

## WiFi Antenna specification

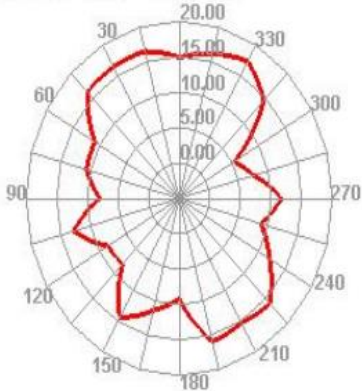
### Antenna structure and size



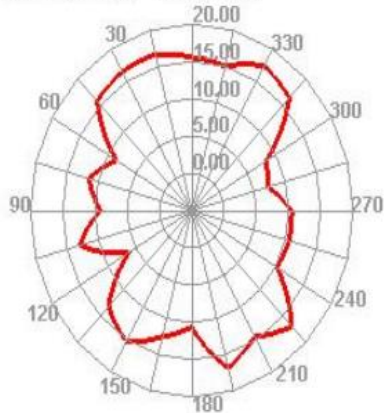
### 2D antenna gain direction diagram:

2.4GWiFi

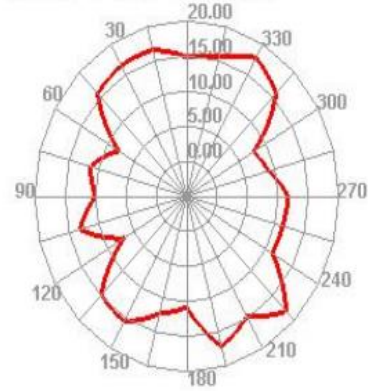
Wifi 1 TRP Phi=45



Wifi 6 TRP Phi=45

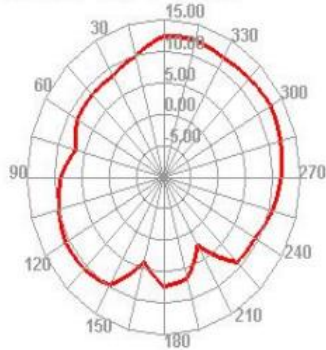


Wifi 11 TRP Phi=45

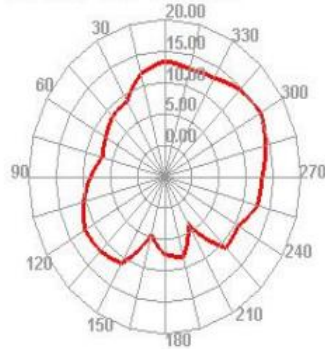


## 5.8GWiFi

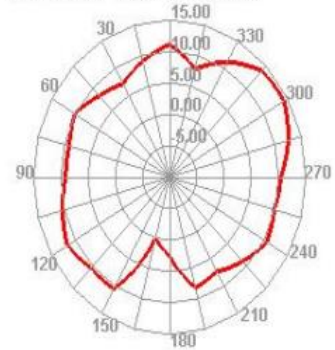
Wifi 36 TRP Phi=45



Wifi 64 TRP Phi=45



Wifi 165 TRP Phi=45



## 2.4WIFI

| Passive Test For GPS |             |              |               |               |            |            |             |             |                      |
|----------------------|-------------|--------------|---------------|---------------|------------|------------|-------------|-------------|----------------------|
| Freq<br>(MHz)        | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) | Directivity<br>(dBi) |
| 2400                 | 48.6        | -3.6         | 2.16          | -1.01         | 19.714     | 23.889     | 1.14        | -11.83      | 4.74                 |
| 2410                 | 47.91       | -3.92        | 2.05          | -1.62         | 19.405     | 21.124     | 0.53        | -11.51      | 4.45                 |
| 2420                 | 47.17       | -3.26        | 2.09          | -0.71         | 23.473     | 23.692     | 1.44        | -10.74      | 4.7                  |
| 2430                 | 52.68       | -2.78        | 2.61          | -0.17         | 26.493     | 26.187     | 1.98        | -11.14      | 4.77                 |
| 2440                 | 50.92       | -2.93        | 2.86          | -0.37         | 25.909     | 25.011     | 1.78        | -11.57      | 4.71                 |
| 2450                 | 48.84       | -3.11        | 2.12          | -0.35         | 25.327     | 23.514     | 1.8         | -10.82      | 4.91                 |
| 2460                 | 48.16       | -3.17        | 2.11          | -0.73         | 24.908     | 23.254     | 1.42        | -9.78       | 4.6                  |
| 2470                 | 49.02       | -3.1         | 2.23          | -0.77         | 24.547     | 24.471     | 1.38        | -11.09      | 4.48                 |
| 2480                 | 48.69       | -3.64        | 2.1           | -1.3          | 21.637     | 21.646     | 0.85        | -11.93      | 4.49                 |
| 2490                 | 49.37       | -4.08        | 2.14          | -1.92         | 20.176     | 18.951     | 0.23        | -14.33      | 4.3                  |
| 2500                 | 49.15       | -4.44        | 2.13          | -2.1          | 19.166     | 16.778     | 0.05        | -16.83      | 4.49                 |

## 5. 8GWIFI

| Passive Test For 5Gwifi |       |       |       |       |        |        |      |        |             |
|-------------------------|-------|-------|-------|-------|--------|--------|------|--------|-------------|
| Freq                    | Effi  | Effi  | Gain  | Gain  | UHS    | DHIS   | Max  | Min    | Directivity |
| (MHz)                   | (%)   | (dB)  | (dBi) | (dBd) | (%)    | (%)    | (dB) | (dB)   | (dBi)       |
| 5000                    | 54.36 | -2.65 | 2.21  | -0.51 | 19.743 | 27.682 | 2.16 | -16.93 | 4.88        |
| 5100                    | 56    | -2.52 | 2.29  | 0.14  | 22.171 | 33.825 | 2.29 | -17.26 | 4.81        |
| 5200                    | 56.83 | -2.45 | 2.53  | -1.43 | 15.629 | 23.926 | 2.03 | -17.95 | 4.74        |
| 5300                    | 58.79 | -2.31 | 2.77  | 0.62  | 23.525 | 35.263 | 2.77 | -17.36 | 5.08        |
| 5400                    | 58.36 | -2.34 | 2.31  | -0.44 | 20.172 | 29.301 | 2.18 | -13.71 | 4.76        |
| 5500                    | 59.42 | -2.26 | 2.11  | 0.96  | 26.793 | 36.389 | 3.11 | -13.97 | 5.11        |
| 5600                    | 56.47 | -2.48 | 2.22  | 0.07  | 23.826 | 32.645 | 2.22 | -13.35 | 4.7         |
| 5700                    | 58.37 | -2.34 | 2     | 0.85  | 25.805 | 36.472 | 3    | -17.08 | 5.06        |
| 5800                    | 56.81 | -2.46 | 2.6   | -0.86 | 17.084 | 22.597 | 1.29 | -17.11 | 5.31        |
| 5900                    | 56.15 | -2.51 | 2.14  | -0.87 | 17.511 | 20.947 | 1.28 | -15.87 | 5.43        |
| 6000                    | 55.23 | -2.58 | 2.03  | -0.01 | 21.832 | 25.581 | 2.14 | -16.61 | 5.38        |