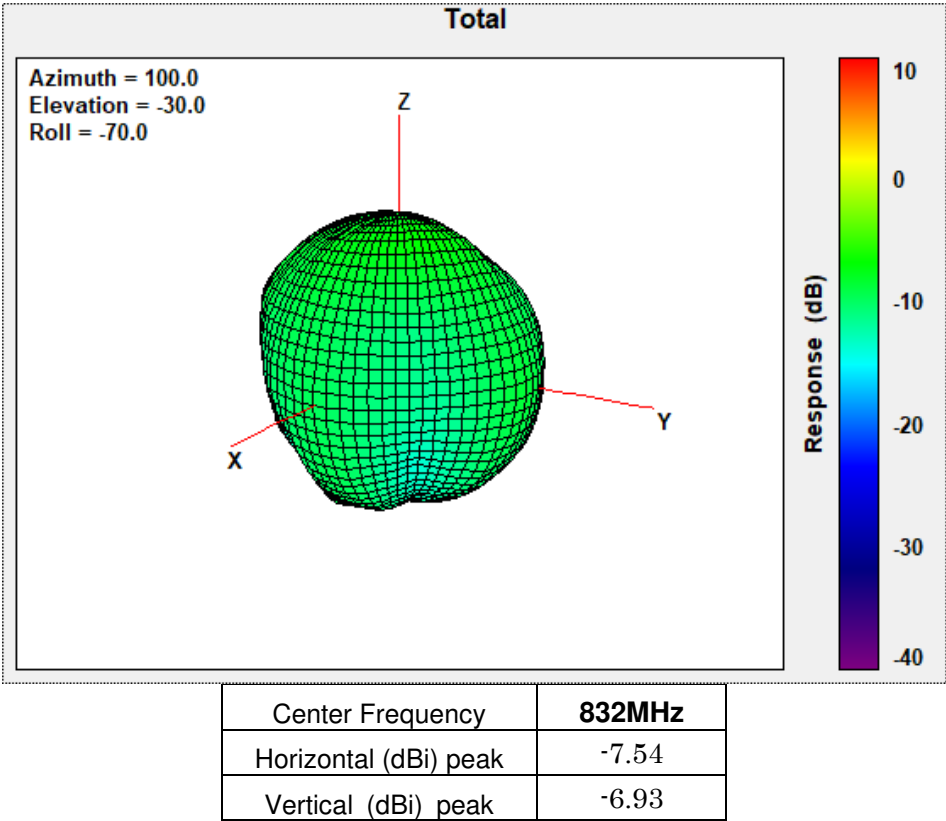
|                       |        |
|-----------------------|--------|
| Center Frequency      | 821MHz |
| Horizontal (dBi) peak | -5.99  |
| Vertical (dBi) peak   | -6.84  |

824MHz

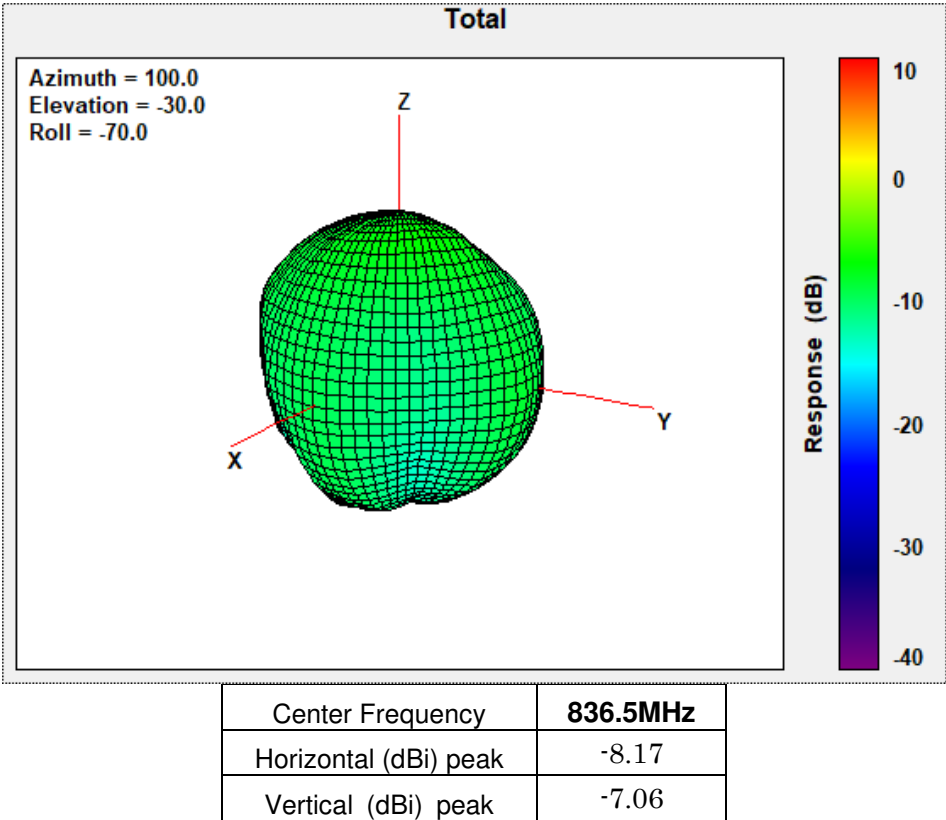


|                       |        |
|-----------------------|--------|
| Center Frequency      | 824MHz |
| Horizontal (dBi) peak | -6.27  |
| Vertical (dBi) peak   | -7.07  |

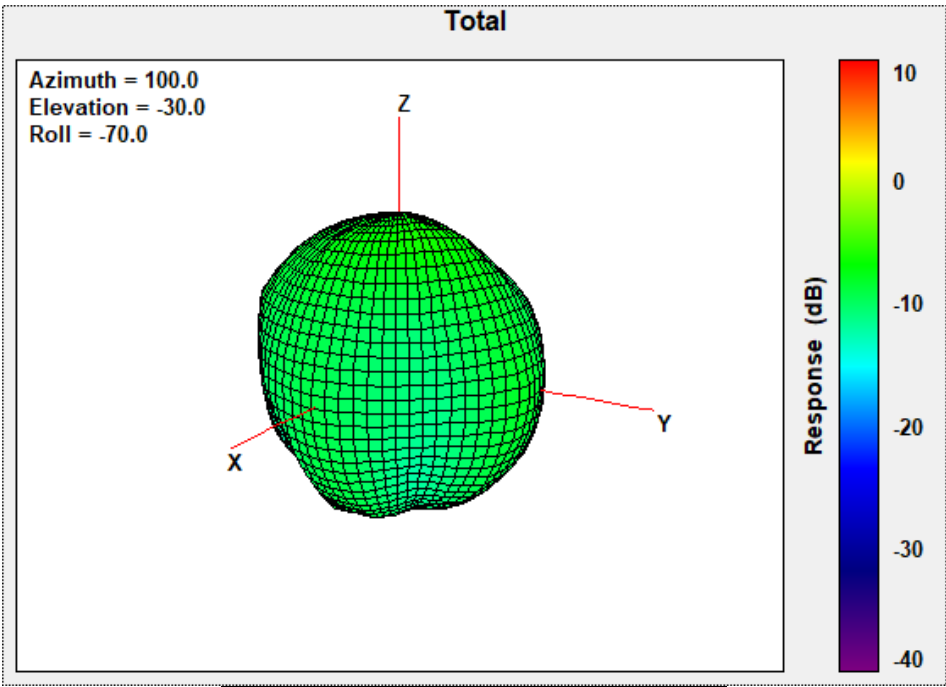
832MHz



836.5MHz

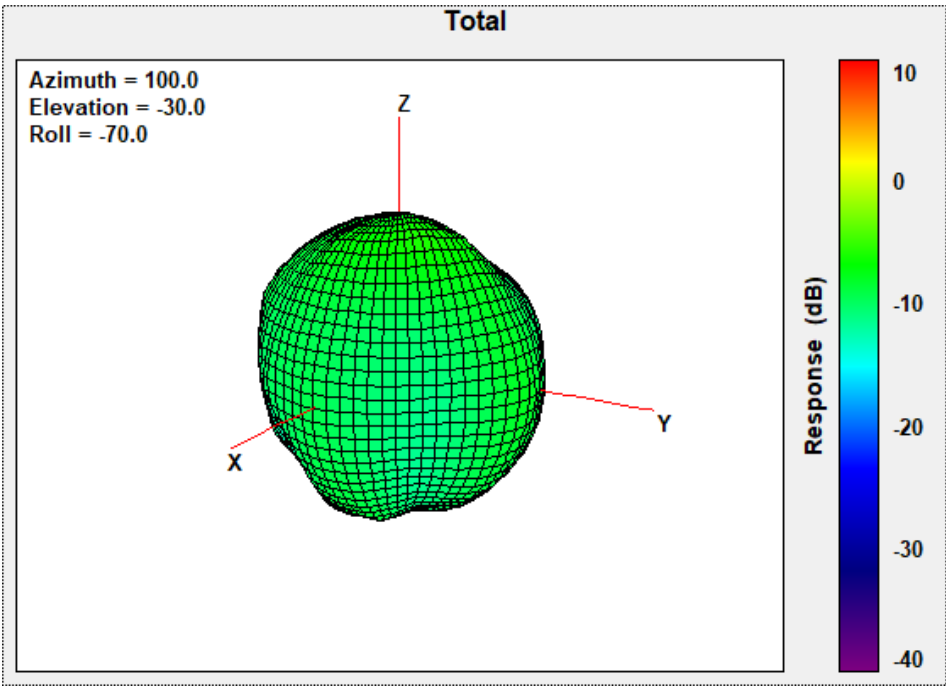


849MHz



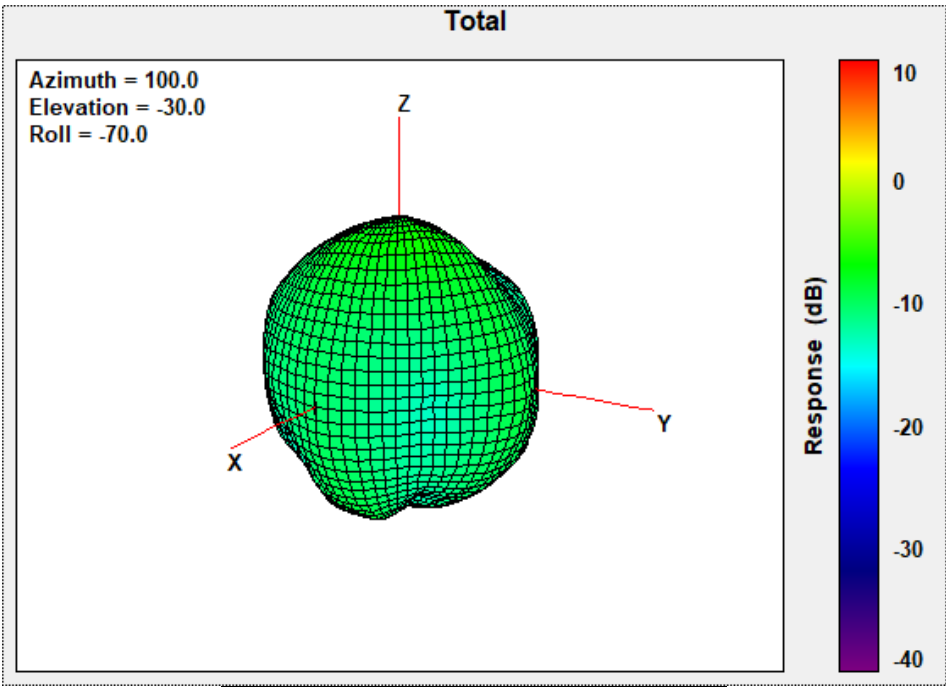
|                       |        |
|-----------------------|--------|
| Center Frequency      | 849MHz |
| Horizontal (dBi) peak | -7.68  |
| Vertical (dBi) peak   | -6.94  |

862MHz



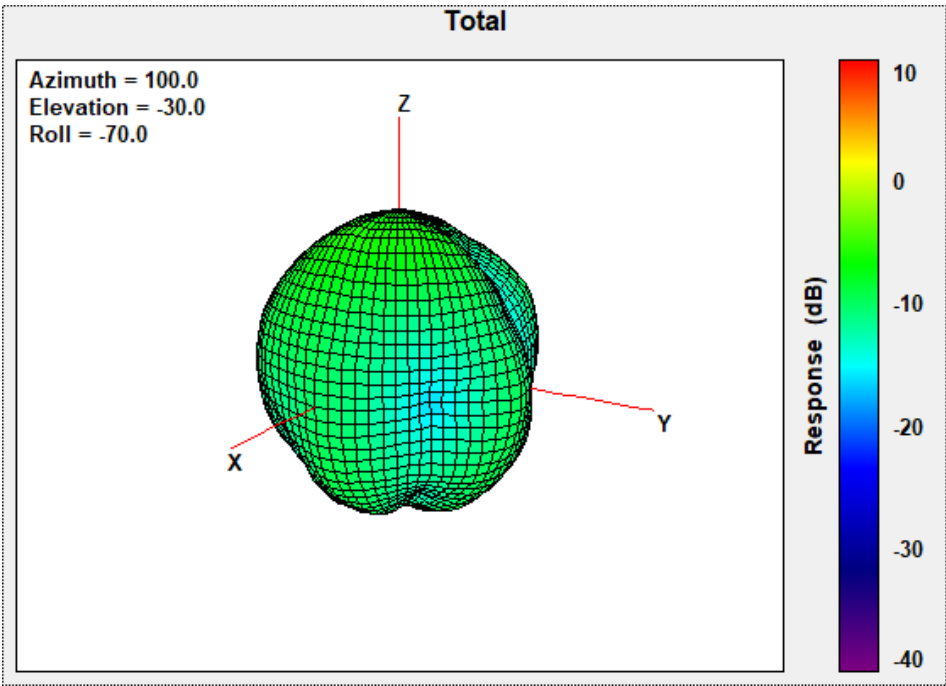
|                       |        |
|-----------------------|--------|
| Center Frequency      | 862MHz |
| Horizontal (dBi) peak | -8     |
| Vertical (dBi) peak   | -7.57  |

880MHz



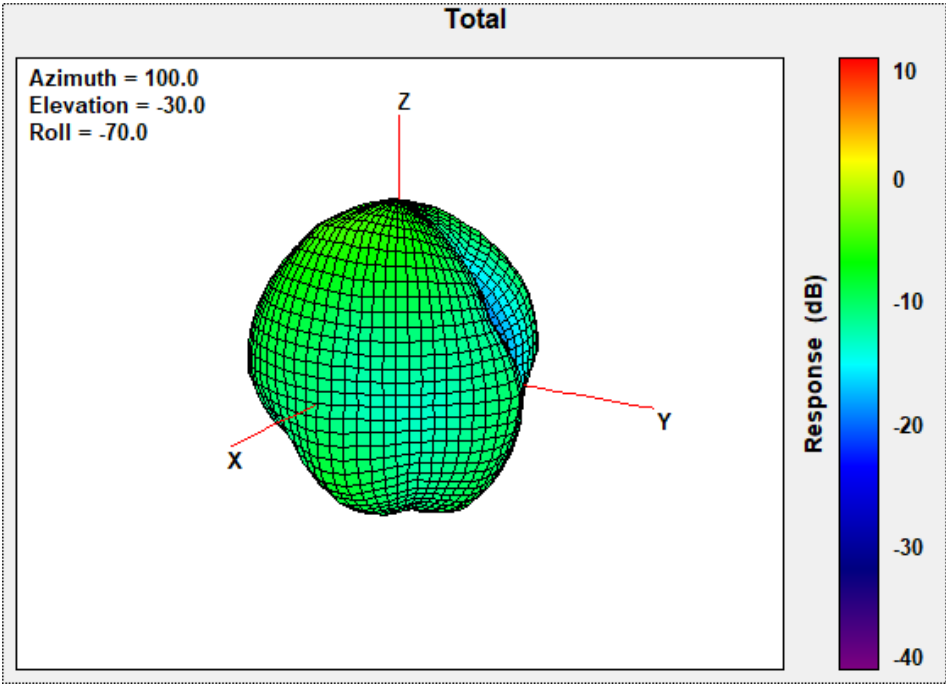
|                       |        |
|-----------------------|--------|
| Center Frequency      | 880MHz |
| Horizontal (dBi) peak | -6.12  |
| Vertical (dBi) peak   | -7.68  |

897.5MHz



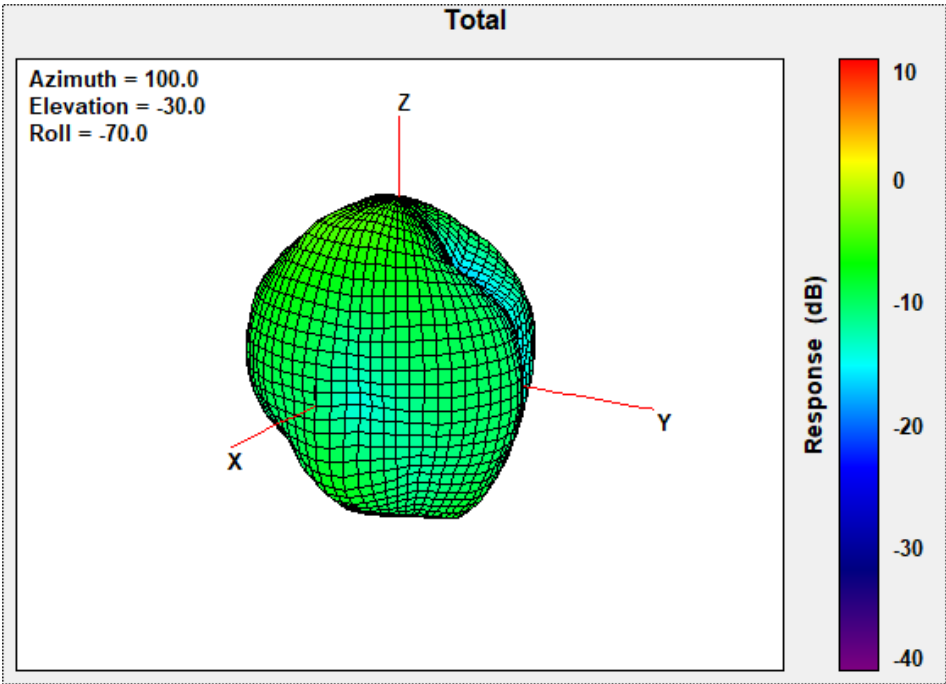
|                       |          |
|-----------------------|----------|
| Center Frequency      | 897.5MHz |
| Horizontal (dBi) peak | -6.54    |
| Vertical (dBi) peak   | -8.56    |

915MHz



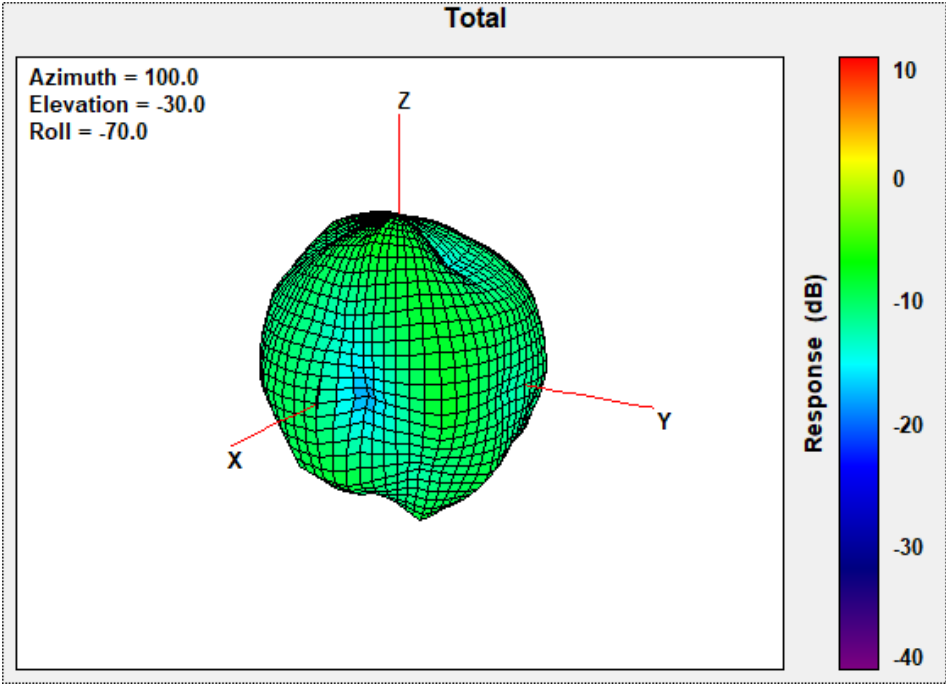
|                       |        |
|-----------------------|--------|
| Center Frequency      | 915MHz |
| Horizontal (dBi) peak | -7.39  |
| Vertical (dBi) peak   | -7.81  |

925MHz



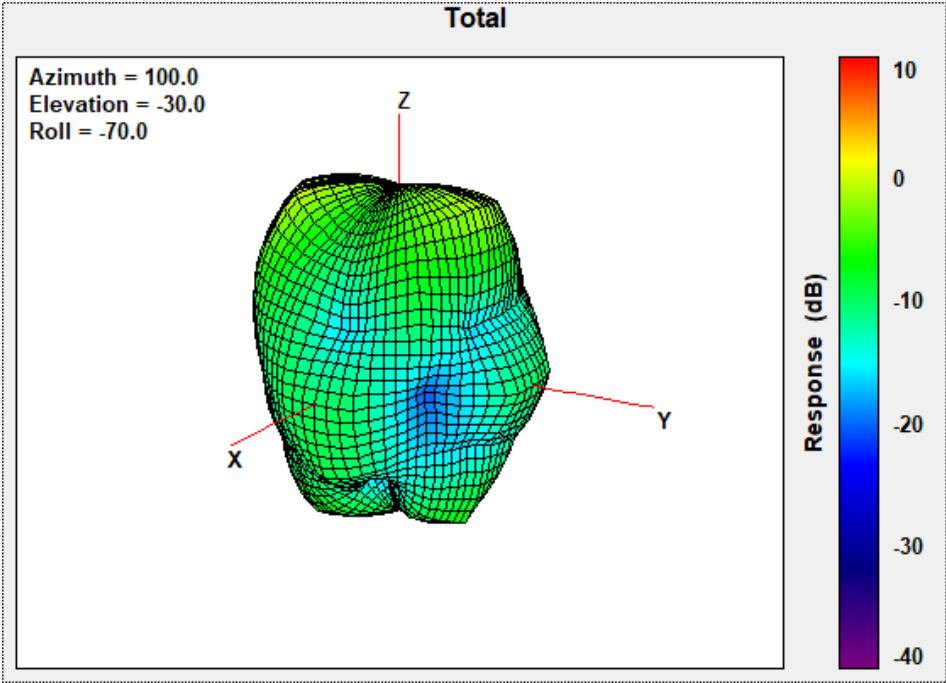
|                       |        |
|-----------------------|--------|
| Center Frequency      | 925MHz |
| Horizontal (dBi) peak | -7.82  |
| Vertical (dBi) peak   | -7.12  |

960MHz



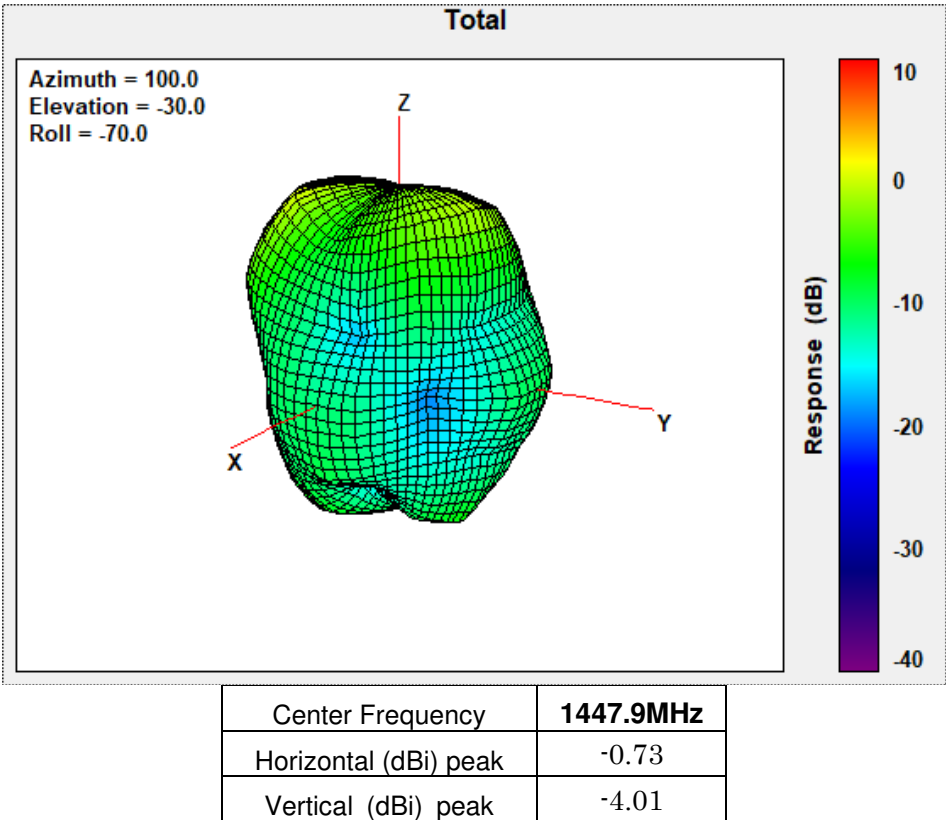
|                       |        |
|-----------------------|--------|
| Center Frequency      | 960MHz |
| Horizontal (dBi) peak | -4.67  |
| Vertical (dBi) peak   | -5.11  |

1427.9MHz

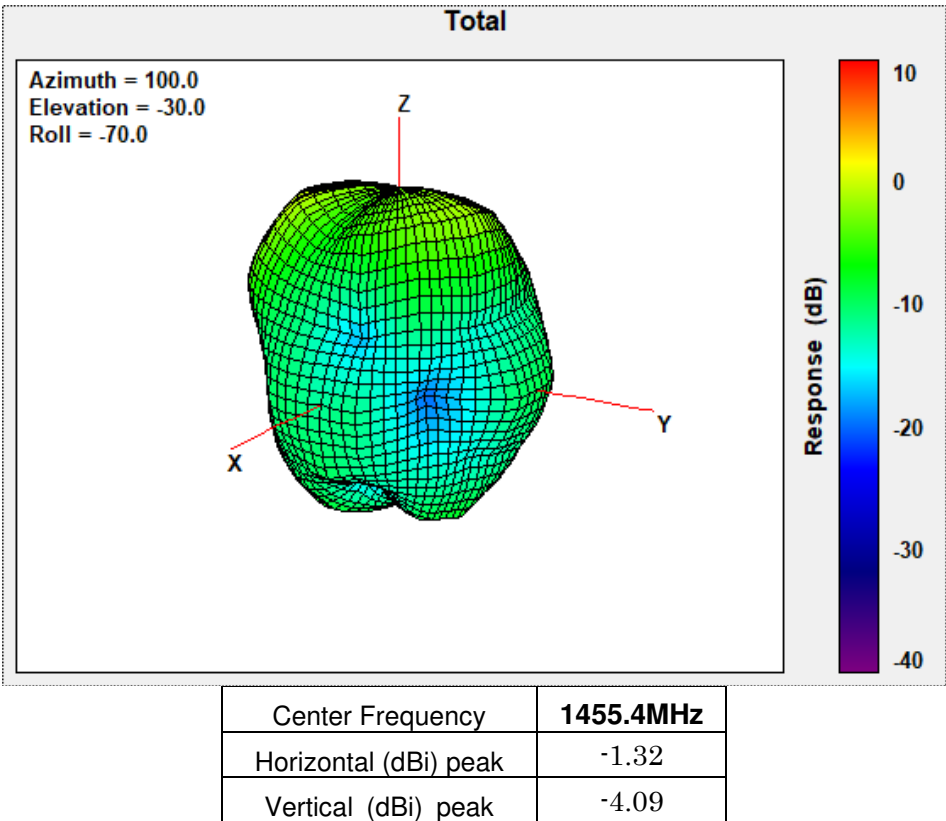


|                       |           |
|-----------------------|-----------|
| Center Frequency      | 1427.9MHz |
| Horizontal (dBi) peak | 0.32      |
| Vertical (dBi) peak   | -4.33     |

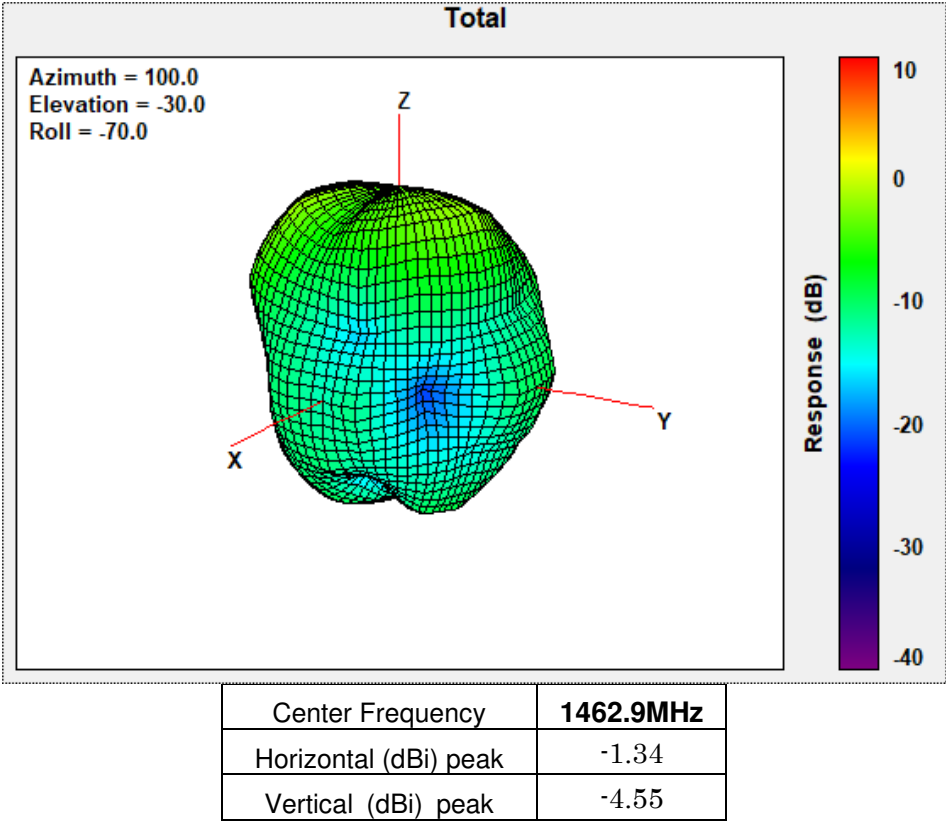
1447.9MHz



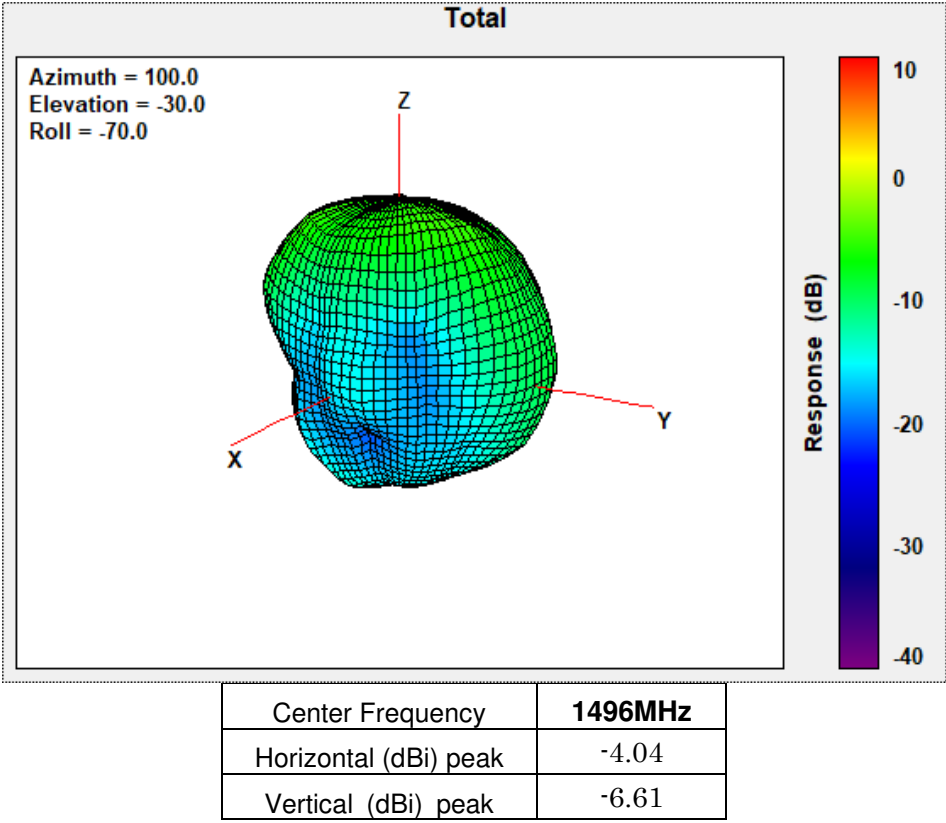
1455.4MHz



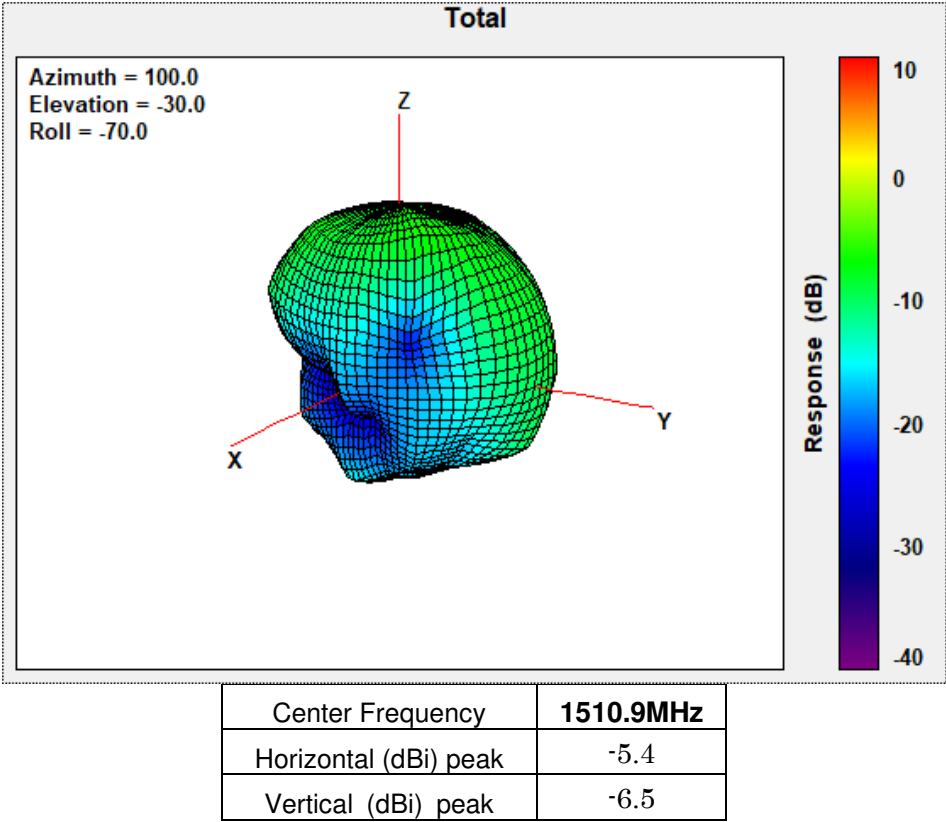
1462.9MHz



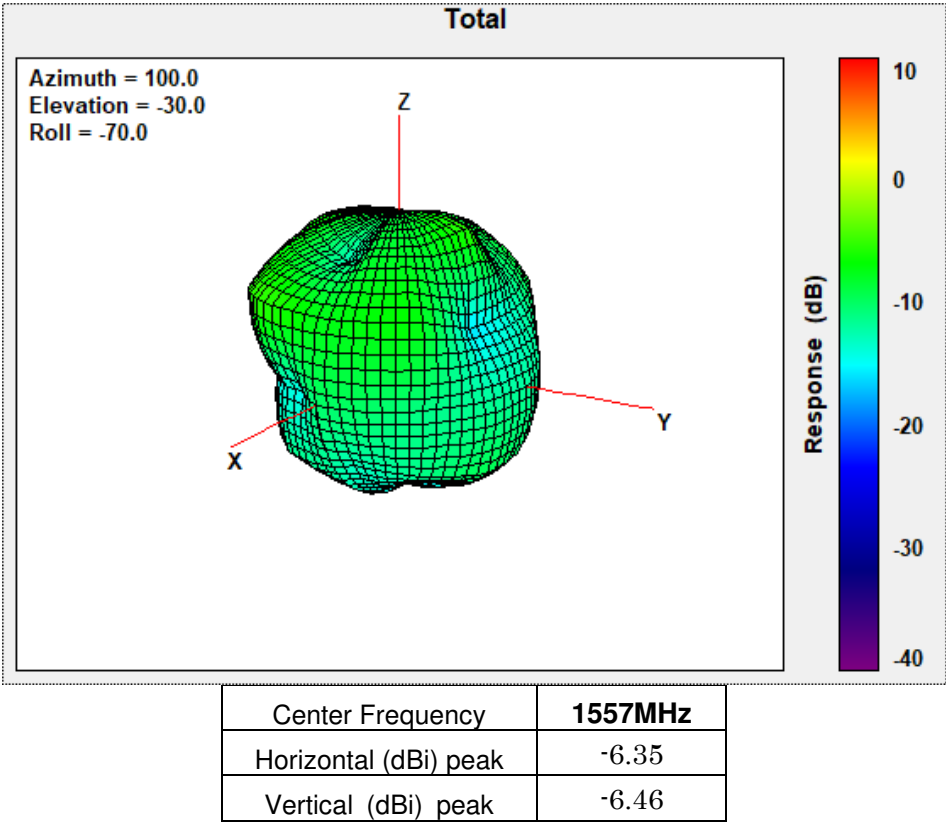
1496MHz



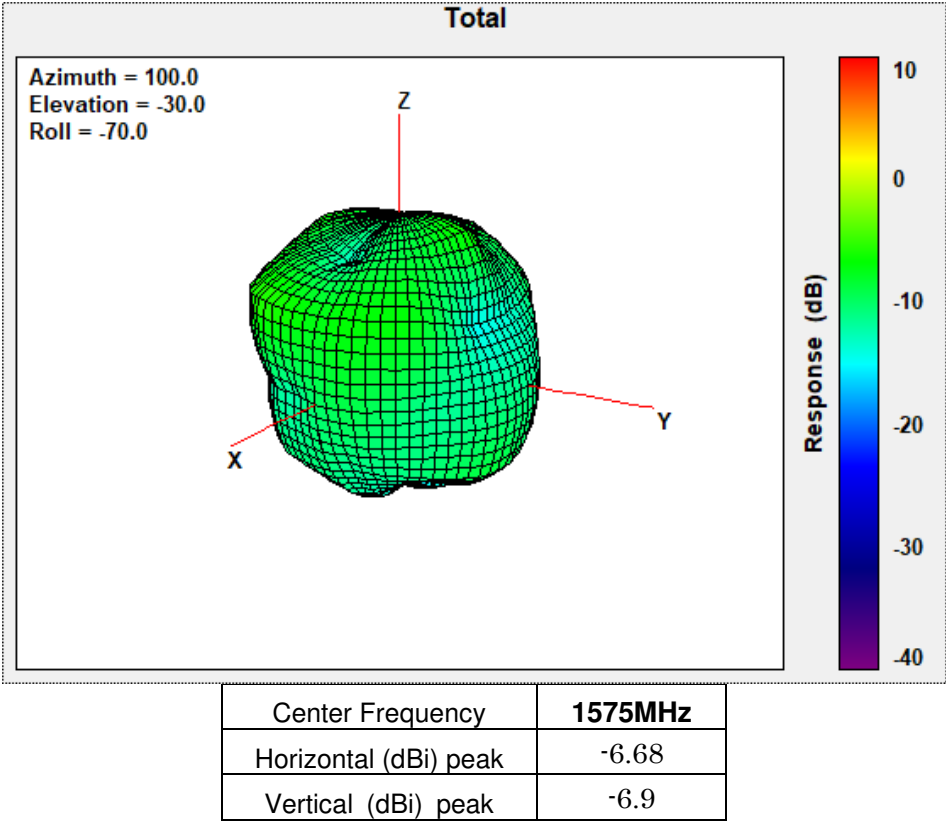
1510.9MHz



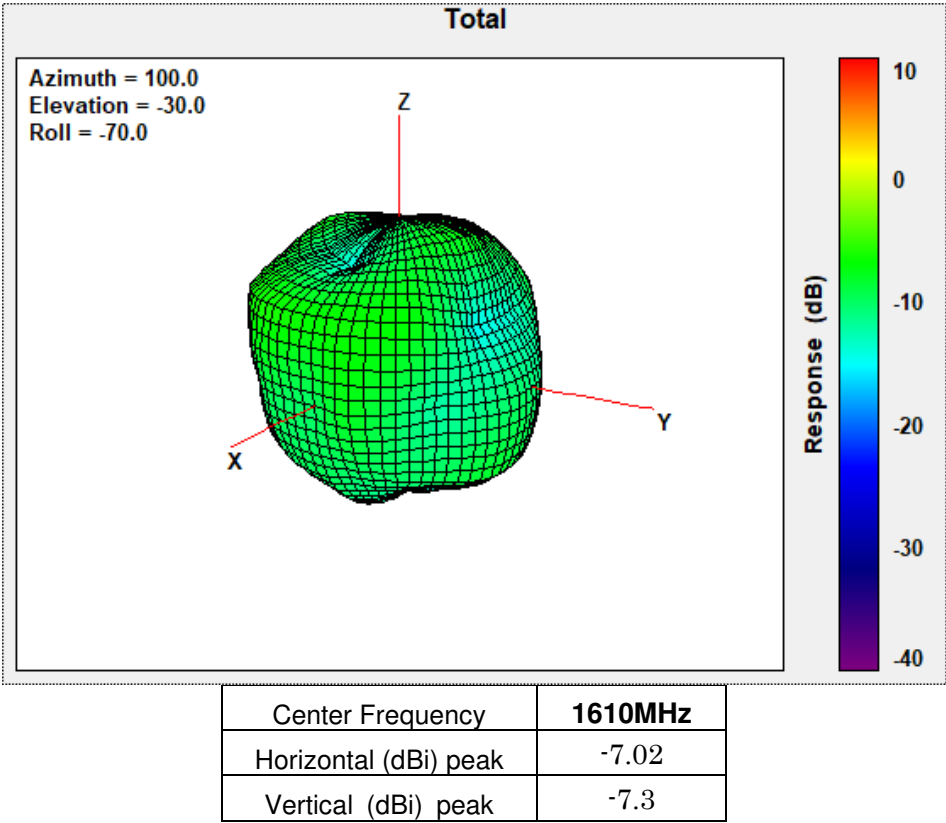
1557MHz



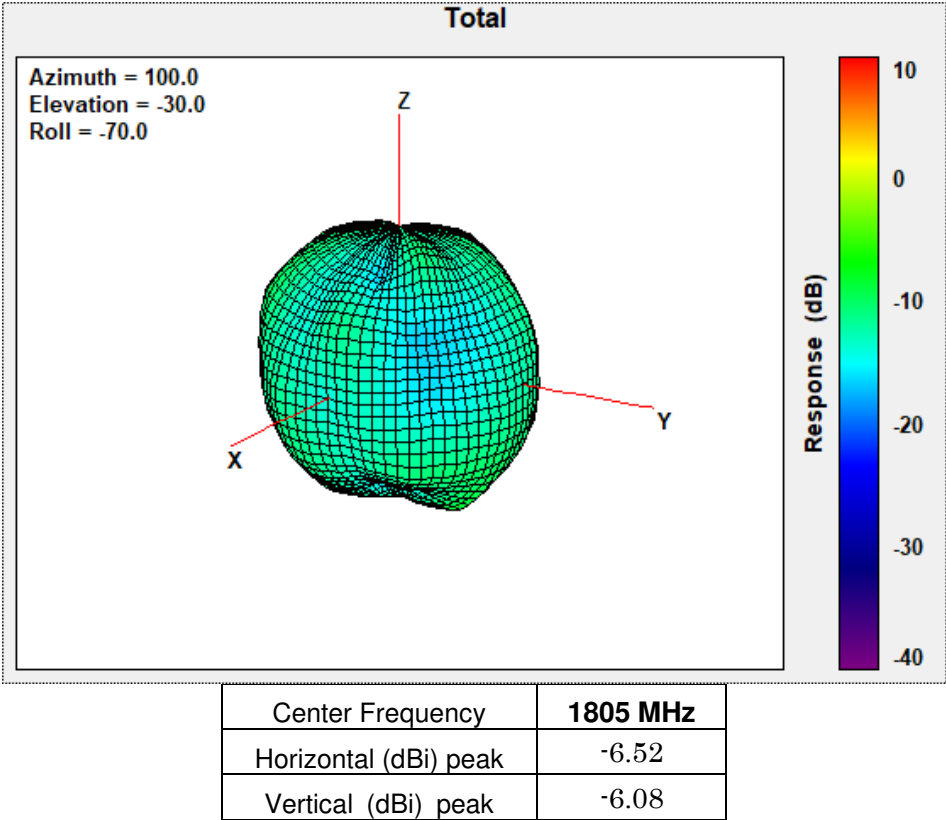
1575MHz



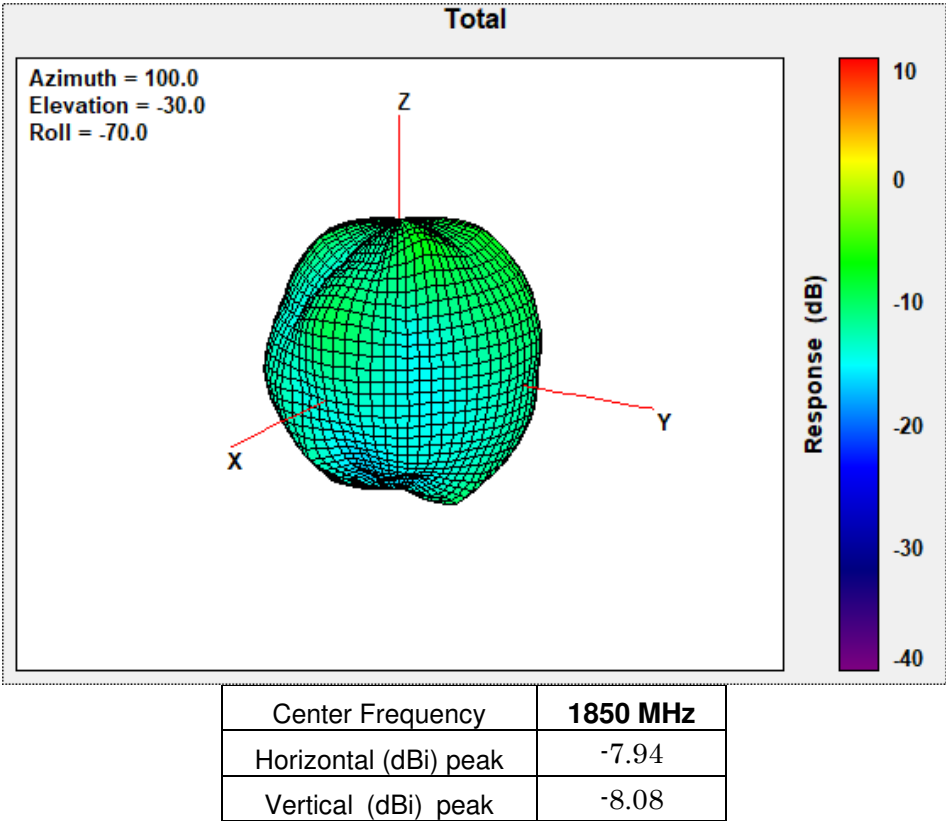
1610MHz



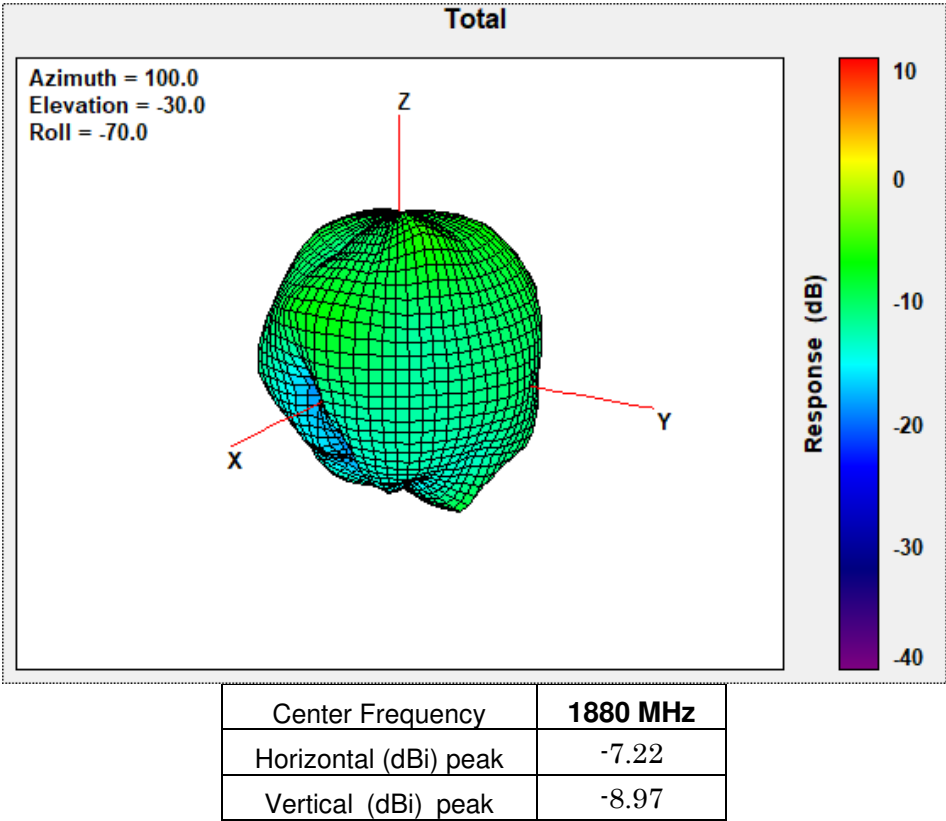
1805 MHz



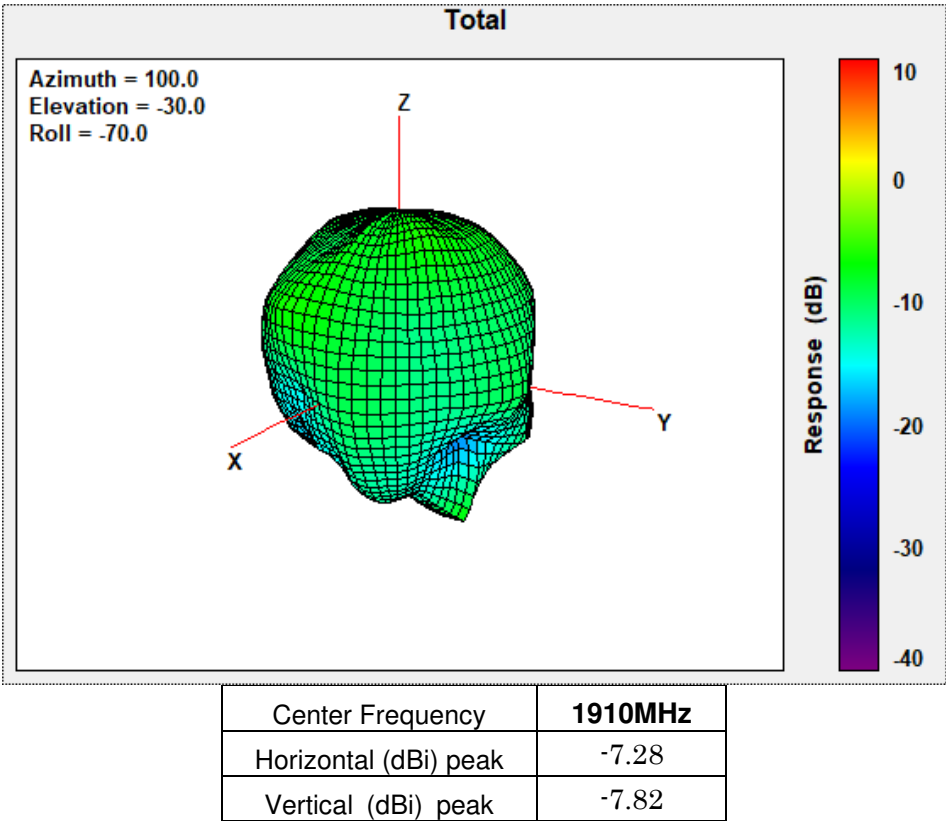
1850 MHz



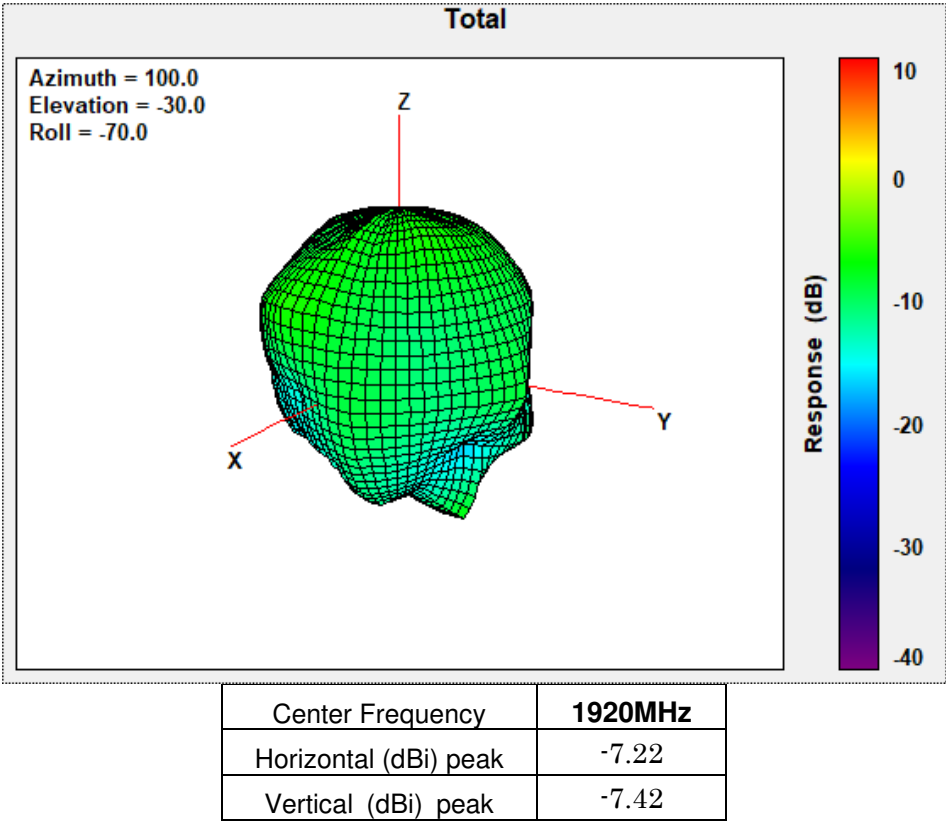
1880 MHz



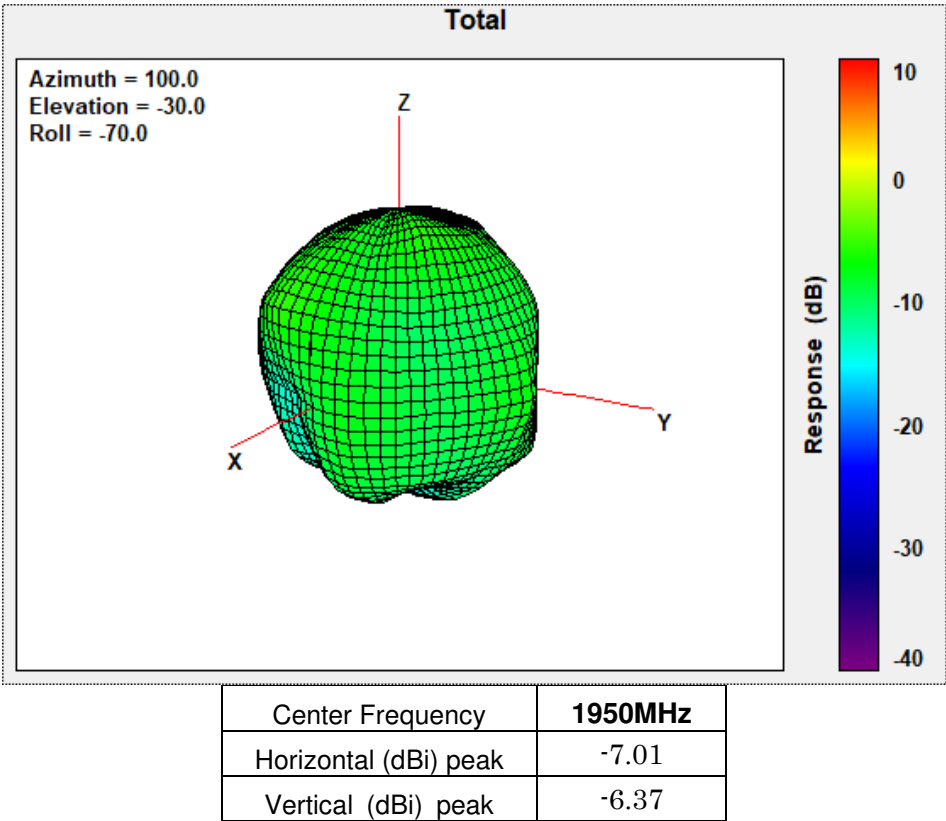
1910MHz



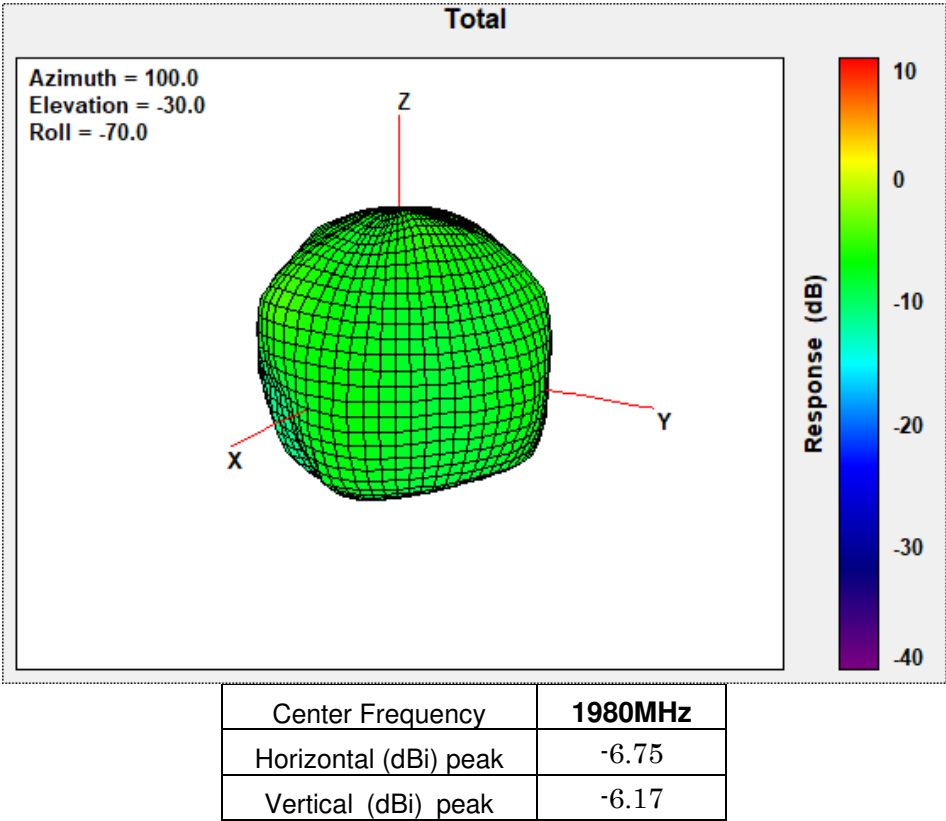
1920MHz



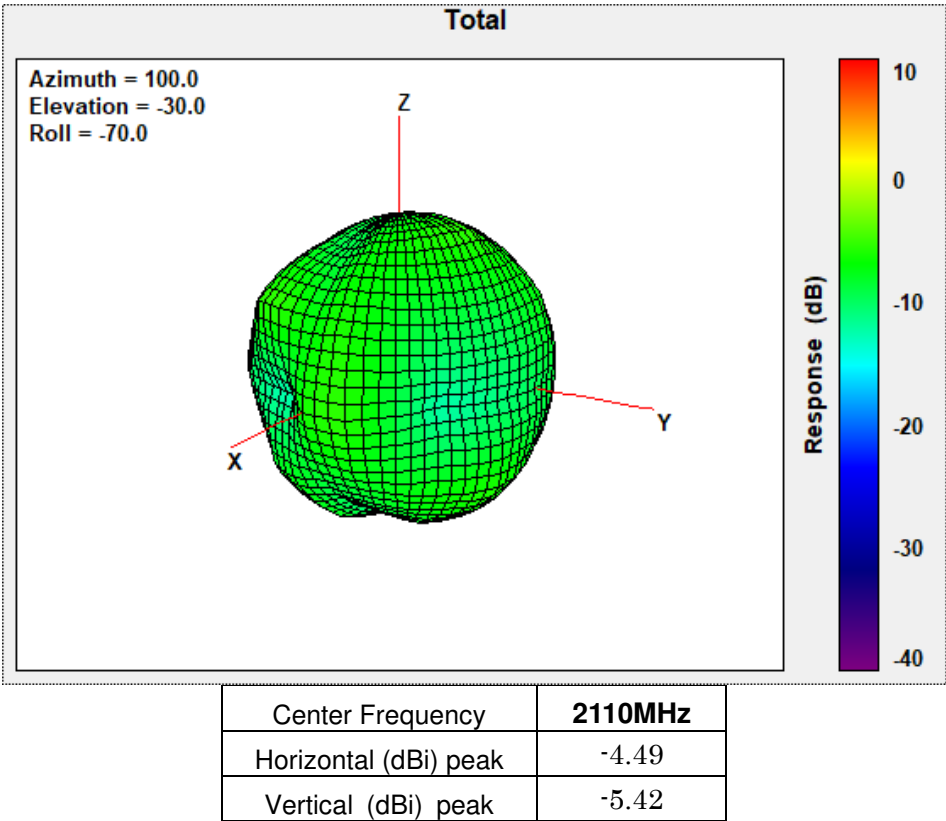
1950MHz



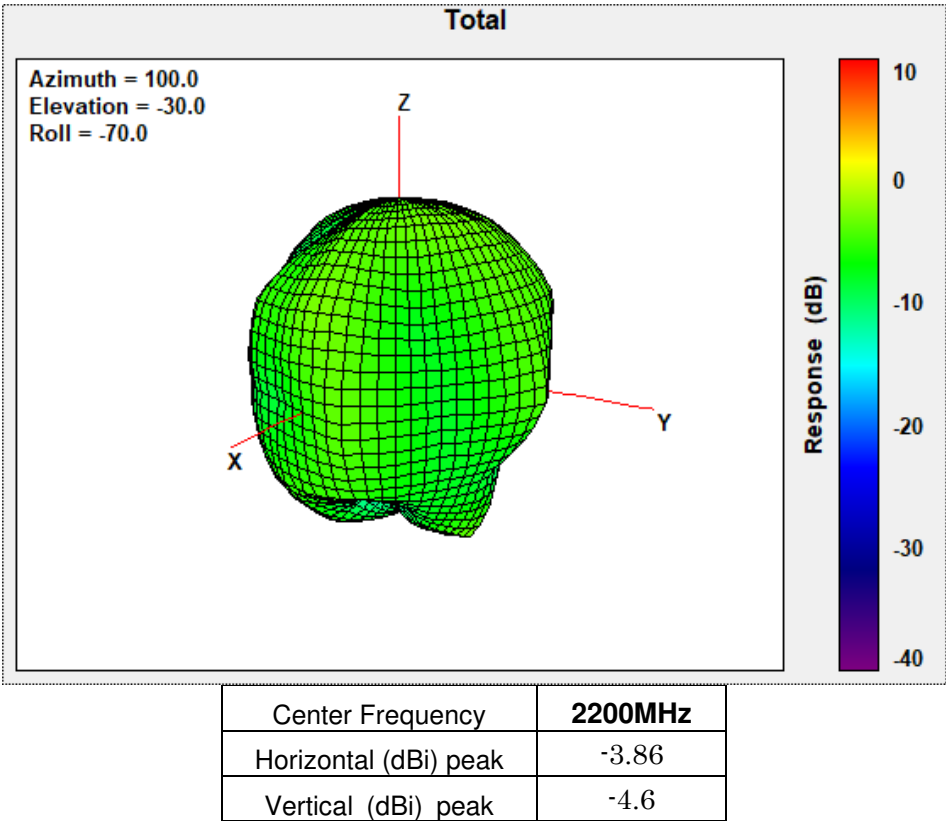
1980MHz



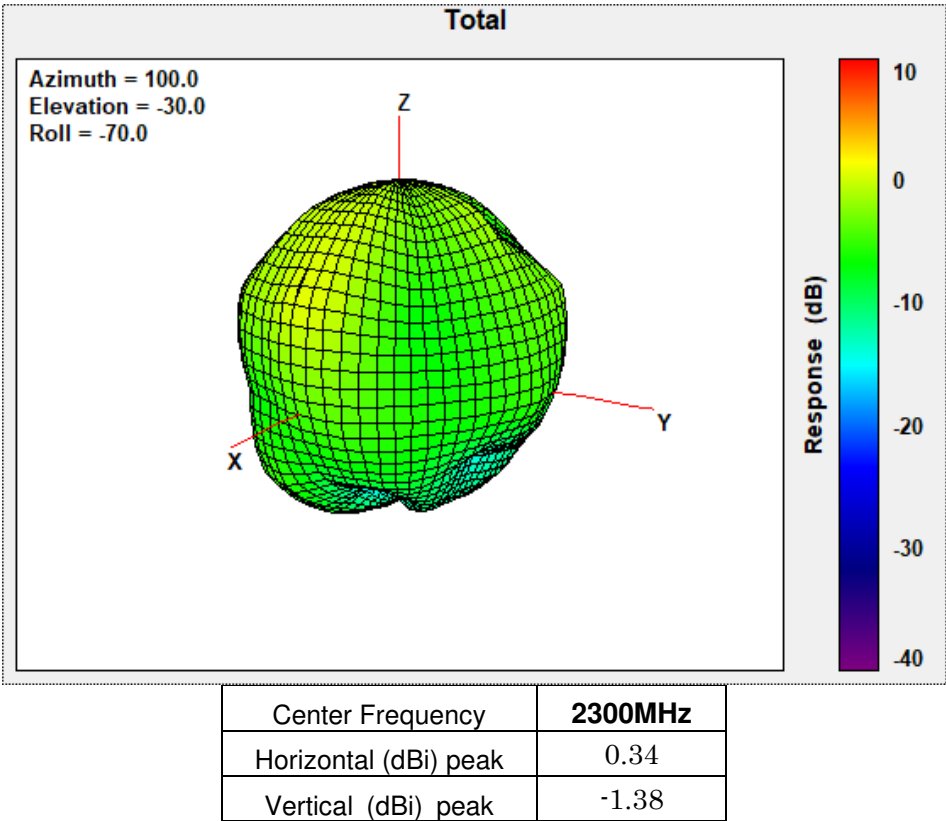
2110MHz



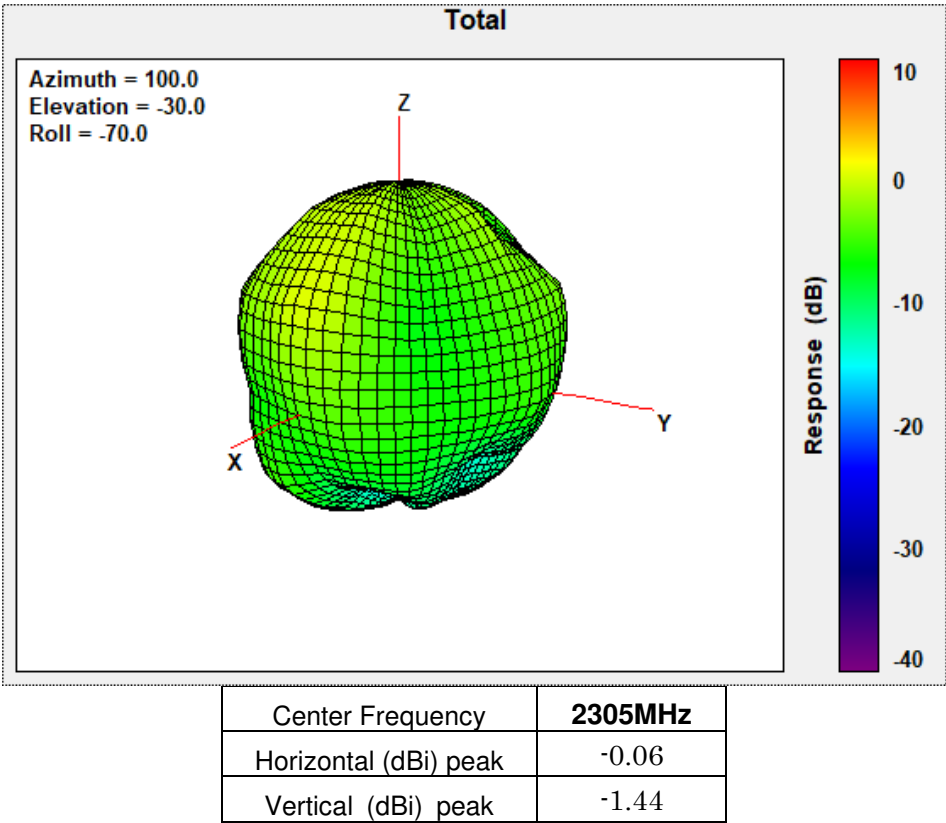
2200MHz



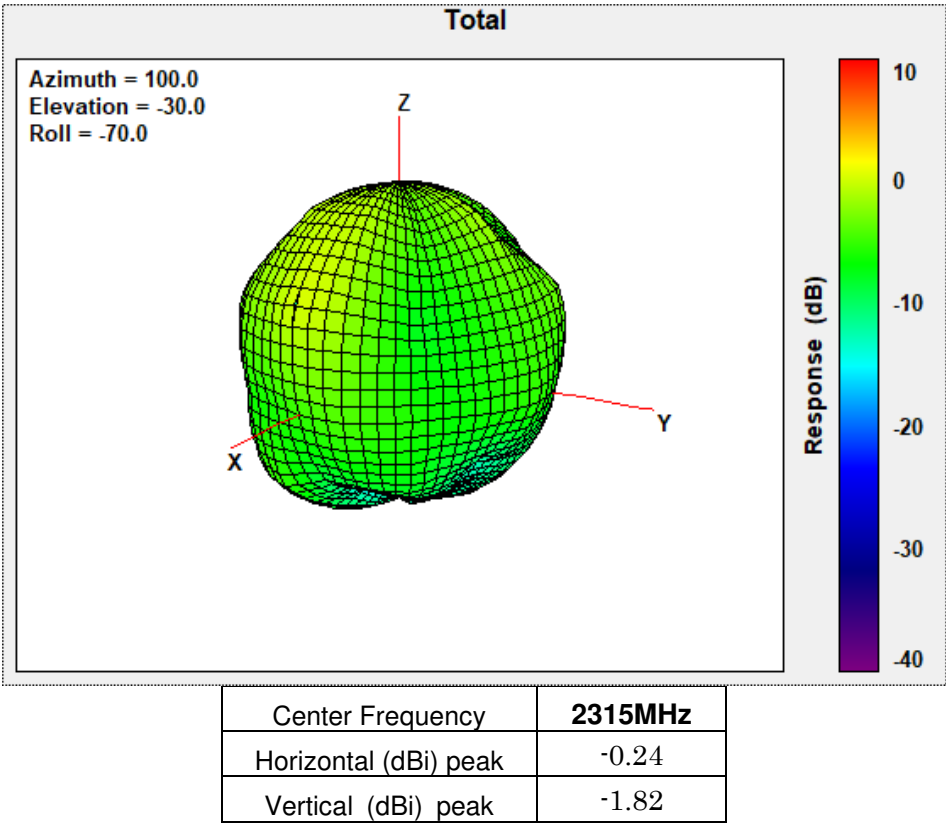
2300MHz



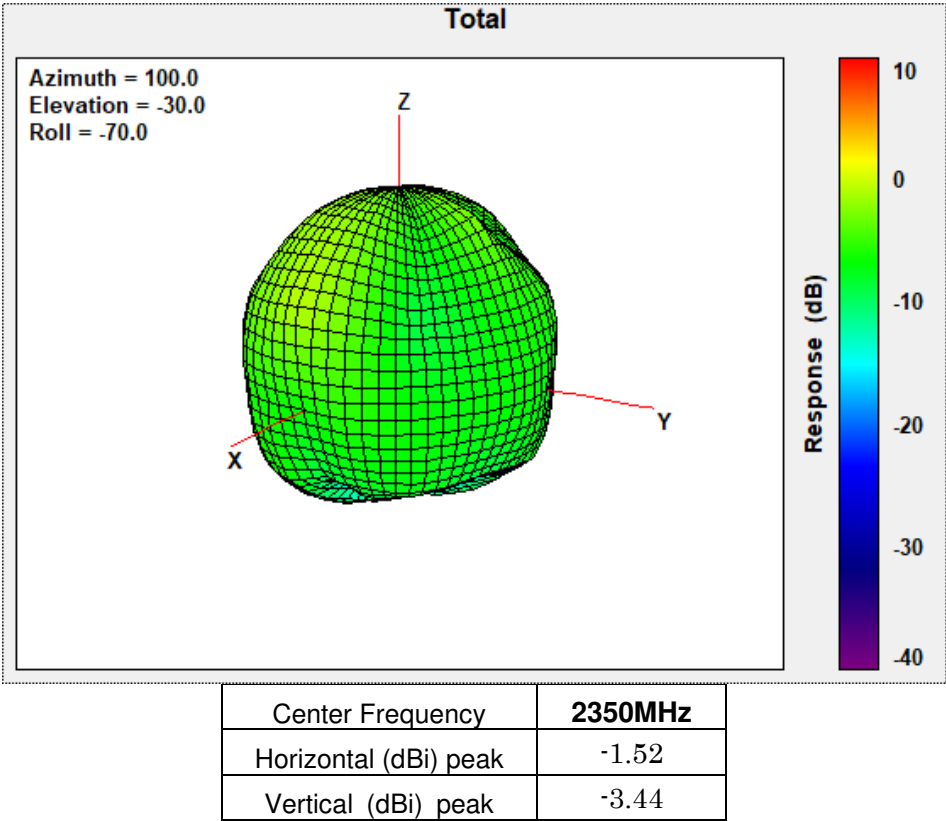
2305MHz



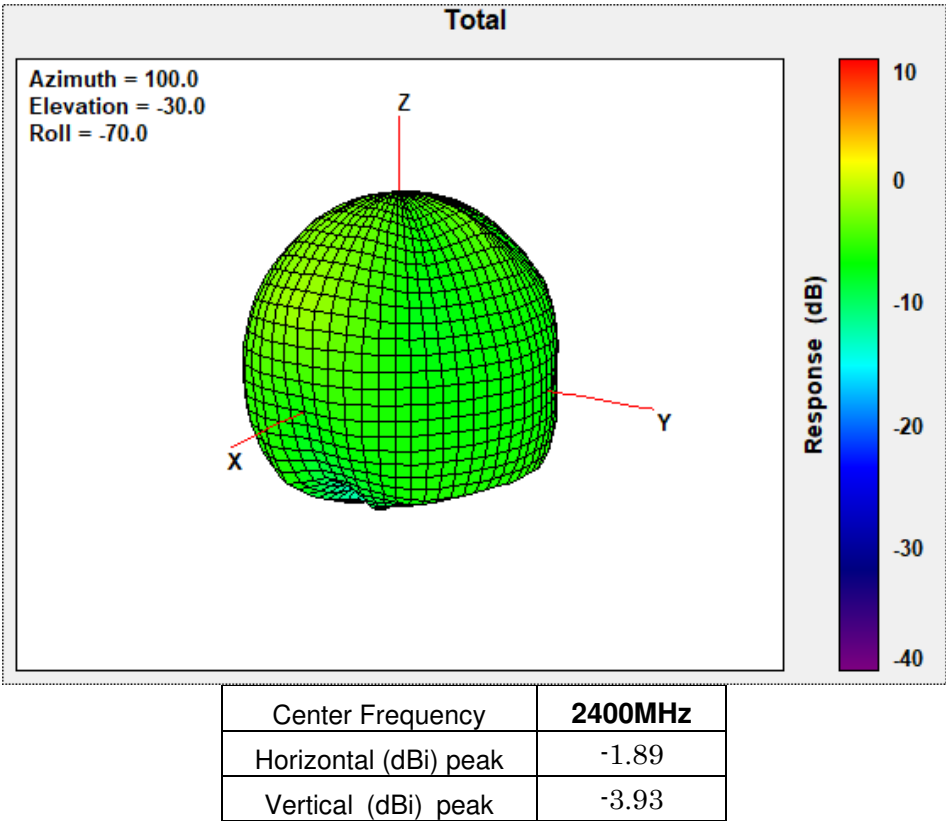
2315MHz



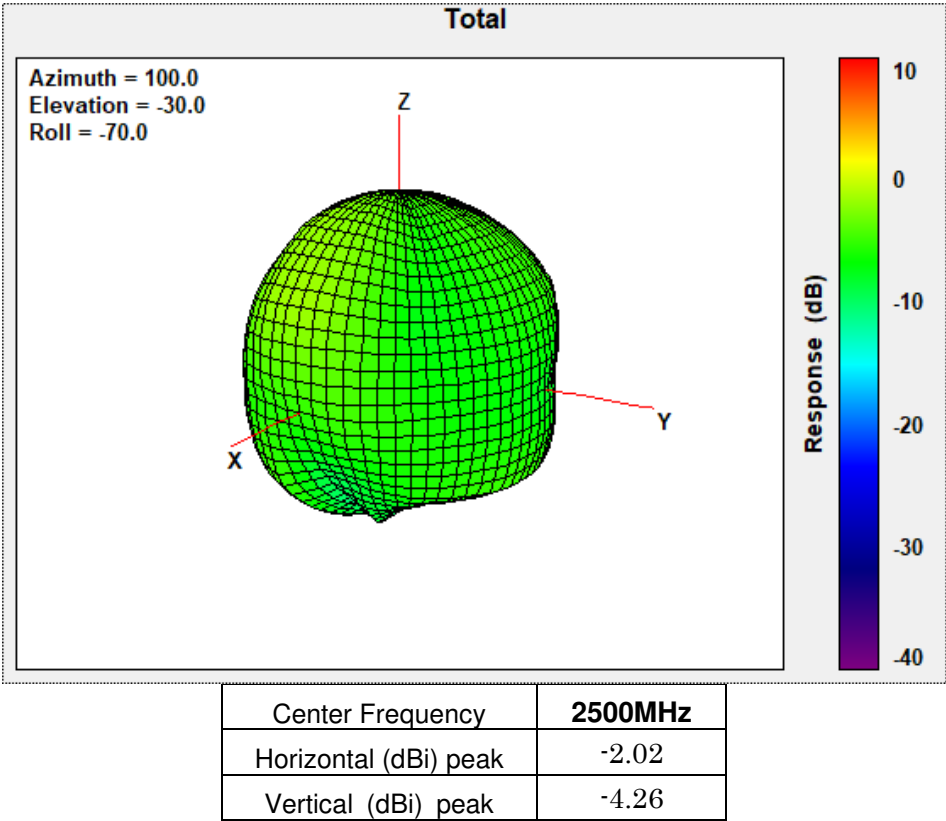
2350MHz



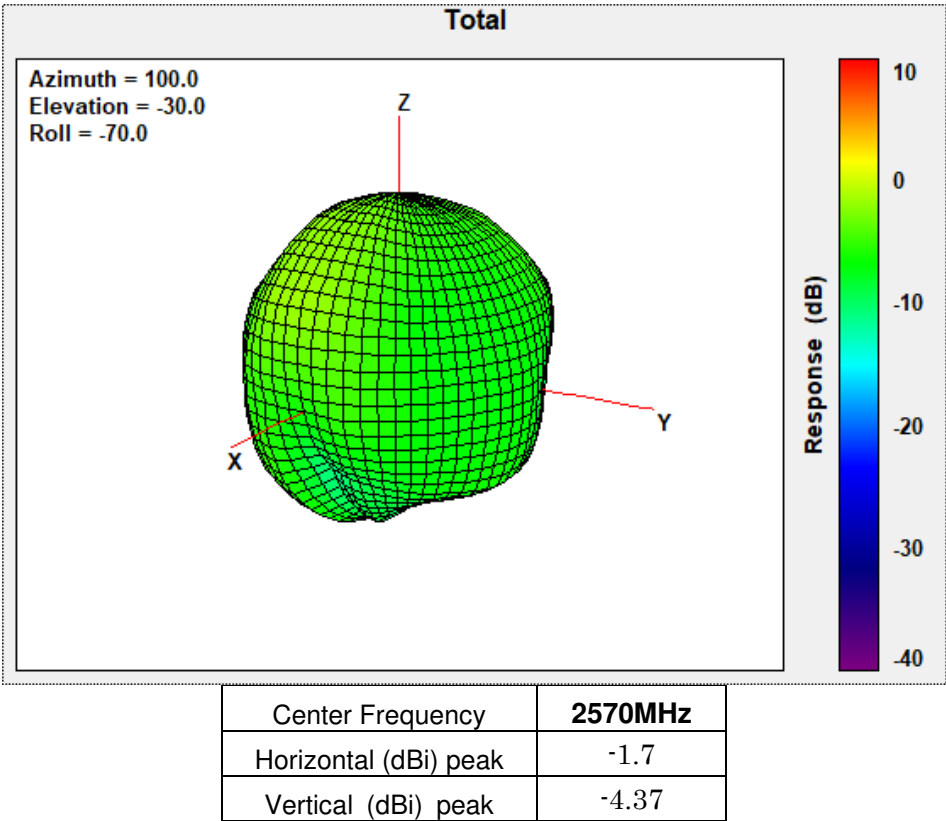
2400MHz



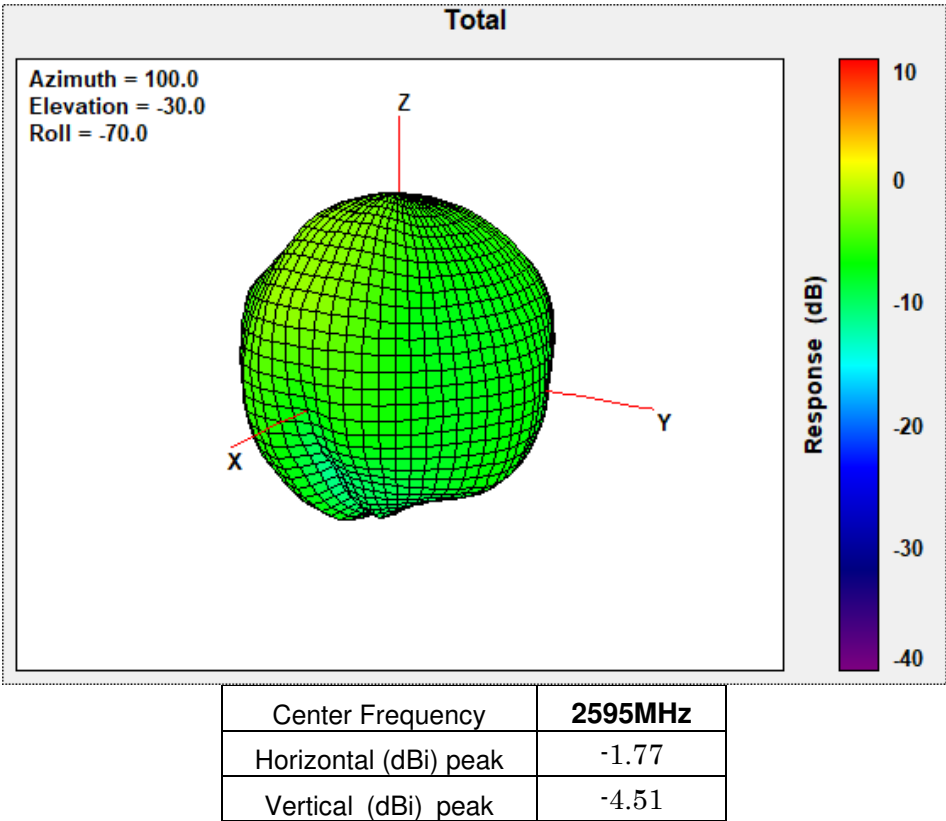
2500MHz



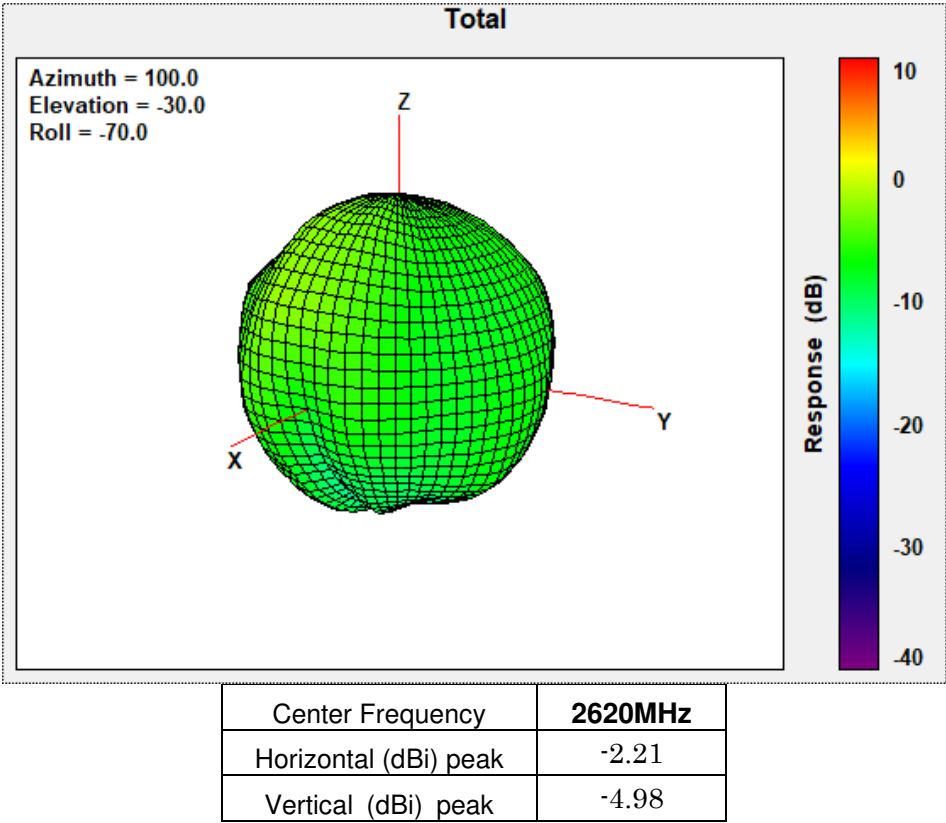
2570MHz



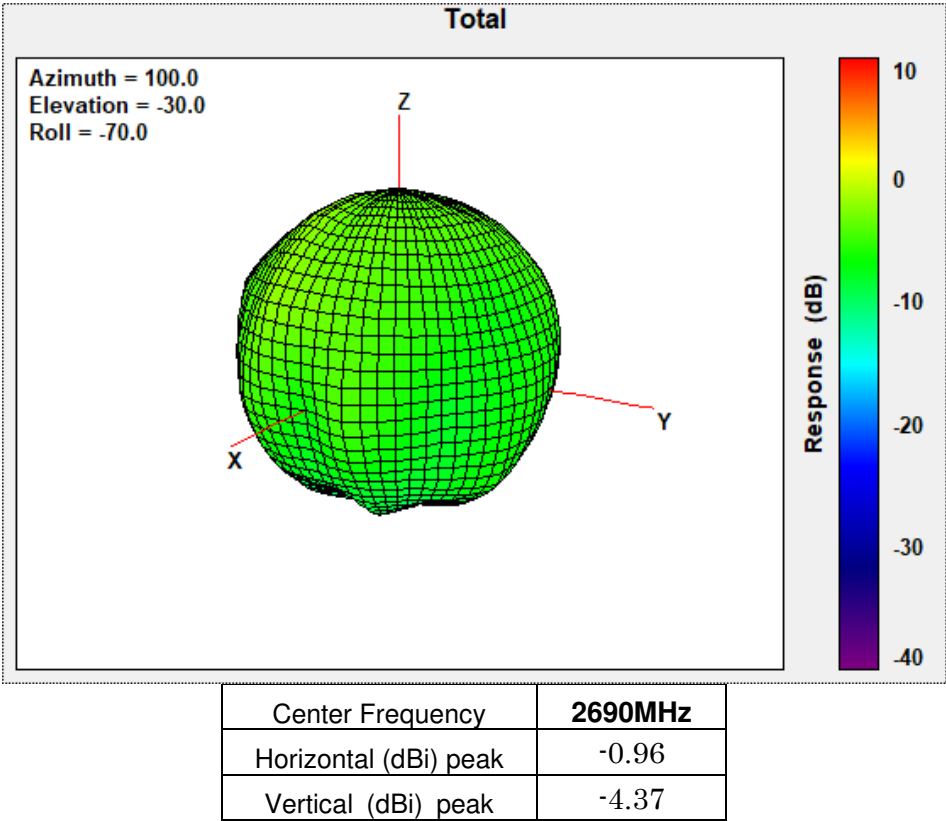
2595MHz



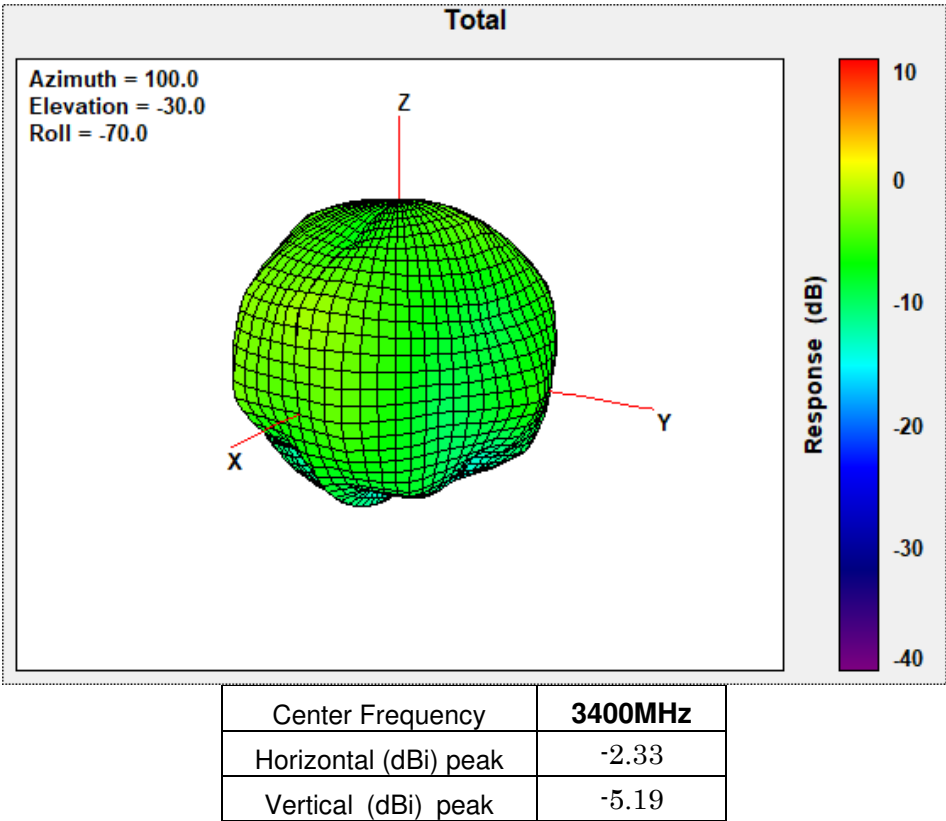
2620MHz



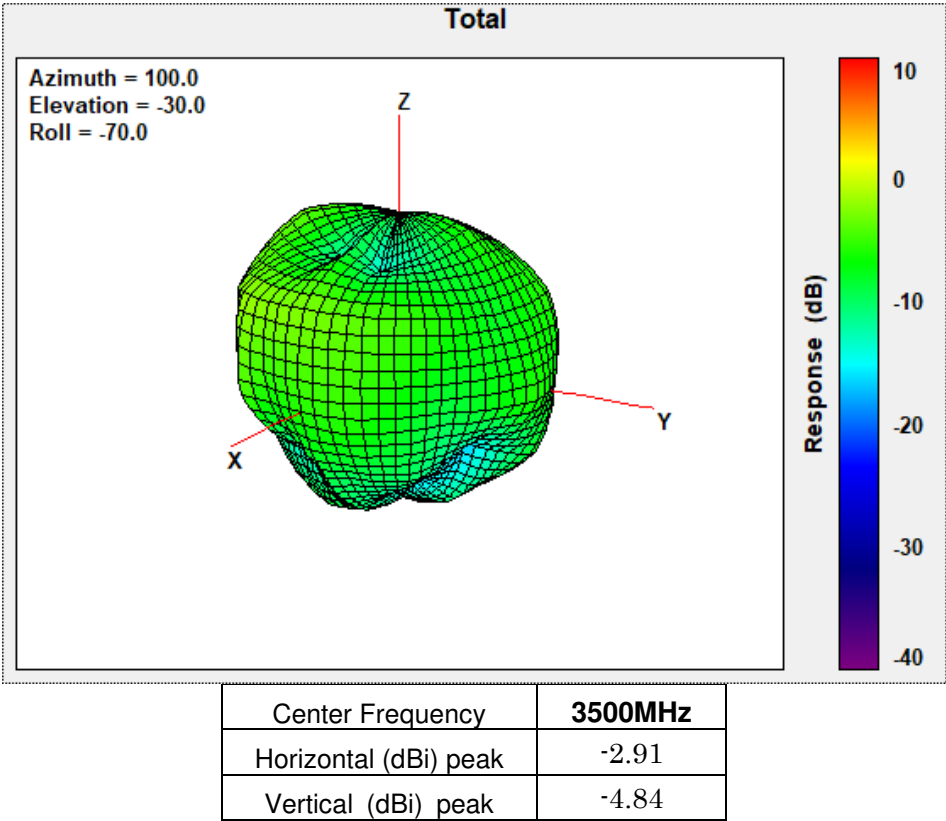
2690MHz



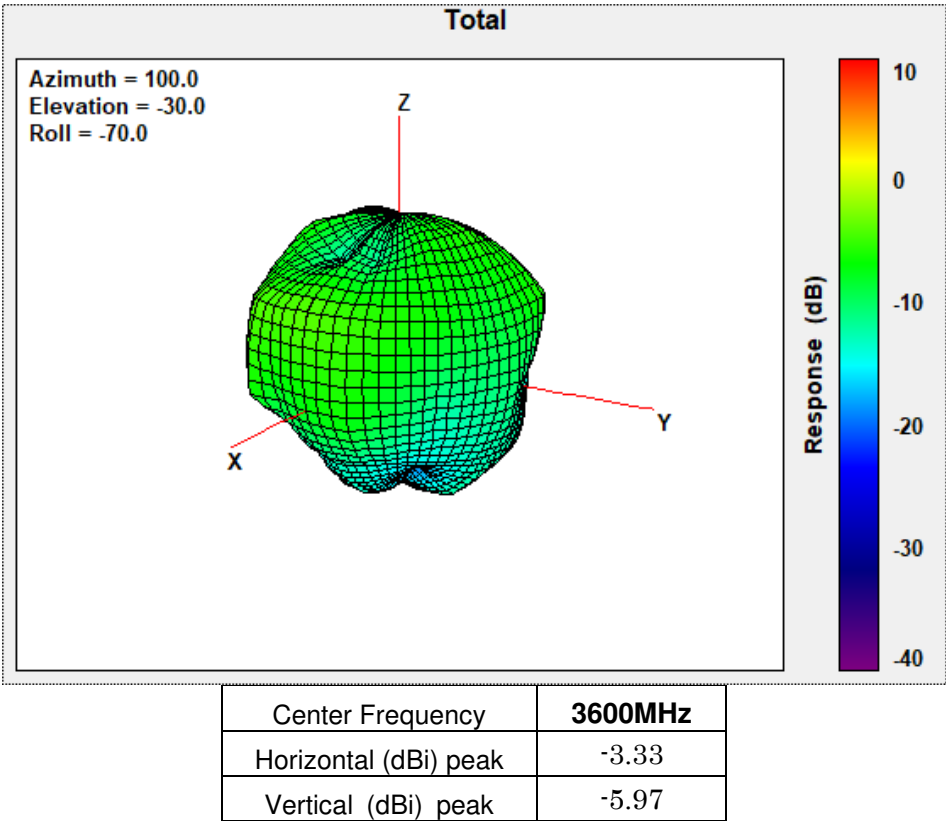
3400MHz



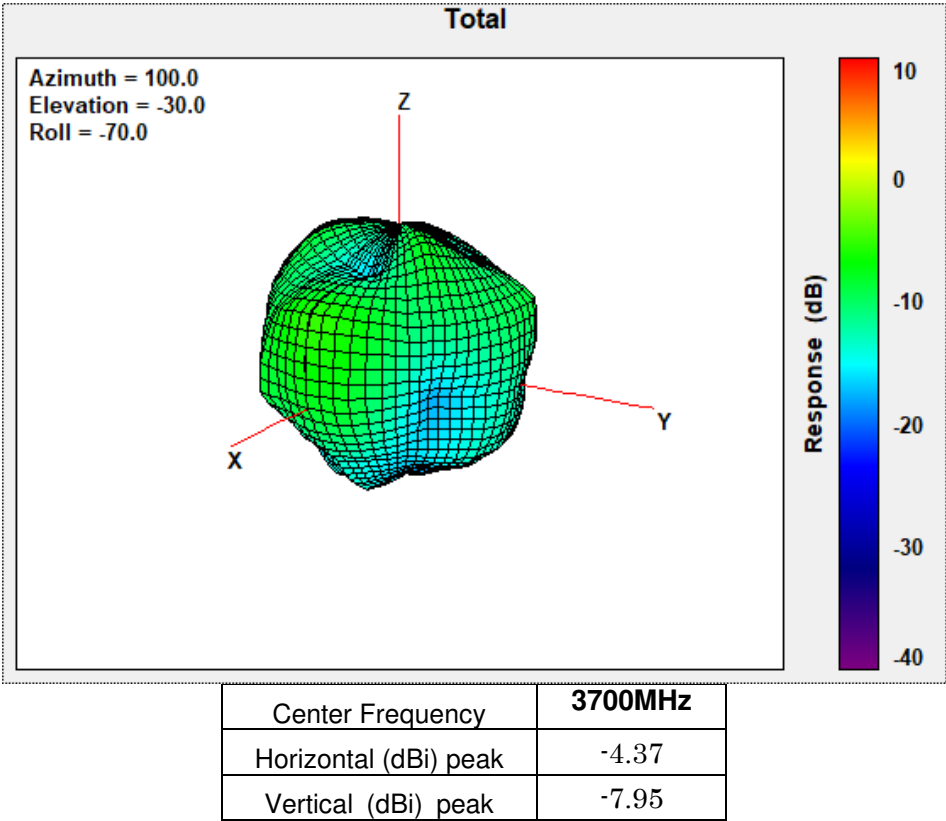
3500MHz



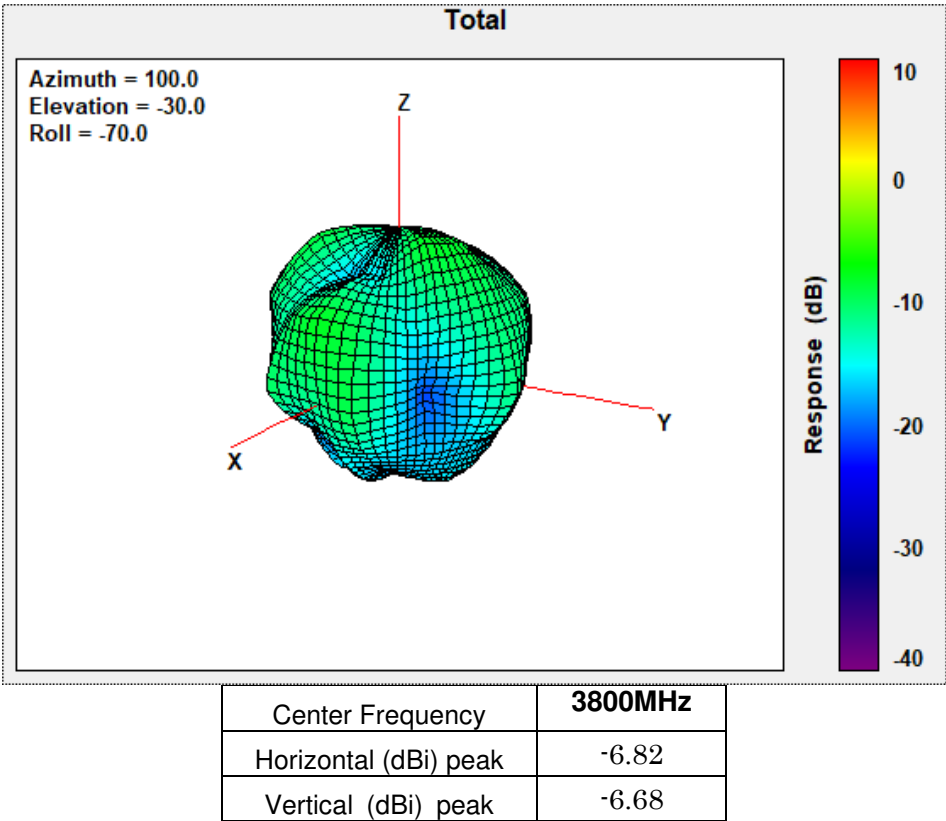
3600MHz



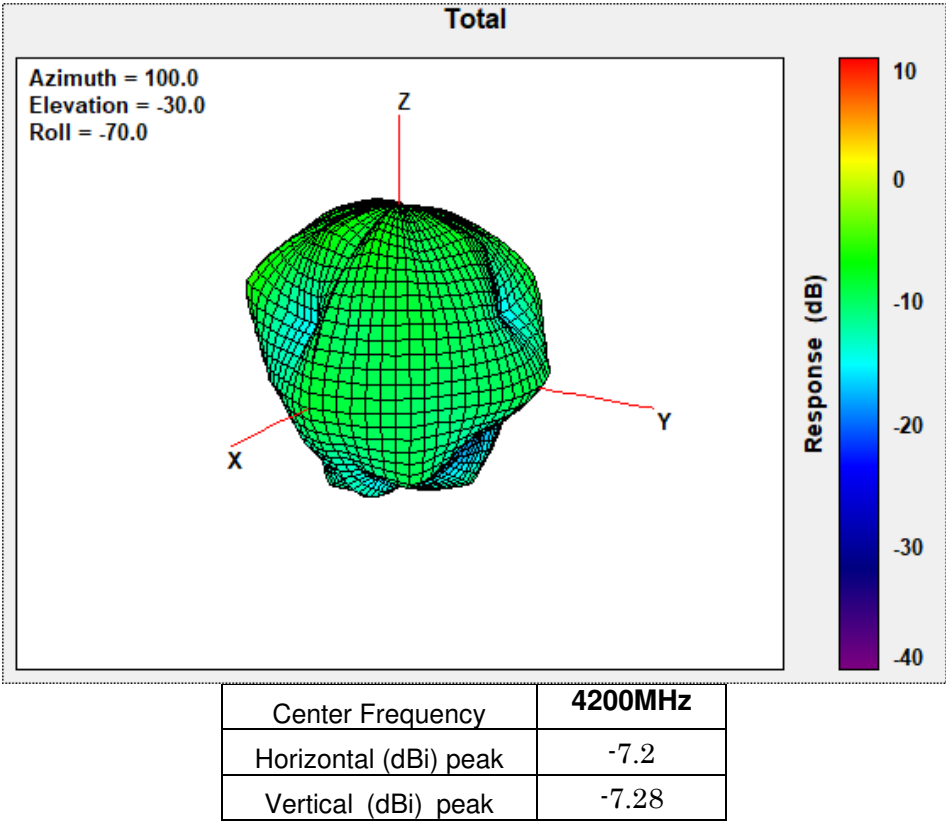
3700MHz



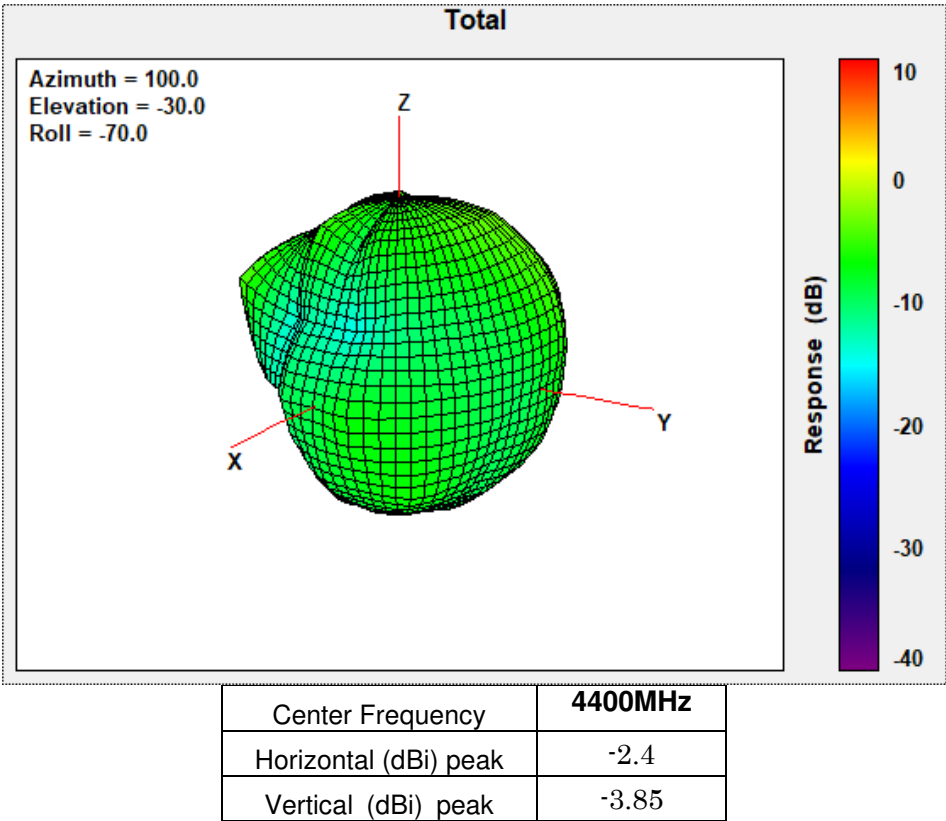
3800MHz



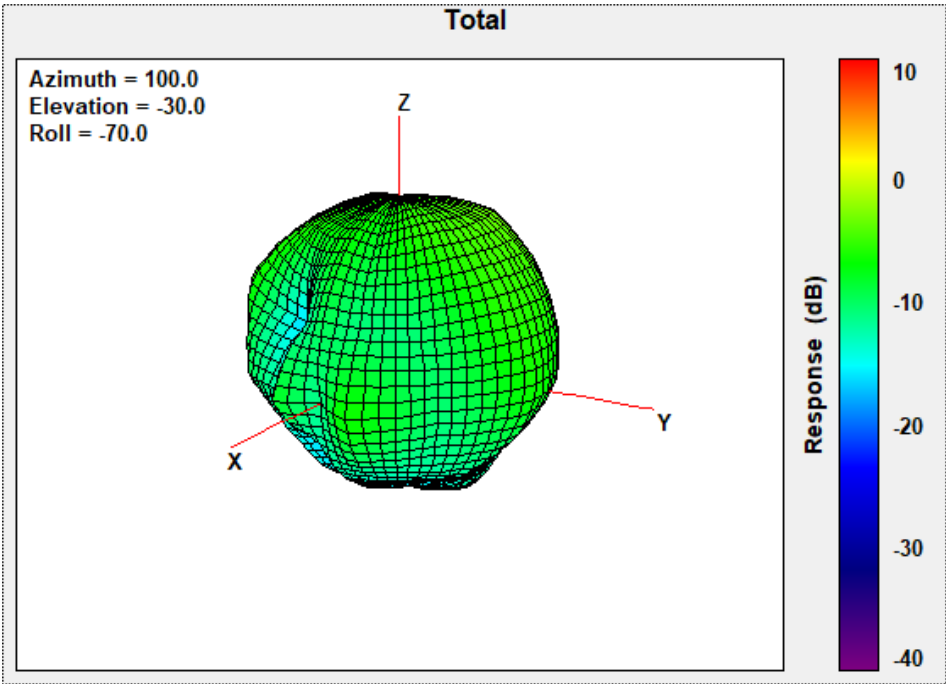
4200MHz



4400MHz

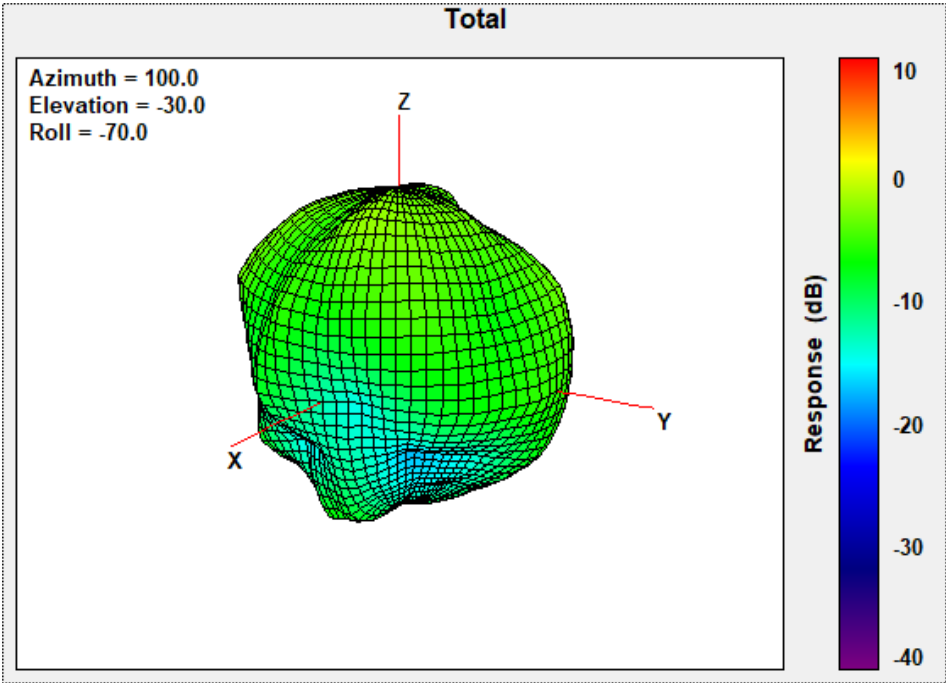


4700MHz



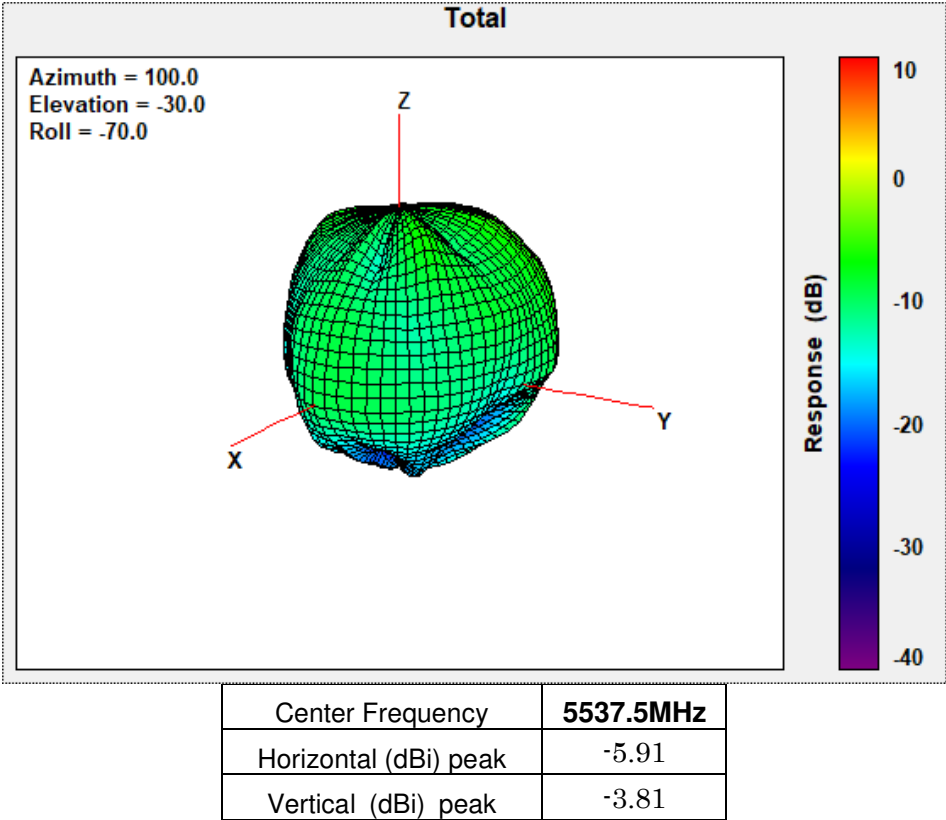
|                       |         |
|-----------------------|---------|
| Center Frequency      | 4700MHz |
| Horizontal (dBi) peak | -4.11   |
| Vertical (dBi) peak   | -4.52   |

5150MHz

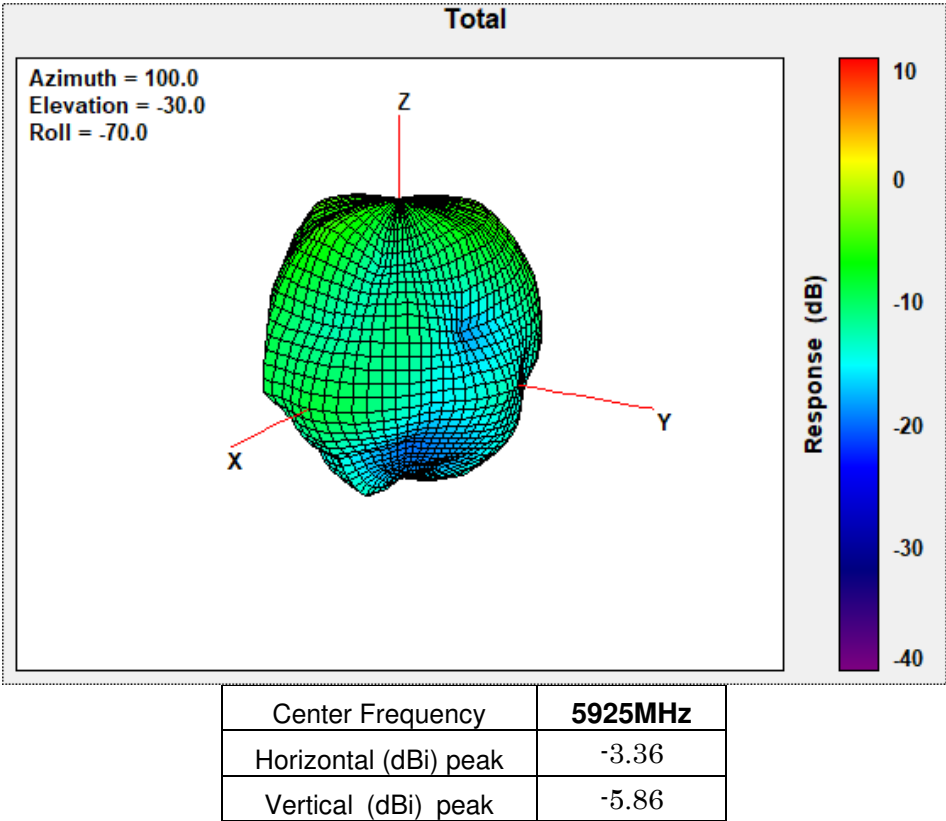


|                       |         |
|-----------------------|---------|
| Center Frequency      | 5150MHz |
| Horizontal (dBi) peak | -2.97   |
| Vertical (dBi) peak   | -0.41   |

5537.5MHz

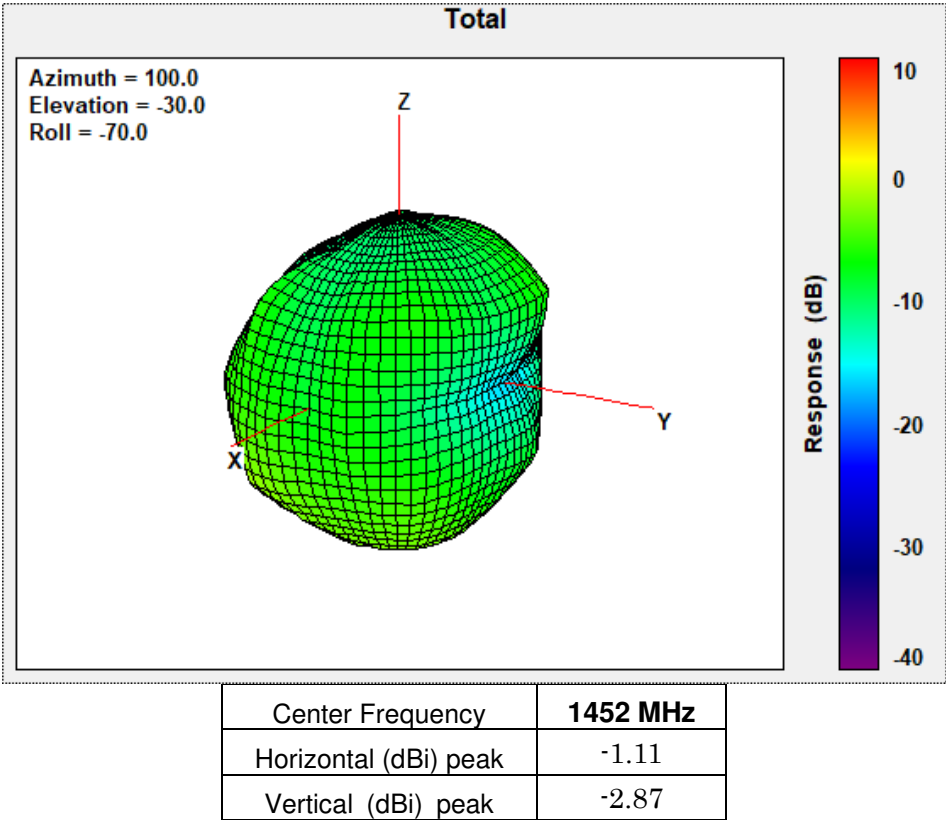


5925MHz

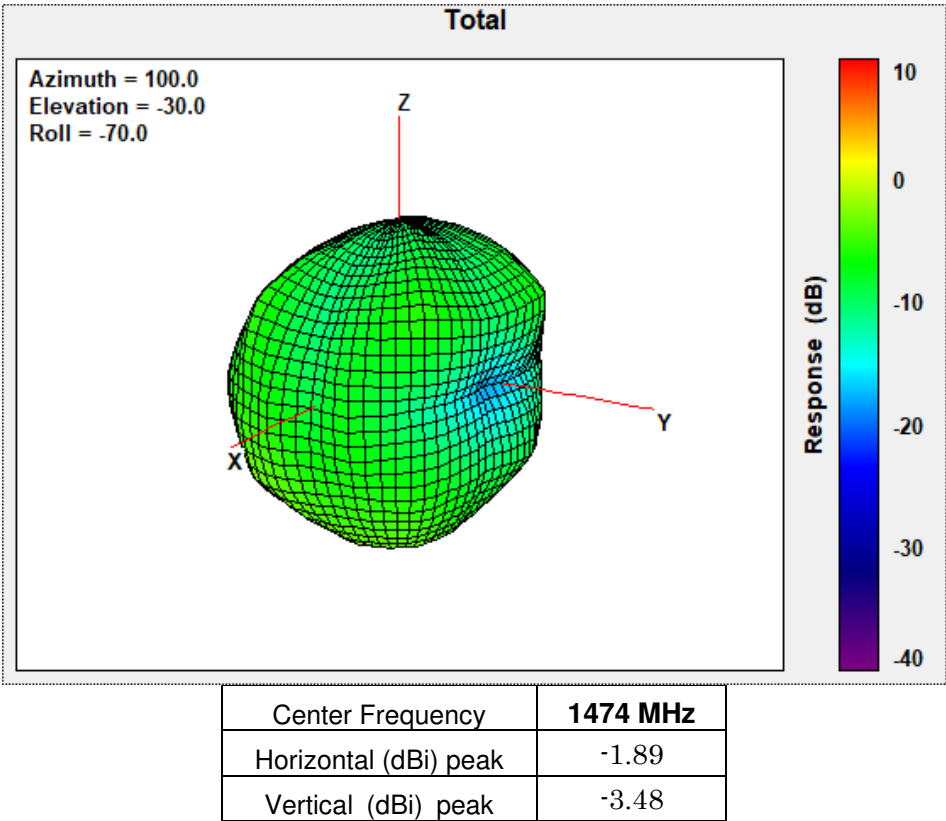


MIMO2 Antenna (DRx2)

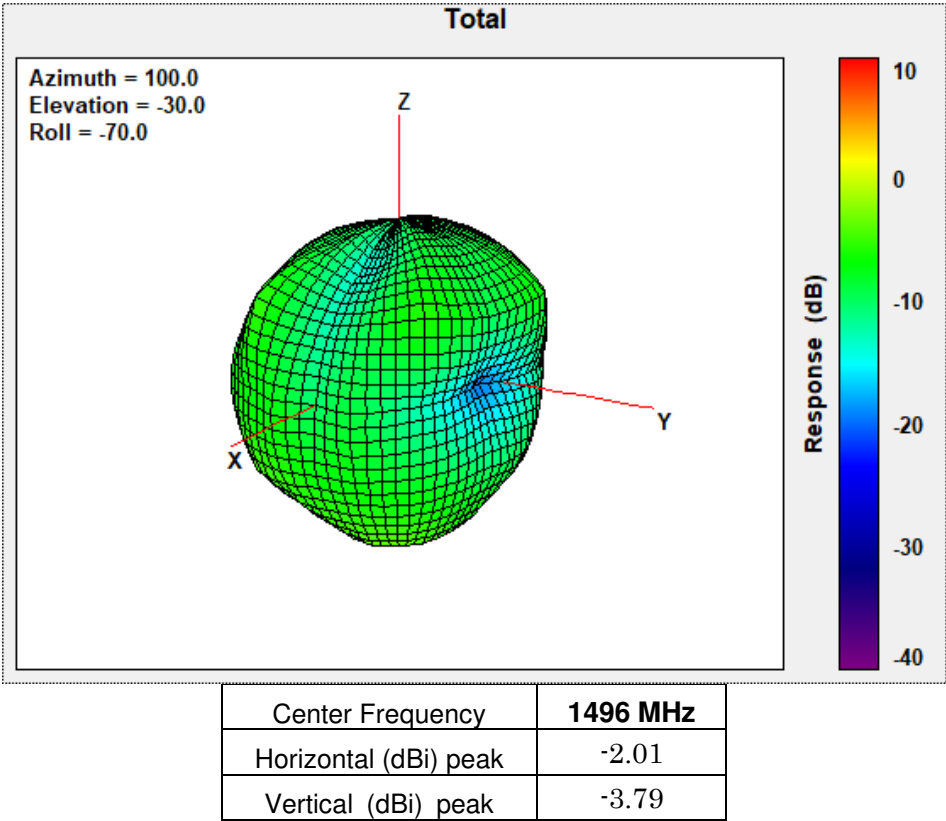
1452 MHz



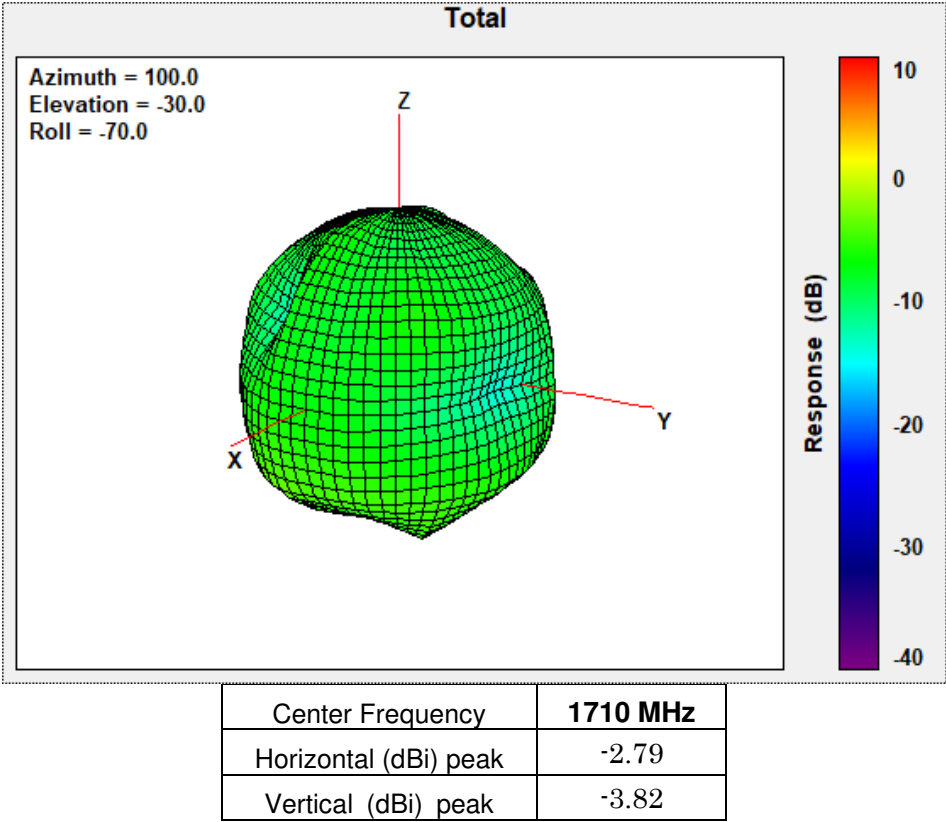
1474 MHz



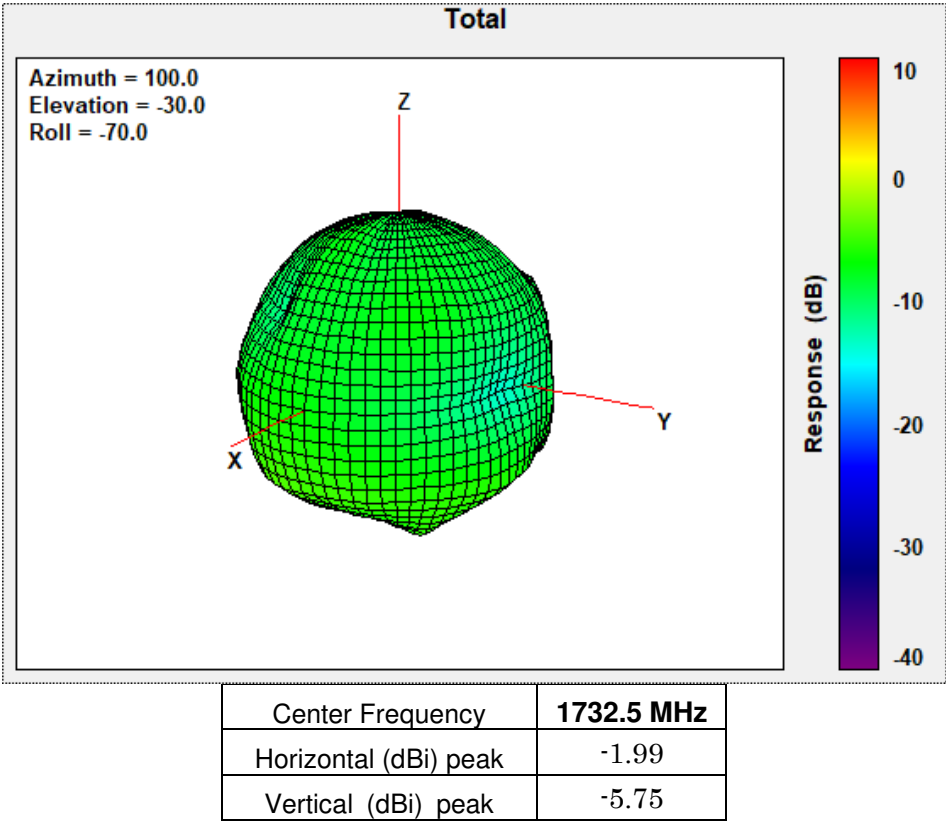
1496 MHz



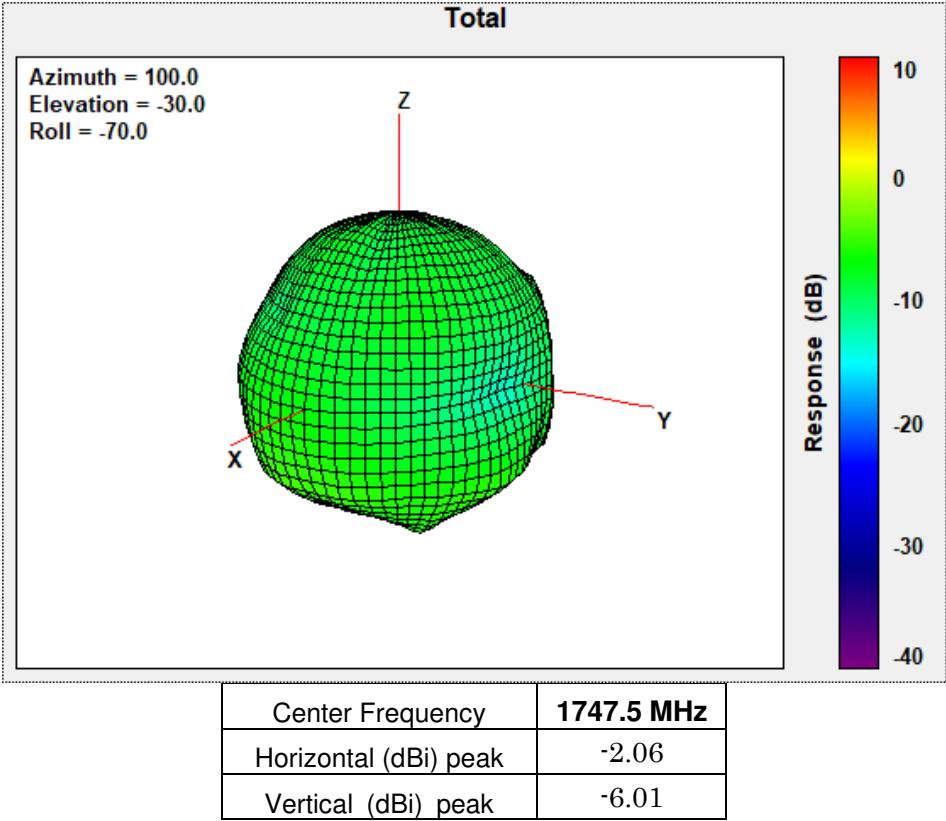
1710 MHz



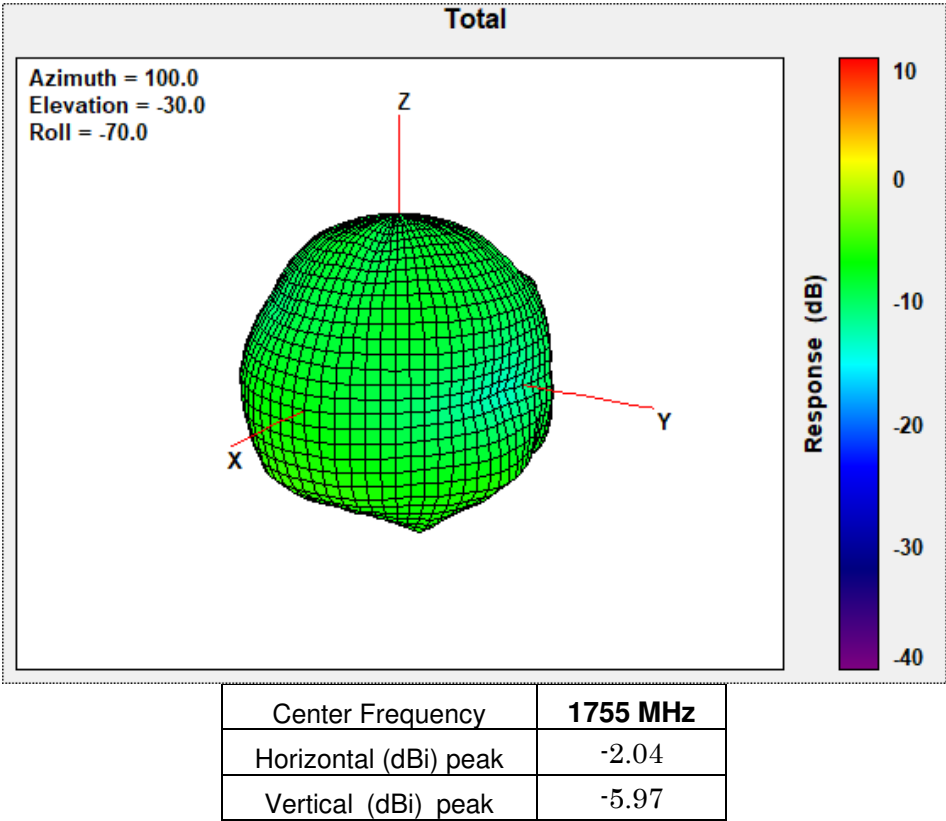
1732.5 MHz



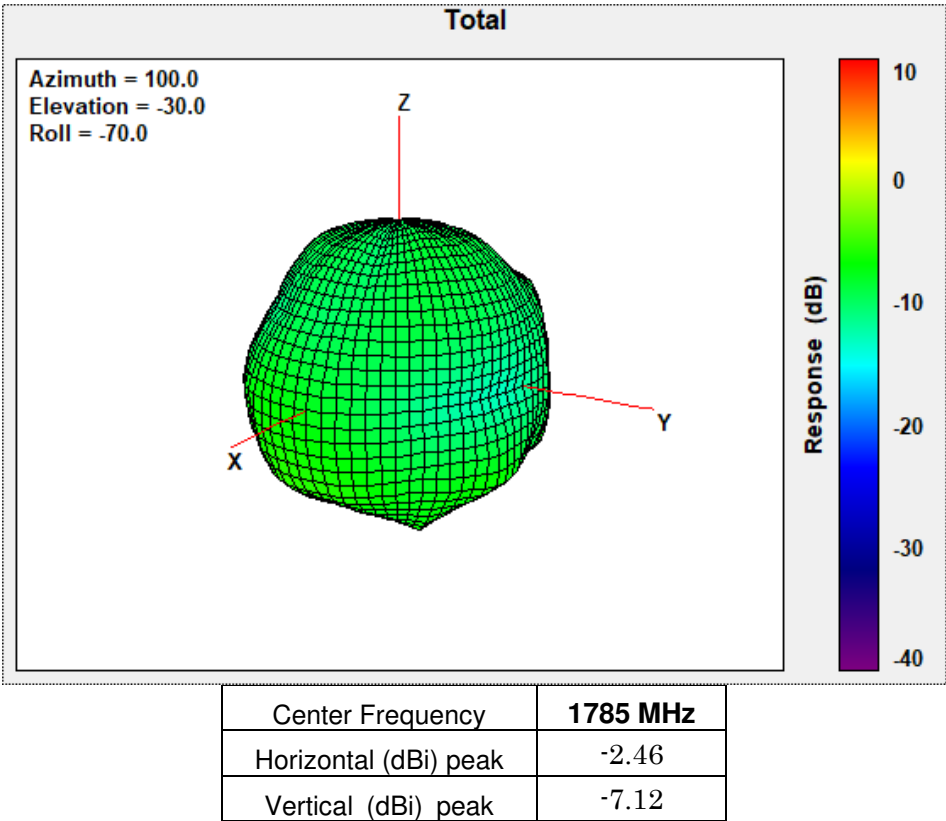
1747.5 MHz



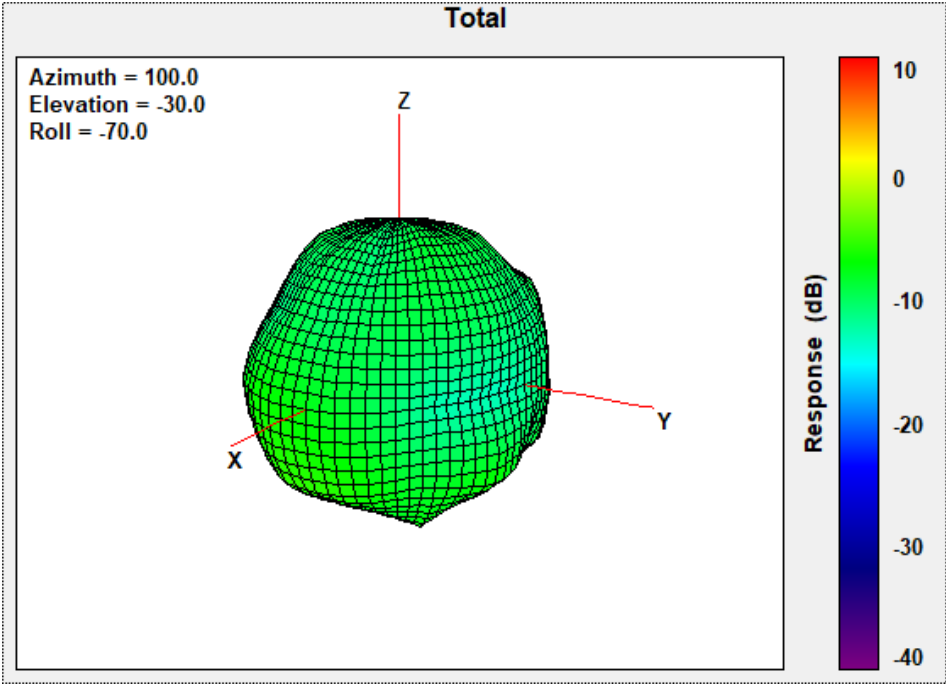
1755 MHz



1785 MHz

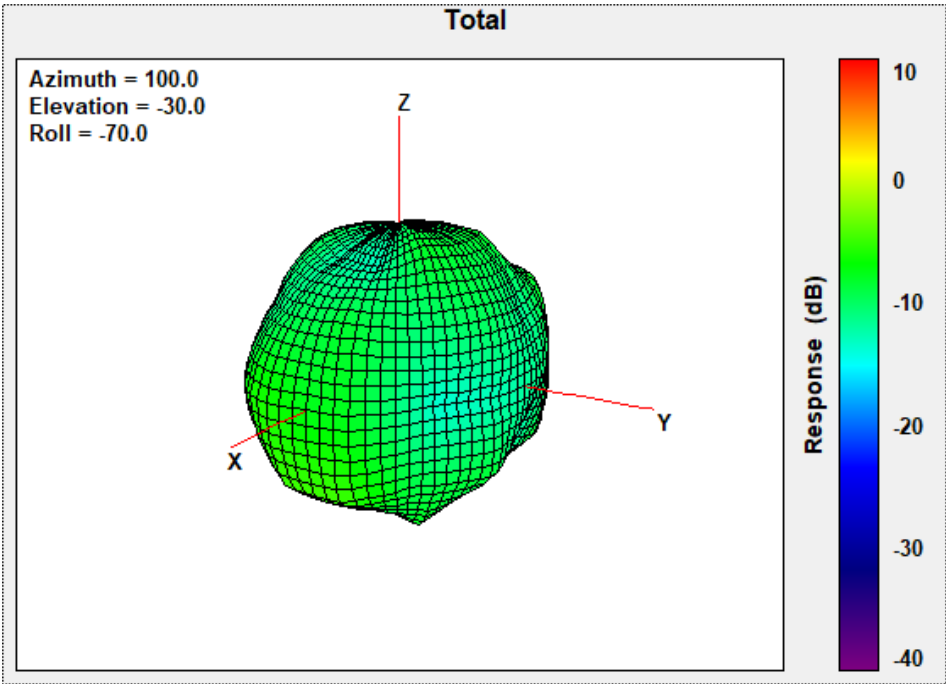


1805 MHz



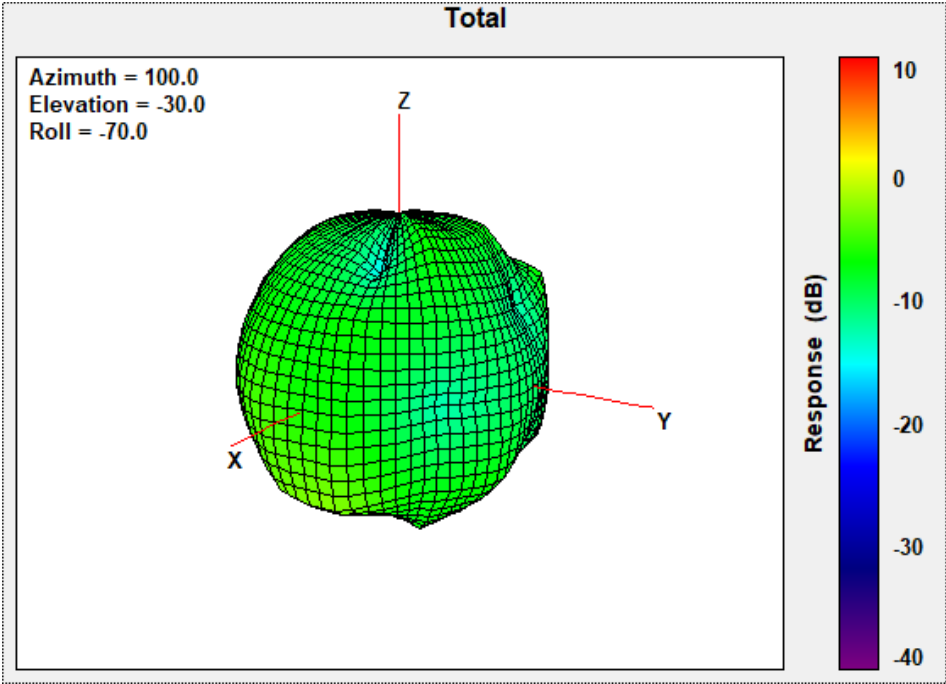
|                       |          |
|-----------------------|----------|
| Center Frequency      | 1805 MHz |
| Horizontal (dBi) peak | -2.96    |
| Vertical (dBi) peak   | -7.43    |

1850 MHz



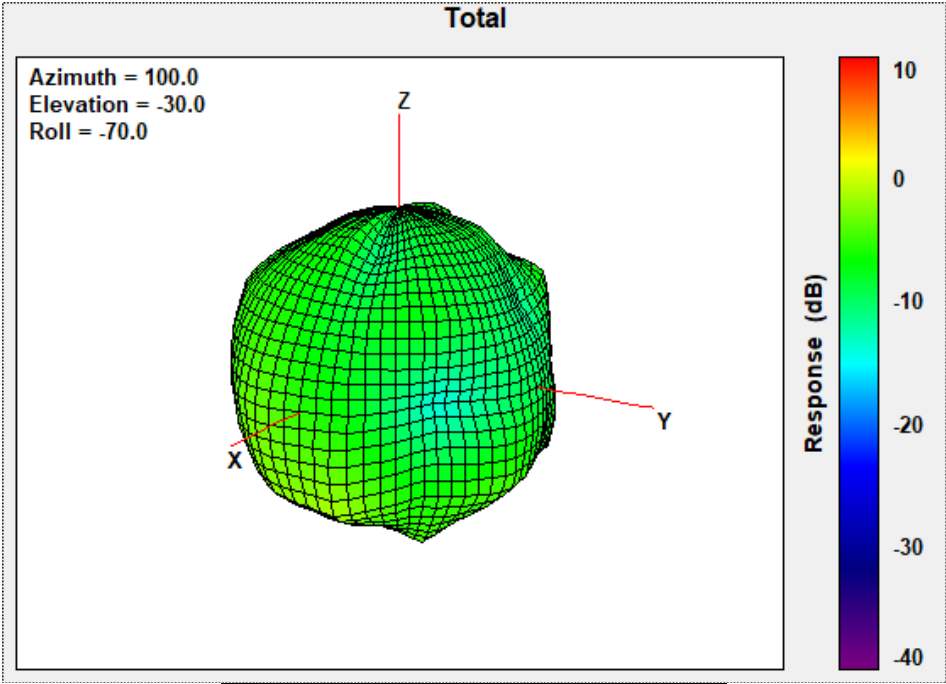
|                       |          |
|-----------------------|----------|
| Center Frequency      | 1850 MHz |
| Horizontal (dBi) peak | -4.18    |
| Vertical (dBi) peak   | -5.88    |

1880 MHz



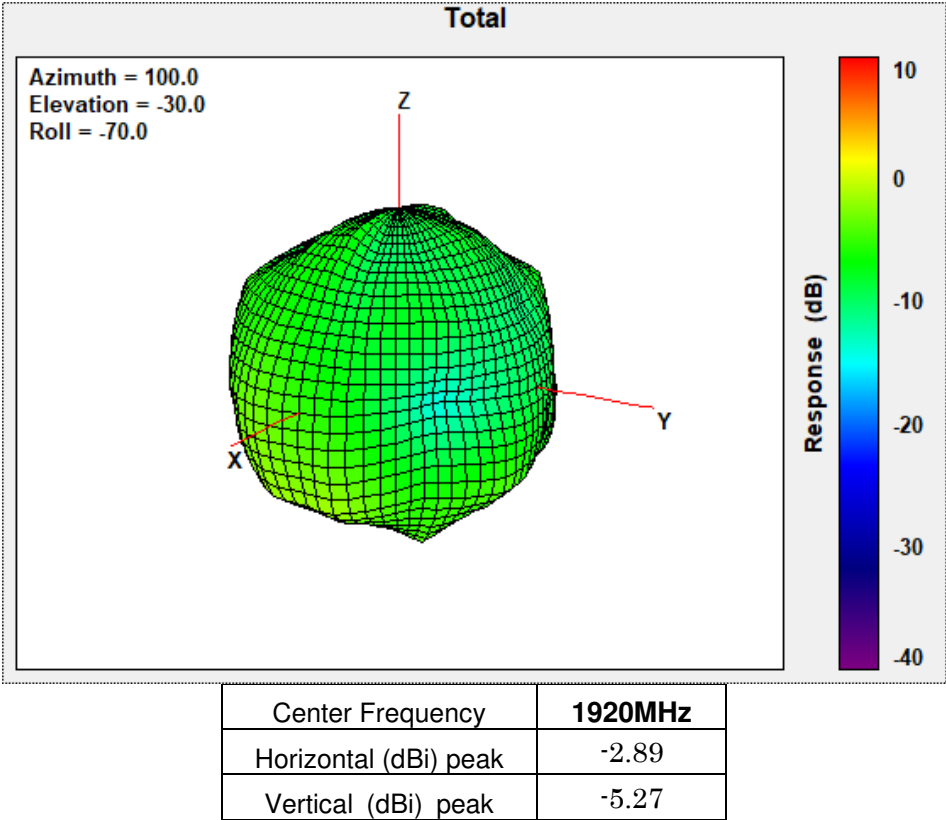
|                       |          |
|-----------------------|----------|
| Center Frequency      | 1880 MHz |
| Horizontal (dBi) peak | -2.87    |
| Vertical (dBi) peak   | -5.23    |

1910MHz

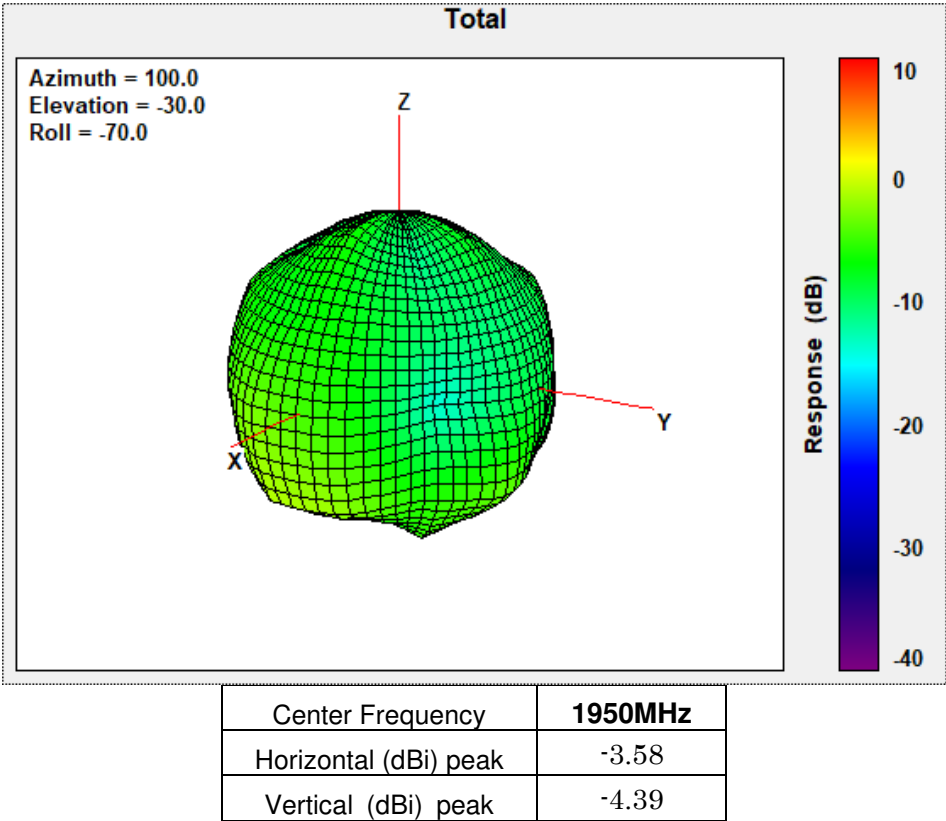


|                       |         |
|-----------------------|---------|
| Center Frequency      | 1910MHz |
| Horizontal (dBi) peak | -2.51   |
| Vertical (dBi) peak   | -5.25   |

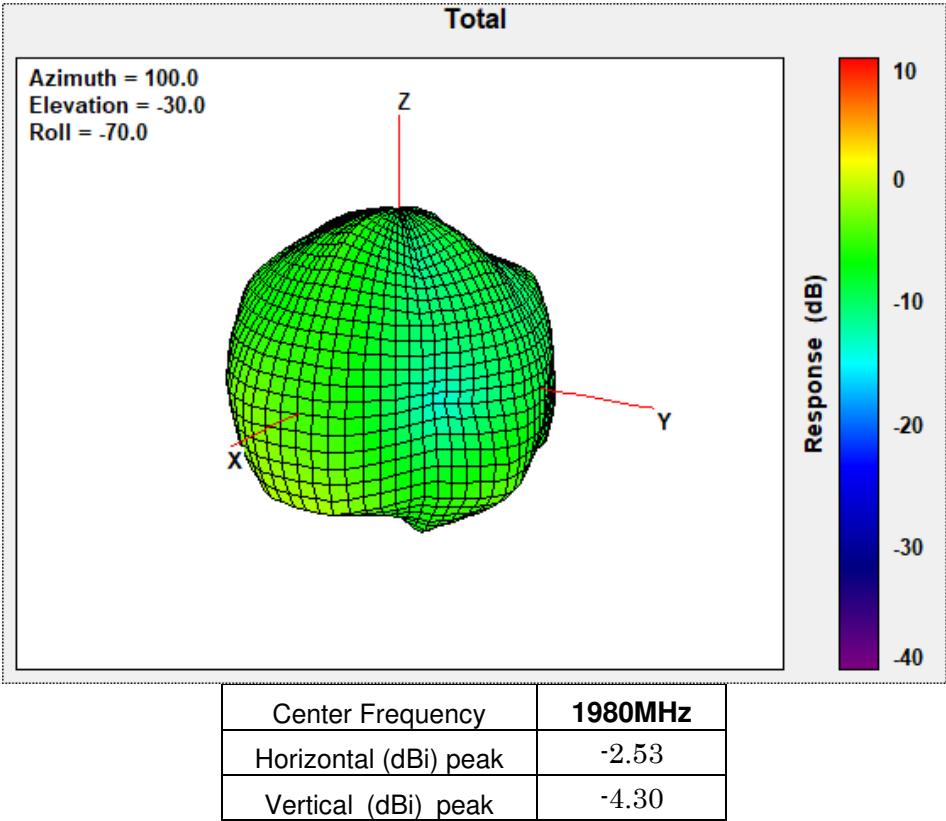
1920MHz



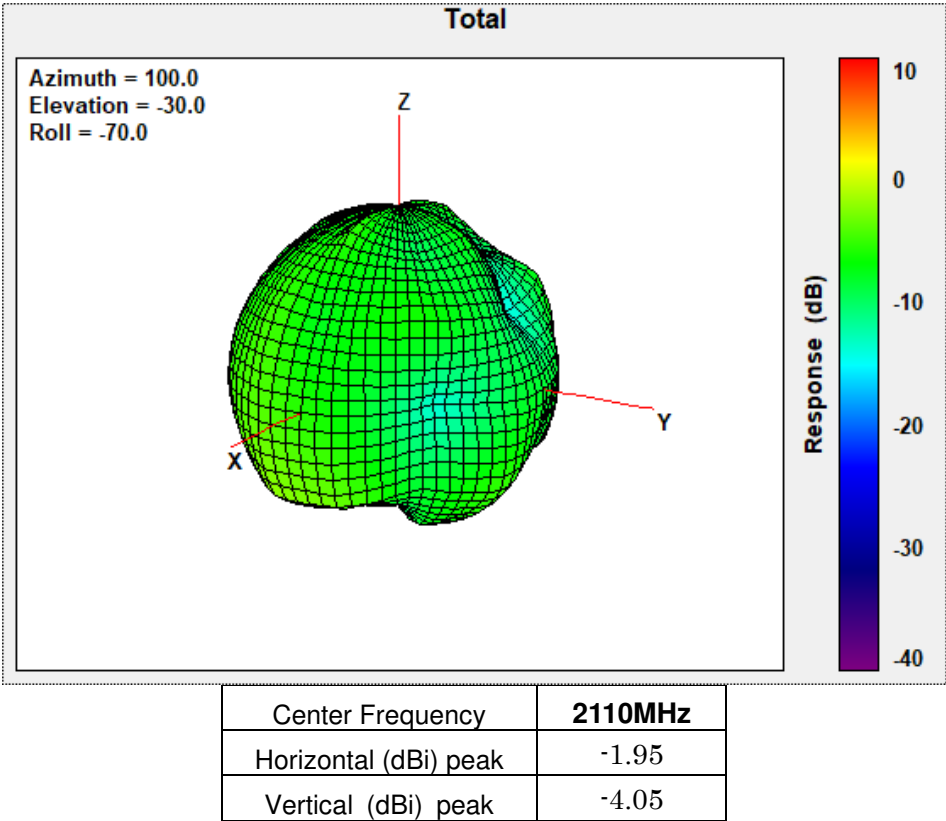
1950MHz



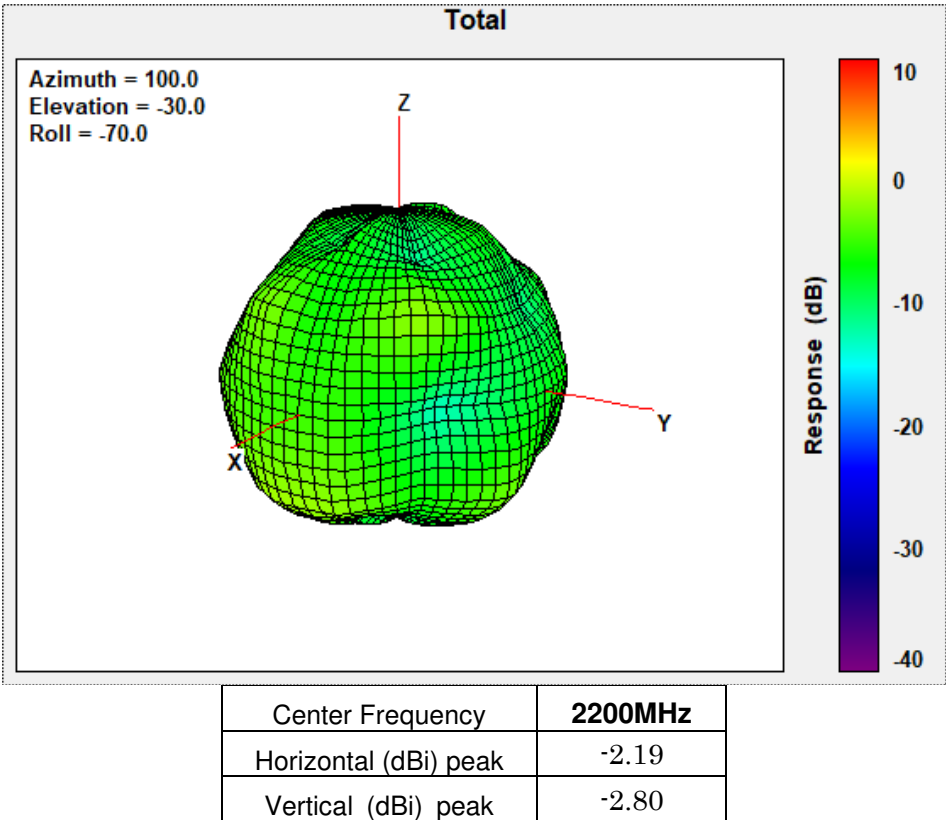
1980MHz



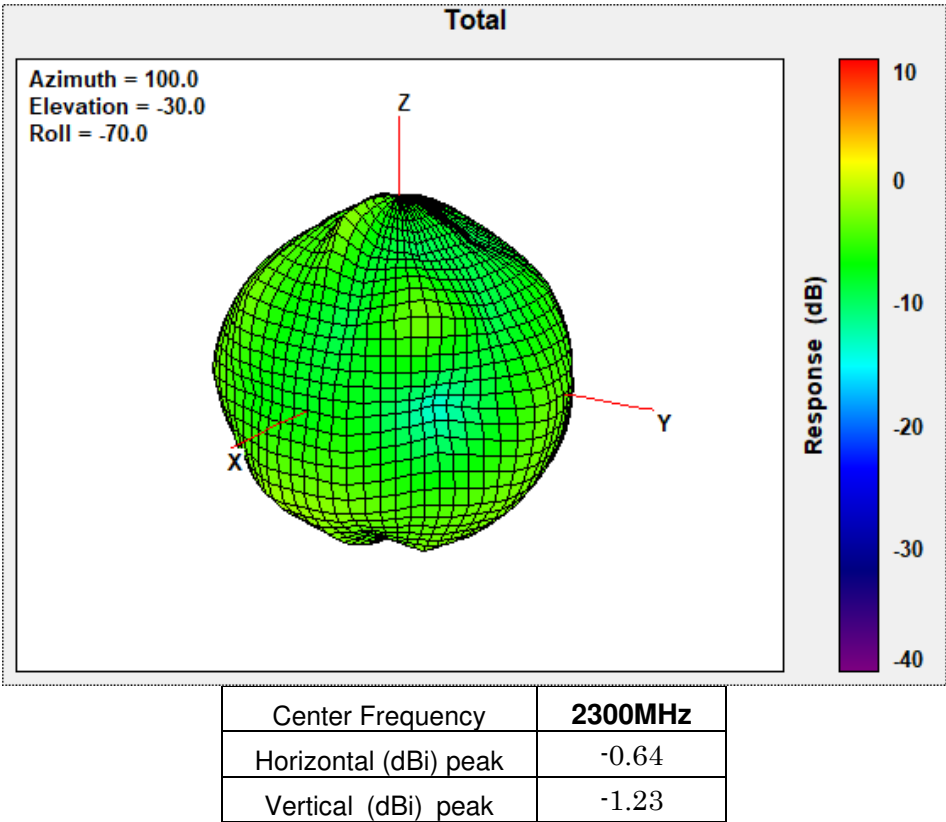
2110MHz



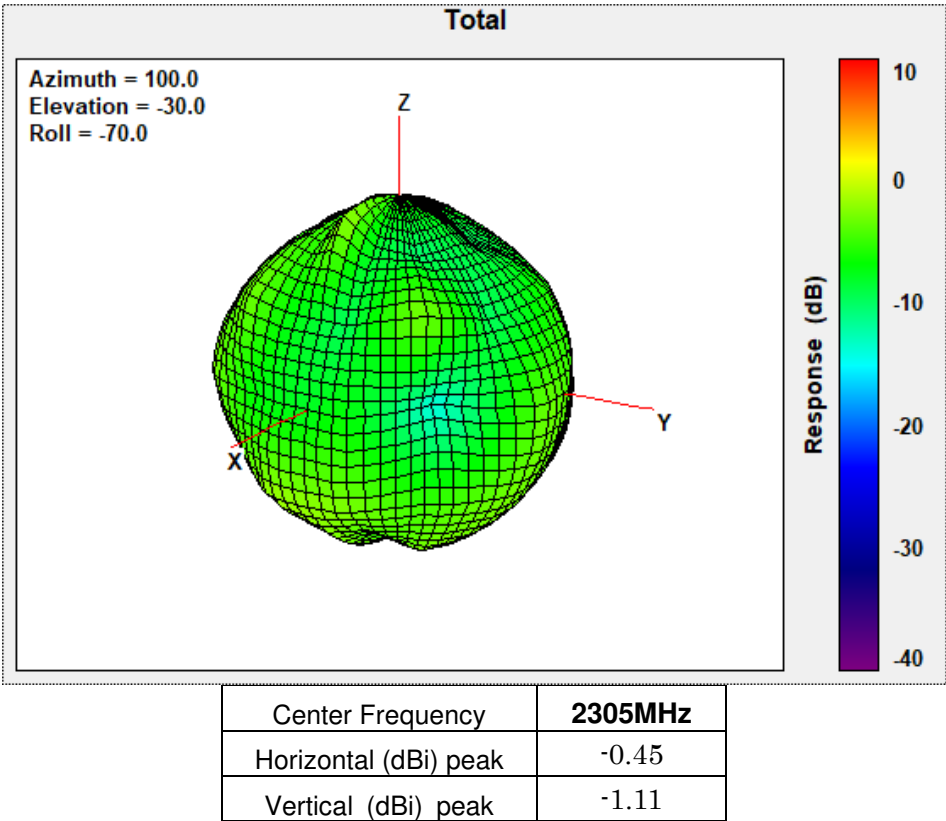
2200MHz



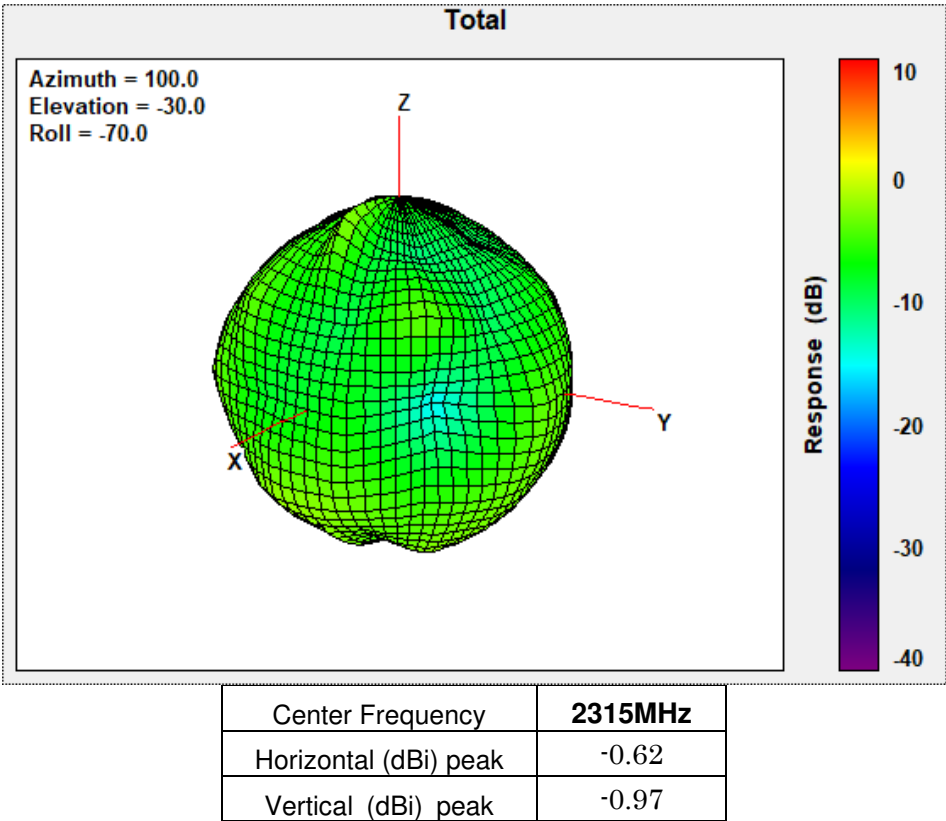
2300MHz



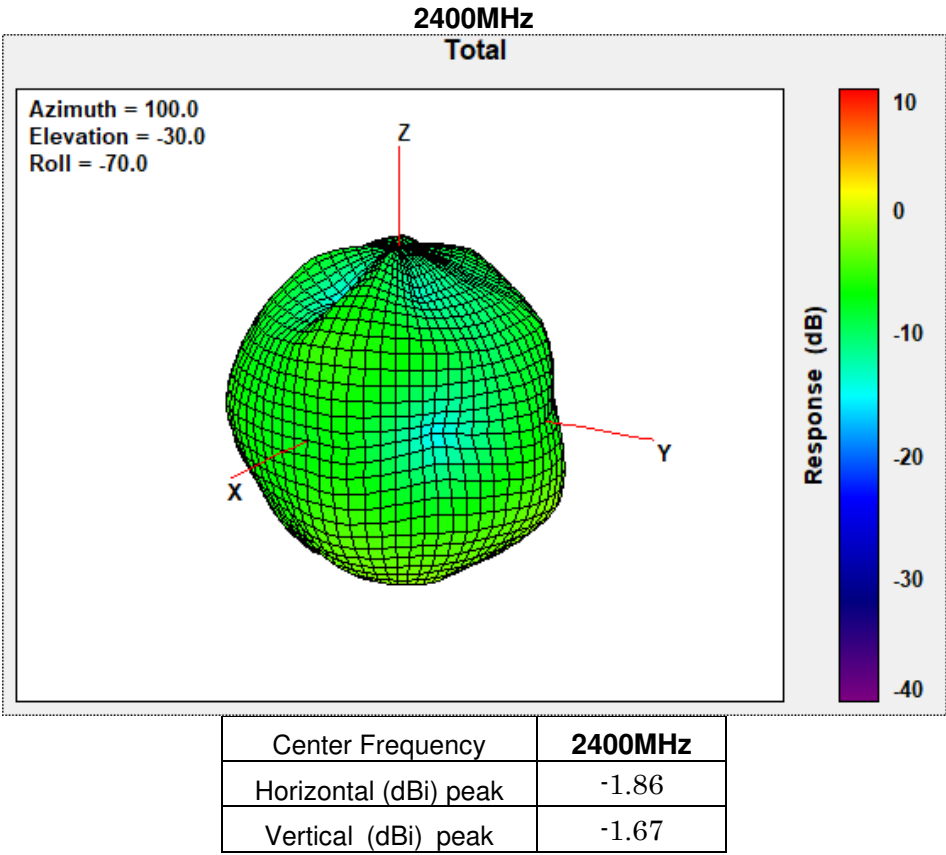
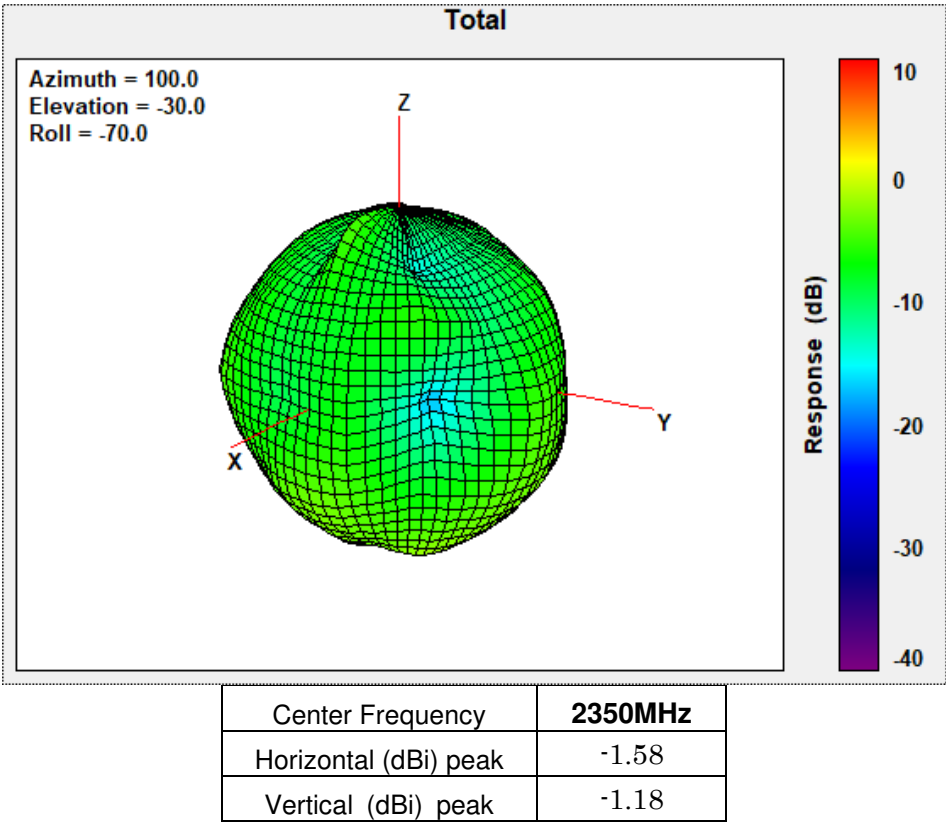
2305MHz



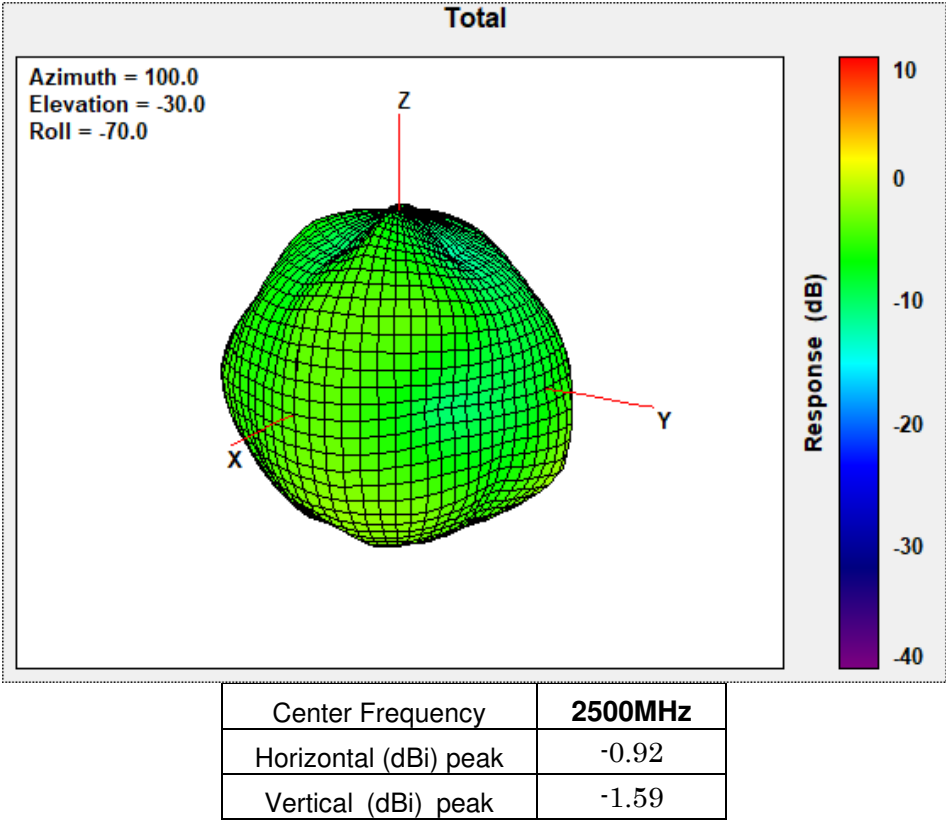
2315MHz



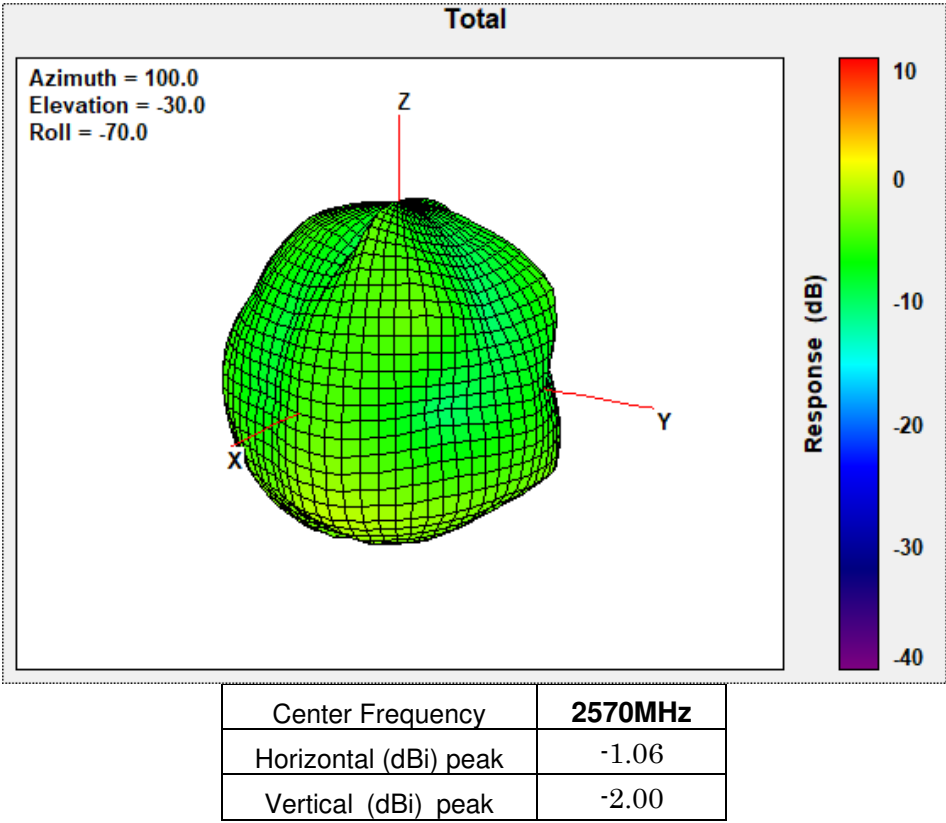
2350MHz

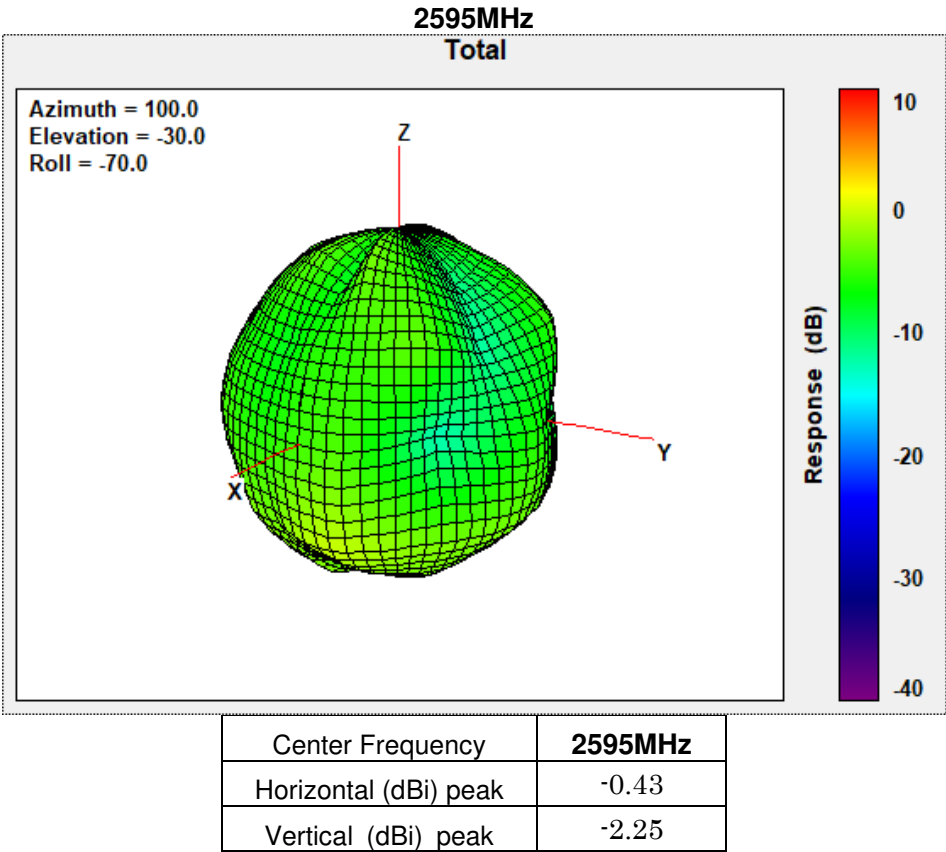


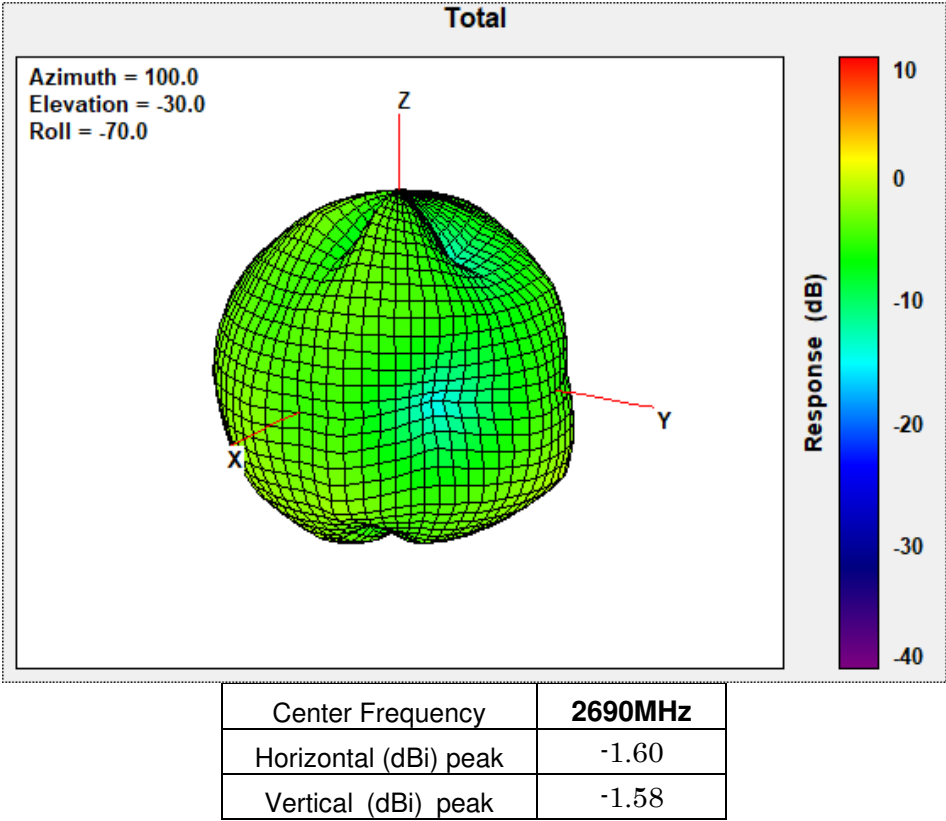
**2500MHz**



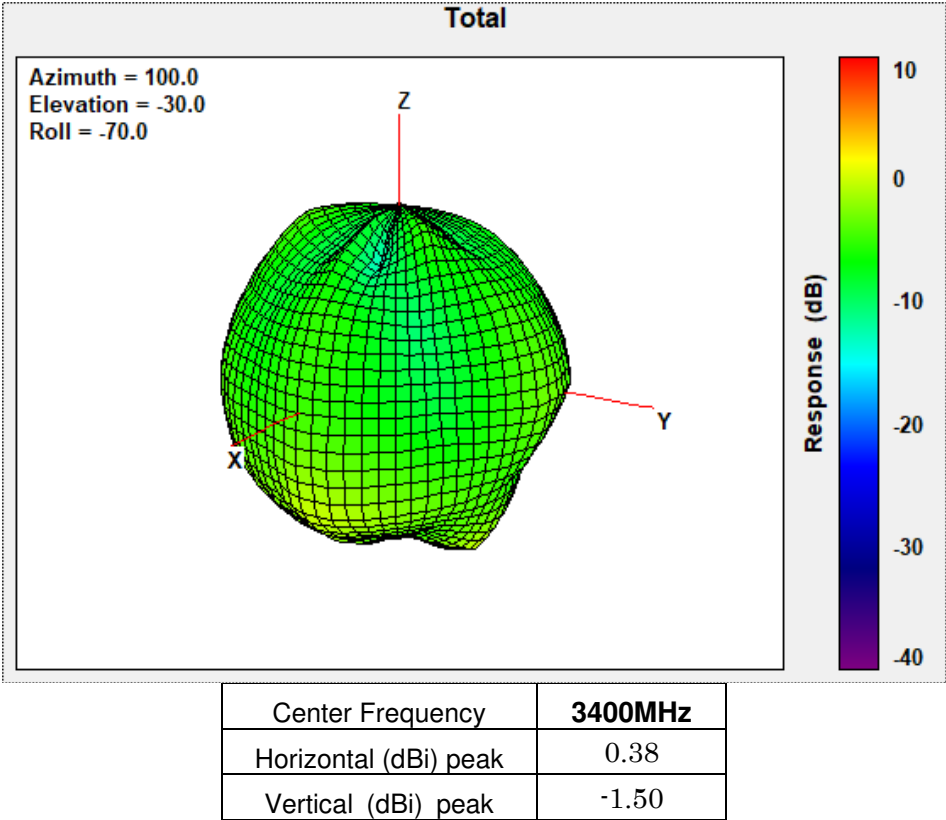
**2570MHz**



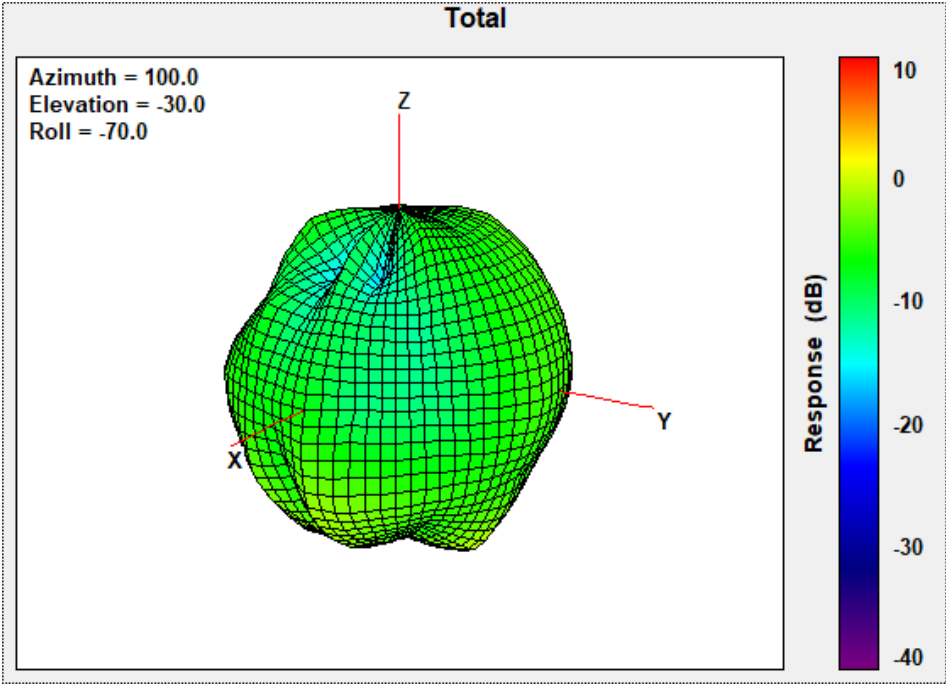




**3400MHz**

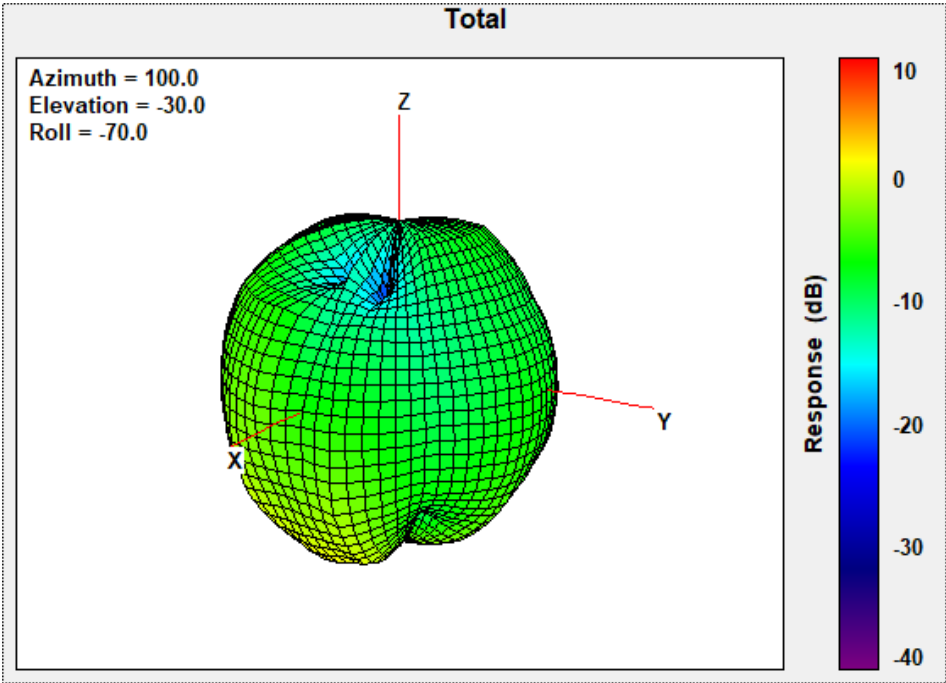


3500MHz



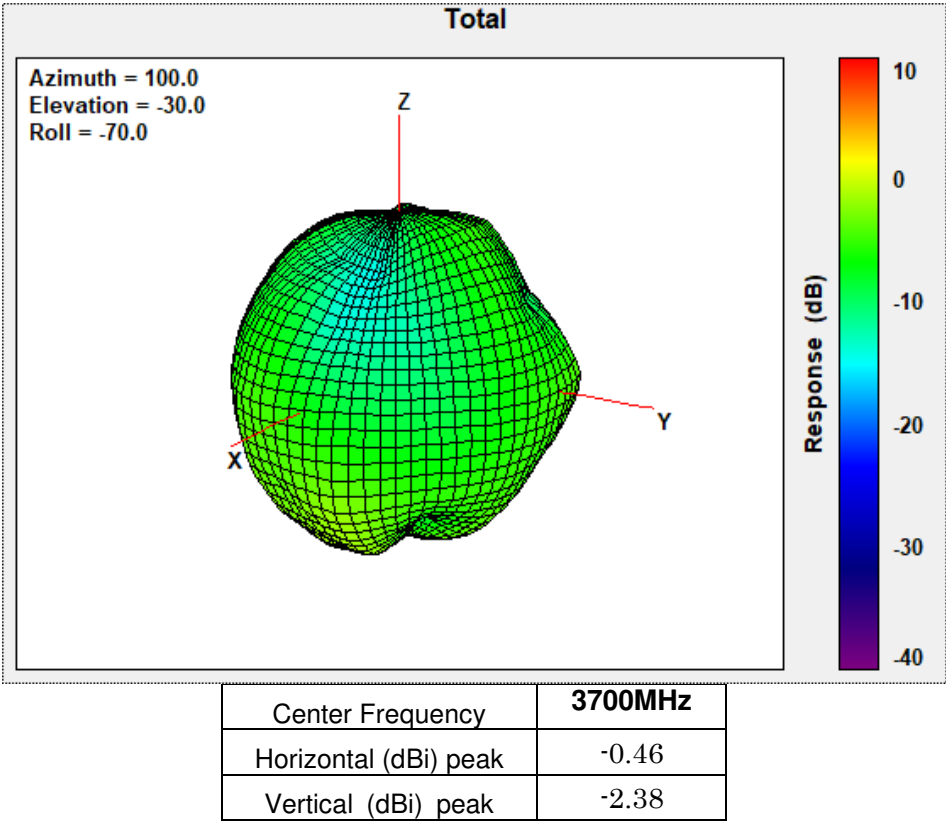
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3500MHz |
| Horizontal (dBi) peak | 0.13    |
| Vertical (dBi) peak   | -2.01   |

3600MHz

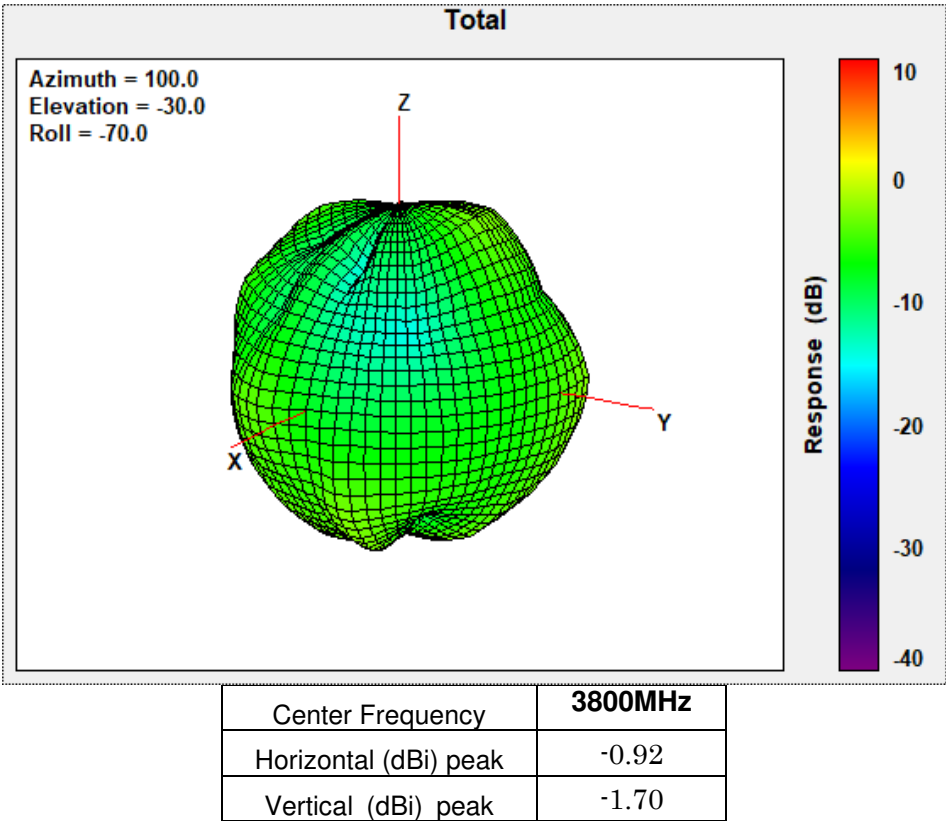


|                       |         |
|-----------------------|---------|
| Center Frequency      | 3600MHz |
| Horizontal (dBi) peak | -0.15   |
| Vertical (dBi) peak   | -1.62   |

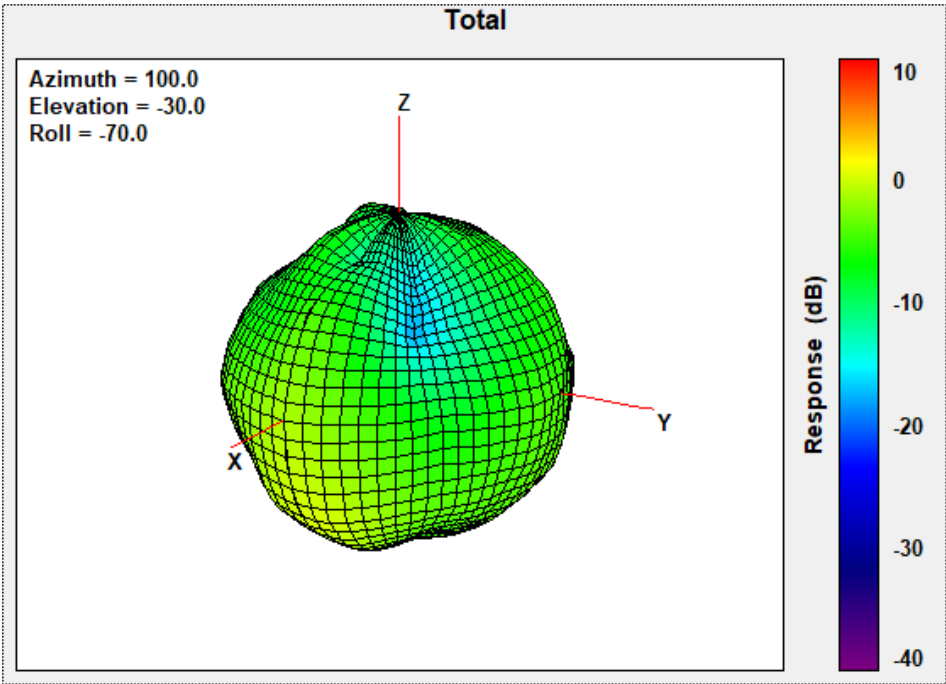
3700MHz



3800MHz

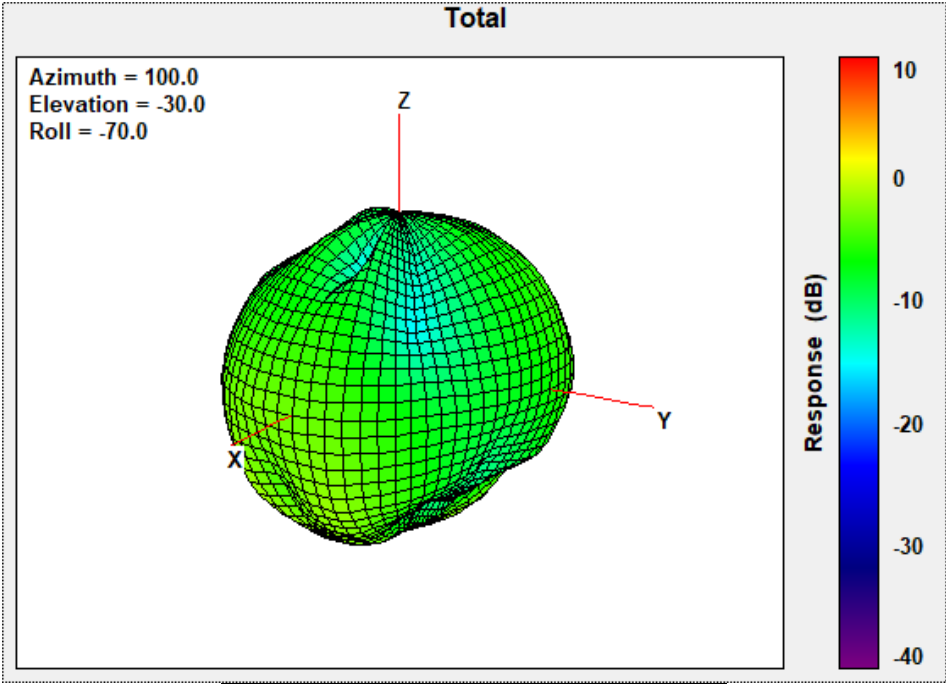


4200MHz



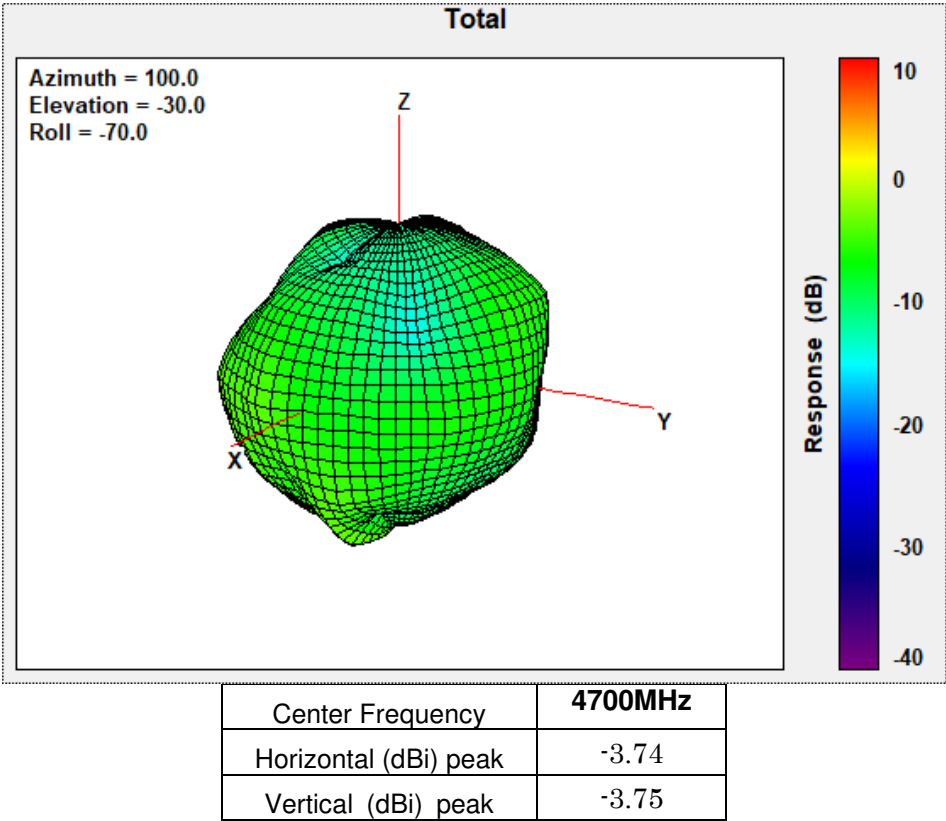
|                       |         |
|-----------------------|---------|
| Center Frequency      | 4200MHz |
| Horizontal (dBi) peak | -0.56   |
| Vertical (dBi) peak   | -0.37   |

4400MHz

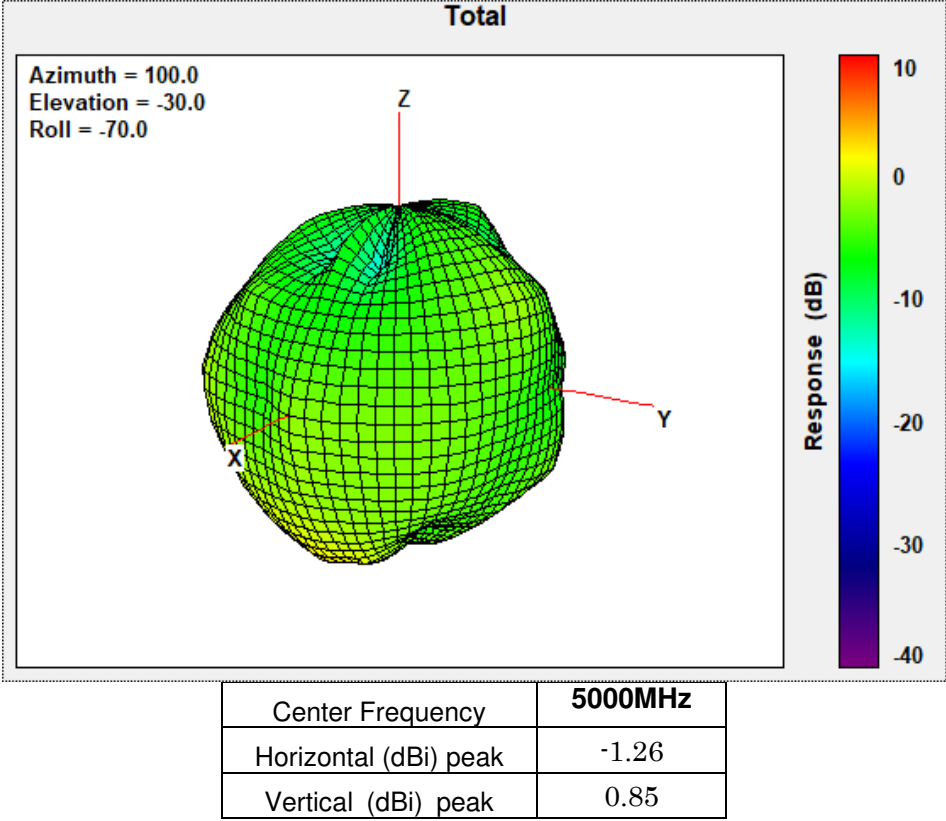


|                       |         |
|-----------------------|---------|
| Center Frequency      | 4400MHz |
| Horizontal (dBi) peak | -0.12   |
| Vertical (dBi) peak   | -0.73   |

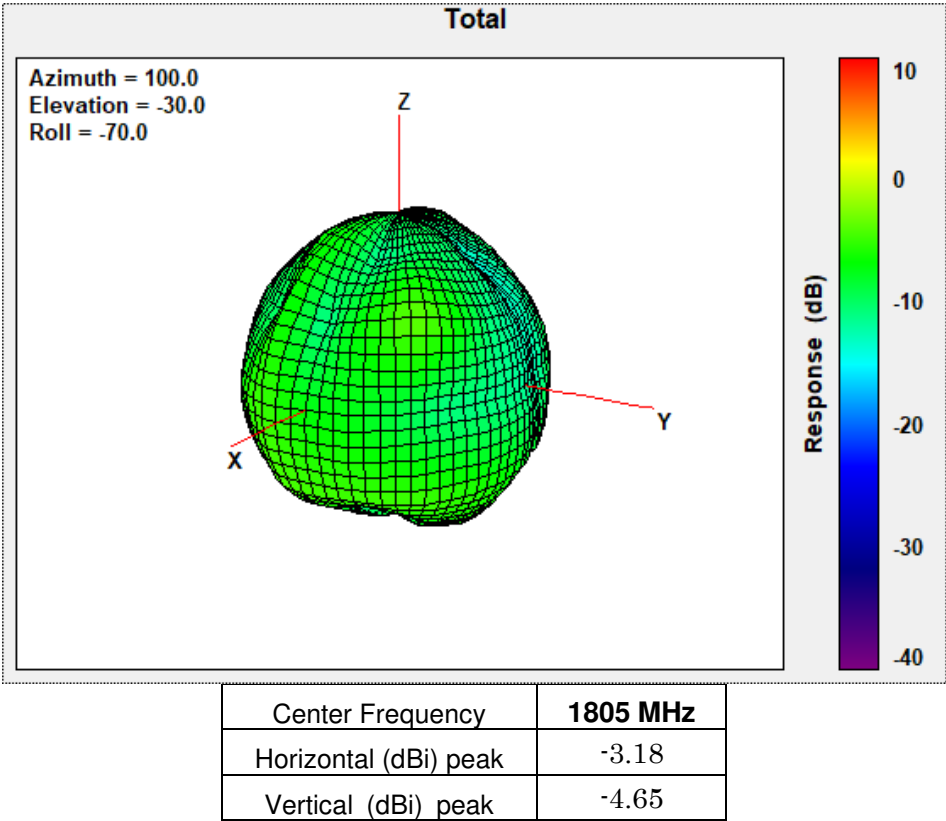
4700MHz



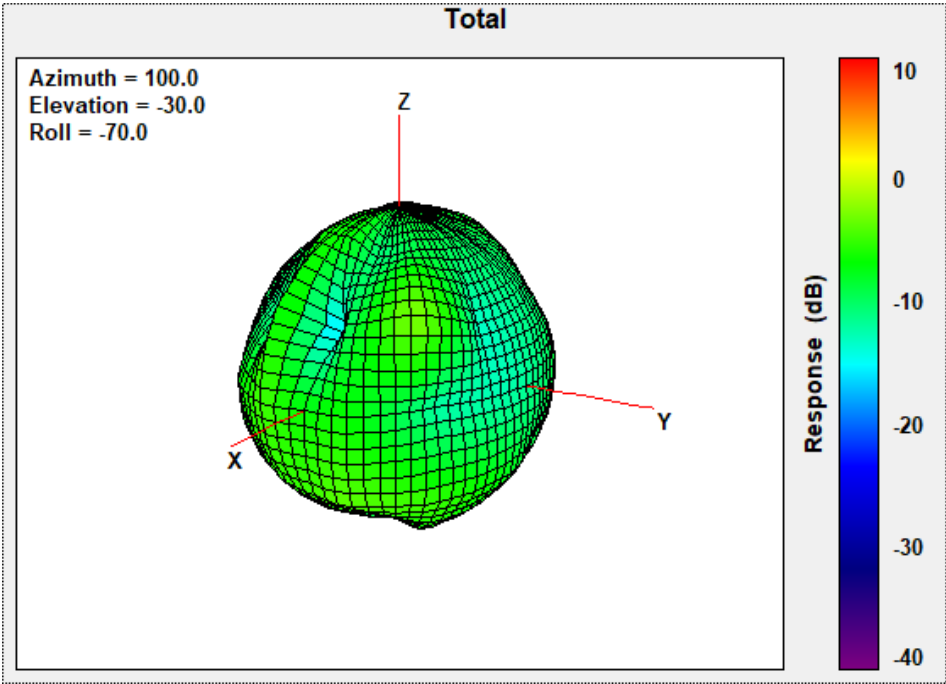
5000MHz



1805 MHz

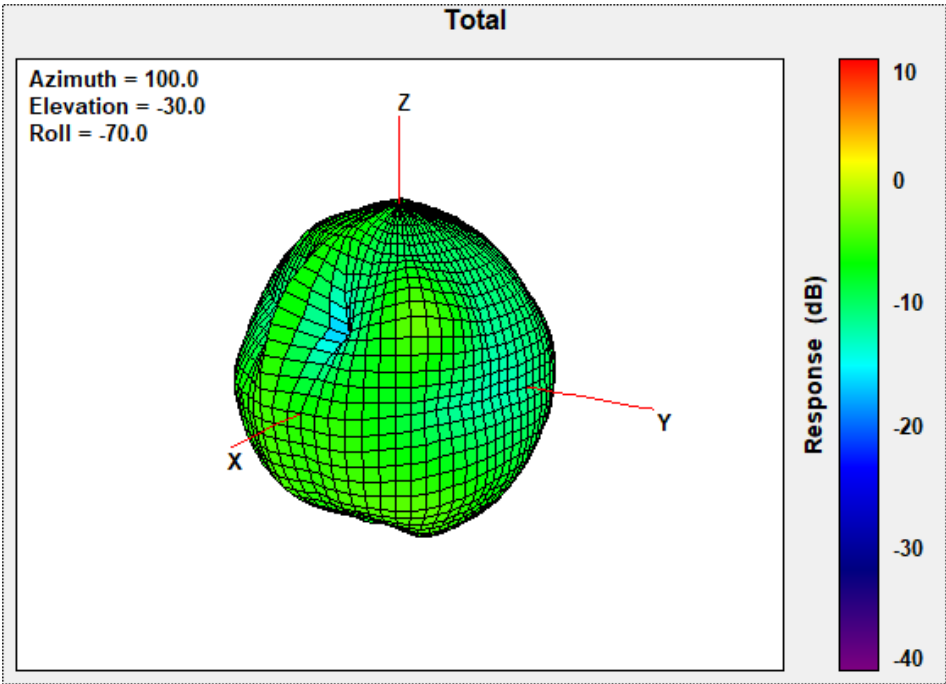


1880 MHz



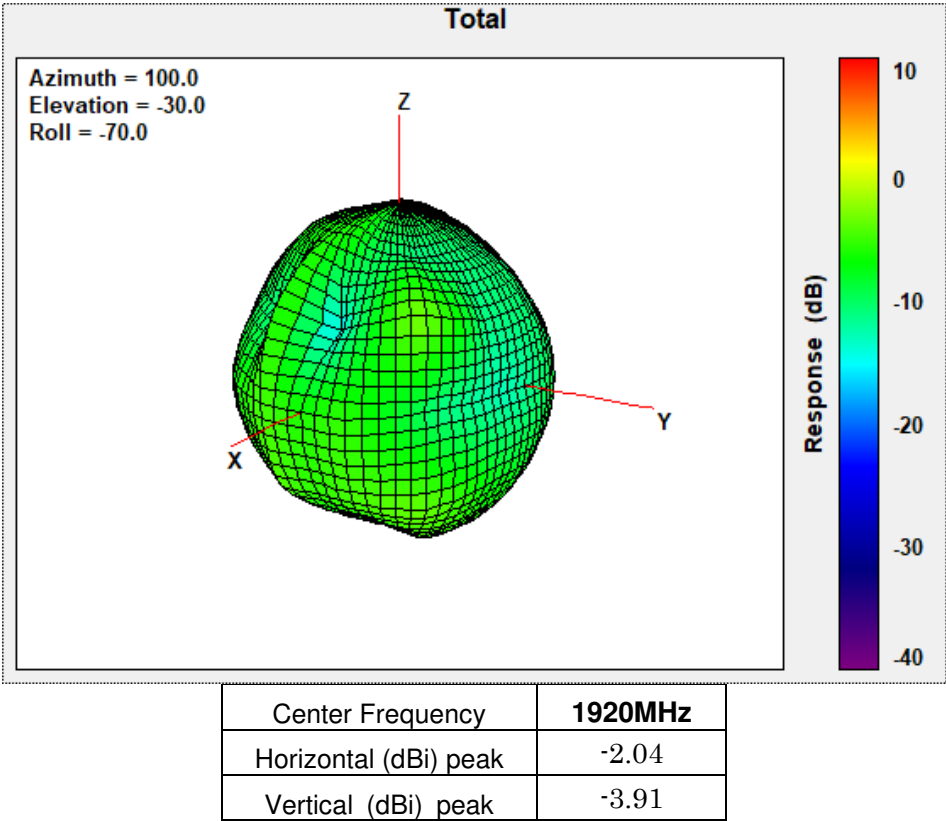
|                       |          |
|-----------------------|----------|
| Center Frequency      | 1880 MHz |
| Horizontal (dBi) peak | -2.30    |
| Vertical (dBi) peak   | -4.42    |

1910MHz

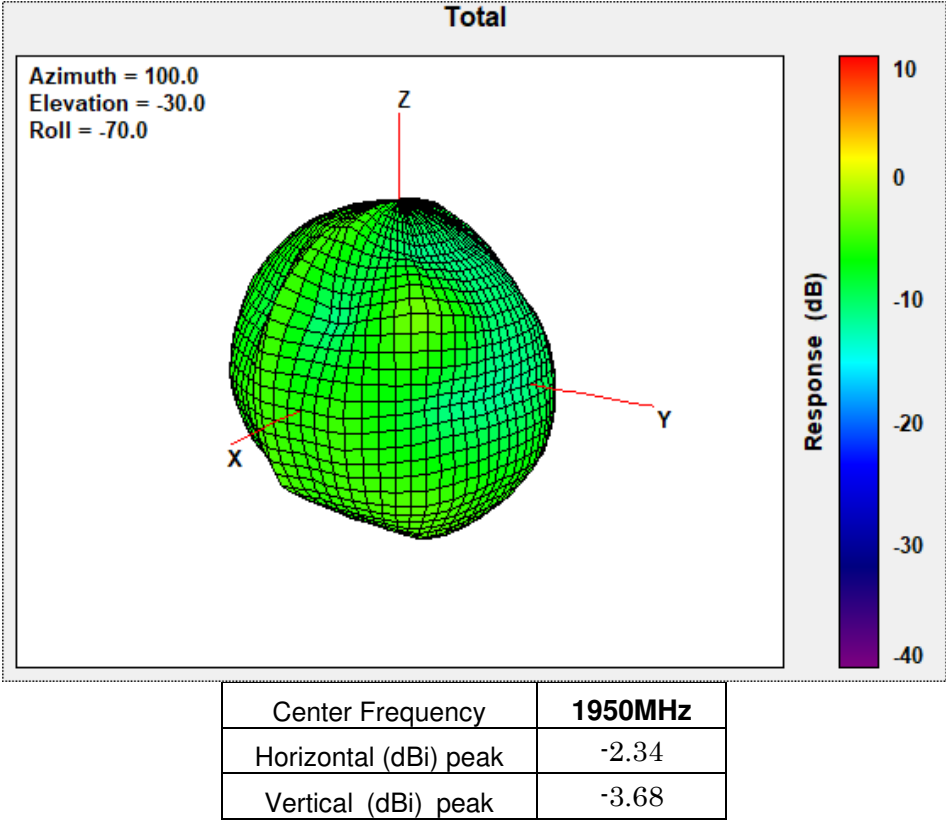


|                       |         |
|-----------------------|---------|
| Center Frequency      | 1910MHz |
| Horizontal (dBi) peak | -1.60   |
| Vertical (dBi) peak   | -3.86   |

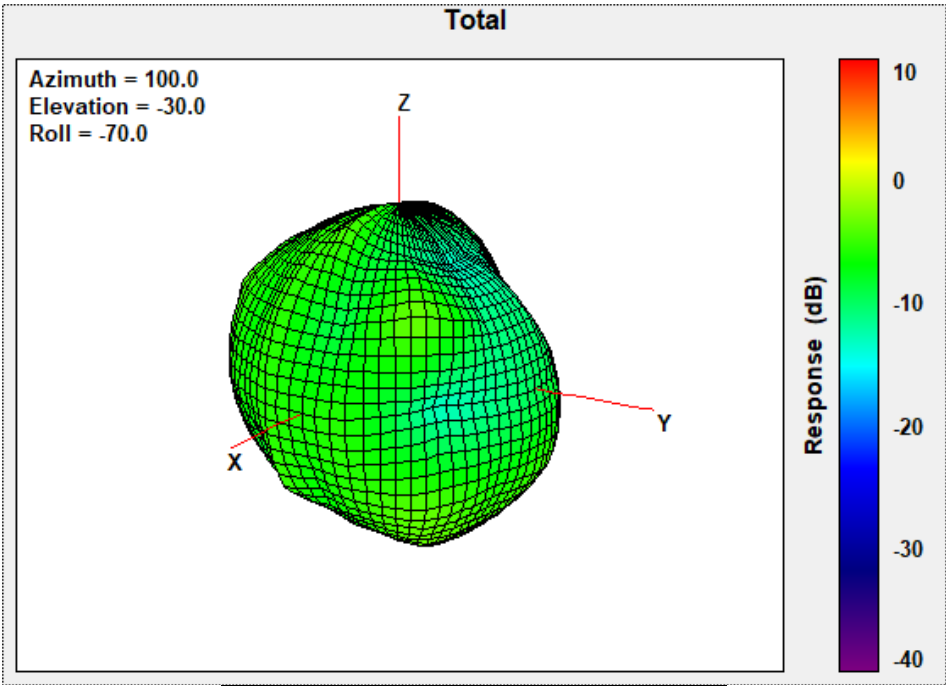
1920MHz



1950MHz

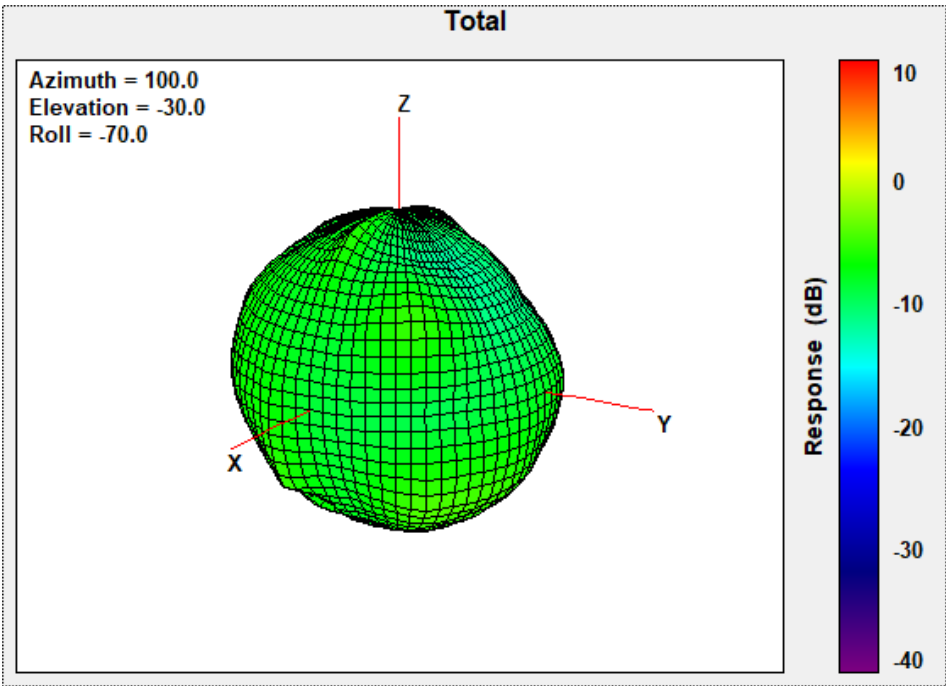


1980MHz



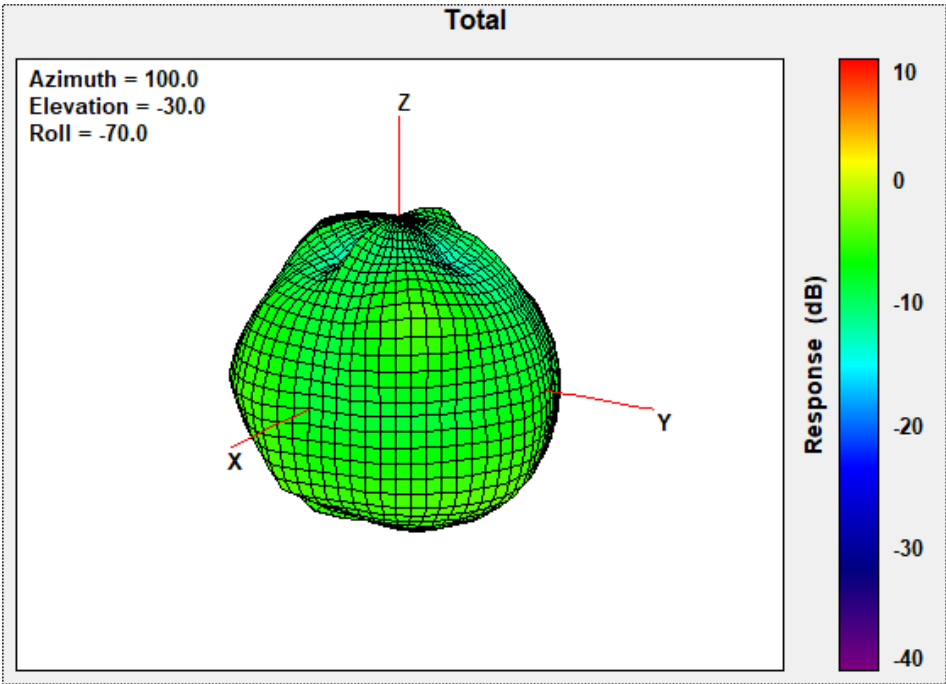
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1980MHz |
| Horizontal (dBi) peak | -1.90   |
| Vertical (dBi) peak   | -4.69   |

2110MHz



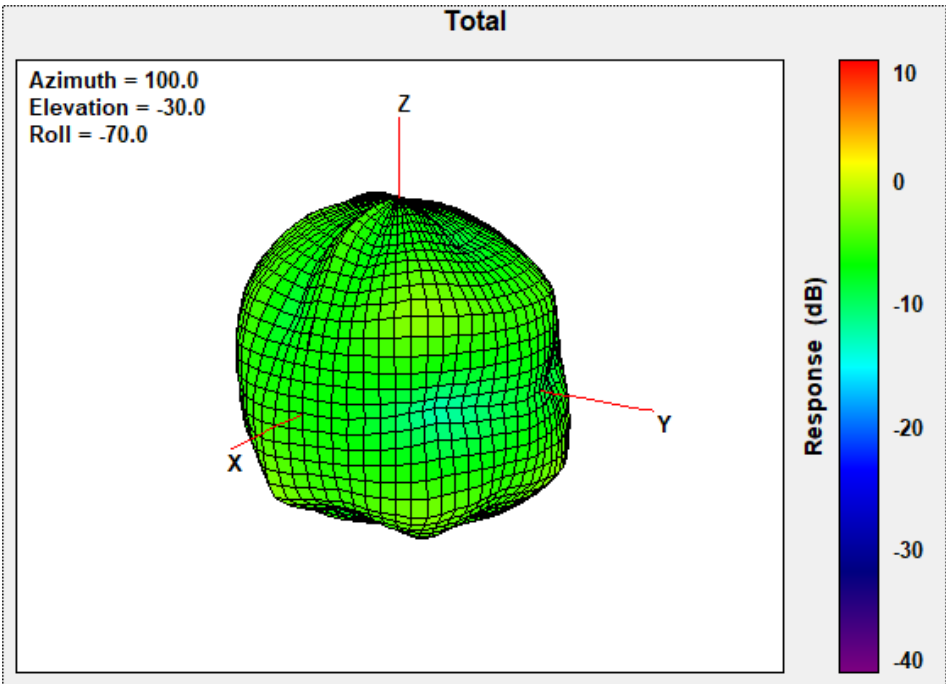
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2110MHz |
| Horizontal (dBi) peak | -3.89   |
| Vertical (dBi) peak   | -4.75   |

2200MHz



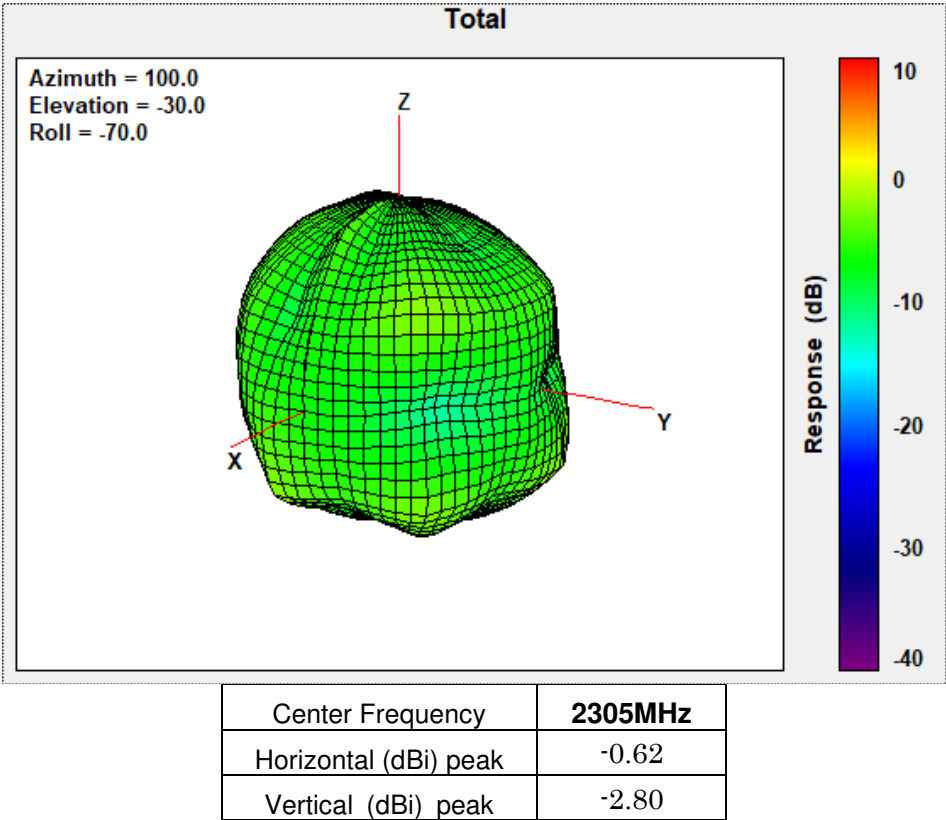
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2200MHz |
| Horizontal (dBi) peak | -3.45   |
| Vertical (dBi) peak   | -4.80   |

2300MHz

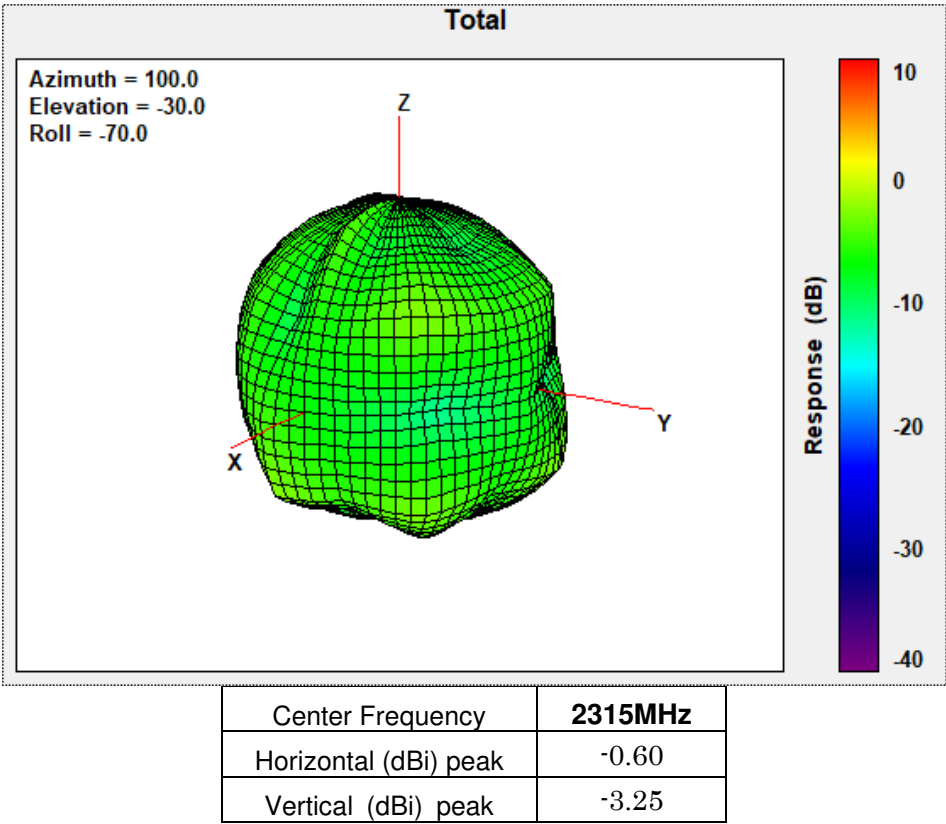


|                       |         |
|-----------------------|---------|
| Center Frequency      | 2300MHz |
| Horizontal (dBi) peak | -0.05   |
| Vertical (dBi) peak   | -3.15   |

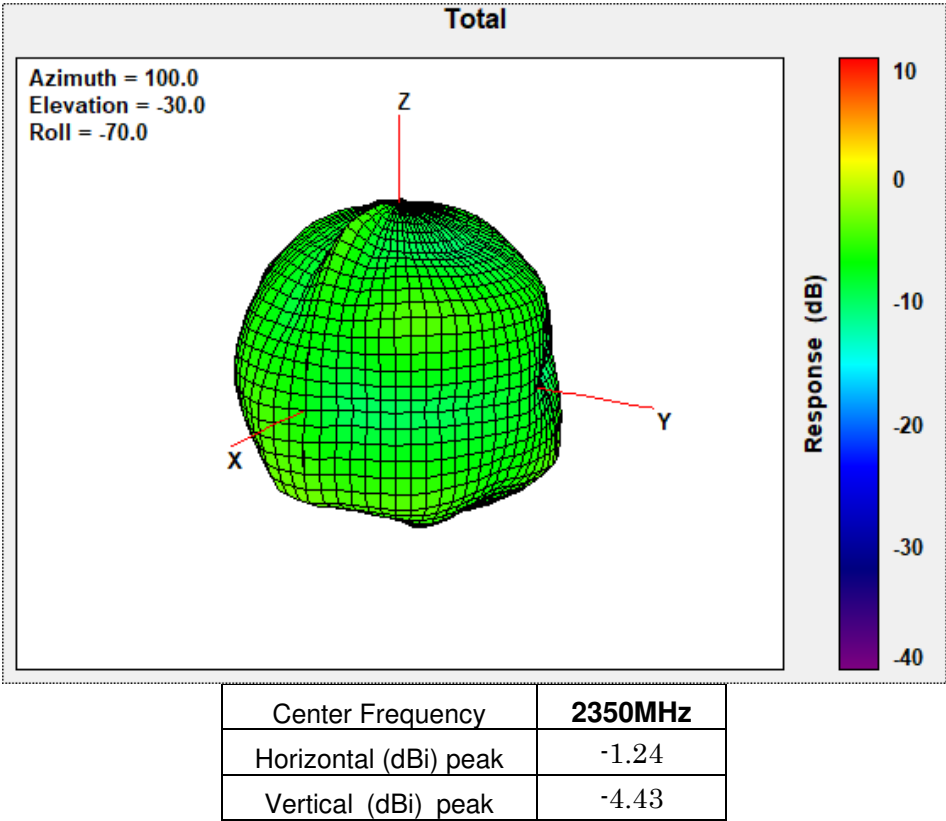
2305MHz



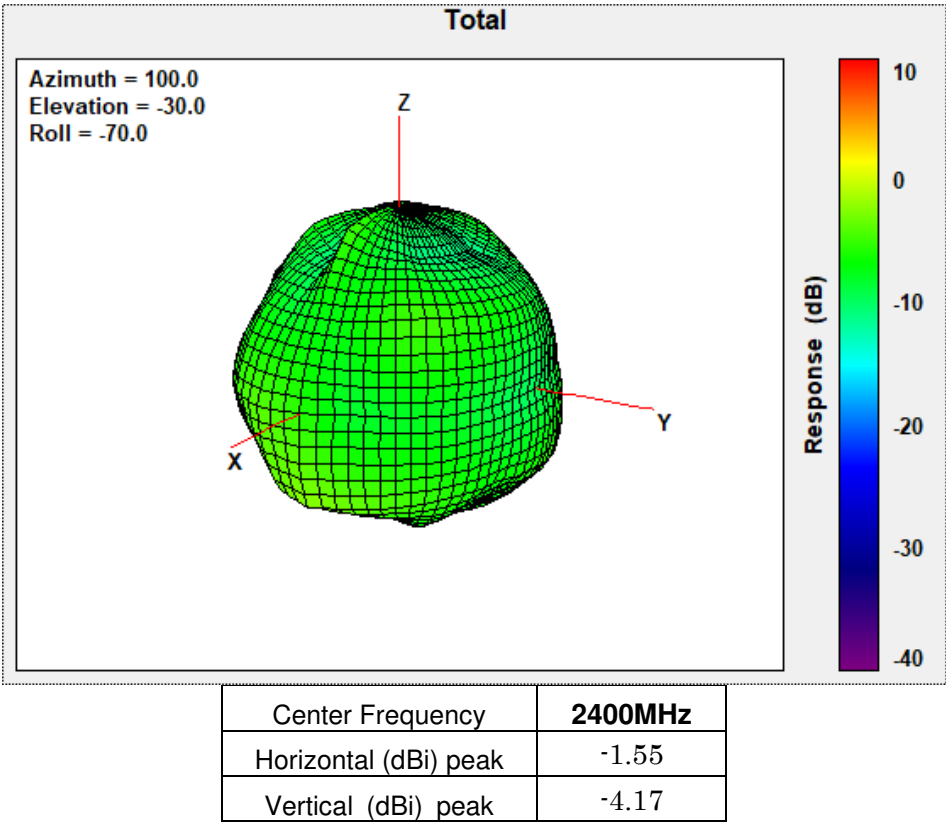
2315MHz



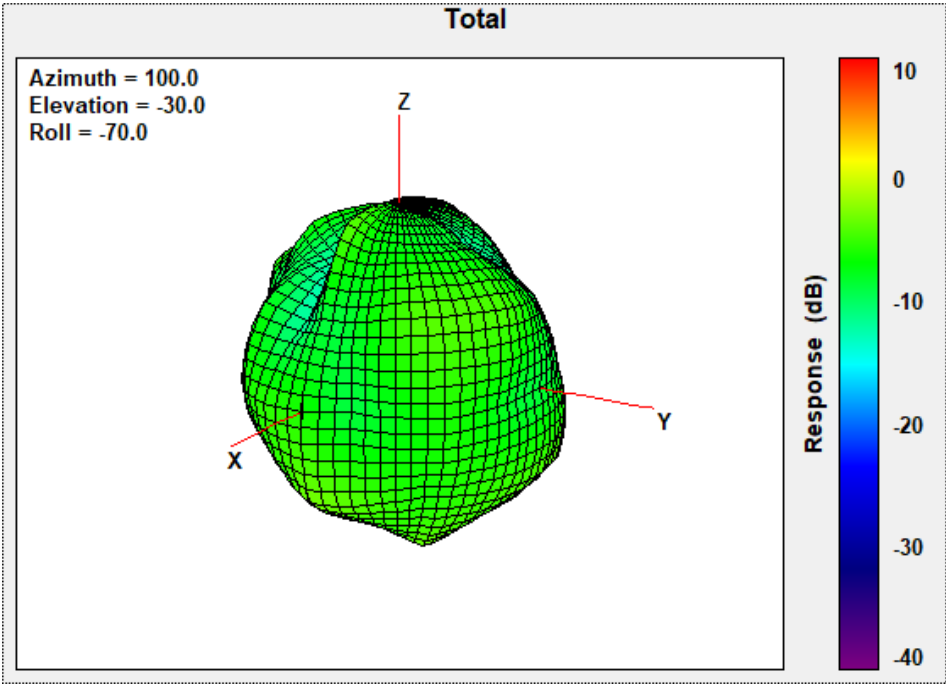
2350MHz



2400MHz

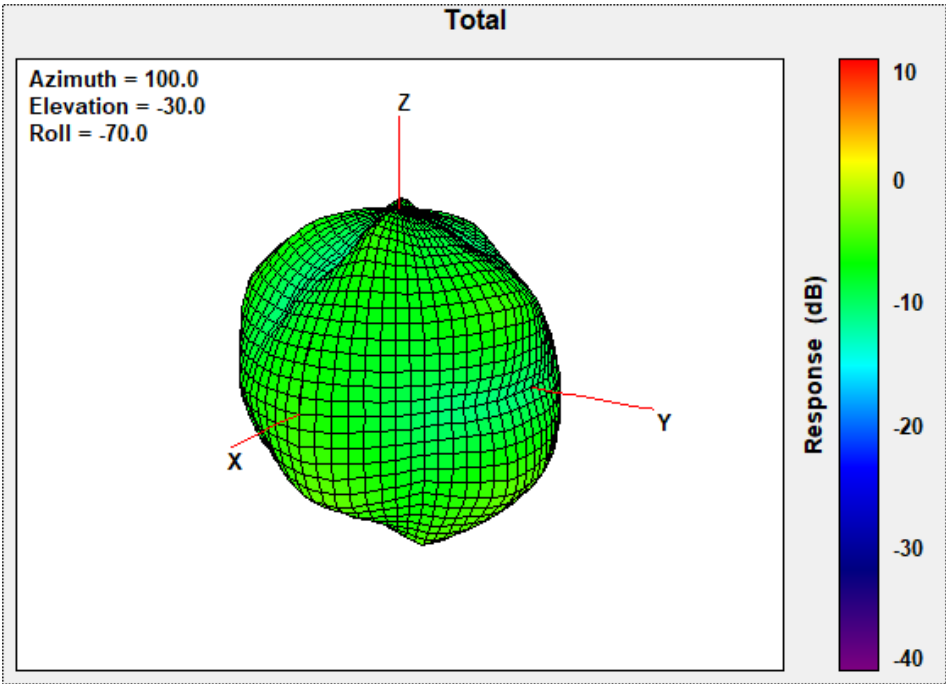


2500MHz

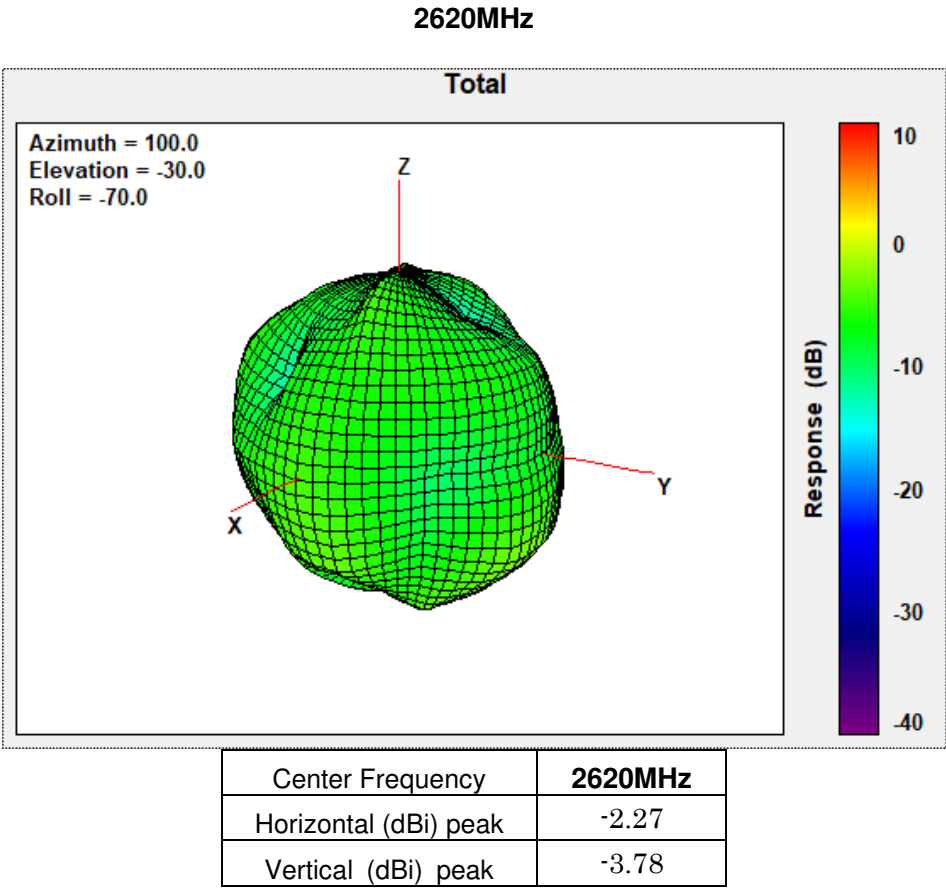
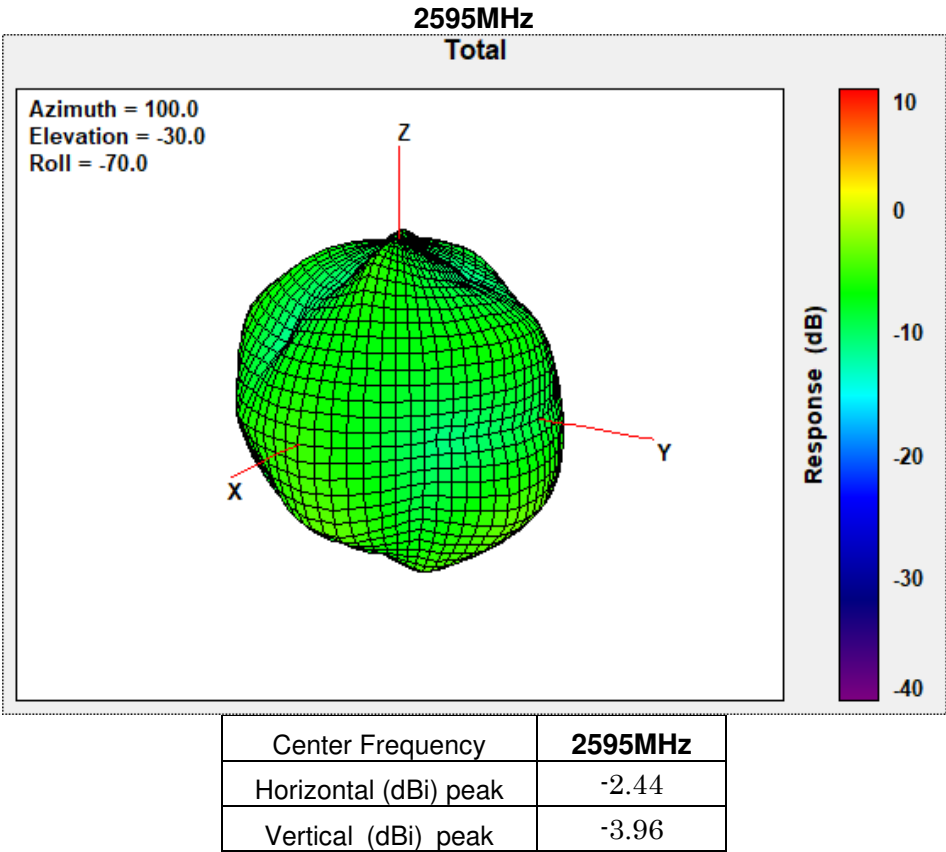


|                       |         |
|-----------------------|---------|
| Center Frequency      | 2500MHz |
| Horizontal (dBi) peak | -0.25   |
| Vertical (dBi) peak   | -2.70   |

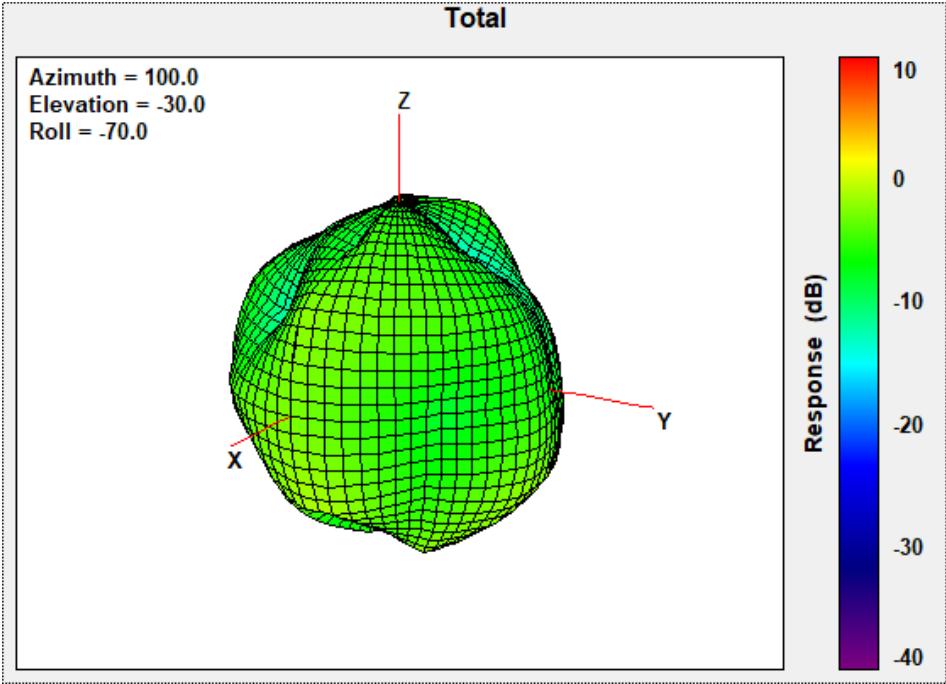
2570MHz



|                       |         |
|-----------------------|---------|
| Center Frequency      | 2570MHz |
| Horizontal (dBi) peak | -1.98   |
| Vertical (dBi) peak   | -4.60   |

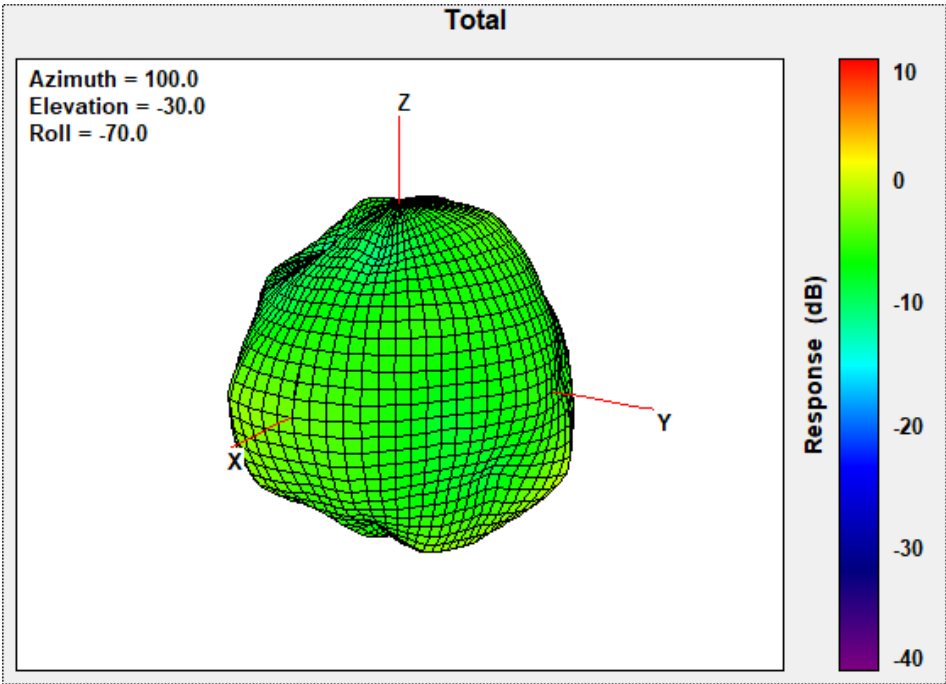


2690MHz



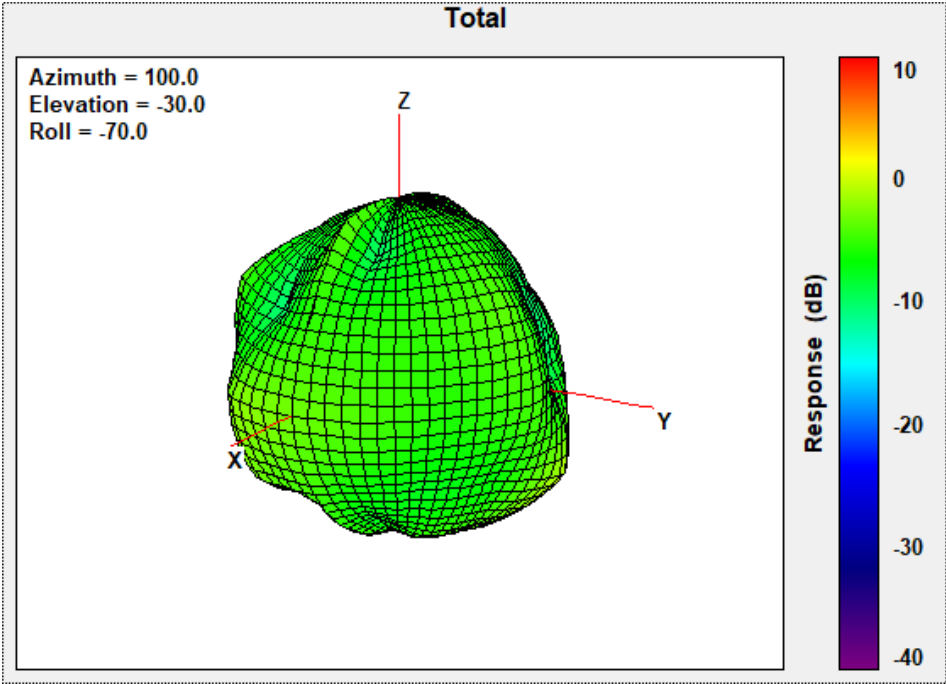
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2690MHz |
| Horizontal (dBi) peak | -1.35   |
| Vertical (dBi) peak   | -3.71   |

3400MHz



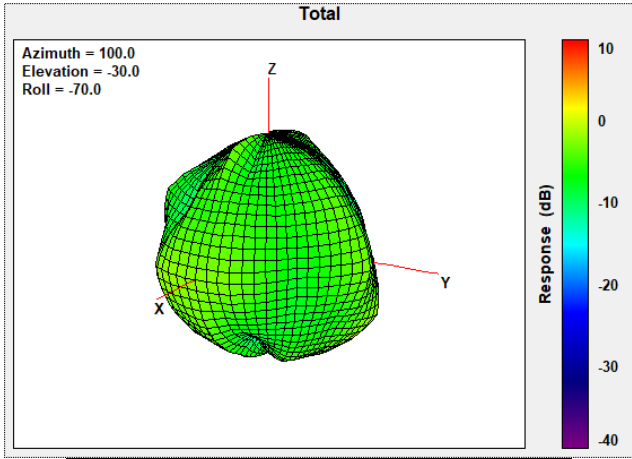
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3400MHz |
| Horizontal (dBi) peak | 0.01    |
| Vertical (dBi) peak   | -2.52   |

3500MHz



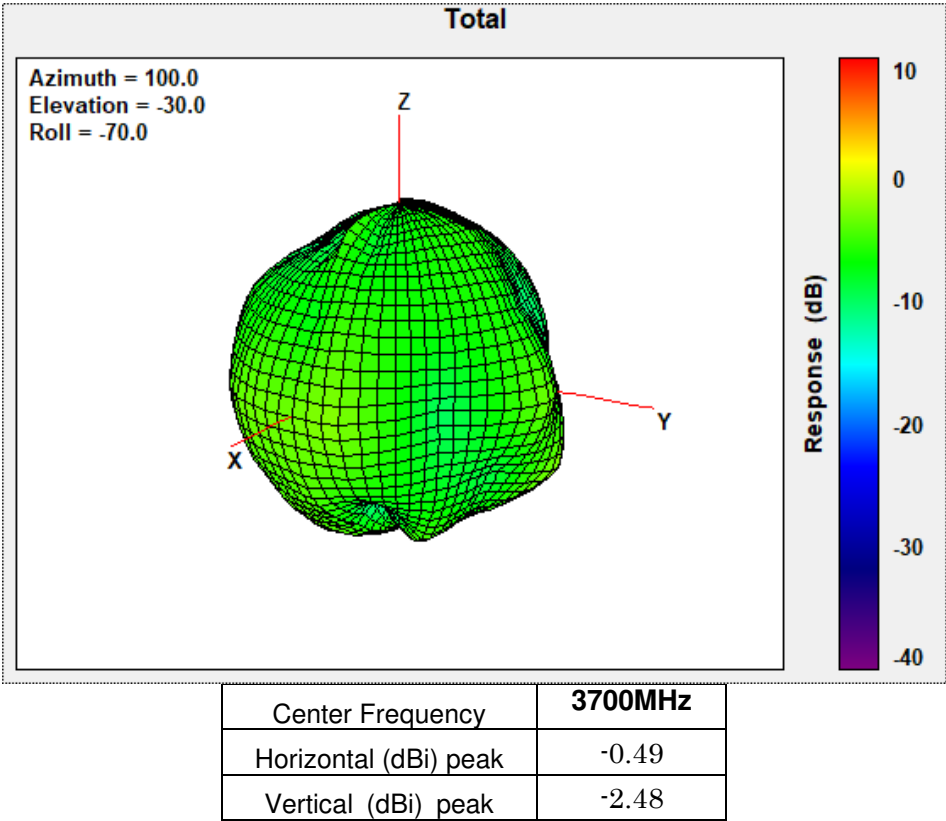
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3500MHz |
| Horizontal (dBi) peak | 0.38    |
| Vertical (dBi) peak   | -2.57   |

3600MHz

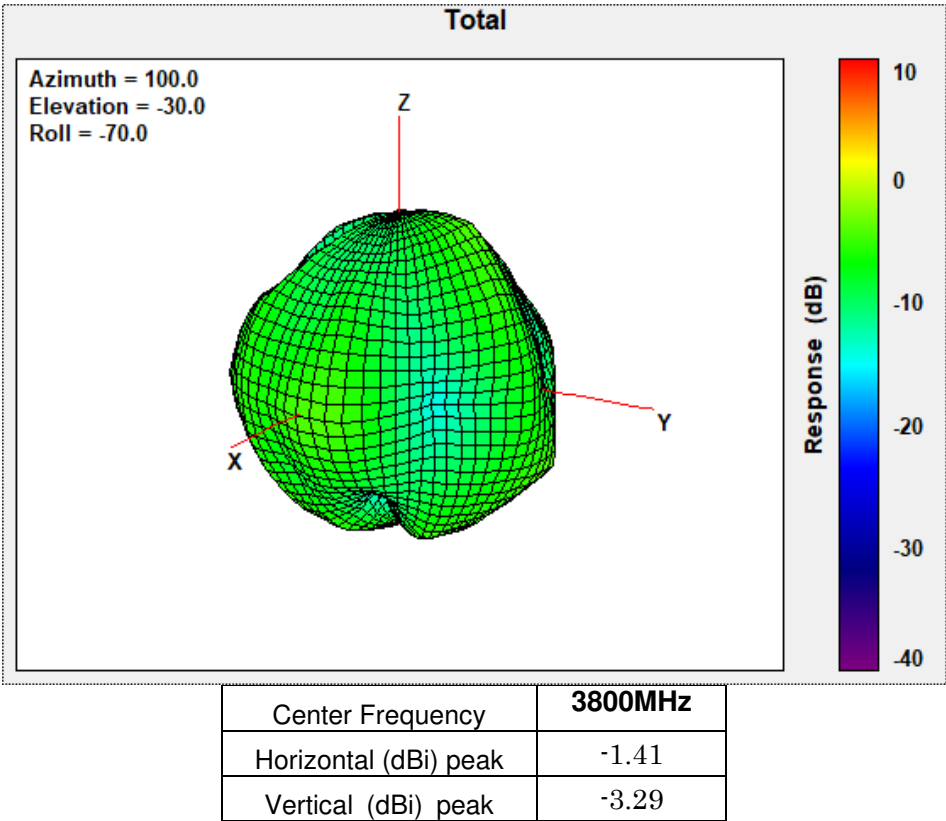


|                       |         |
|-----------------------|---------|
| Center Frequency      | 3600MHz |
| Horizontal (dBi) peak | -1.15   |
| Vertical (dBi) peak   | -2.16   |

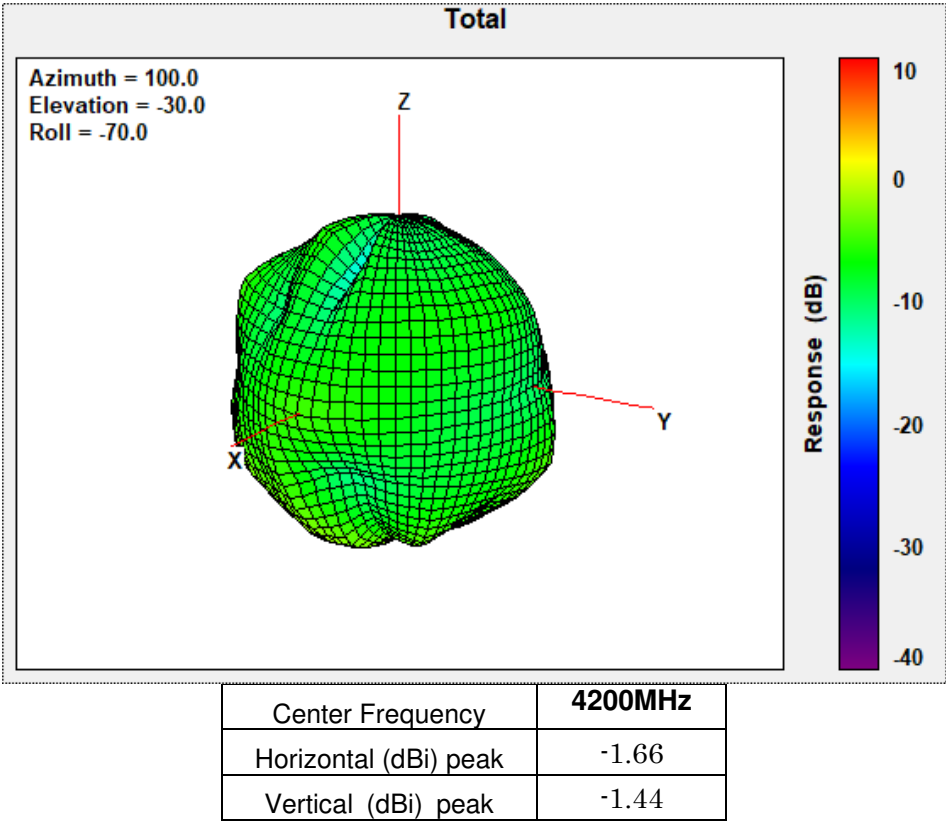
3700MHz



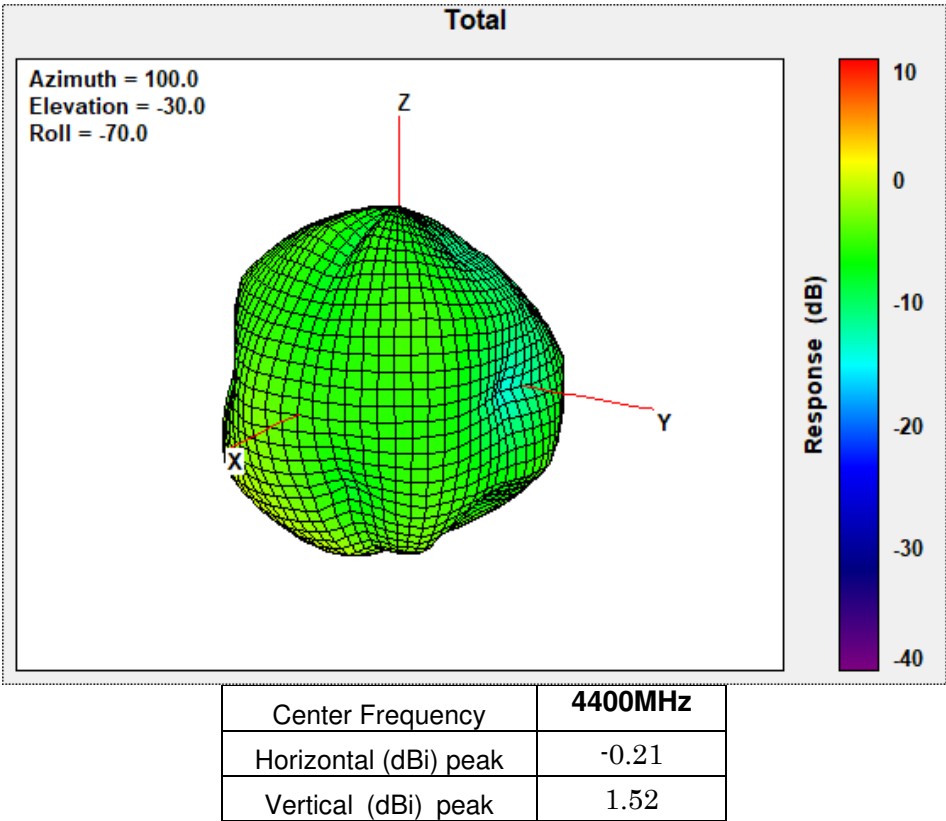
3800MHz



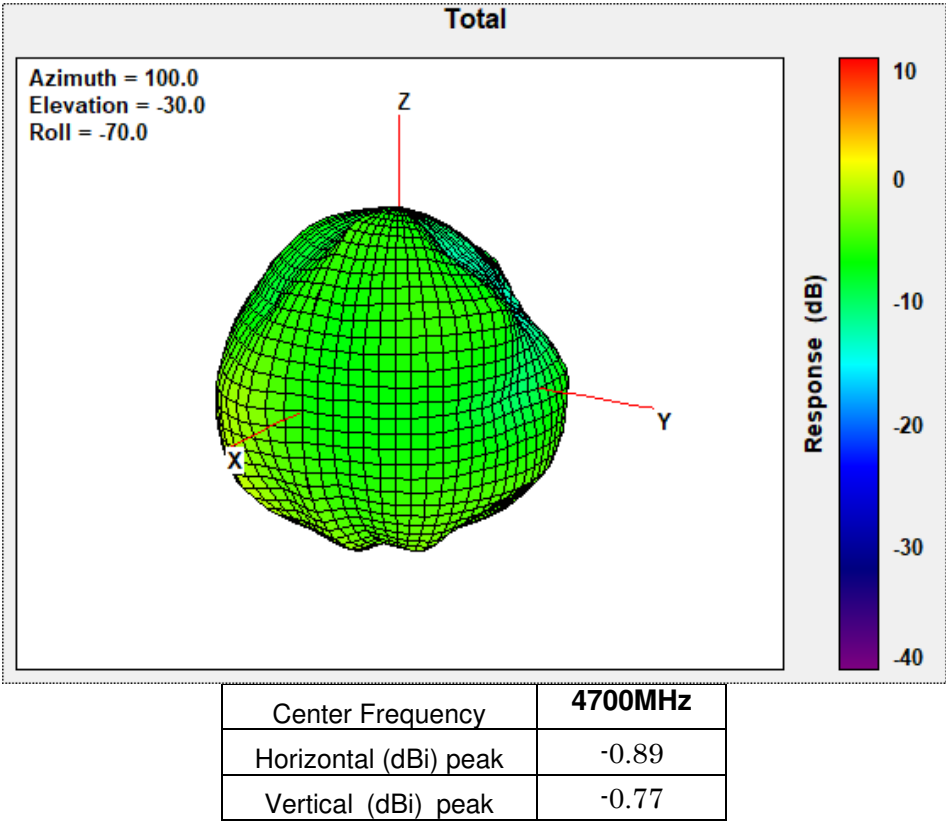
4200MHz



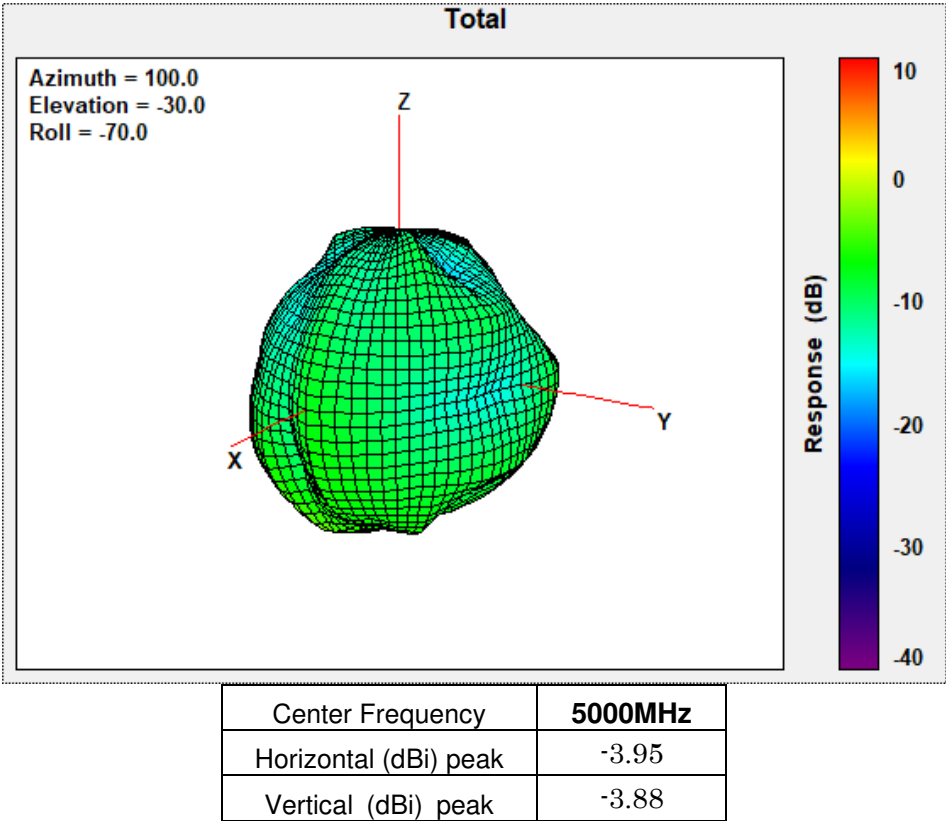
4400MHz



4700MHz

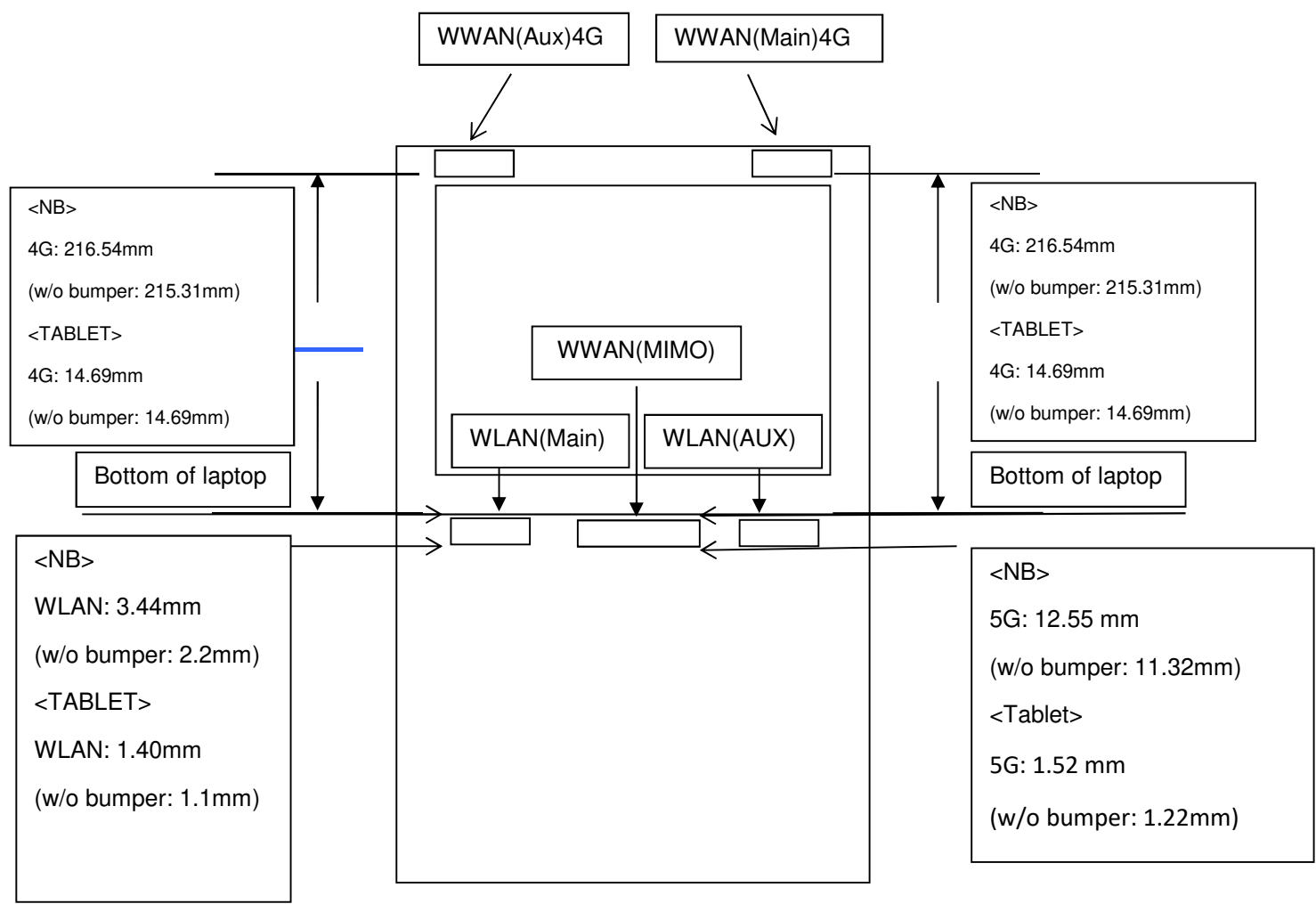


5000MHz



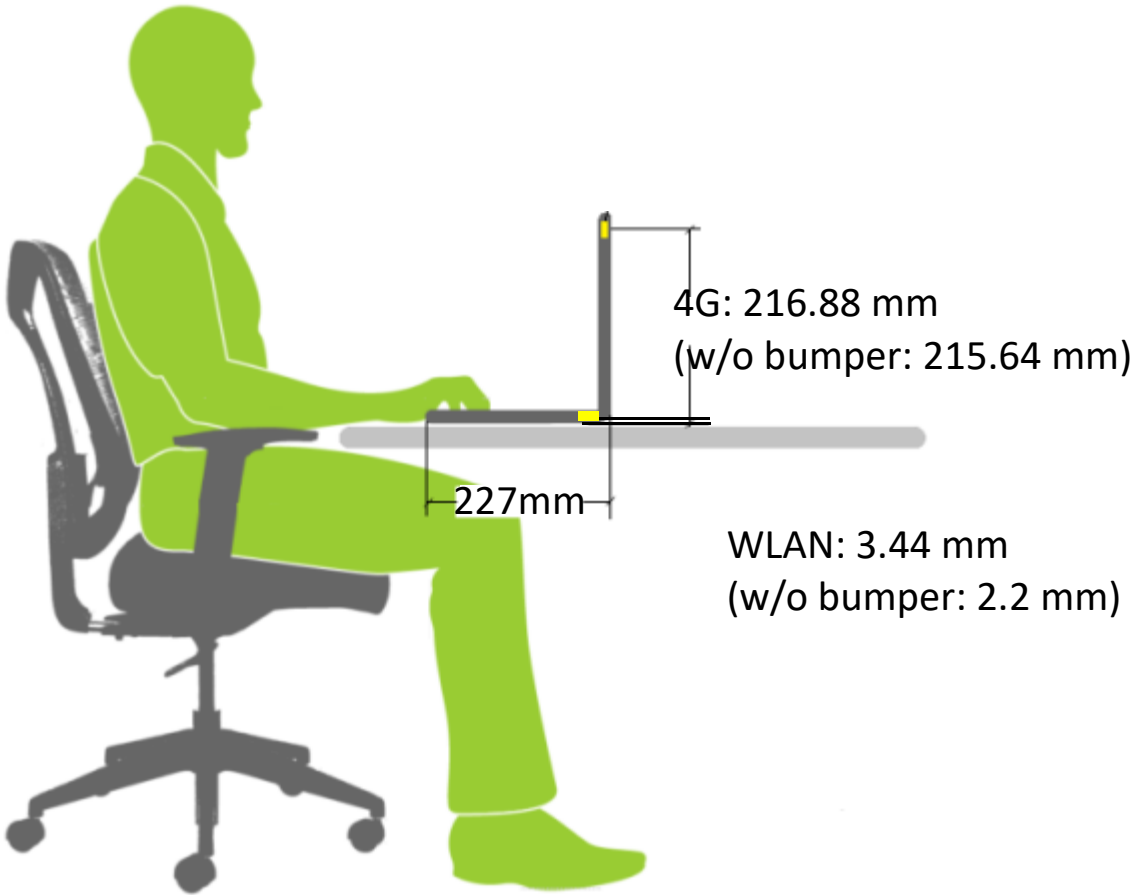
Section 4. Antenna Host Platform Location Information

Include a **dimensioned photo(s) or dimensioned drawing(s)** of Main and Aux antenna placements (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.



**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)

