

# DK2.0 UWB Antenna Measurement

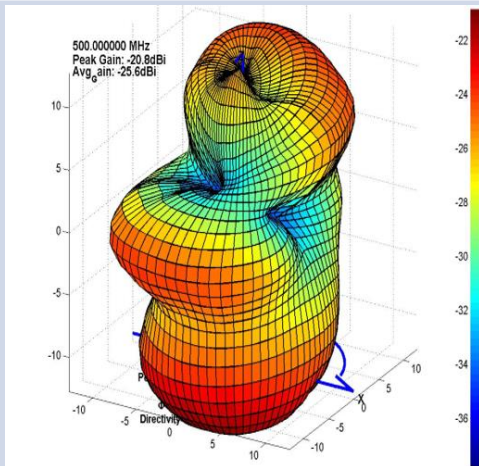
|                    |                     |
|--------------------|---------------------|
| <i>Application</i> | <i>UWB</i>          |
| <i>Date</i>        | <i>2024. 01. 05</i> |

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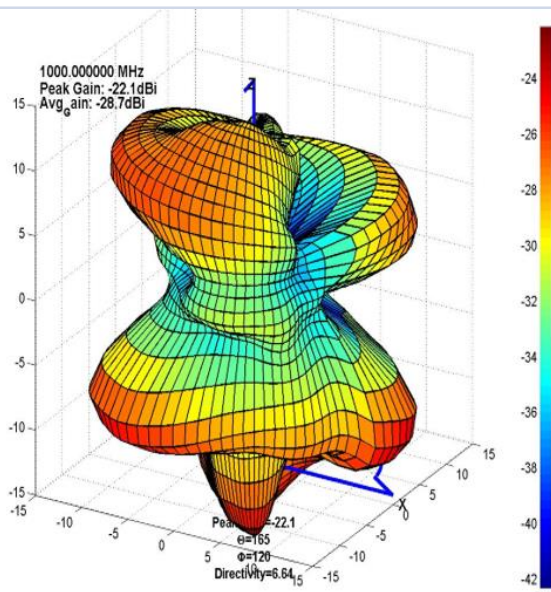
| Frequency Range | Ant. Gain |           |
|-----------------|-----------|-----------|
|                 | Avg. Gain | Peak Gain |
| 30MHz           | -25.60    | -20.800   |
| 500MHz          |           |           |
| 1GHz            | -28.70    | -22.100   |
| 2GHz            | -15.00    | -10.100   |
| 3GHz            | -13.50    | -8.660    |
| 4GHz            | -11.30    | -5.570    |
| 5GHz            | -10.80    | -5.130    |
| 6GHz            | -4.82     | -1.960    |
| 6.24GHz         | -6.34     | -1.470    |
| 6.25GHz         | -6.67     | -1.620    |
| 6.26GHz         | -6.50     | -1.290    |
| 6.5GHz          | -1.39     | 3.178     |
| 7GHz            | -1.79     | 3.068     |

| Frequency Range | Ant. Gain |           |
|-----------------|-----------|-----------|
|                 | Avg. Gain | Peak Gain |
| 7.08GHz         | -3.01     | 2.065     |
| 7.09GHz         | -3.19     | 1.724     |
| 7.23GHz         | -5.44     | 0.160     |
| 7.24GHz         | -5.22     | 0.218     |
| 7.25GHz         | -5.44     | 0.210     |
| 7.26GHz         | -5.17     | 0.188     |
| 8GHz            | -1.38     | 3.309     |
| 9GHz            | -7.49     | -2.910    |
| 10GHz           | -12.10    | -7.580    |
| 11GHz           | -16.30    | -9.420    |
| 15.975GHz       | -         | -11.310   |
| 23.96GHz        | -         | -19.860   |
| 26.00GHz        |           |           |

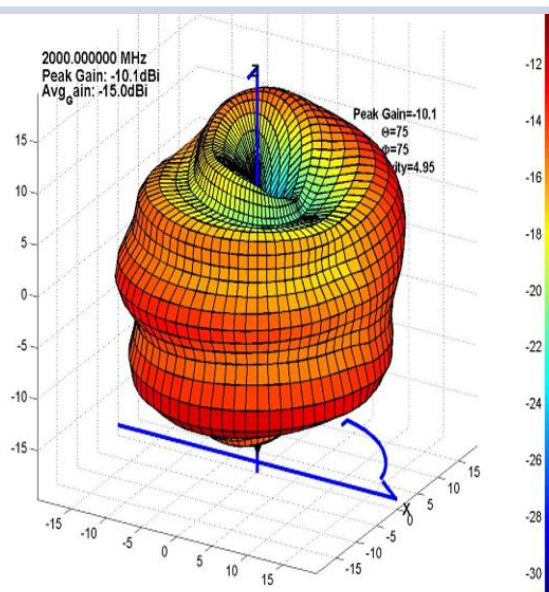
## 30MHz~500Mz



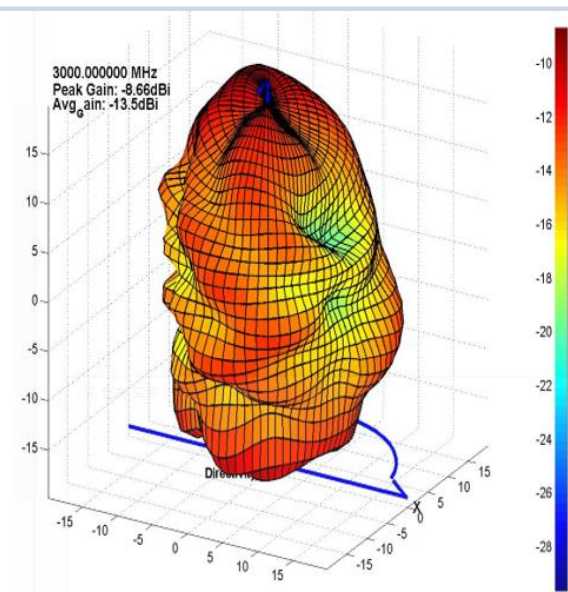
## 1GHz



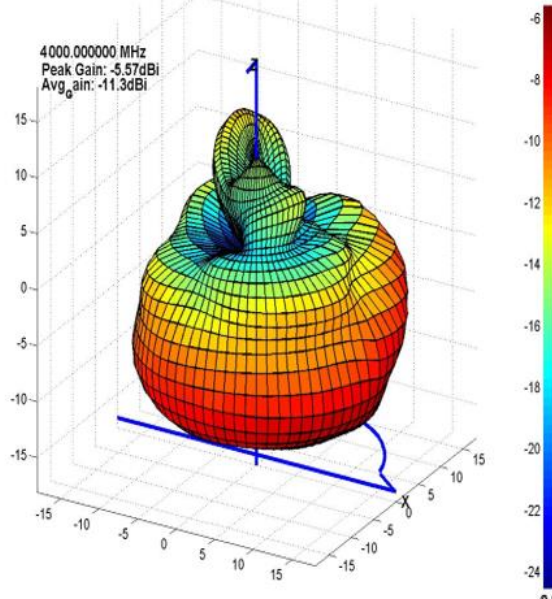
## 2GHz



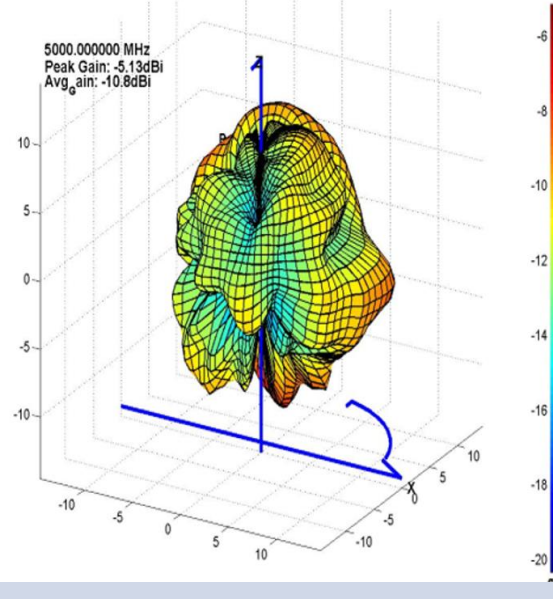
## 3GHz



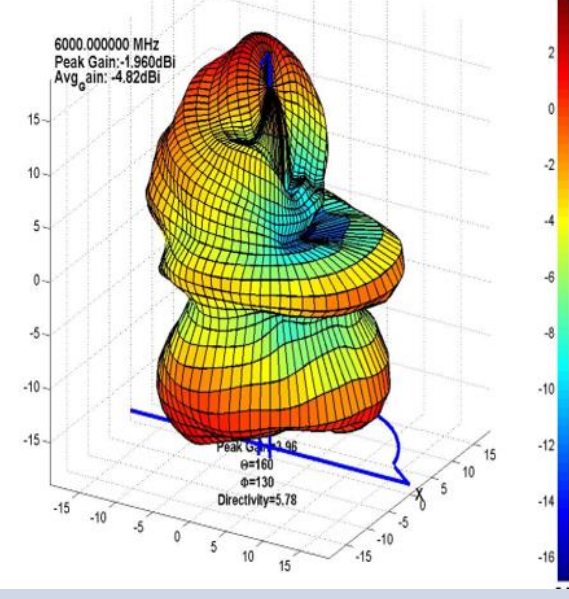
## 4GHz



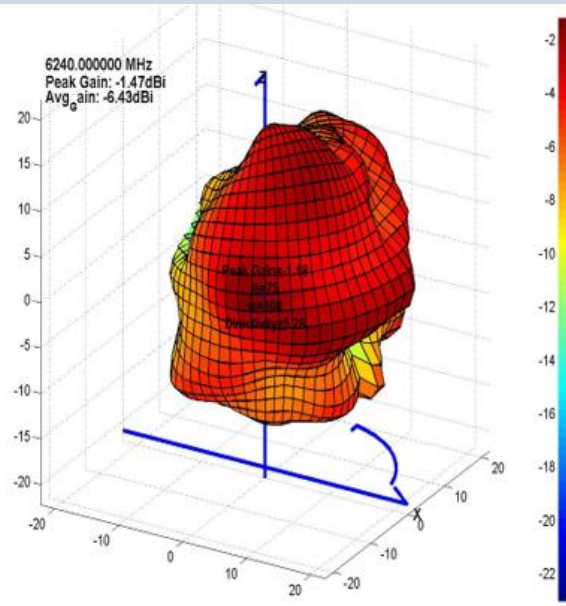
## 5GHz



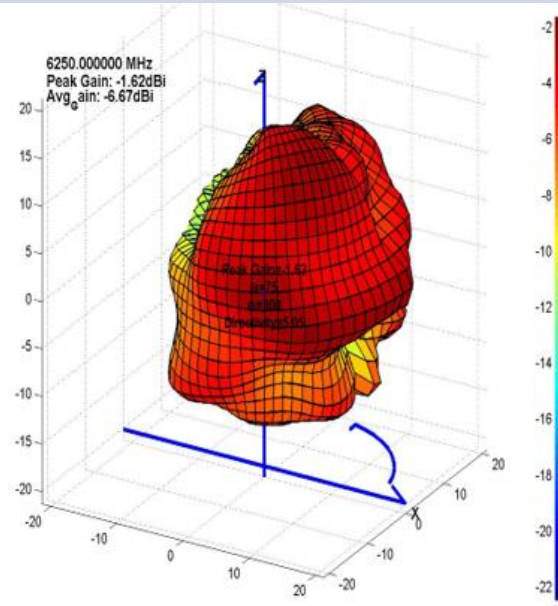
## 6GHz



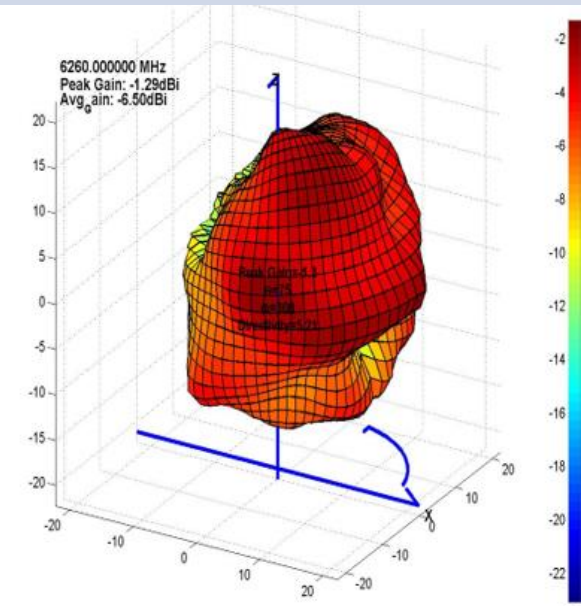
## 6.24GHz



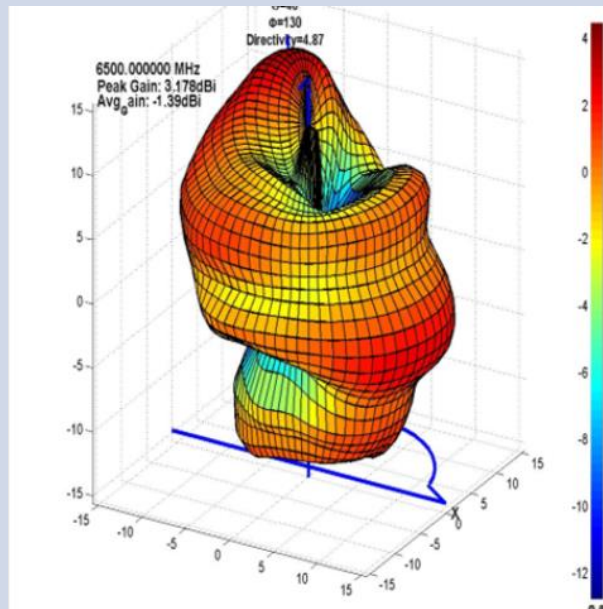
## 6.25GHz



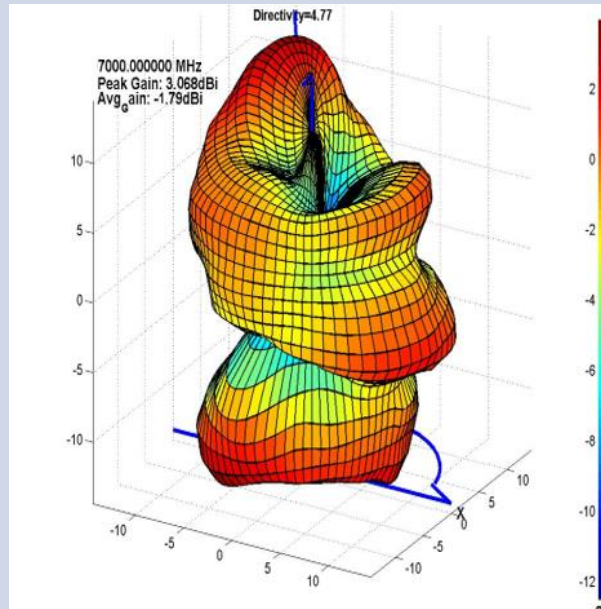
## 6.26GHz



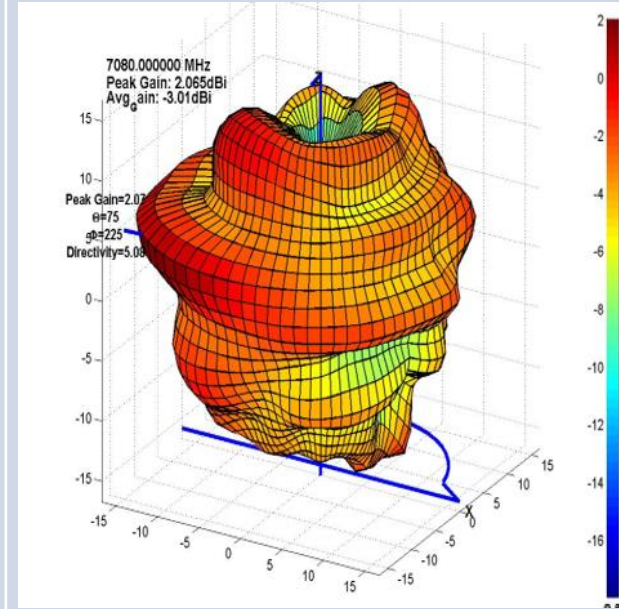
6.5GHz



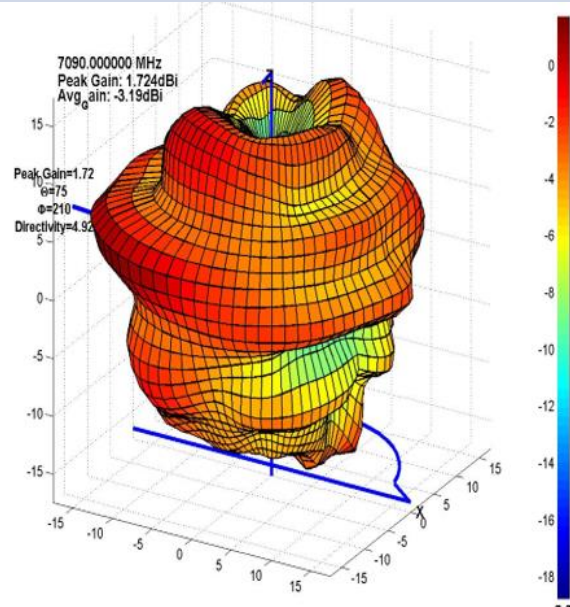
7GHz



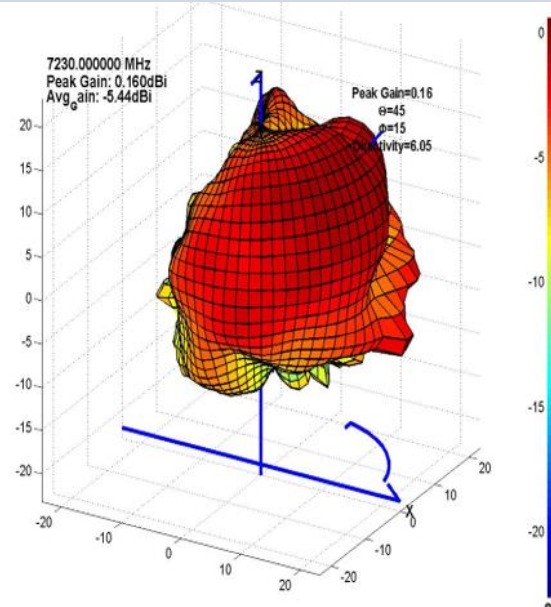
7.08GHz



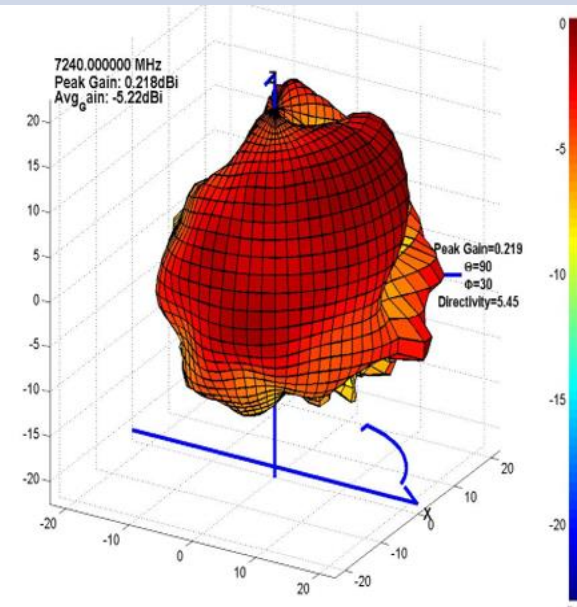
7.09GHz



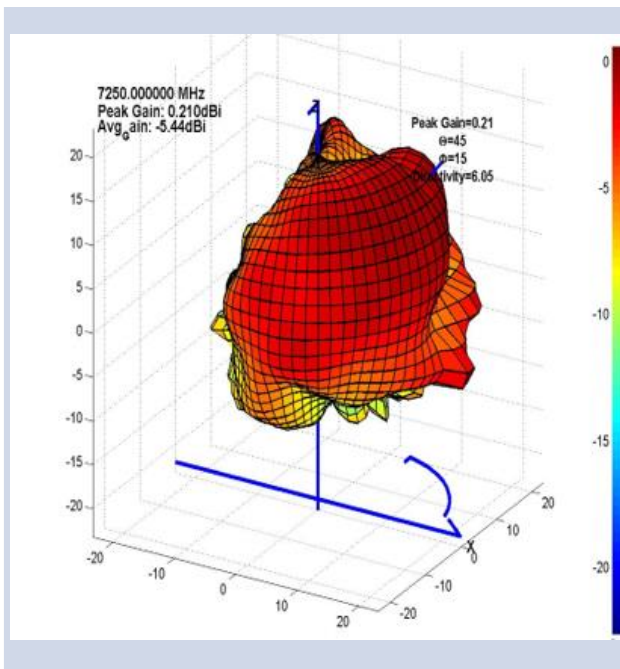
7.23GHz



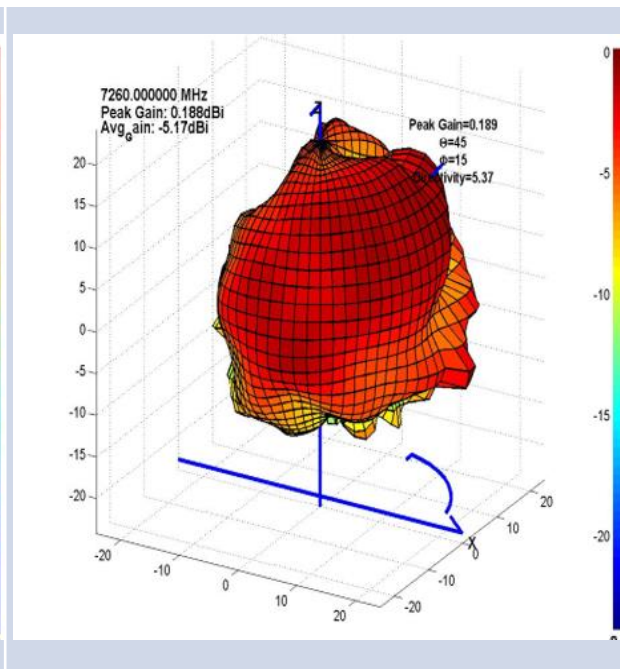
7.24GHz



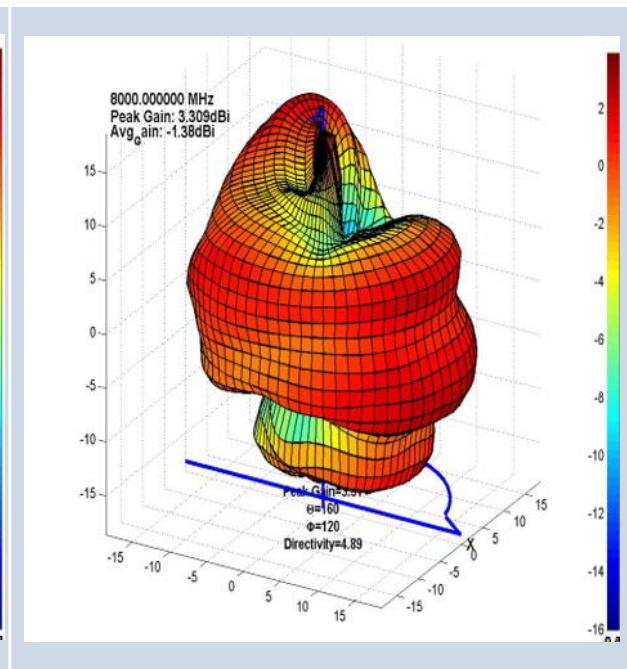
7.25GHz



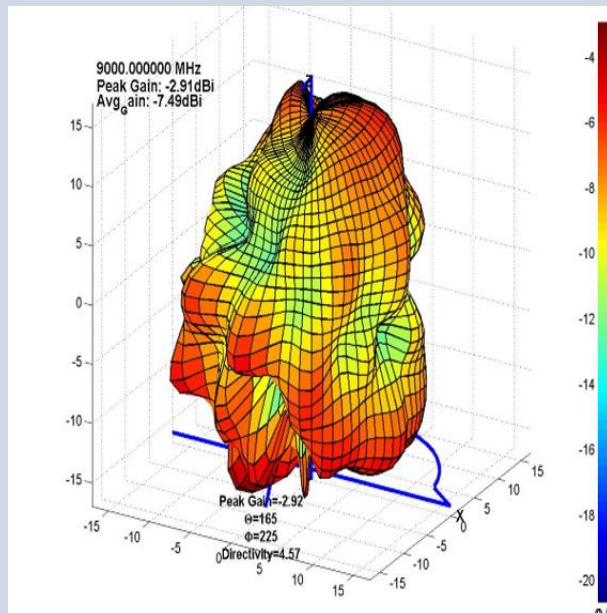
7.26GHz



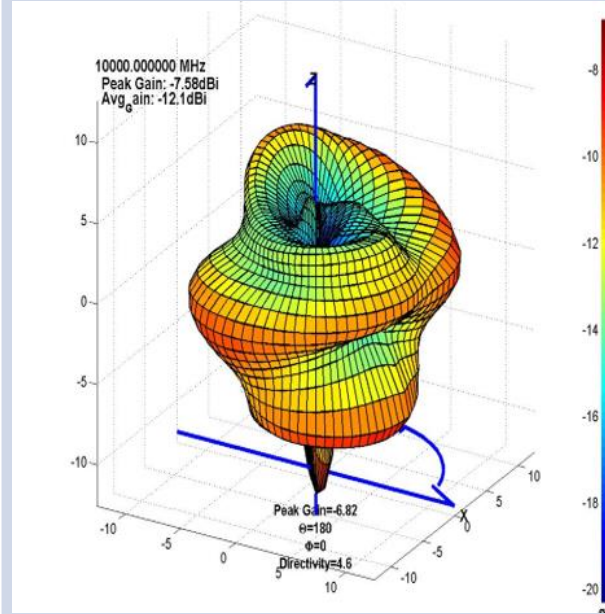
8GHz



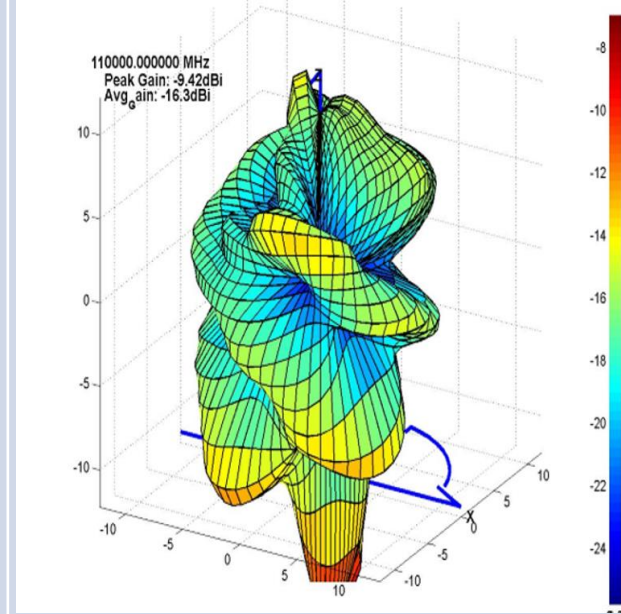
## 9GHz



## 10GHz



## 11GHz

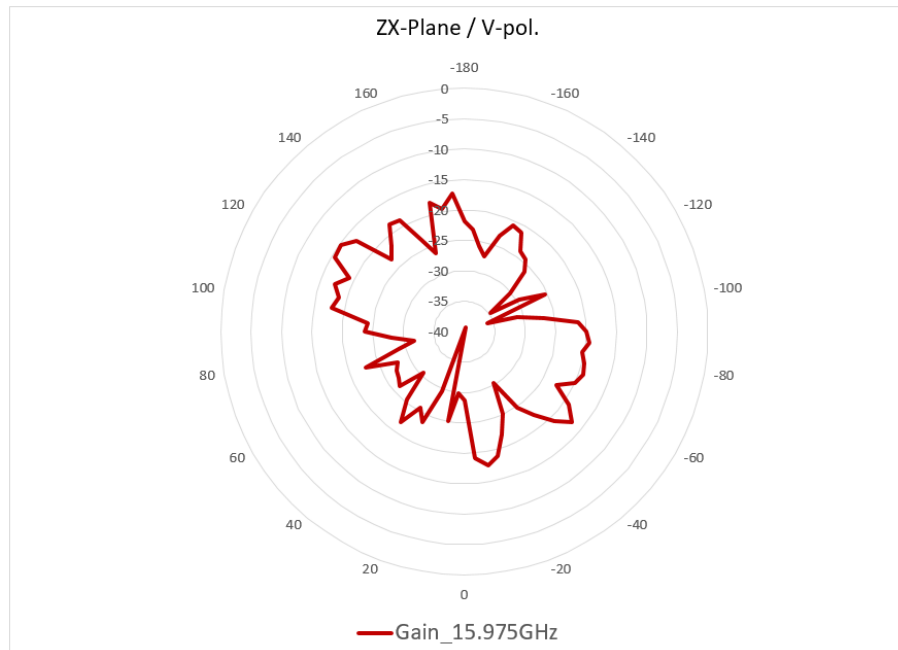


15.975GHz

ZX-Plane

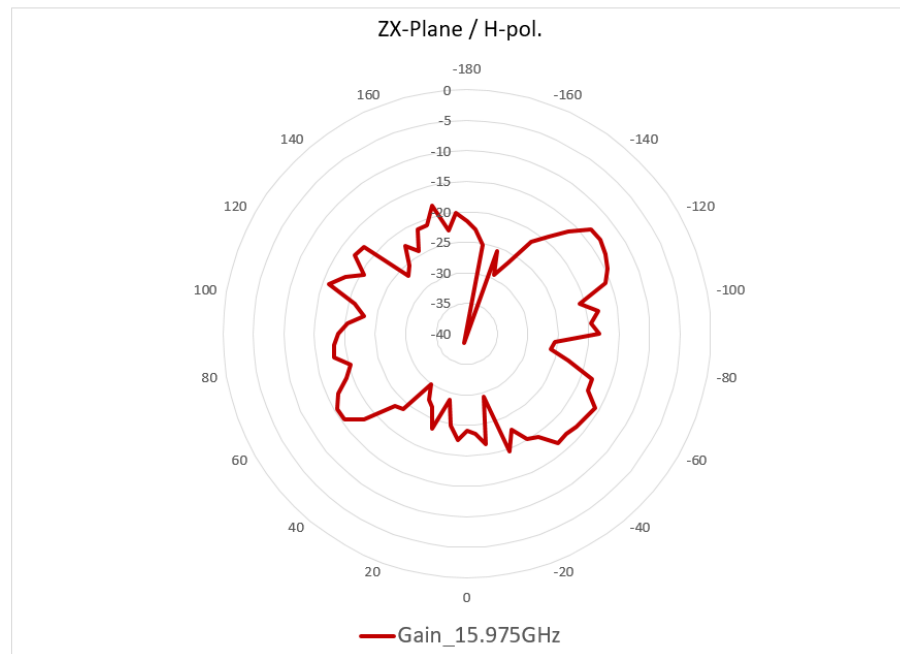
Frequency : Gain\_15.975GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -15.02 | dBi |
|----------|--------|-----|



Frequency : Gain\_15.975GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -13.24 | dBi |
|----------|--------|-----|

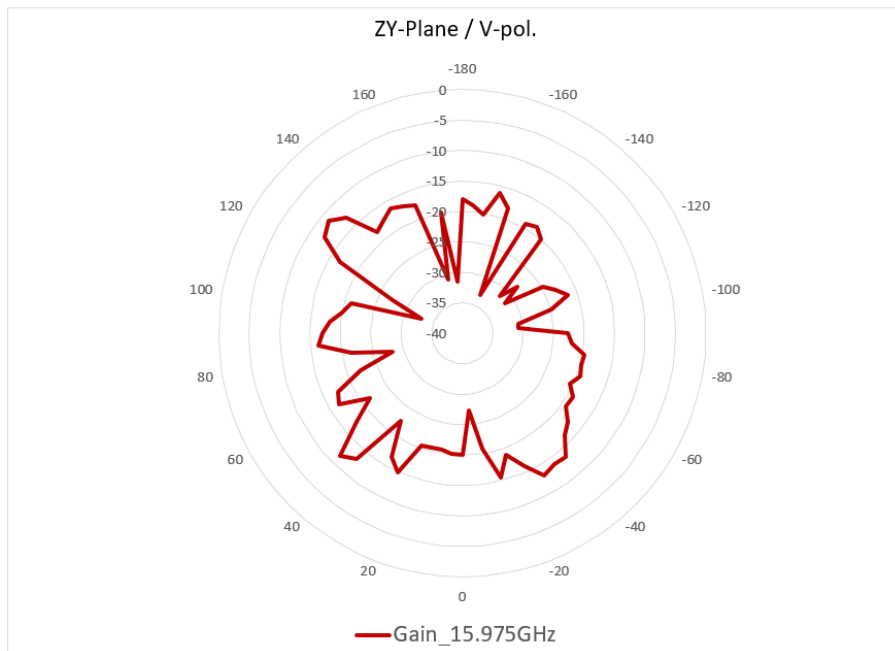


## 15.975GHz

### ZY-Plane

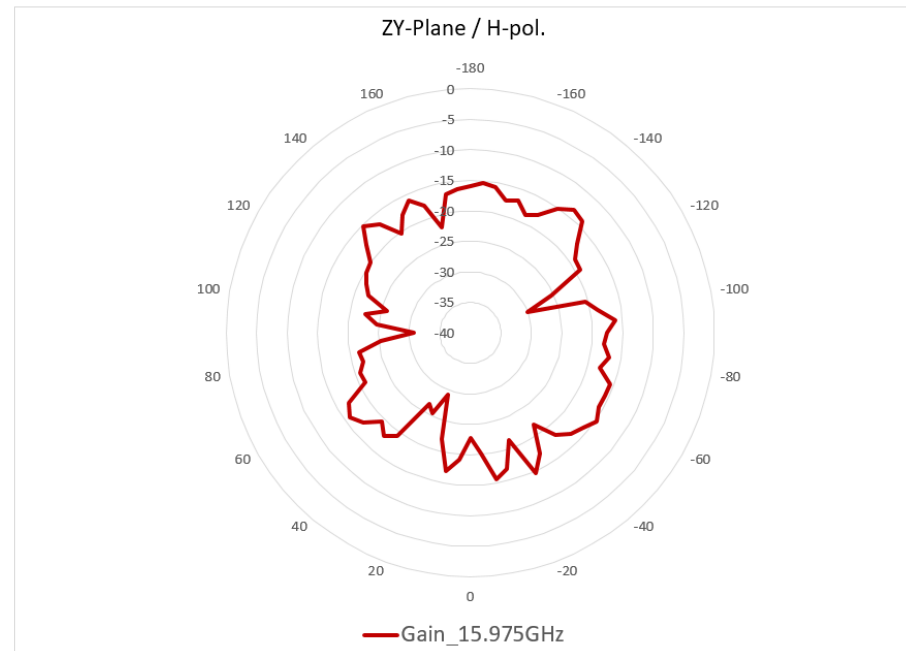
Frequency : Gain\_15.975GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -11.31 | dBi |
|----------|--------|-----|



Frequency : Gain\_15.975GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -13.58 | dBi |
|----------|--------|-----|

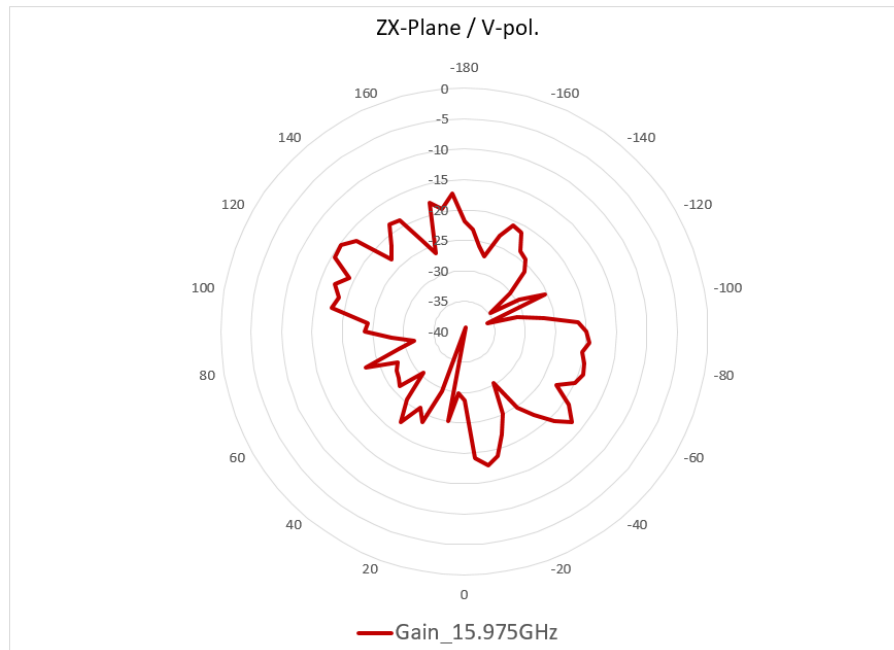


## 15.975GHz

### ZX-Plane

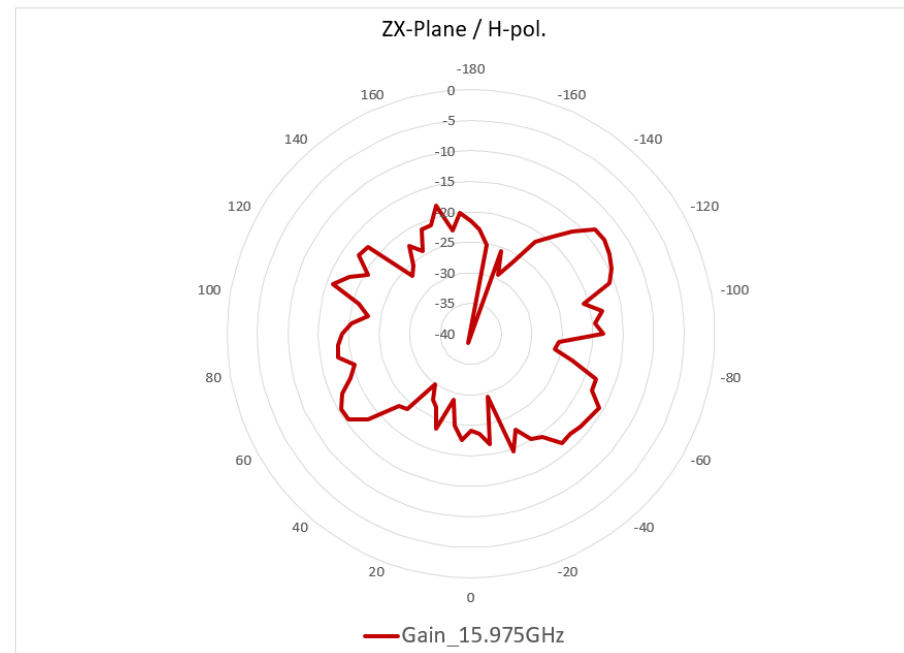
Frequency : Gain\_15.975GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -15.02 | dBi |
|----------|--------|-----|



Frequency : Gain\_15.975GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -13.24 | dBi |
|----------|--------|-----|

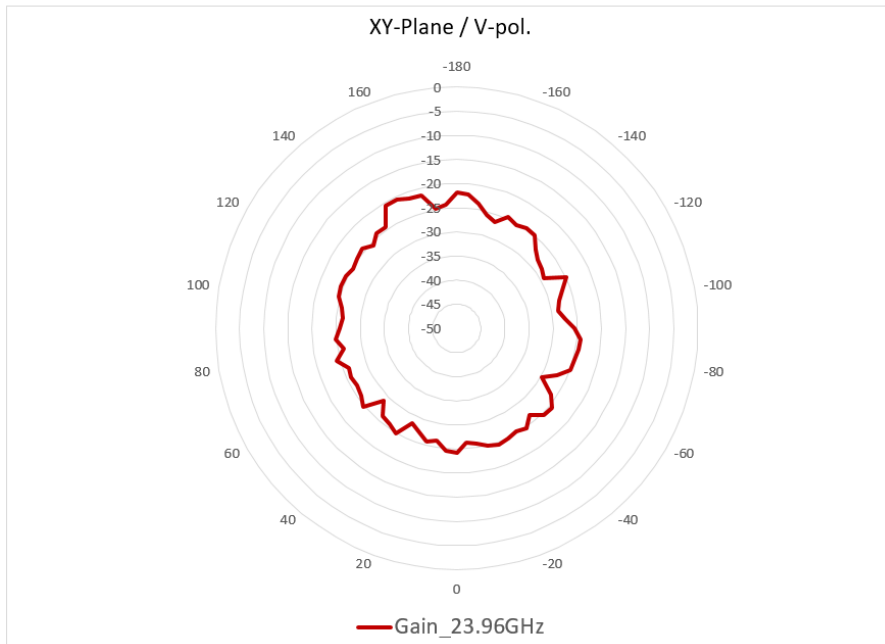


23.96GHz~26GHz

XY-Plane

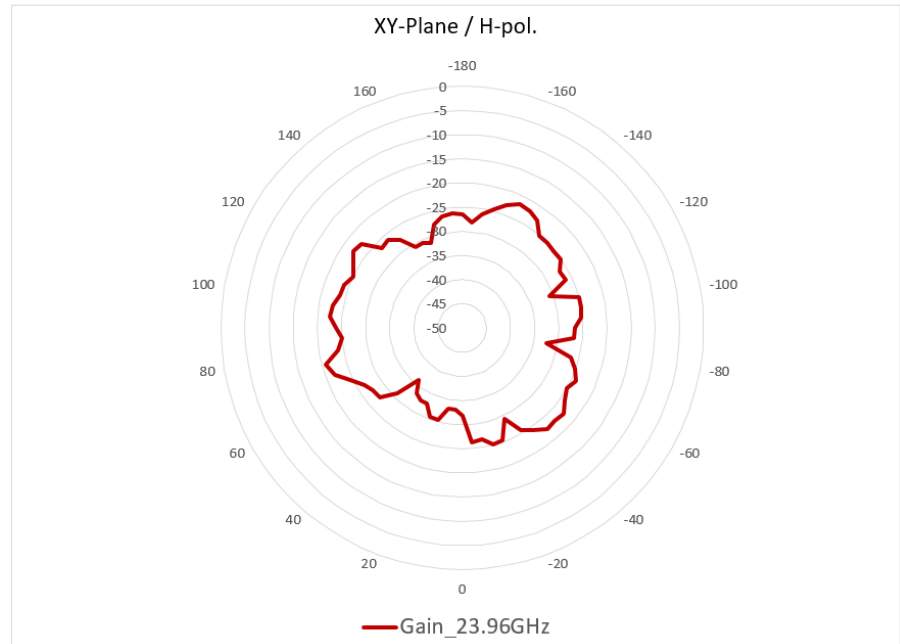
Frequency : Gain\_23.96GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -20.56 | dBi |
|----------|--------|-----|



Frequency : Gain\_23.96GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -20.83 | dBi |
|----------|--------|-----|



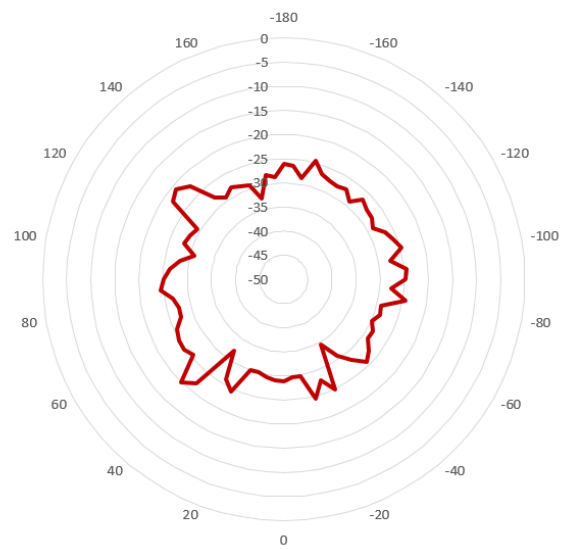
23.96GHz~26GHz

ZY-Plane

Frequency : Gain\_23.96GHz

|          |        |    |
|----------|--------|----|
| Max Gain | -19.86 | dB |
|----------|--------|----|

ZY-Plane / V-pol.

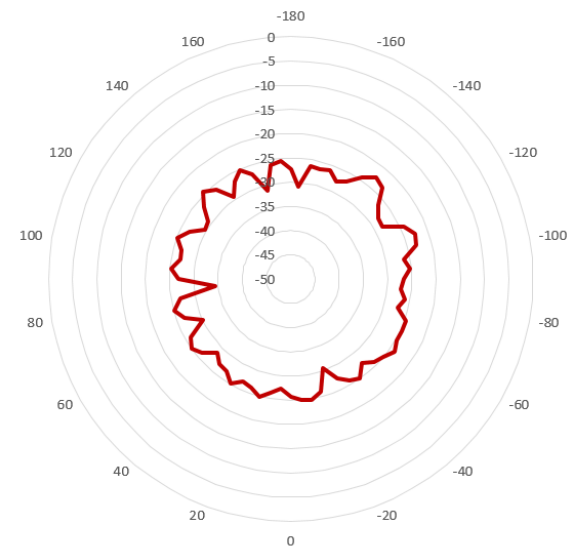


— Gain\_23.96GHz

Frequency : Gain\_23.96GHz

|          |        |    |
|----------|--------|----|
| Max Gain | -22.68 | dB |
|----------|--------|----|

ZY-Plane / H-pol.



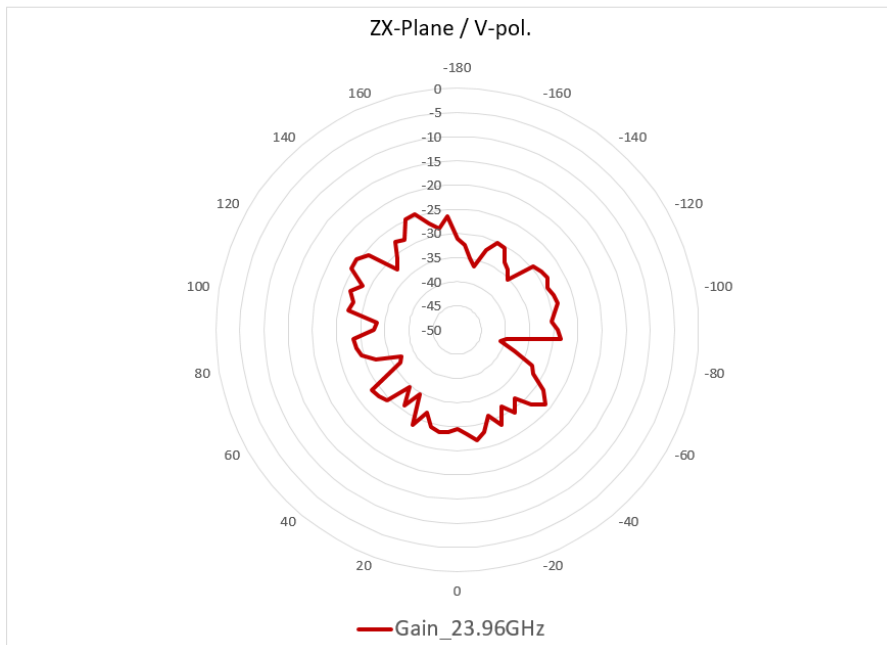
— Gain\_23.96GHz

23.96GHz~26GHz

ZX-Plane

Frequency : Gain\_23.96GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -24.22 | dBi |
|----------|--------|-----|



Frequency : Gain\_23.96GHz

|          |        |     |
|----------|--------|-----|
| Max Gain | -22.64 | dBi |
|----------|--------|-----|

