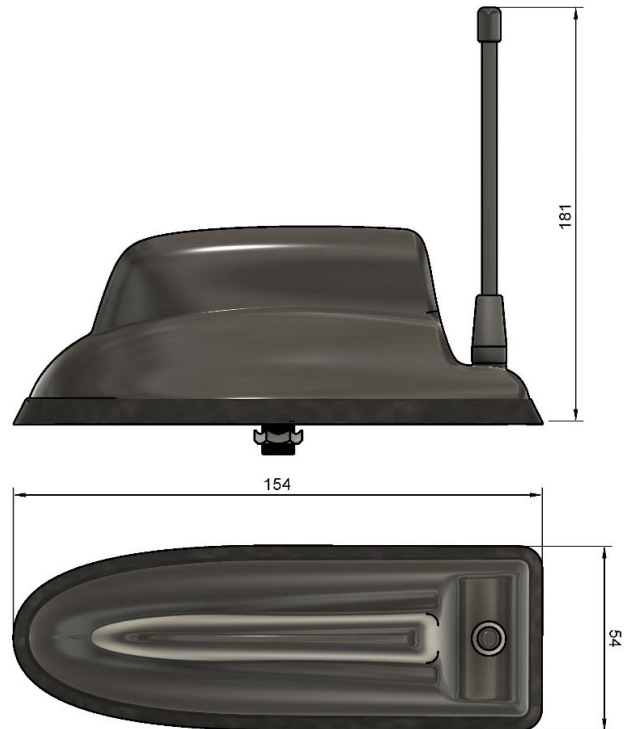


7000-308 'Mallard' 8-in-1 Antenna Black incl. TETRA

5 YEAR WARRANTY



The '**Mallard**' is a low-profile, multifunction antenna designed for blue-light and amber-light vehicle fleets, combining up to 9 functions within a single panel-mounted unit. With optional fitting kits, the 'Mallard' can be installed using the existing OEM mounting hole, preventing the need to drill additional holes and maintaining OEM functions.

This variant supports **8 Functions** including **TETRA, 2x LTE, 2x GPS and 3x WiFi**

Also Available in White: Part No. 7000-208



Part No.	Cable Kit Options
SK0200106	BLACK 'Mallard' Shark Fin 8 in 1 Antenna : 2xLTE 2xGPS 3xWiFi 1xTETRA Inc 6m Low Loss Coax Cables SMA five port Router & Airwave Radio
SK0200105	BLACK 'Mallard' Shark Fin 8 in 1 Antenna : 2xLTE 2xGPS 3xWiFi 1xTETRA Inc 5m Low Loss Coax Cables SMA five port Router & Airwave Radio
SK0200103	BLACK 'Mallard' Shark Fin 8 in 1 Antenna : 2xLTE 2xGPS 3xWiFi 1xTETRA Inc 3m Low Loss Coax Cables SMA five port Router & Airwave Radio

Additional options available upon request.

7000-308 'Mallard' 8-in-1 Antenna Black incl. TETRA

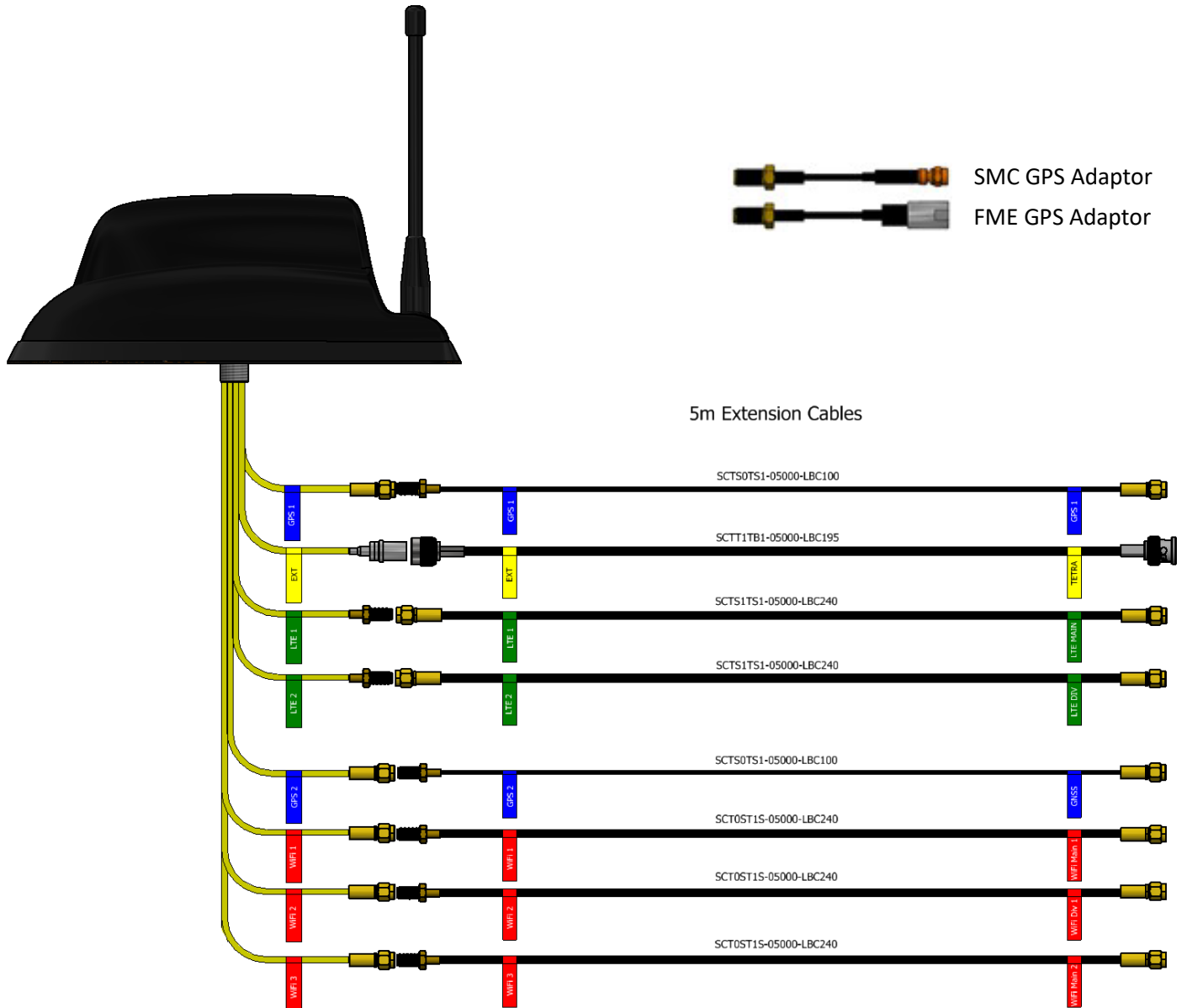
Technical Specifications

Part No.		7000-308		
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	3x3 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			

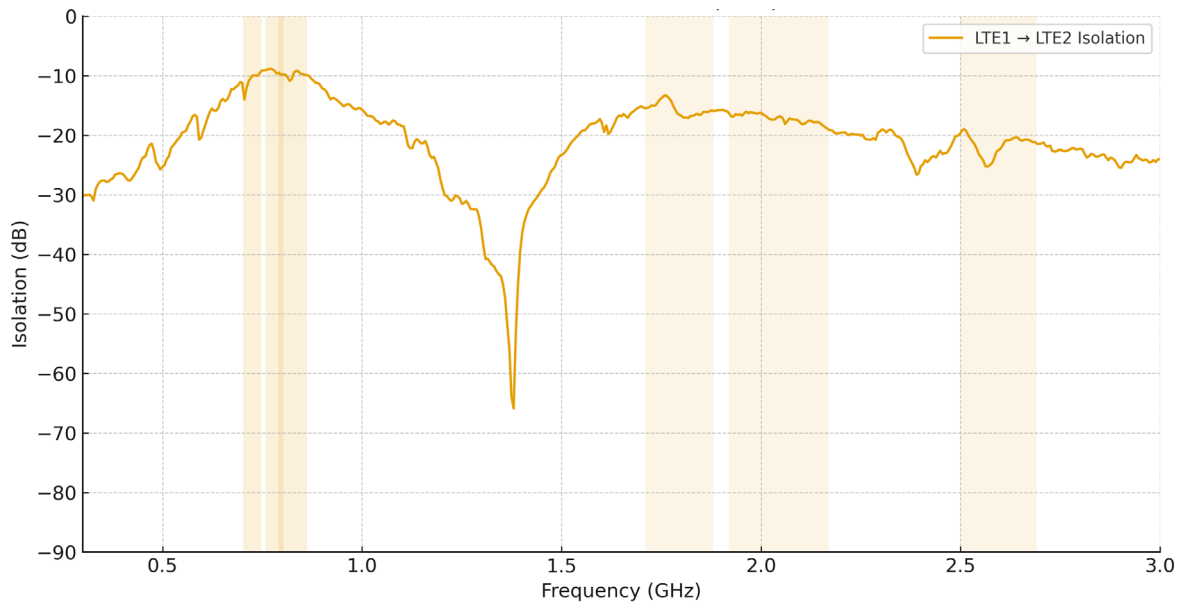
Subject to change without prior notice. *Excluding external antenna

7000-308 'Mallard' 8-in-1 Antenna Black incl. TETRA

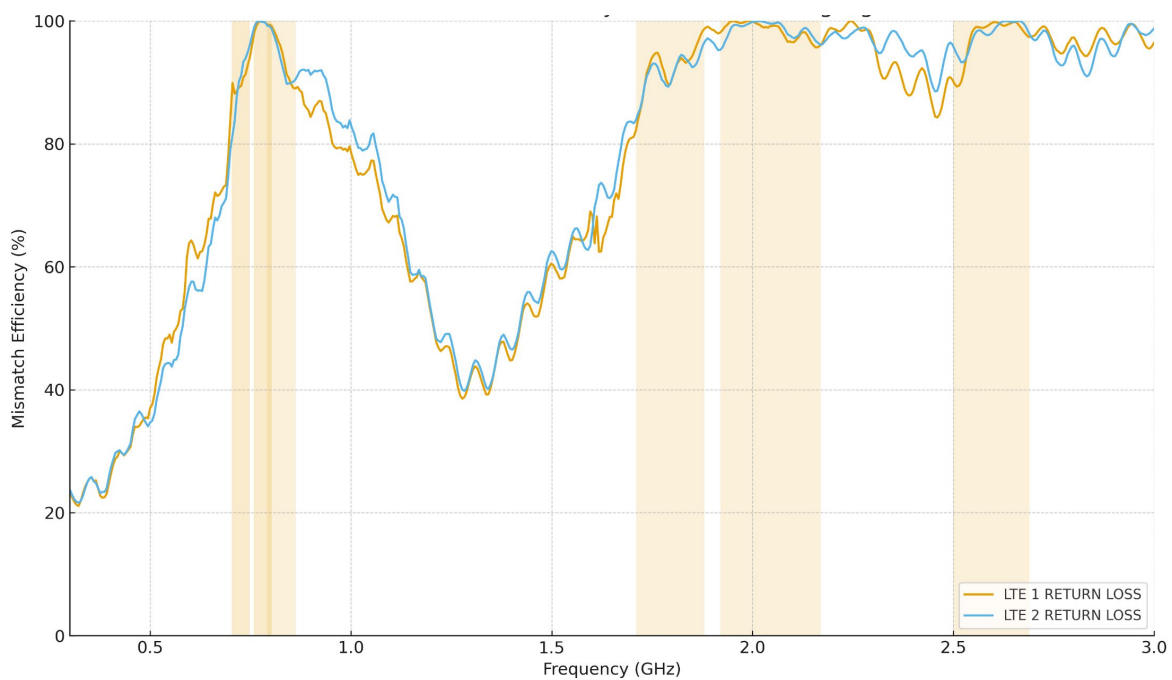
Cable Diagram



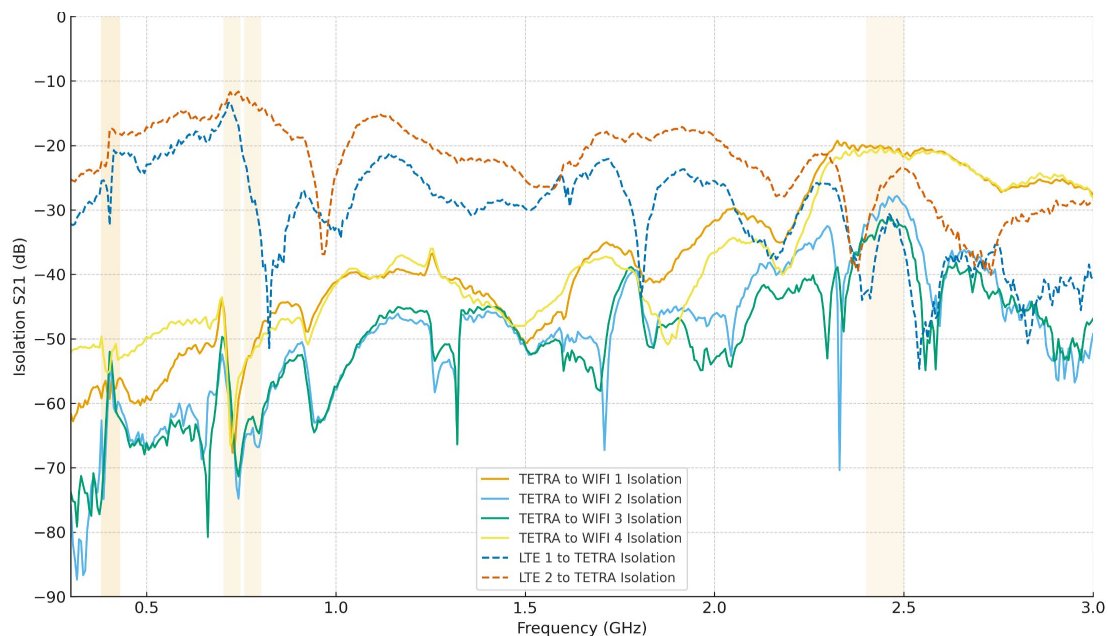
LTE Isolation



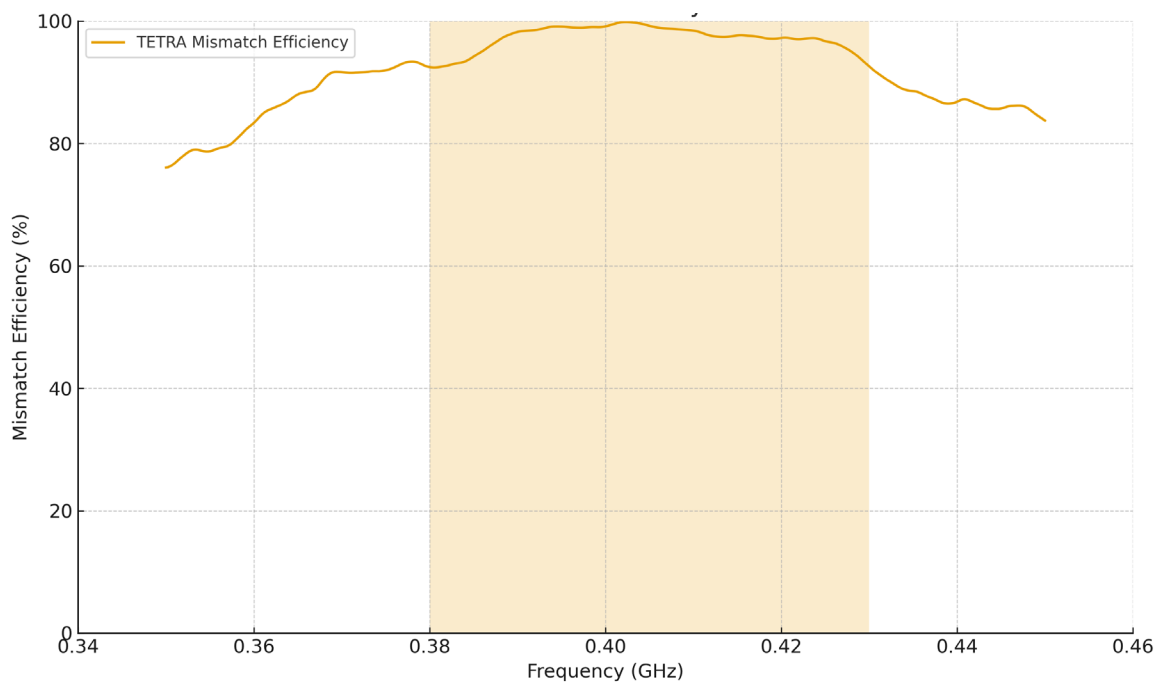
LTE Port Mismatch Efficiency



TETRA to LTE/Wi-Fi Isolation



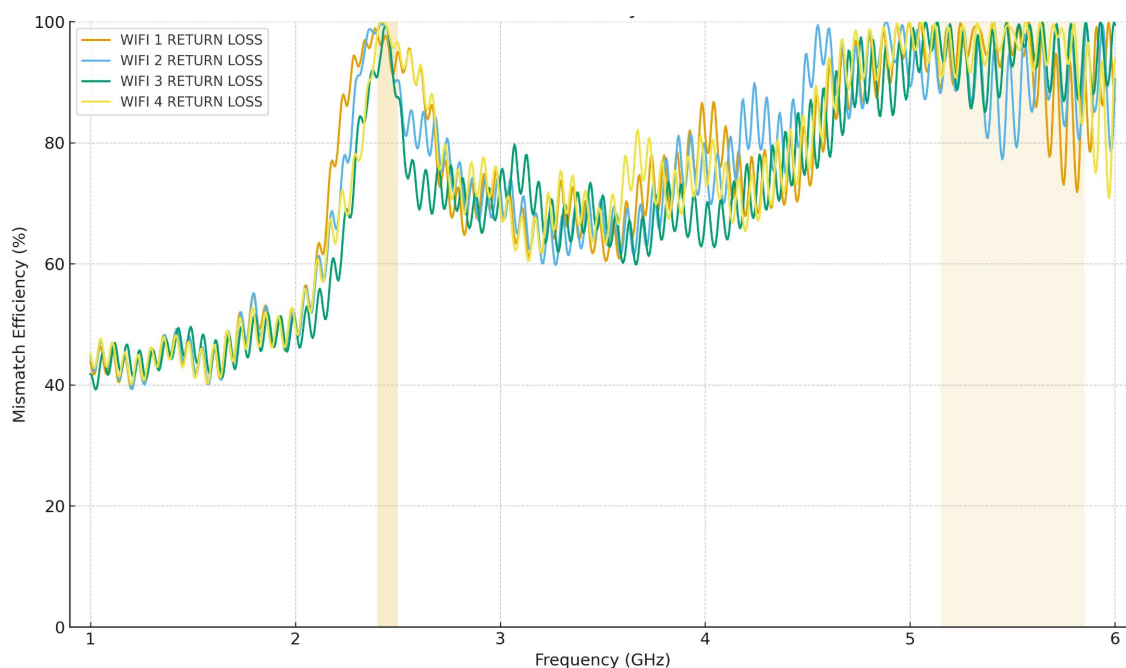
TETRA Port Mismatch Efficiency



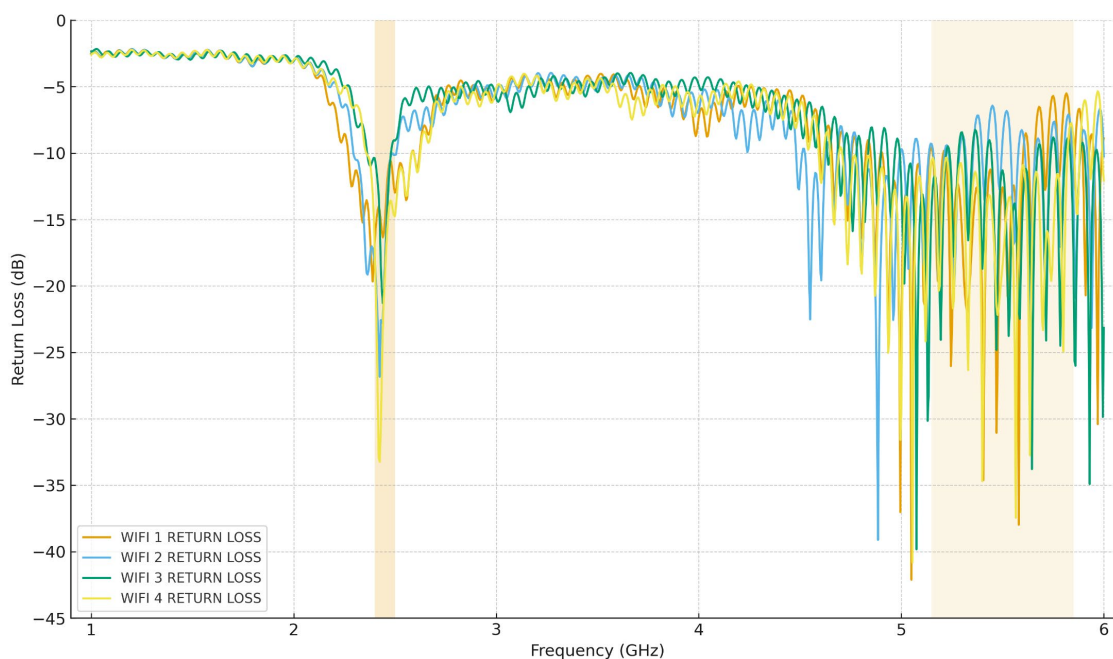
The graph displays the TETRA Return Loss in decibels (dB) across a frequency range from 0.34 GHz to 0.46 GHz. A yellow shaded region highlights the frequency band from 0.38 GHz to 0.43 GHz. The return loss curve starts at approximately -6.5 dB at 0.35 GHz, decreases to a minimum of about -28 dB at 0.405 GHz within the shaded region, and then rises back to approximately -8 dB at 0.45 GHz.

Frequency (GHz)	Return Loss (dB)
0.35	-6.5
0.36	-8.0
0.37	-10.5
0.38	-11.5
0.39	-18.0
0.40	-20.0
0.405	-28.0
0.41	-18.0
0.42	-15.5
0.43	-11.0
0.44	-8.5
0.45	-8.0

Wi-Fi Port Mismatch Efficiency



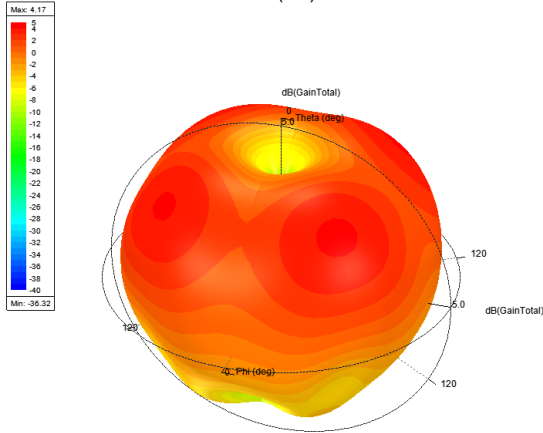
Wi-Fi Port Return Loss



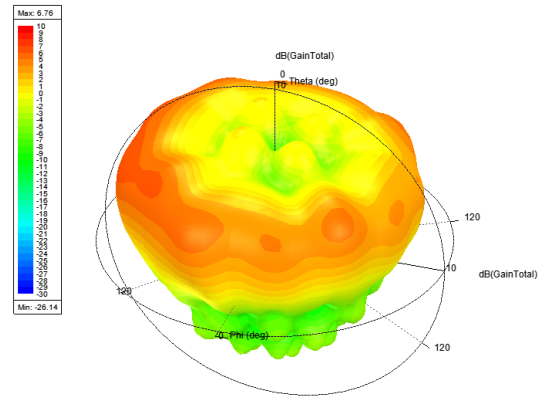
7000-308 'Mallard' 8-in-1 Antenna Black incl. TETRA

Antenna 3D Gain Plots

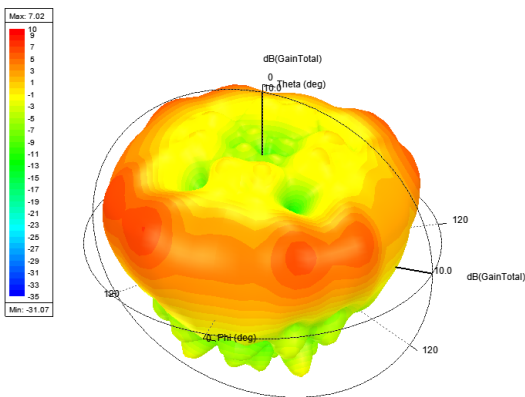
820MHz



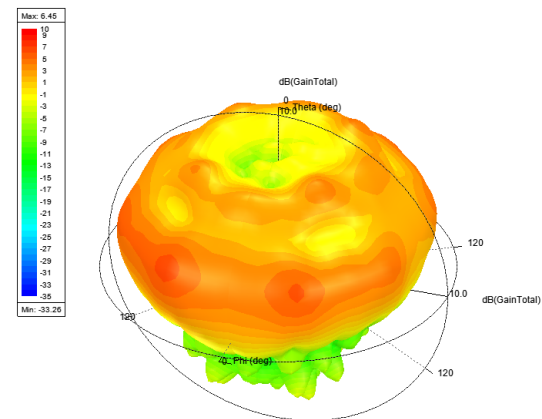
1820MHz



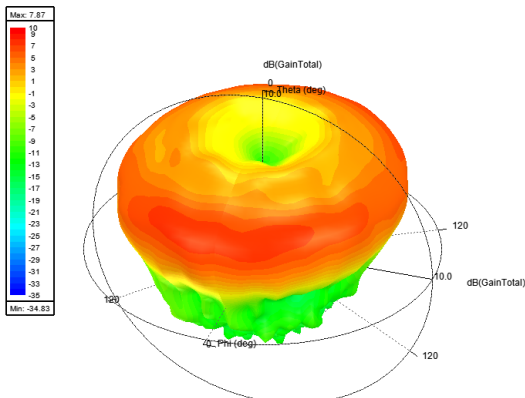
2140MHz



2600MHz



3600MHz



All graphs & diagrams subject to change without prior notice.

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