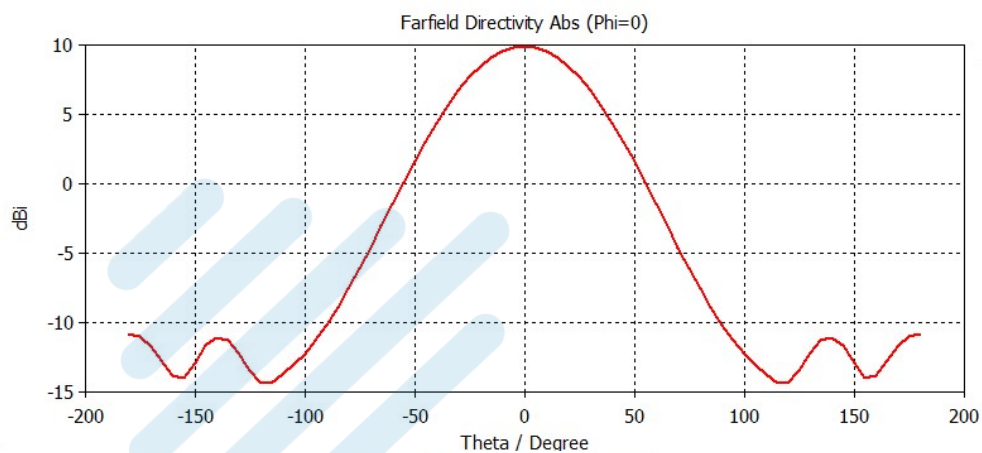


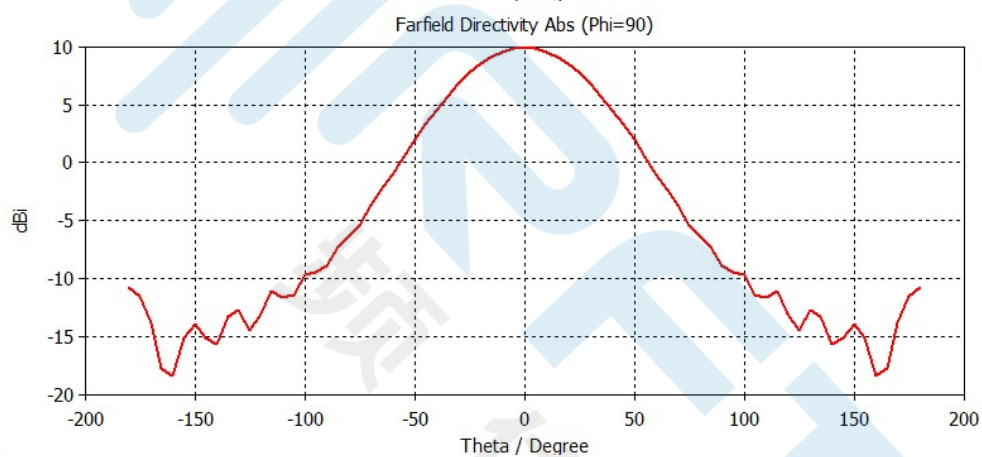
## WR12(BJ740) 10dBi Gain Horn Antenna

60.5GHz



farfield (f=60.5) [1]

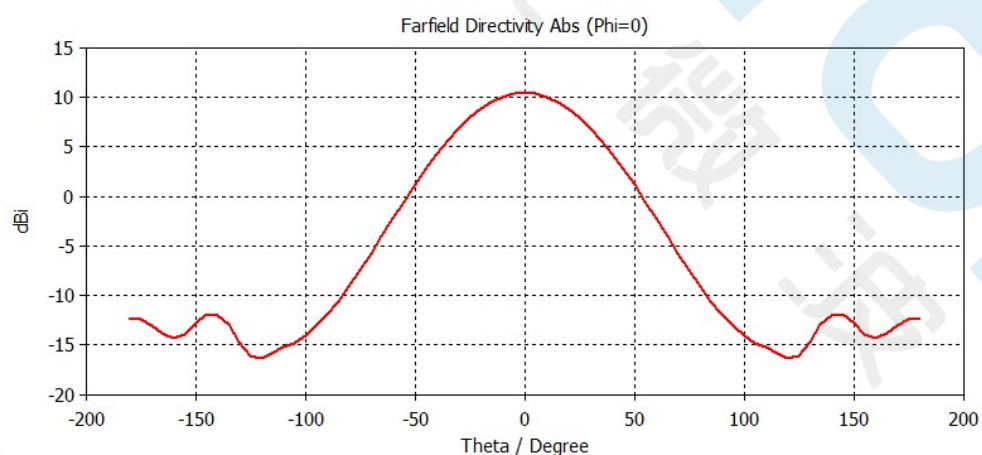
Frequency = 60.5  
Main lobe magnitude = 9.9 dBi  
Main lobe direction = 180.0 deg.  
Angular width (3 dB) = 58.0 deg.  
Side lobe level = -20.7 dB



farfield (f=60.5) [1]

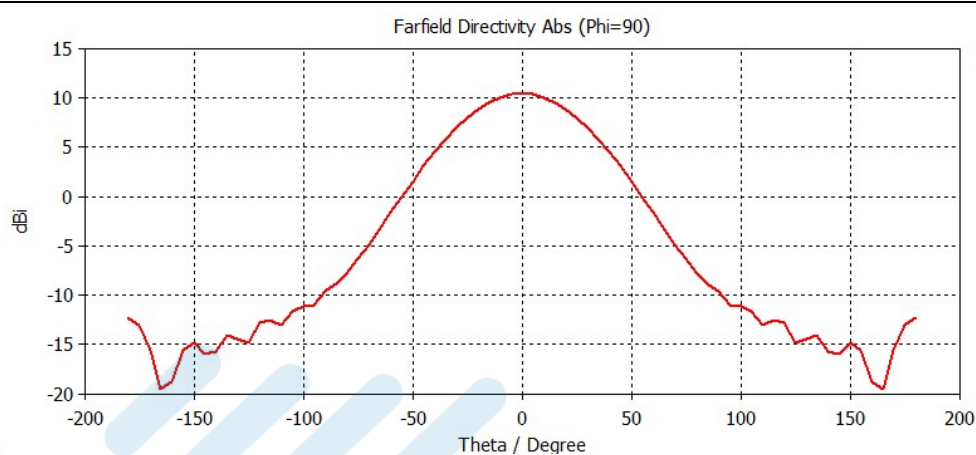
Frequency = 60.5  
Main lobe magnitude = 9.9 dBi  
Main lobe direction = 180.0 deg.  
Angular width (3 dB) = 59.6 deg.  
Side lobe level = -20.7 dB

65GHz

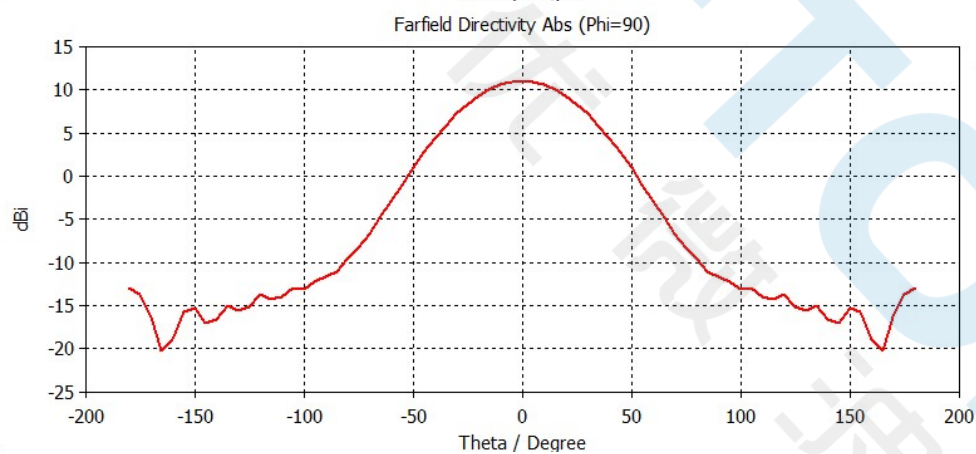
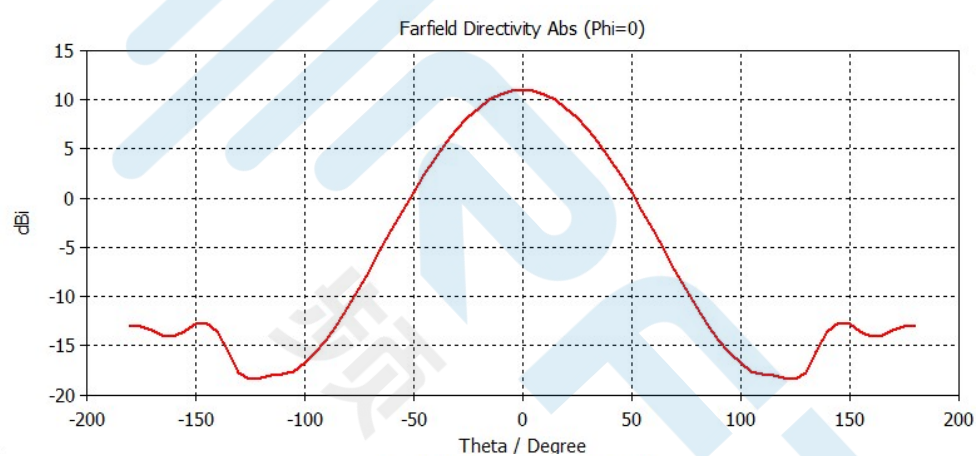


farfield (f=65) [1]

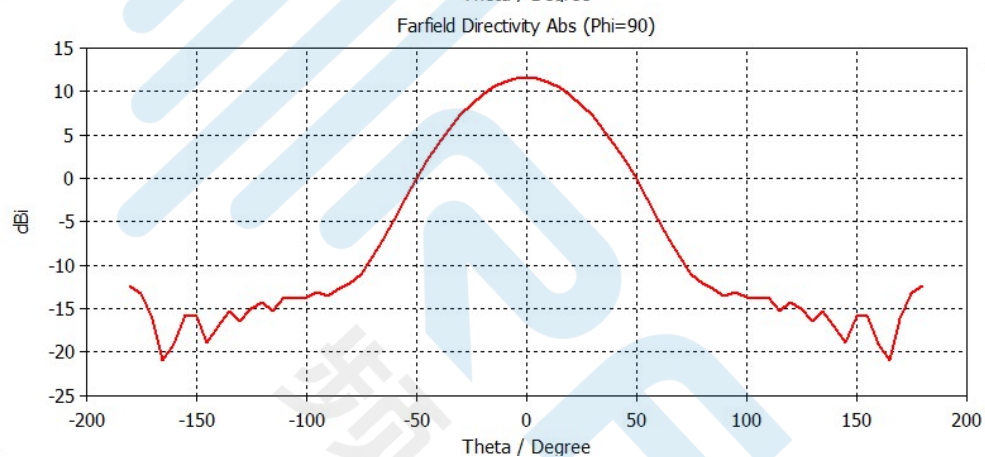
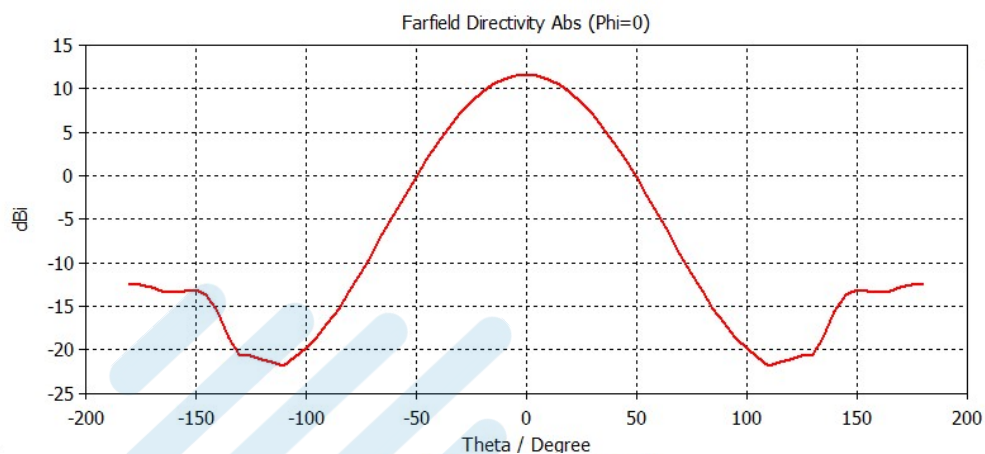
Frequency = 65  
Main lobe magnitude = 10.4 dBi  
Main lobe direction = 180.0 deg.  
Angular width (3 dB) = 54.5 deg.  
Side lobe level = -22.4 dB



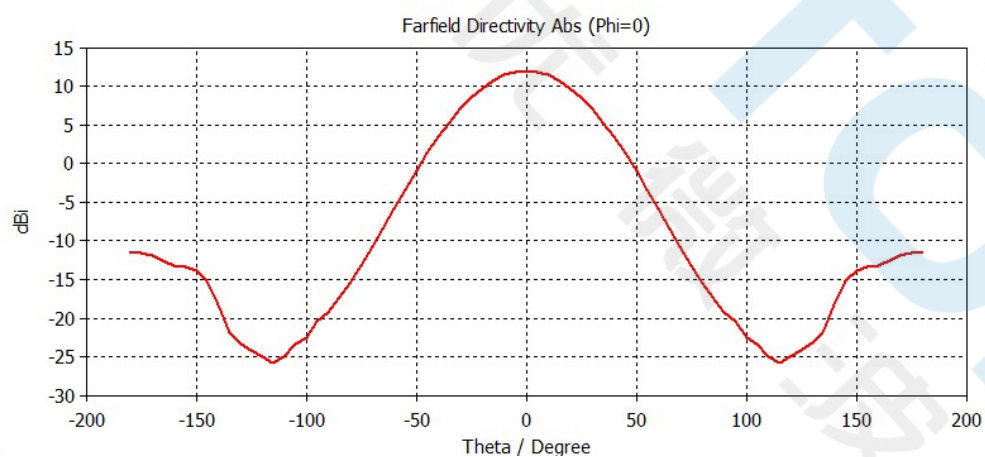
## 70GHz

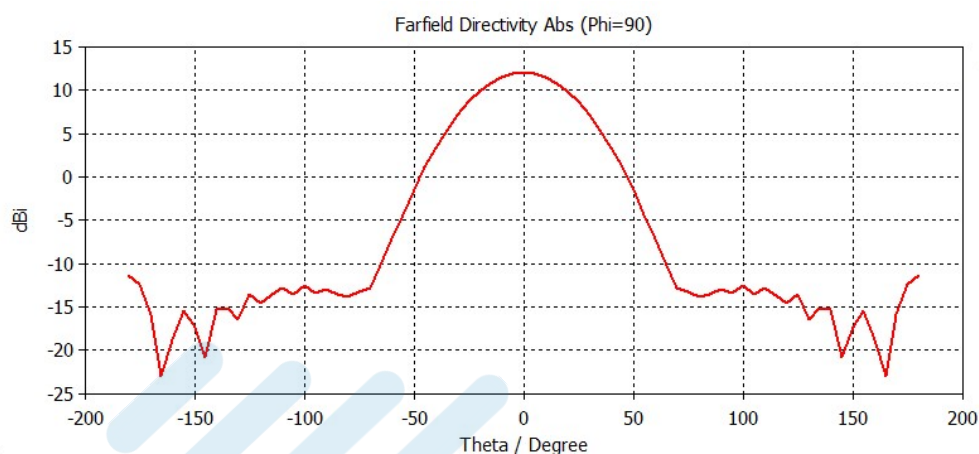


## 75GHz

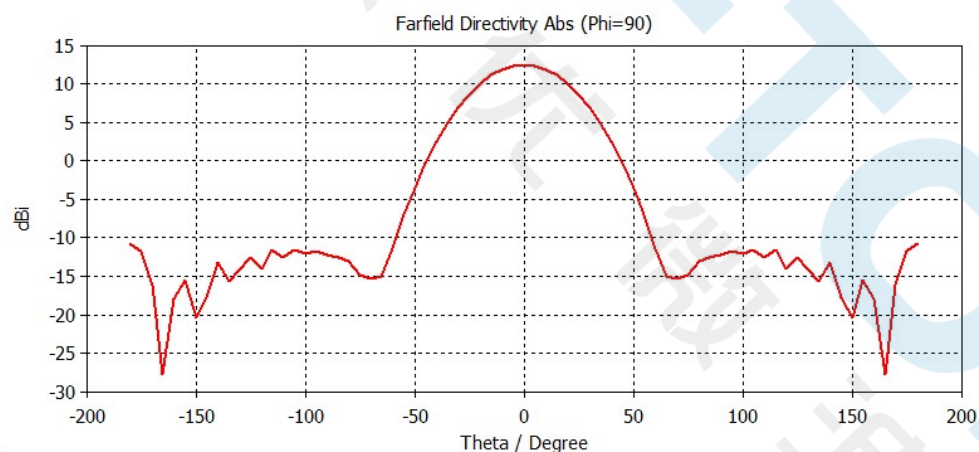
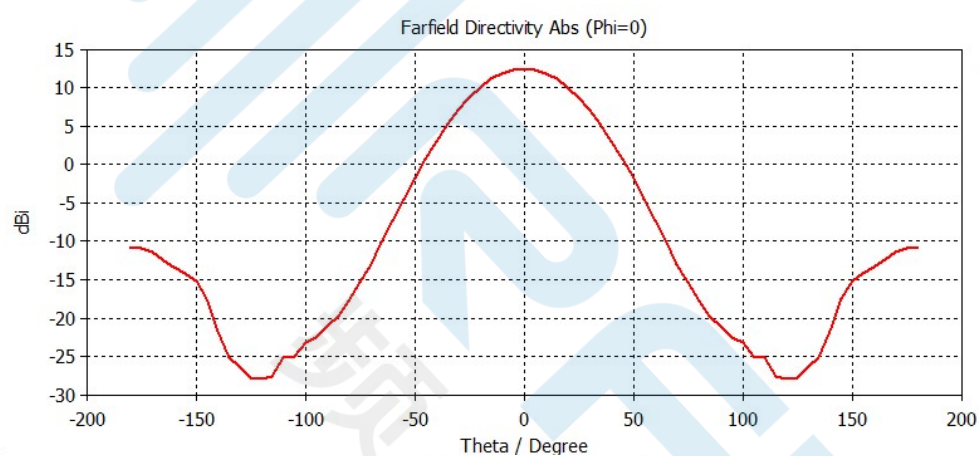


## 80GHz

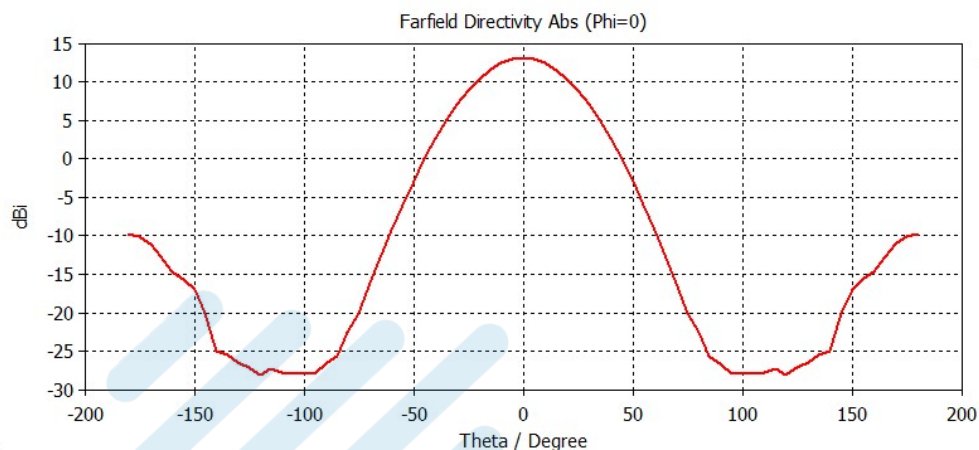




## 85GHz

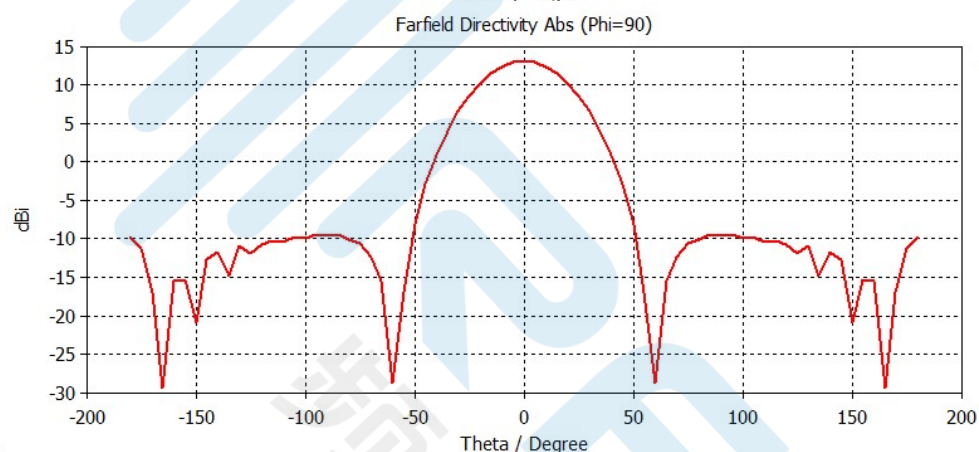


## 90GHz



farfield (f=90) [1]

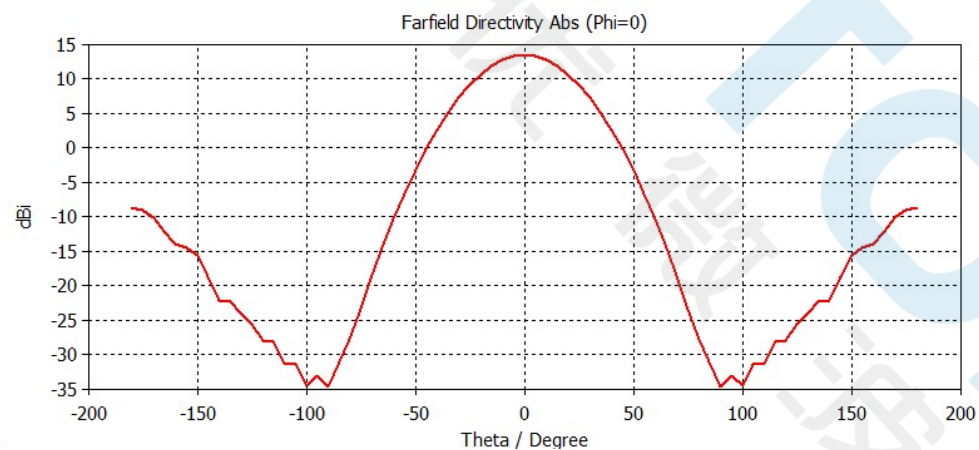
Frequency = 90  
Main lobe magnitude = 13.1 dBi  
Main lobe direction = 180.0 deg.  
Angular width (3 dB) = 42.1 deg.  
Side lobe level = -22.9 dB



farfield (f=90) [1]

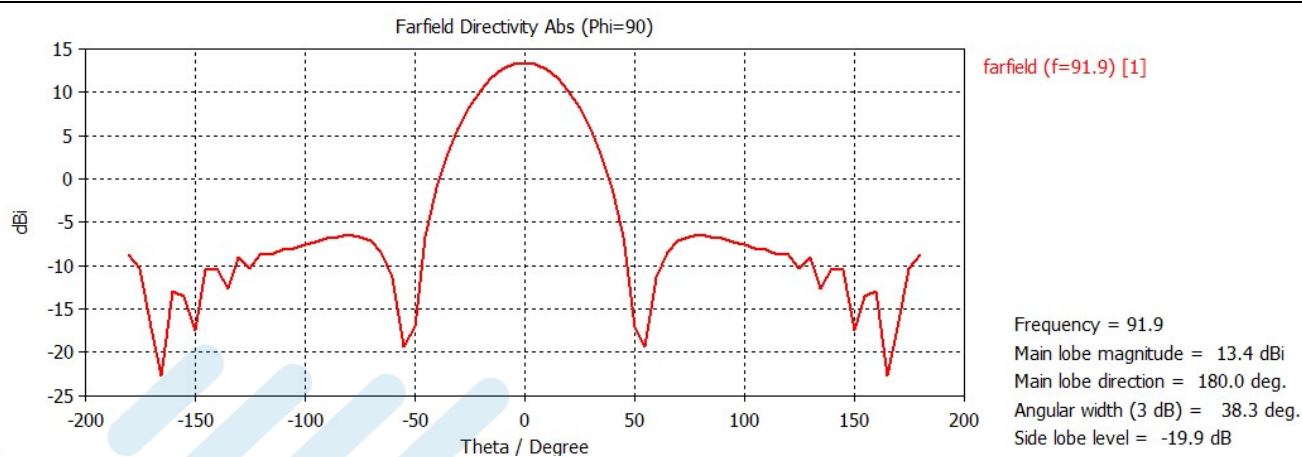
Frequency = 90  
Main lobe magnitude = 13.1 dBi  
Main lobe direction = 180.0 deg.  
Angular width (3 dB) = 40.5 deg.  
Side lobe level = -22.6 dB

## 91.9GHz

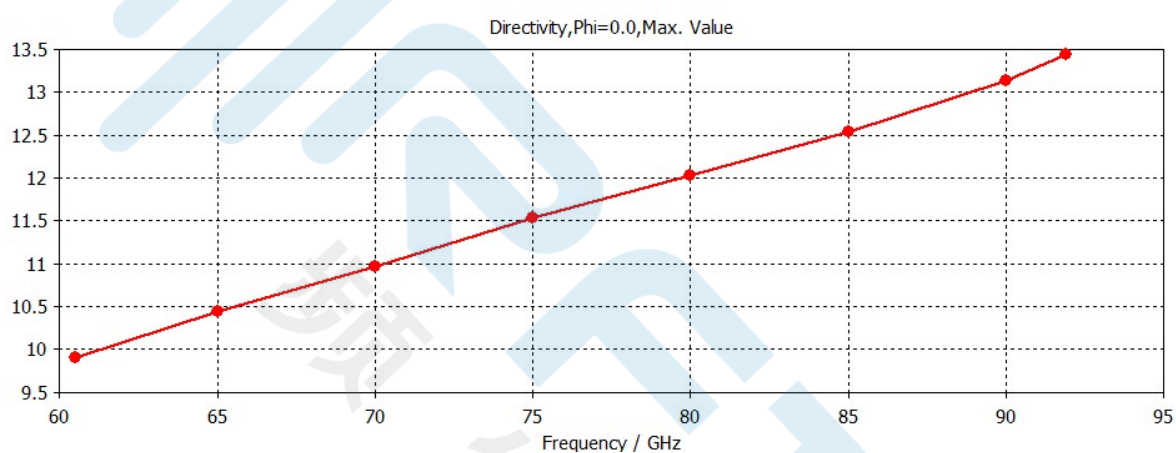


farfield (f=91.9) [1]

Frequency = 91.9  
Main lobe magnitude = 13.4 dBi  
Main lobe direction = 180.0 deg.  
Angular width (3 dB) = 41.6 deg.  
Side lobe level = -22.1 dB



### Frequency vs Gain



| Frequency | Gain dBi | Frequency | Gain dBi |
|-----------|----------|-----------|----------|
| 60.5GHz   | 9.9      | 80GHz     | 12       |
| 65GHz     | 10.4     | 85GHz     | 12.5     |
| 70GHz     | 11       | 90GHz     | 13.1     |
| 75GHz     | 11.5     | 91.9GHz   | 13.4     |