

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 features **4 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**, and **TETRA**, 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.

Supplied Coax Extension Cables

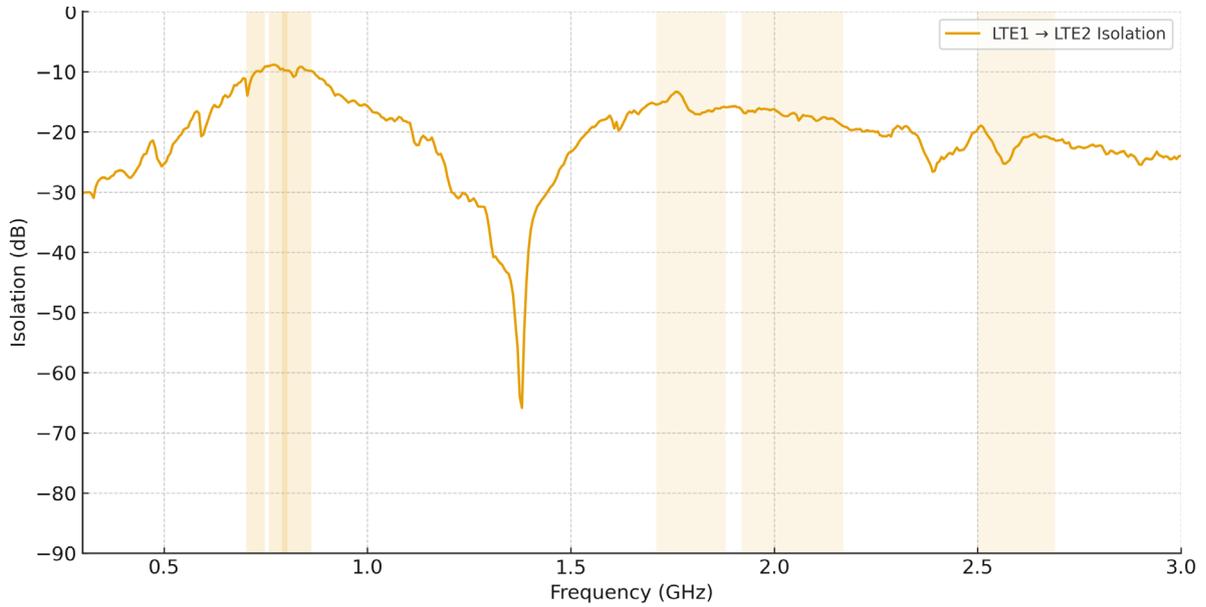
Coax Cables	1x LTE	1x Wi-Fi	1x GPS	1x TETRA
Cable Type	SBC240	SBC240	SBC100	SBC195
length	5m or 3m	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	6.1	2.8	4.95
Min. Bend Radius (mm)	30	30	14	25
Operating Temp. °C	-40-80	-40-80	-40-80	-40-80
Termination	SMA (m)	SMA Reverse Polarity (m)		BNC (m)
Labeling	LTE	Wi-Fi	GPS	TETRA

Technical Specifications

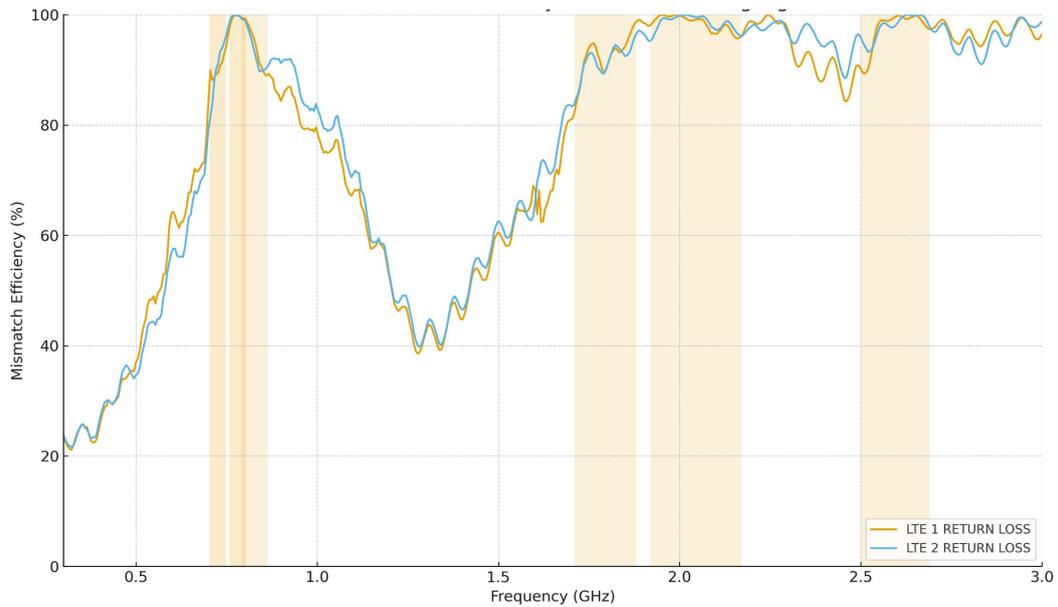
Part No.	7000-324		
Electrical Data	TETRA	2G 3G 4G 5G	Wi-Fi
Frequency Range (MHz)	380 - 430 MHz	698-6000 MHz	2.4 GHz & 5.8GHz
Band	TETRA	2x2 MiMo 2G 3G 4G 5G	2x2 MiMo Dual Band Wi-Fi
VSWR	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1
Gain	5dBi	Minimum 4dBi	Minimum 4dBi
Isolation	-	<-25dB	<-25dB
Polarisation	Vertical	Vertical	Vertical
Pattern	Omni-directional	Omni-directional	Omni-directional
Impedance	50Ω	50Ω	50Ω
Max Power Input (W)	25W	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	RG316
length	280mm	160mm	200mm
Diameter	2.8	2.8	2.8
Termination	TNC (f)	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. *Excluding external antenna

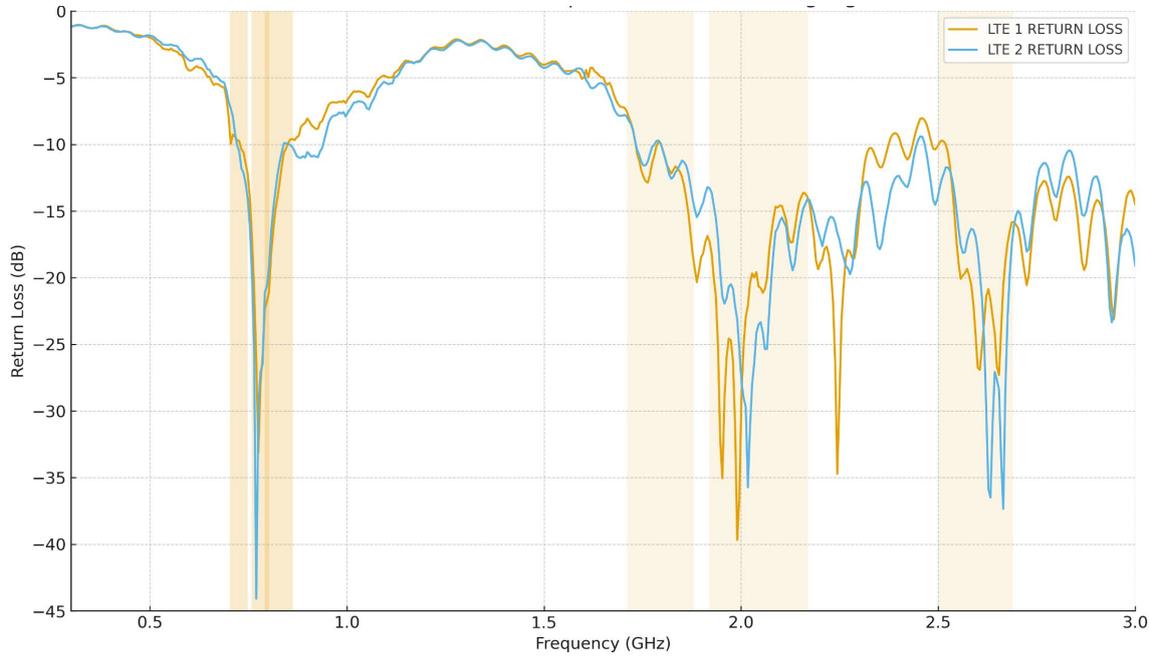
LTE Isolation



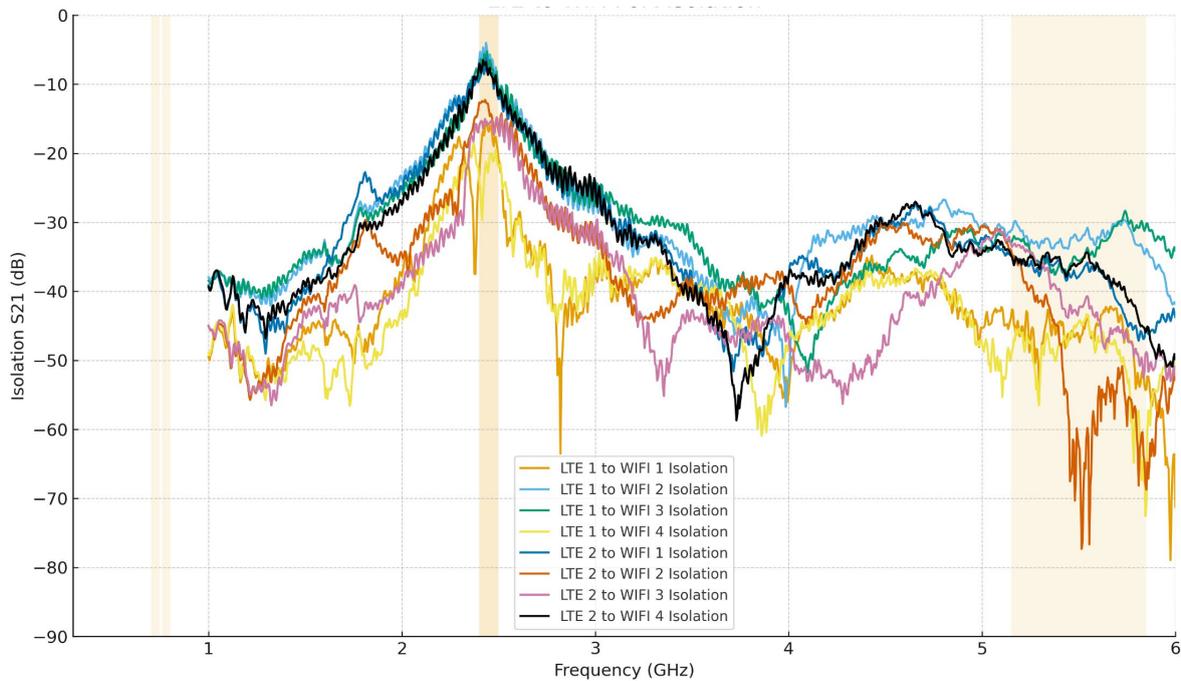
LTE Port Mismatch Efficiency



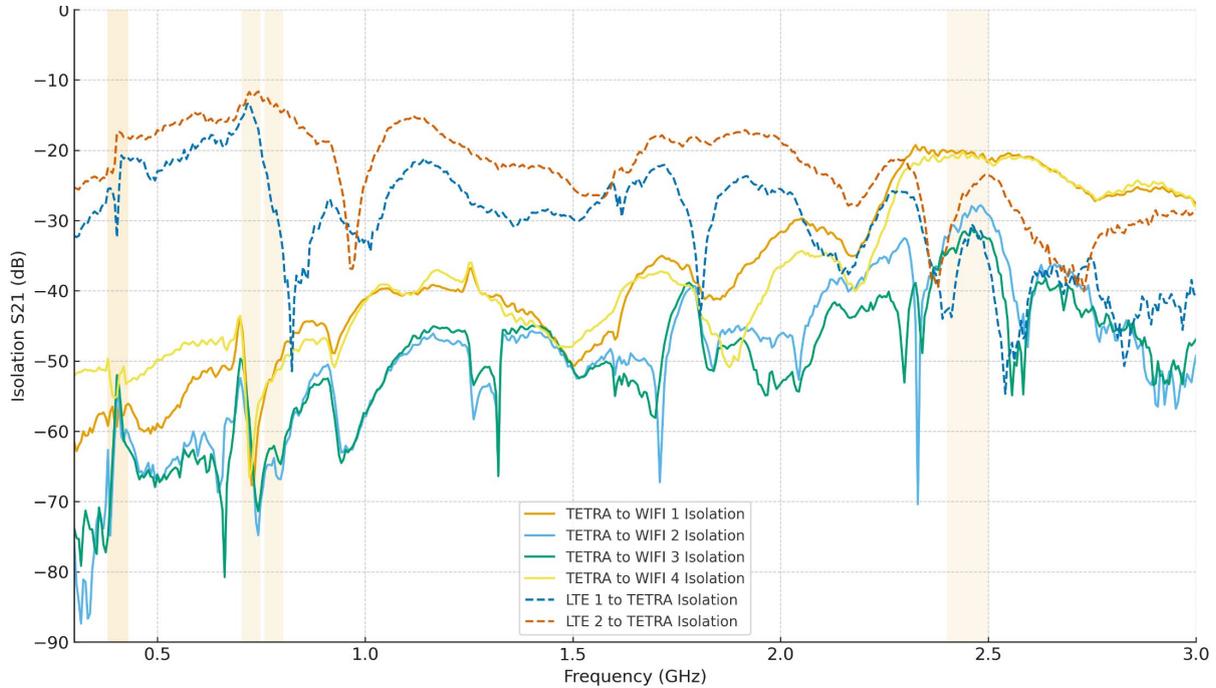
LTE Return Loss



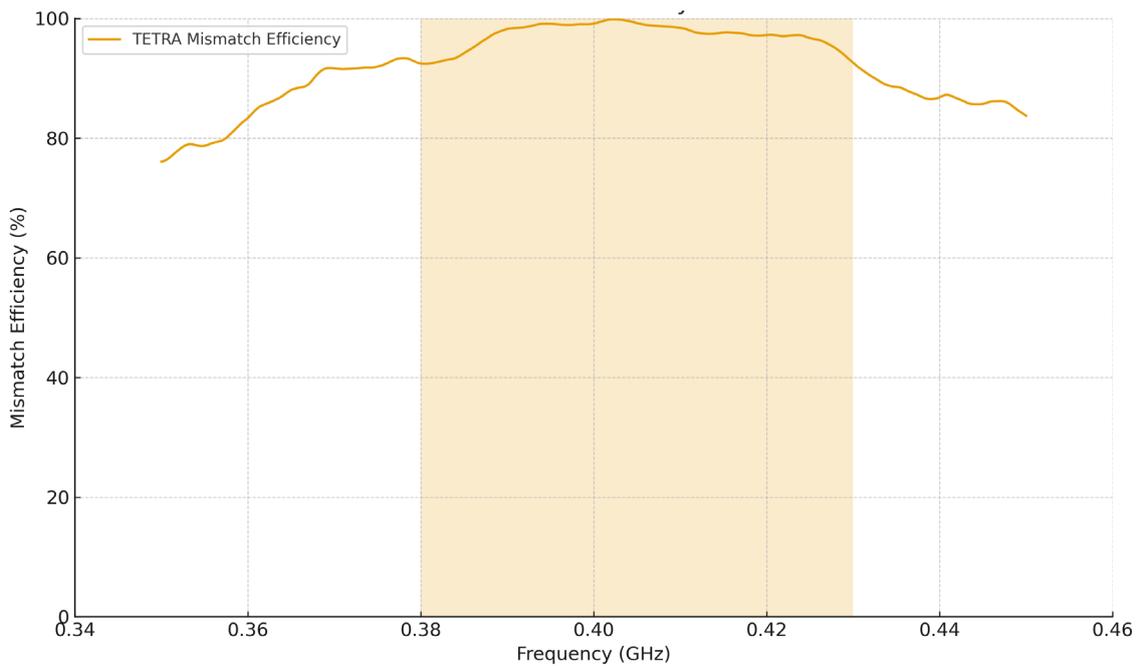
LTE to Wi-Fi Port Isolation



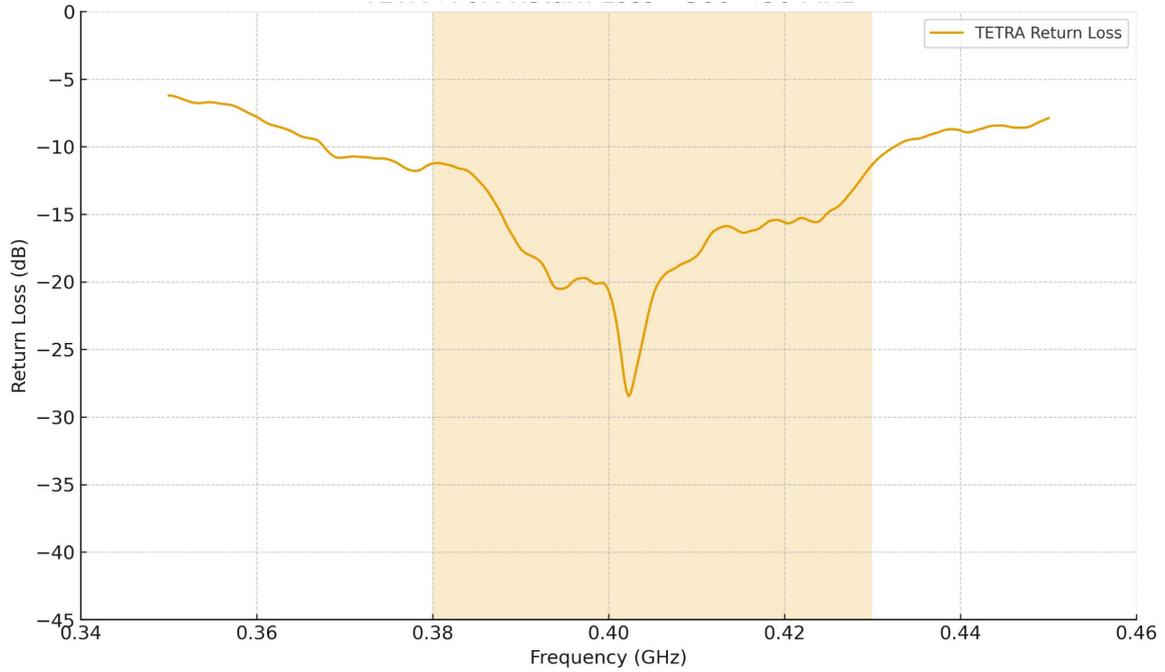
TETRA to LTE/Wi-Fi Isolation



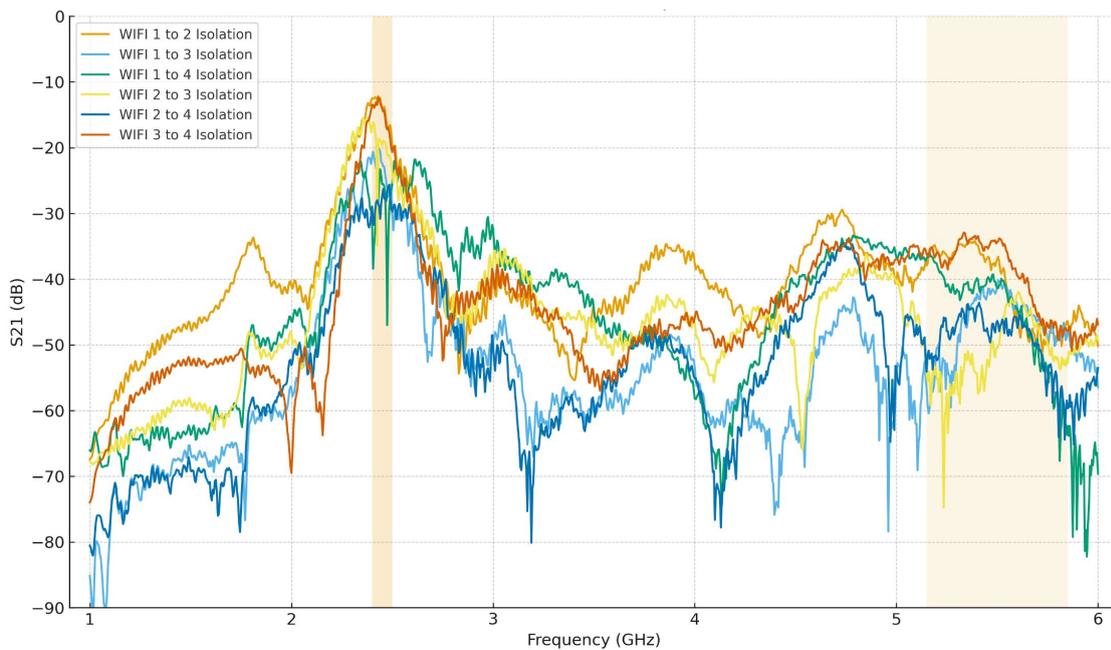
TETRA Port Mismatch Efficiency



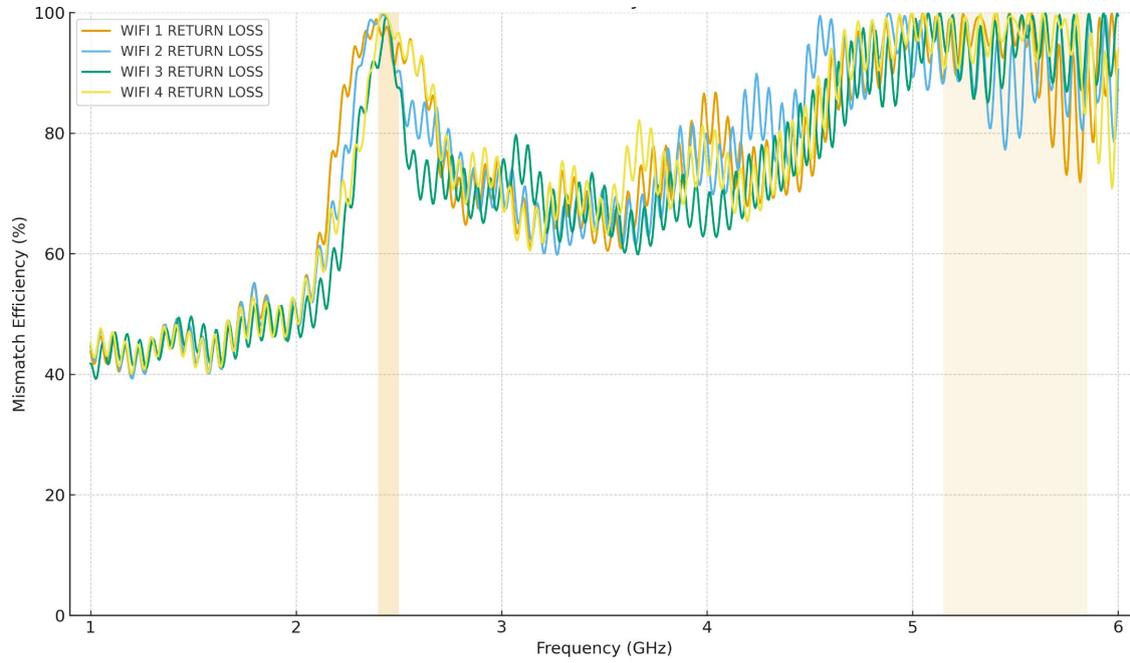
TETRA Port Return Loss



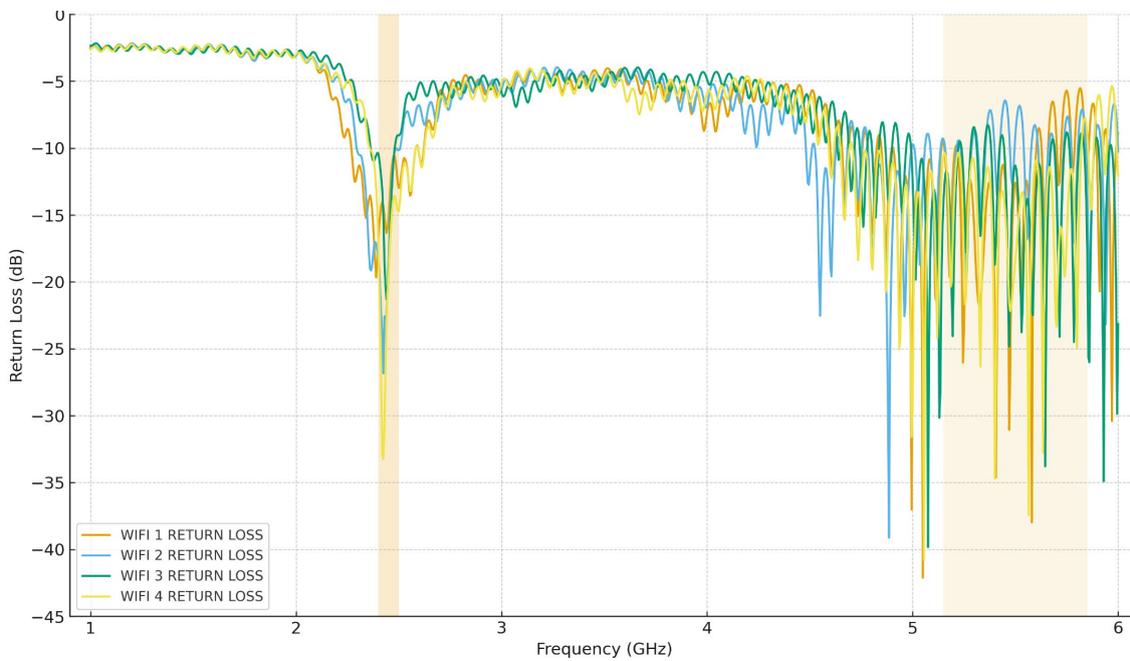
Wi-Fi Port Isolation



Wi-Fi Port Mismatch Efficiency

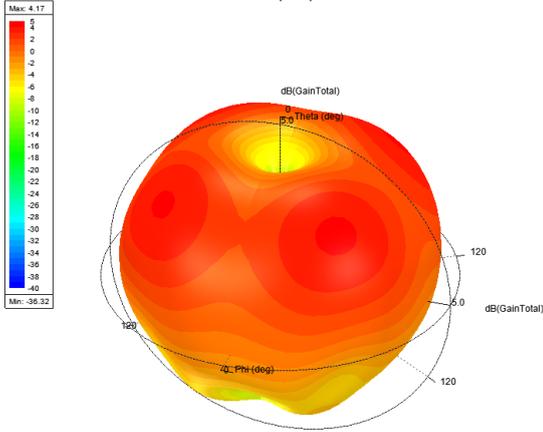


Wi-Fi Port Return Loss

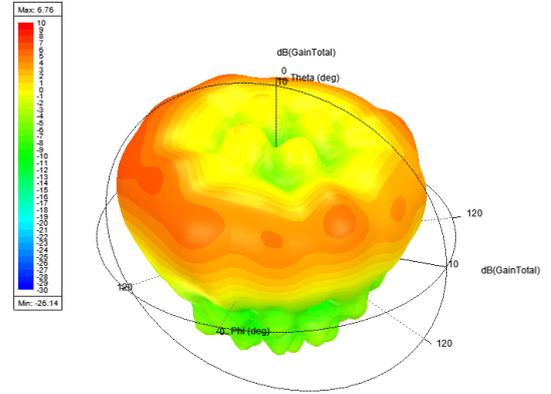


Antenna 3D Gain Plots

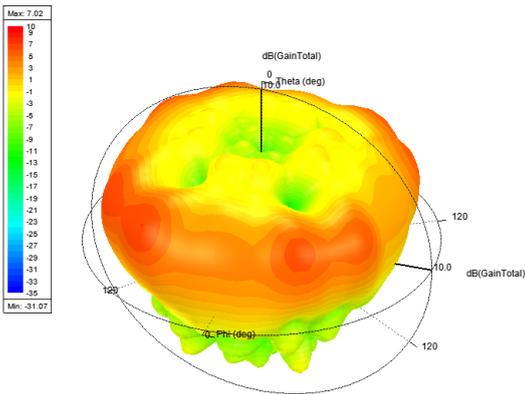
820MHz



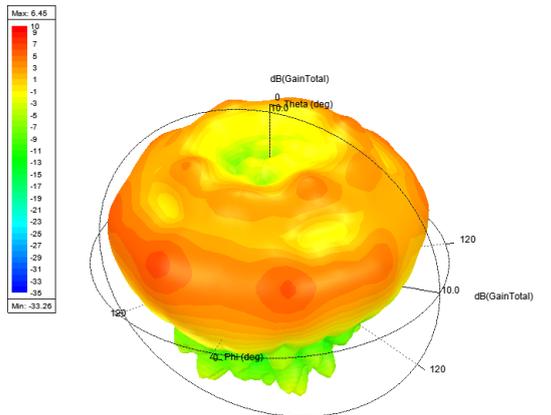
1820MHz



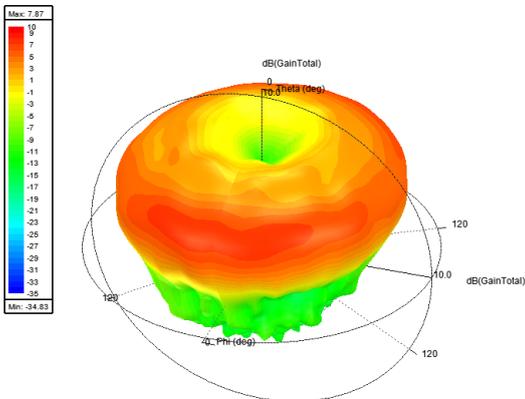
2140MHz



2600MHz



3600MHz



All graphs & diagrams subject to change without prior notice.

Sure Antennas. 6 Woodway Court, Thursby Rd, Bromborough, Merseyside CH62 3PR, United Kingdom
 Schiphol Airport Tetra, Transpolis Park, Siriusdreef 17-27, 2132 WT Hoofddorp, Netherlands

T. +44 (0)151 363 7377 | E. sales@sure-antennas.com

