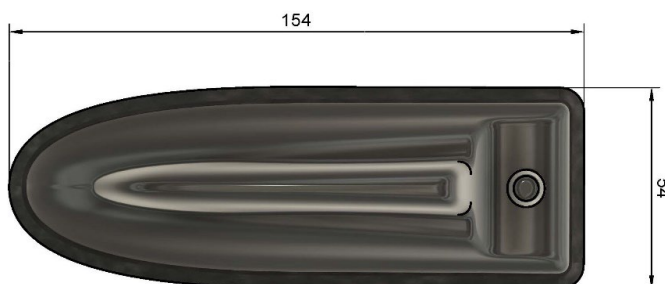


# SK0200140 'Mallard' 5-in-1 Antenna Black incl. 5m Coax Cables

SureAntennas®

**5 YEARS  
WARRANTY**



The '**Mallard**' is a low-profile, multifunction antenna designed to **future-proof** blue-light and amber-light vehicle fleets, delivering **up to 9 functions** within a single, panel-mounted unit. This variant incorporates **5 functions**.

With market leading isolation to **support ESN**, as well as your current **TETRA radio**, there is no need to drill multiple holes into your vehicle's roof due to **additional fitting kit options**.

The 'Mallard' supports **2x2 MiMo from 698MHz to 6GHz** with a minimum **4dBi gain** across the whole band. With the additional functionality of **4x4 MiMo 2.4/5.8GHz Wi-Fi function**, **2x GPS/GNSS Ports**, this antenna would be an ideal solution for future proofing your new vehicle installations for **ESN**.

With a single hole installation and a **wide frequency bandwidth** on offer, this antenna would help **reduce installation costs** and protect your vehicles resale value. For **other available cable options**, please contact us.

**Also Available in White: Part No. SK0200200**



| Part No.  | Cable Kit Options                                                                                 |
|-----------|---------------------------------------------------------------------------------------------------|
| SK0200140 | Product Kit : Mallard 5 in 1 Antenna : Black : Inc 5m Low Loss Coax Extension Cables - Terminated |
| SK0200142 | Product Kit : Mallard 5 in 1 Antenna : Black : Inc 3m Low Loss Coax Extension Cables - Terminated |

Additional options available upon request.



[www.sure-antennas.com](http://www.sure-antennas.com)



# SK0200140 'Mallard' 5-in-1 Antenna Black incl. 5m Coax Cables

## Technical Specifications

| Part No.                 |                                      | SK0200140                |                          |
|--------------------------|--------------------------------------|--------------------------|--------------------------|
| Electrical Data          |                                      | 2G 3G 4G 5G              | Wi-Fi                    |
| Frequency Range (MHz)    | 698-6000 MHz                         |                          | 2.4 GHz & 5.8GHz         |
| Band                     | 2x2 MiMo 2G 3G 4G 5G                 |                          | 2x2 MiMo Dual Band Wi-Fi |
| VSWR                     | <2.1:1 TYPICALLY 1.5:1               |                          | <2.1:1 TYPICALLY 1.5:1   |
| Gain                     | Minimum 4dBi                         |                          | Minimum 4dBi             |
| Isolation                | <-25dB                               |                          | <-25dB                   |
| Polarisation             | Vertical                             |                          | Vertical                 |
| Pattern                  | Omni-directional                     |                          | Omni-directional         |
| Impedance                | 50Ω                                  |                          | 50Ω                      |
| Max Power Input (W)      | 10W                                  |                          | 10W                      |
| GPS/GLONASS              |                                      |                          |                          |
| Frequency Range (MHz)    | 1562-1612                            |                          |                          |
| VSWR                     | <2:1                                 |                          |                          |
| Gain                     | 26dB                                 |                          |                          |
| Polarisation             | Right Hand Circular                  |                          |                          |
| Operating Voltage        | 3-5v DC (fed via coax)               |                          |                          |
| Cable                    | 2x 230mm RG316 Terminated to SMA (m) |                          |                          |
| Mechanical Data          |                                      |                          |                          |
| Dimensions (mm)          | H80xW70xL230                         |                          |                          |
| Operating Temp (°C)      | -40 / +80°C (-40° / 176°F)           |                          |                          |
| Material                 | ABS/PC                               |                          |                          |
| Colour                   | Black                                |                          |                          |
| Weight (g)               | 310                                  |                          |                          |
| Ingress Protection       | IP66                                 |                          |                          |
| Cable Data               |                                      |                          |                          |
| Cable Type               | RG316                                | RG316                    |                          |
| length                   | 160mm                                | 200mm                    |                          |
| Diameter                 | 2.8                                  | 2.8                      |                          |
| Termination              | SMA (f)                              | SMA (m) Reverse Polarity |                          |
| Mounting Data            |                                      |                          |                          |
| Mounting Type            | Panel mount                          |                          |                          |
| Mounting Hole (mm)       | 15mm                                 |                          |                          |
| Max Panel Thickness (mm) | 10mm                                 |                          |                          |

Subject to change without prior notice.

# SK0200140 'Mallard' 5-in-1 Antenna Black incl. 5m Coax Cables

**SureAntennas®**

## Supplied Coax Extension Cables

| Coax Cables           | 2x LTE        | 2x Wi-Fi                 | 1x GPS   |
|-----------------------|---------------|--------------------------|----------|
| Cable Type            | SBC240        | SBC240                   | SBC100   |
| length                | 5m or 3m      | 5m or 3m                 | 5m or 3m |
| Diameter (mm)         | 6.1           | 6.1                      | 2.8      |
| Min. Bend Radius (mm) | 30            | 30                       | 14       |
| Operating Temp. °C    | -40-80        | -40-80                   | -40-80   |
| Termination           | SMA (m)       | SMA Reverse Polarity (m) | SMA (m)  |
| Labeling              | LTE M & LTE A | Wi-Fi M & Wi-Fi A        | GPS      |

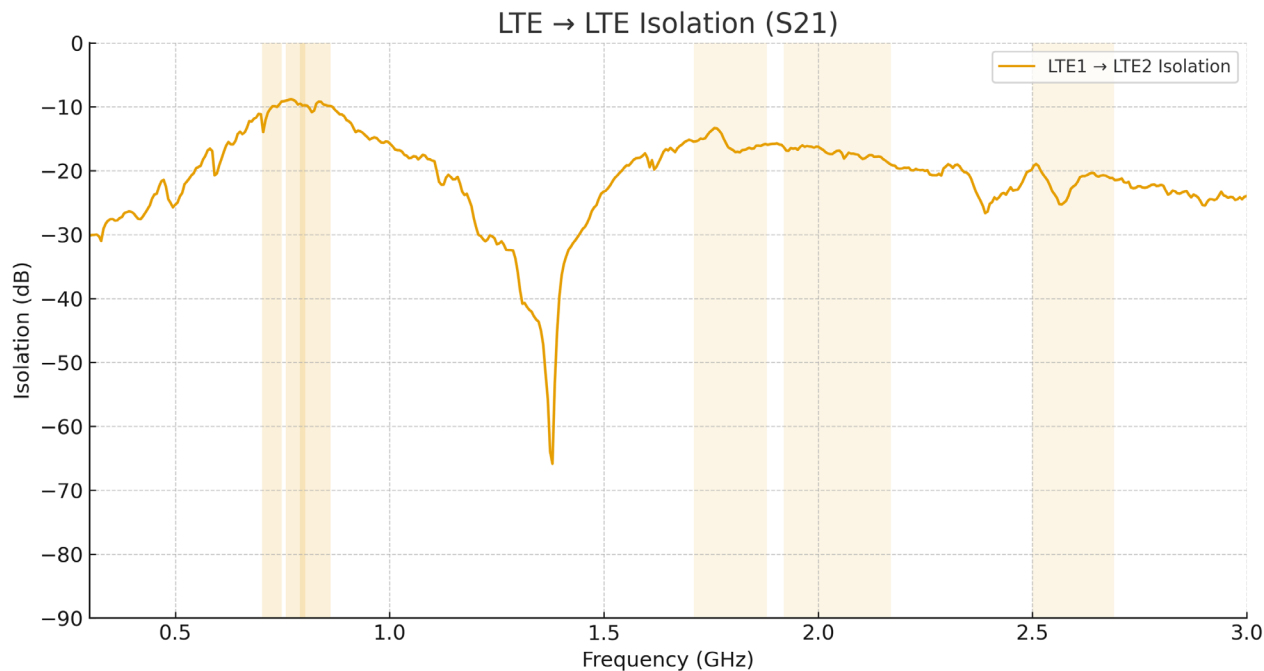
A brand of



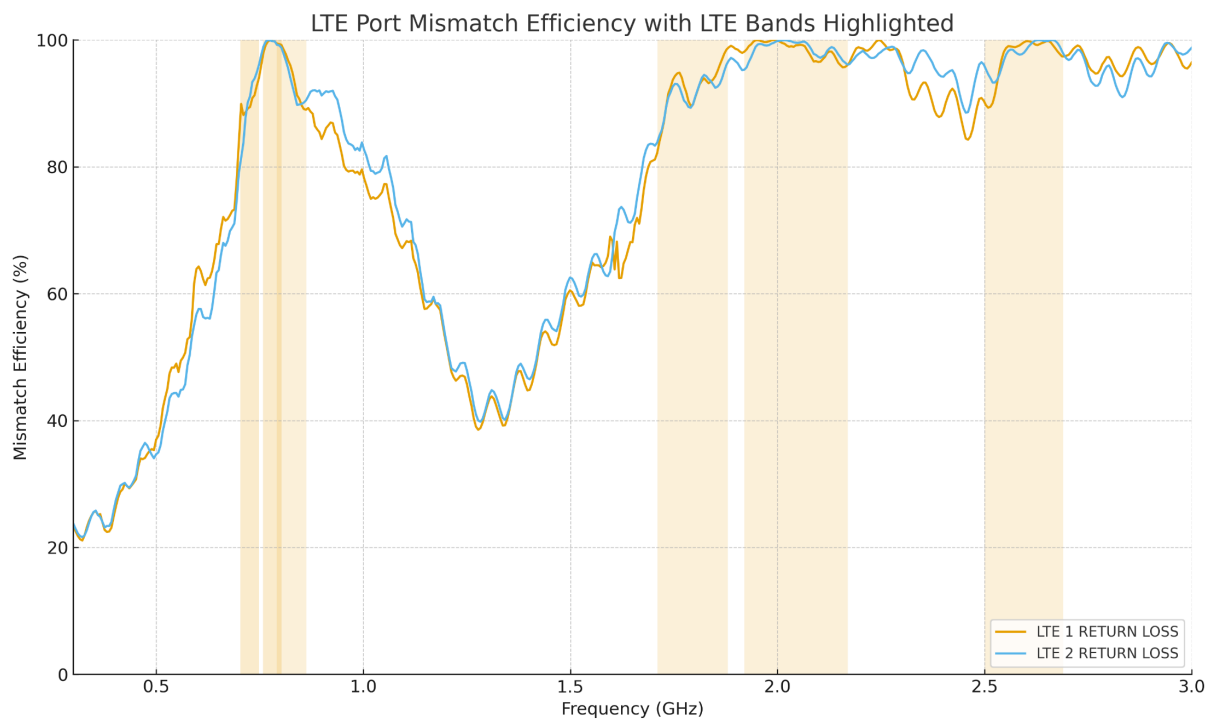
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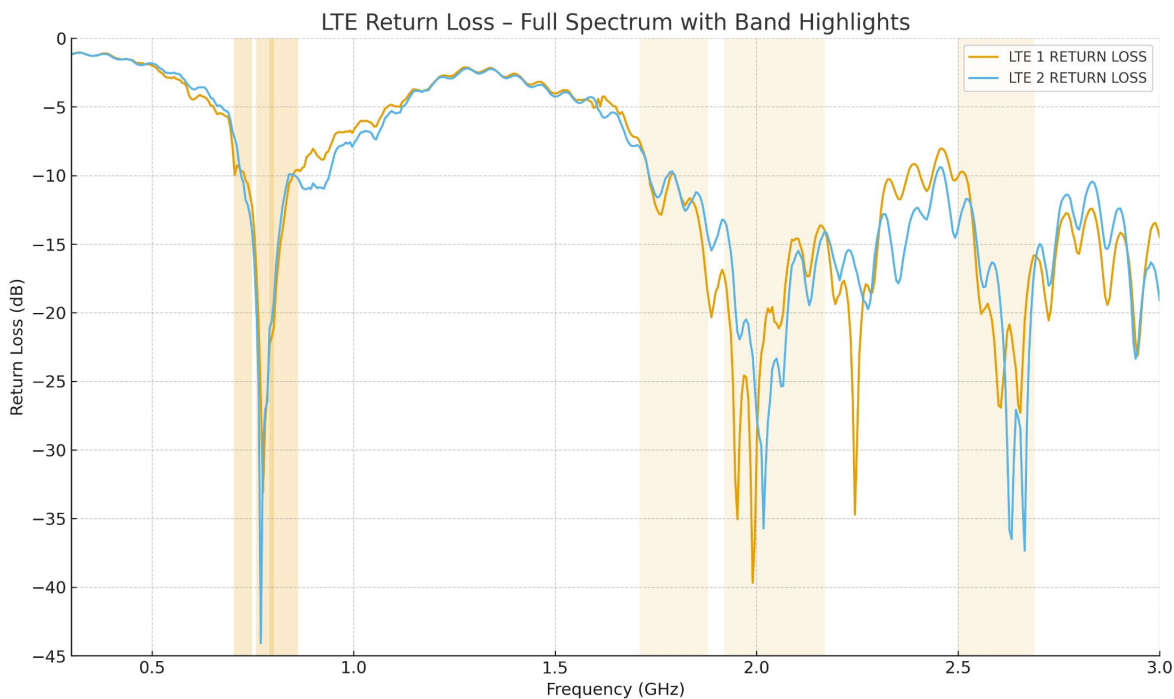
## LTE Isolation



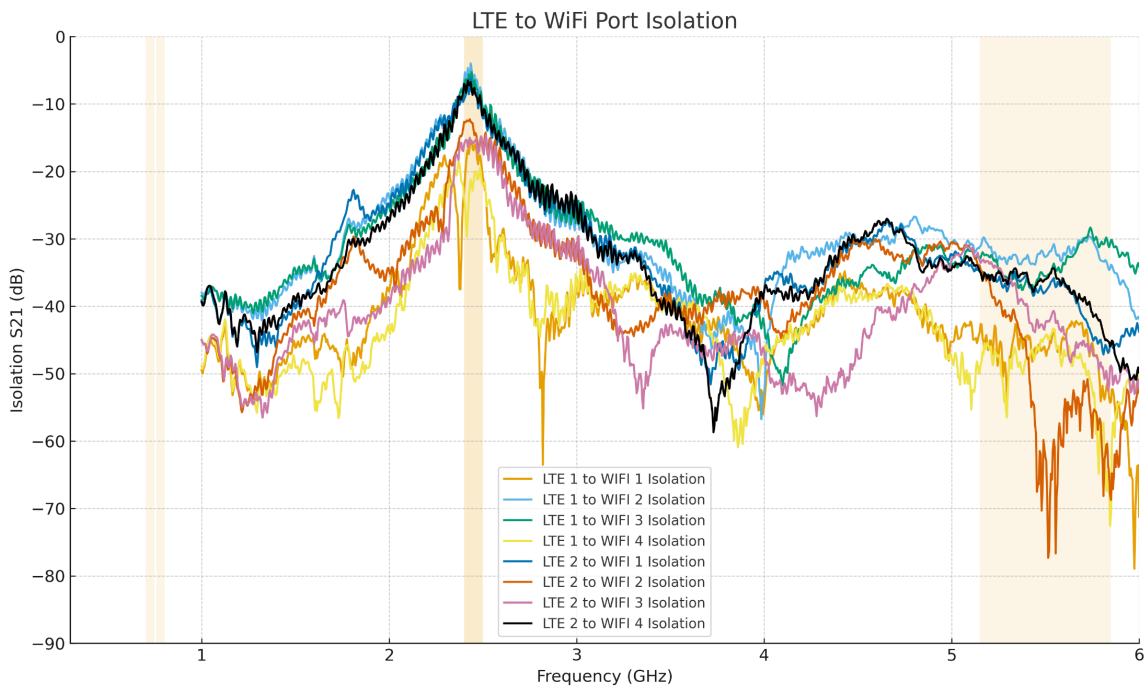
## LTE Port Mismatch Efficiency



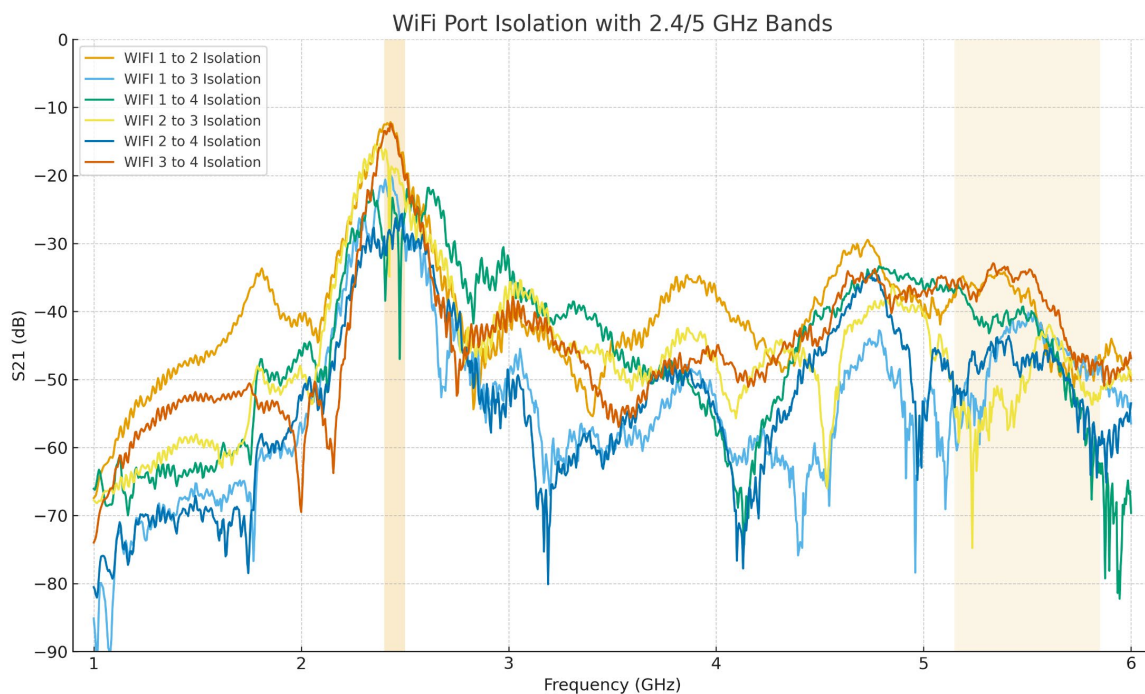
## LTE Return Loss



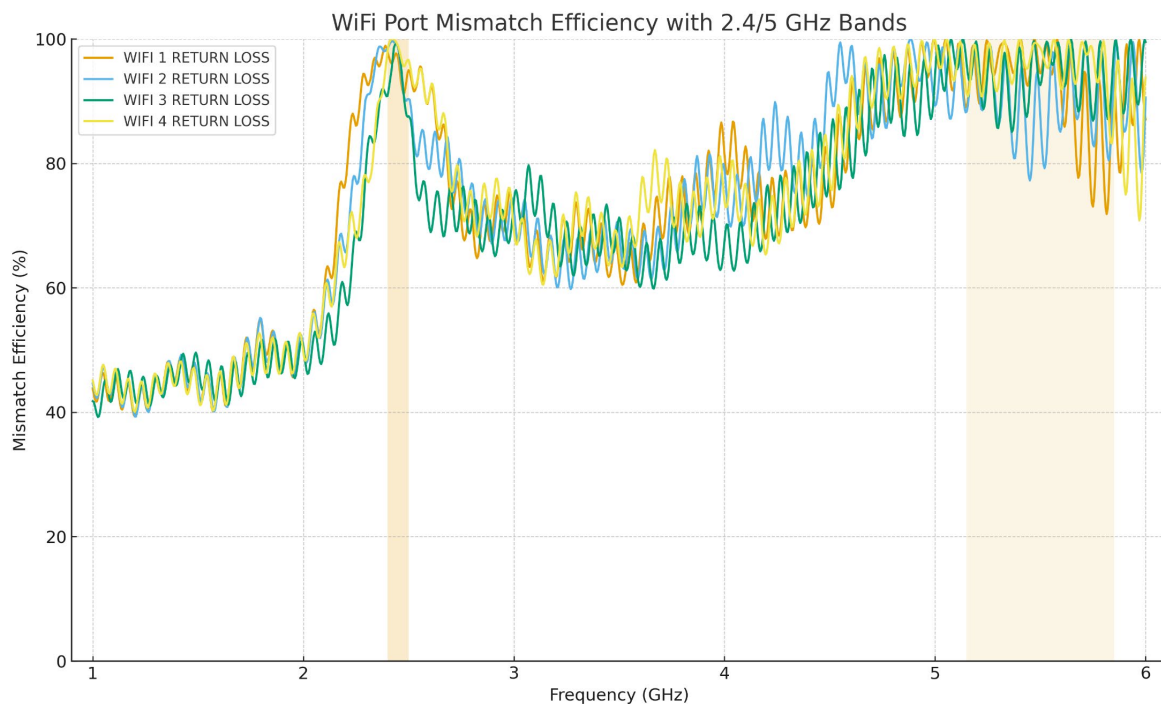
## LTE to Wi-Fi Port Isolation



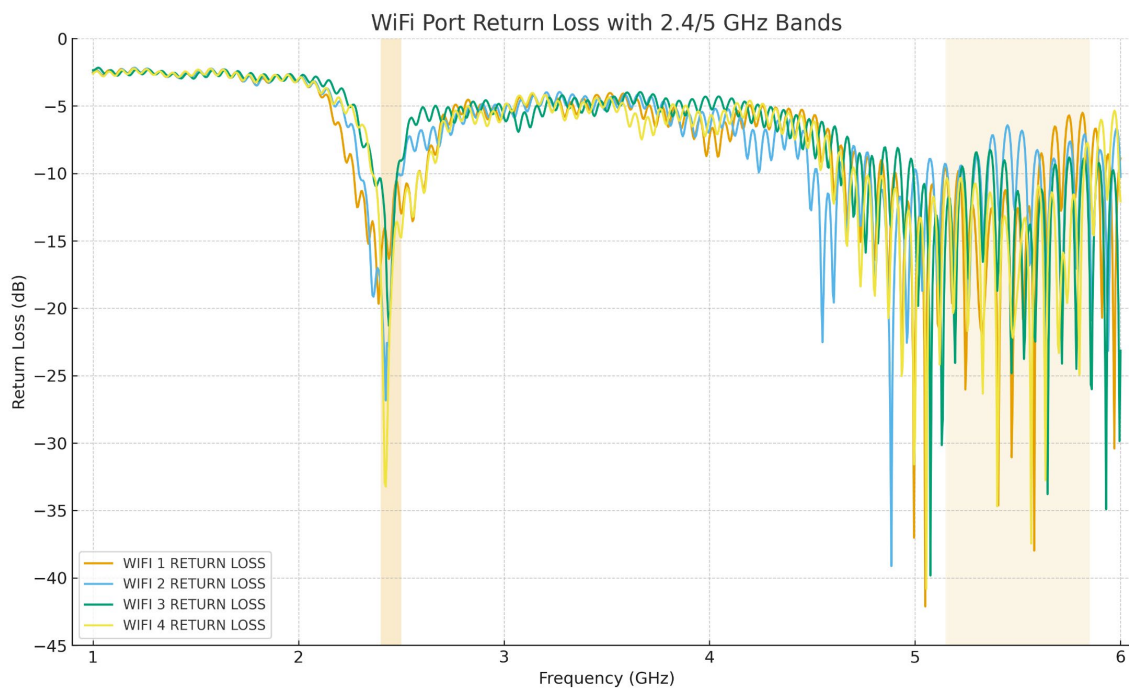
## Wi-Fi Port Isolation



## Wi-Fi Port Mismatch Efficiency



## Wi-Fi Port Return Loss

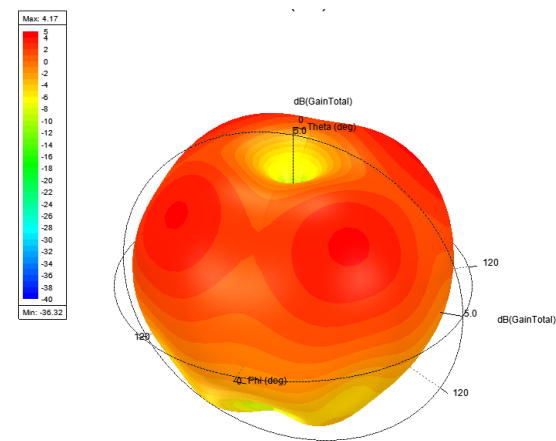


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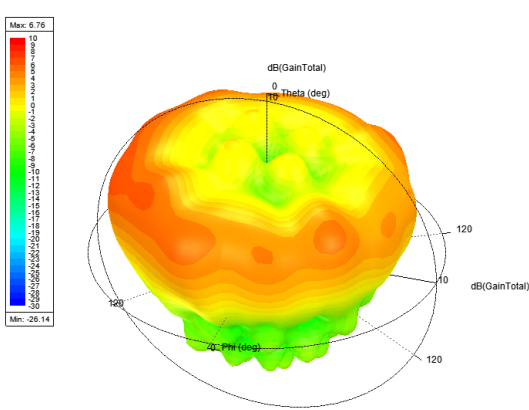


## Antenna 3D Gain Plots

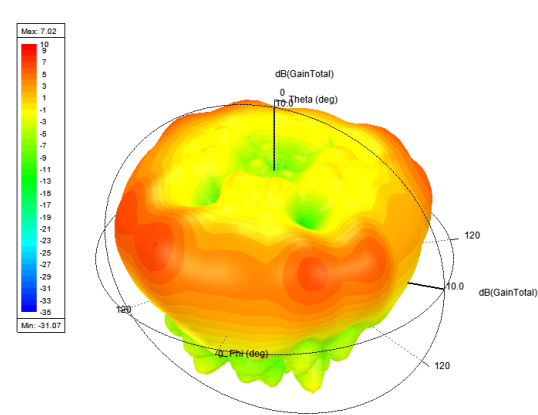
820MHz



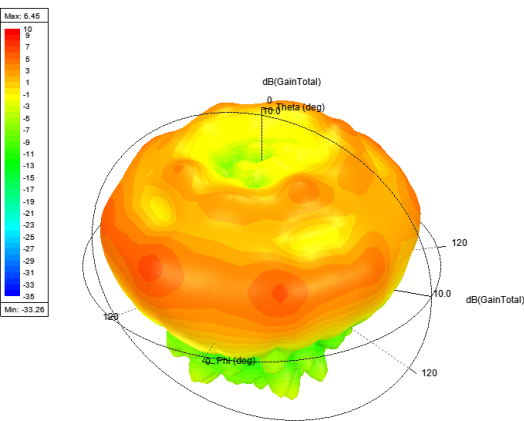
1820MHz



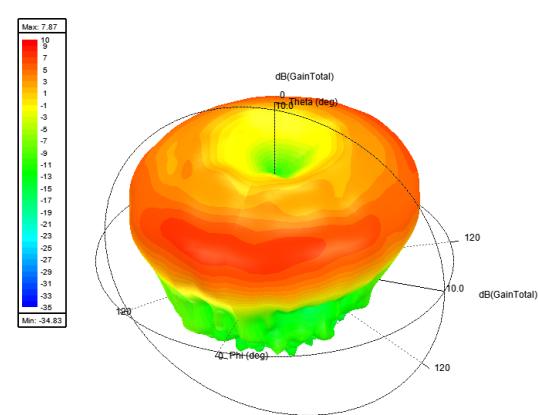
2140MHz



2600MHz



3600MHz



All graphs & diagrams subject to change without prior notice.

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