

SK0200150 Mallard Antenna 3-in-1 Black incl. 5m Coax Cables



- 3 Functions in 1 Antenna
- ESN Transition Antenna
- 2x2 MiMo Wideband 2G 3G 4G 5G
- Ultra-Wide Bandwidth 698MHz – 6000Mhz
- Low Profile OEM Styled Shark Fin
- Simple, Single Hole Installation
- GPS/GNSS Port DC Isolated
- CE Directive 2014/53/EU Compliant

Available in white: SK0200210



This 'Mallard' is supplied as a kit with all coax cables to support general SMA connections, mostly suited to vehicle routers.

With market leading isolation to support ESN, there is no need to fit two antennas to your vehicle. With many fitting kit options available there is no reason to drill unwanted holes to the roof of your car. Contact Sure Antennas for many optional fitting accessories.

Designed as a multi-function antenna, the Mallard supports 2x2 MiMo from 698MHz to 6GHz with a minimum 4dBi gain across the whole band. With the additional functionality of a GPS/GNSS Port, this antenna would be an ideal solution for future proofing your new vehicle installations for ESN.

With a single hole installation, and so many potential frequency functions on offer, this antenna would help reduce installation costs and protect your vehicles resale value. Available with an option of 3m or 5m low loss coax extension cables all terminated and labeled for ease of installation.

Additional Part Number Options

SK0200152	Mallard Antenna 3-in-1 Black incl. 3m Coax Cables
SK0200210	Mallard Antenna 3-in-1 White incl. 5m Coax Cables
SK0200212	Mallard Antenna 3-in-1 White incl. 3m Coax Cables

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Technical Specifications

Electrical Data	2G 3G 4G 5G
Frequency Range (MHz)	698-6000 MHz
Band	2x2 MiMo 2G 3G 4G 5G
VSWR	<2.1:1 TYPICALLY 1.5:1
Gain	Minimum 4dBi
Isolation	<-25dB
Polarisation	Vertical
Pattern	Omni-directional
Impedance	50Ω
Max Power Input (W)	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
length	160mm
Diameter	2.8
Termination	SMA (f)
Mounting Data	
Mounting Type	Panel mount
Mounting Hole (mm)	15mm
Max Panel Thickness (mm)	10mm

Subject to change without prior notice.

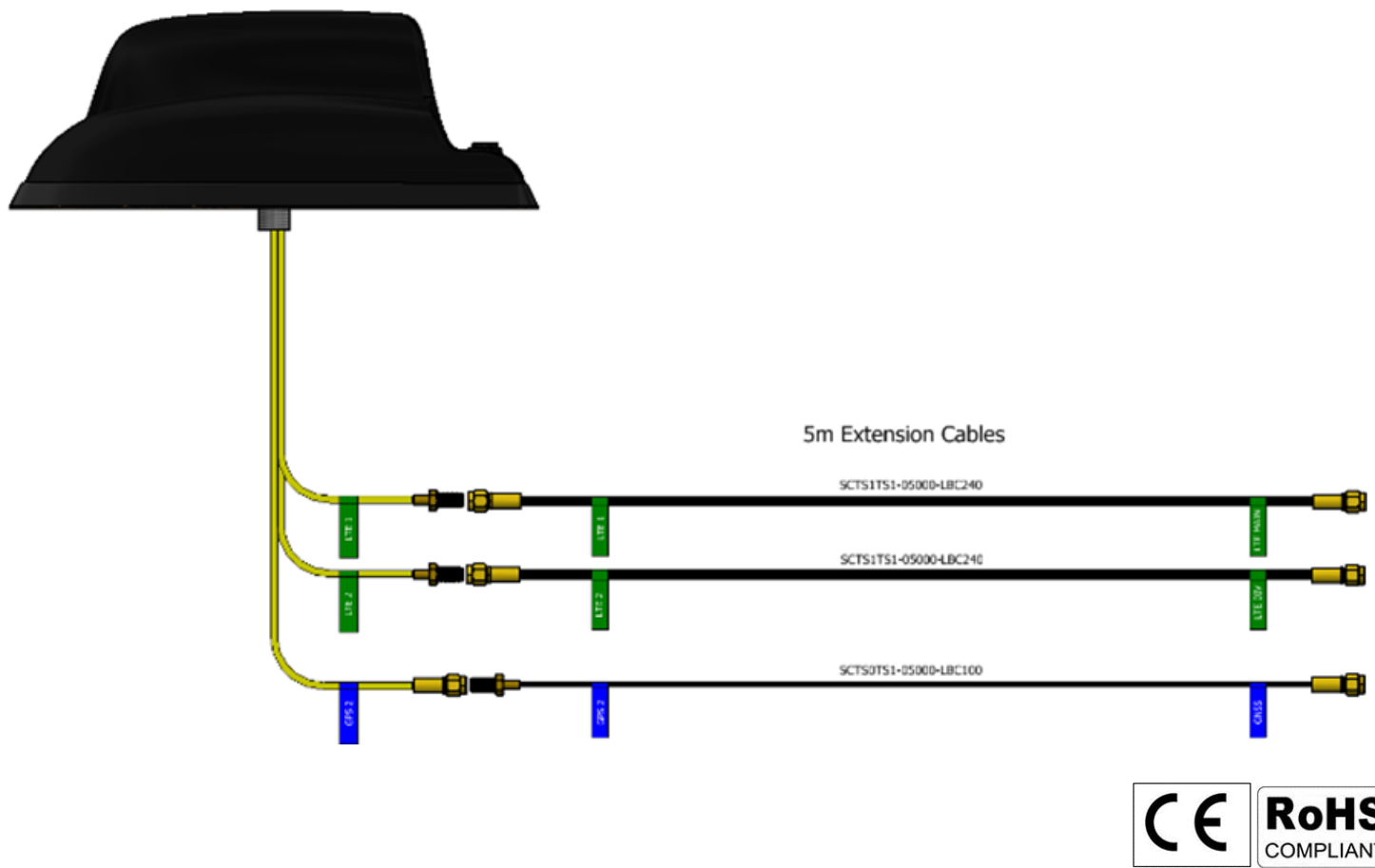
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Supplied Coax Extension Cables

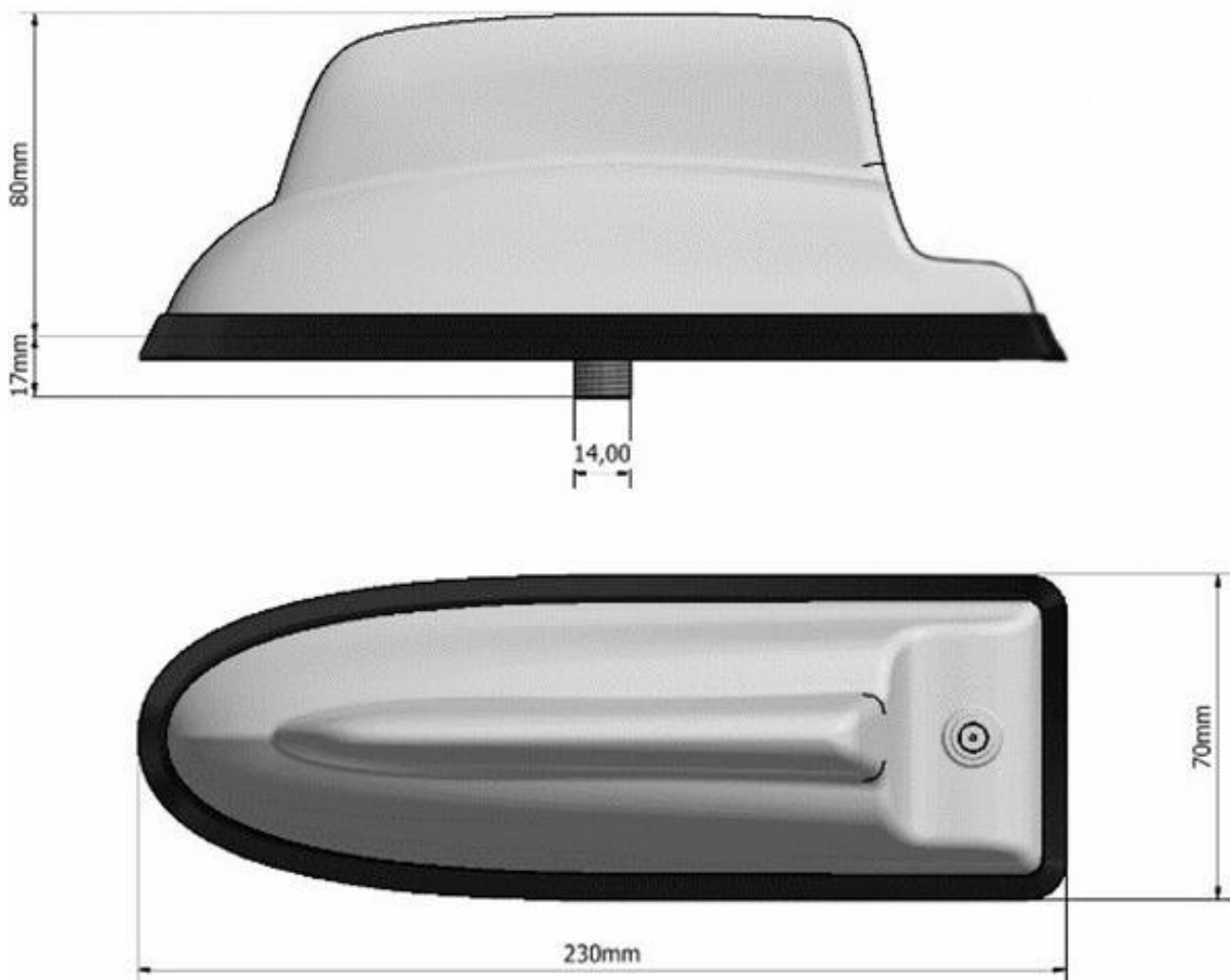
Coax Cables	2x LTE	1x GPS
Cable Type	SBC240	SBC100
length	5m or 3m	5m or 3m
Diameter (mm)	6.1	2.8
Min. Bend Radius (mm)	30	14
Operating Temp. °C	-40-80	-40-80
Termination	SMA (m)	SMA (m)
Labeling	LTE M & LTE A	GPS

Technical Drawing

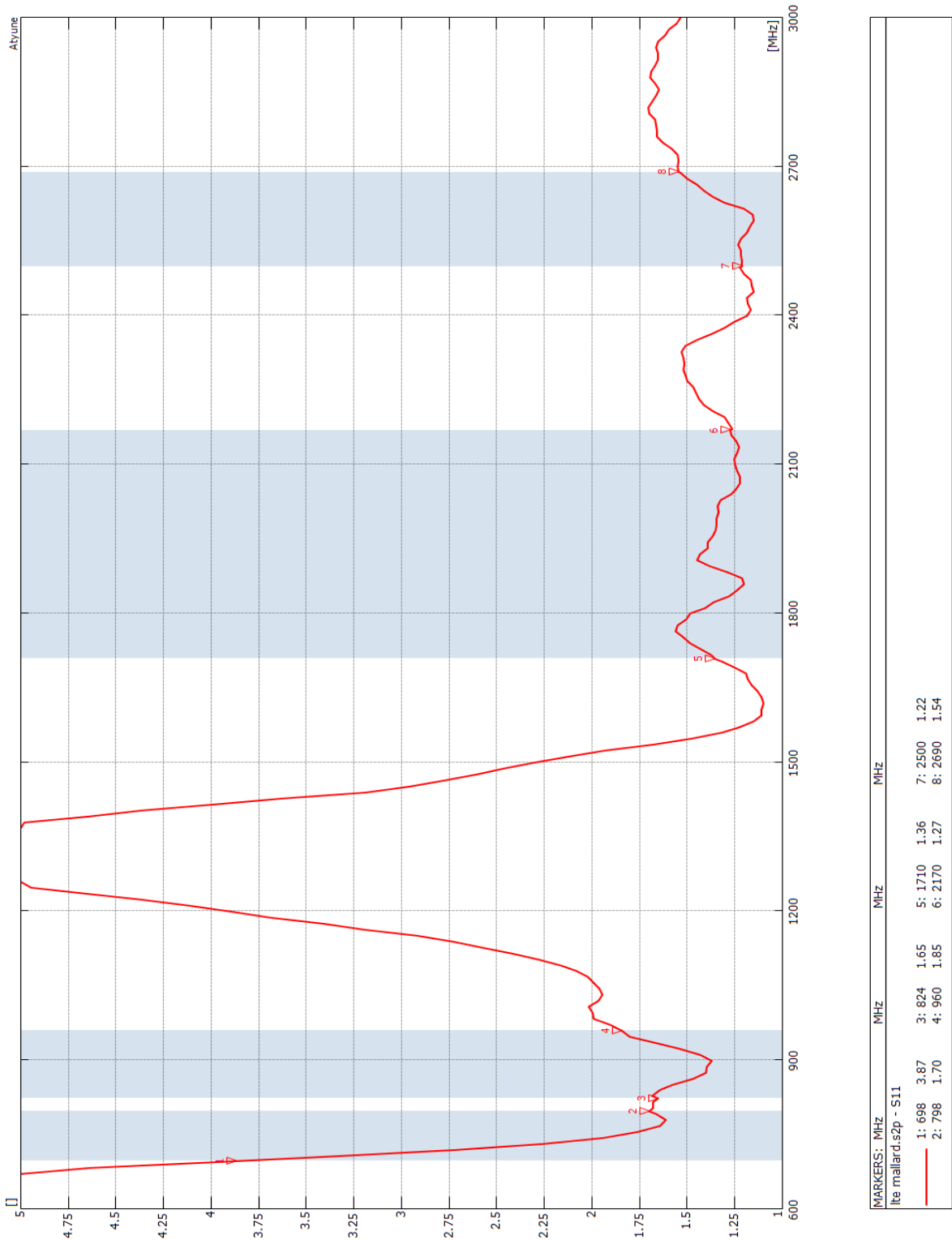


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Mallard Antenna Dimensions



LTE VSWR Plot

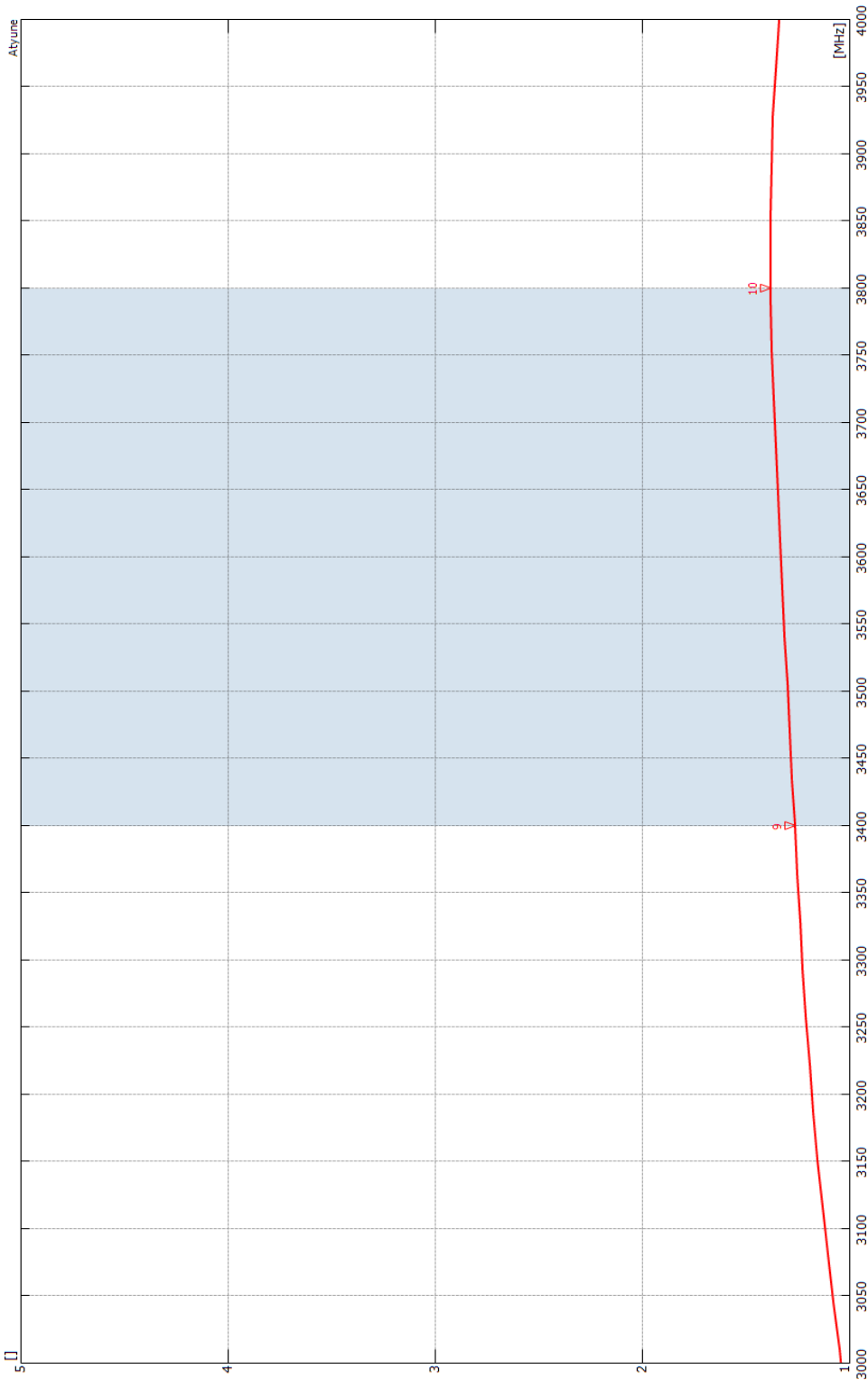


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5G VSWR Plot



MARKERS: MHz		MHz	MHz	MHz	MHz
LTE DATA HFSS.s1p - S11					
1: 698	2: 91	3: 824	4: 46	5: 1710	1.14
7: 2500	1.47	9: 3400	1.27		
2: 798	1.59	4: 960	2.02	6: 2170	1.60
8: 2690	1.28	10: 3800	1.38		

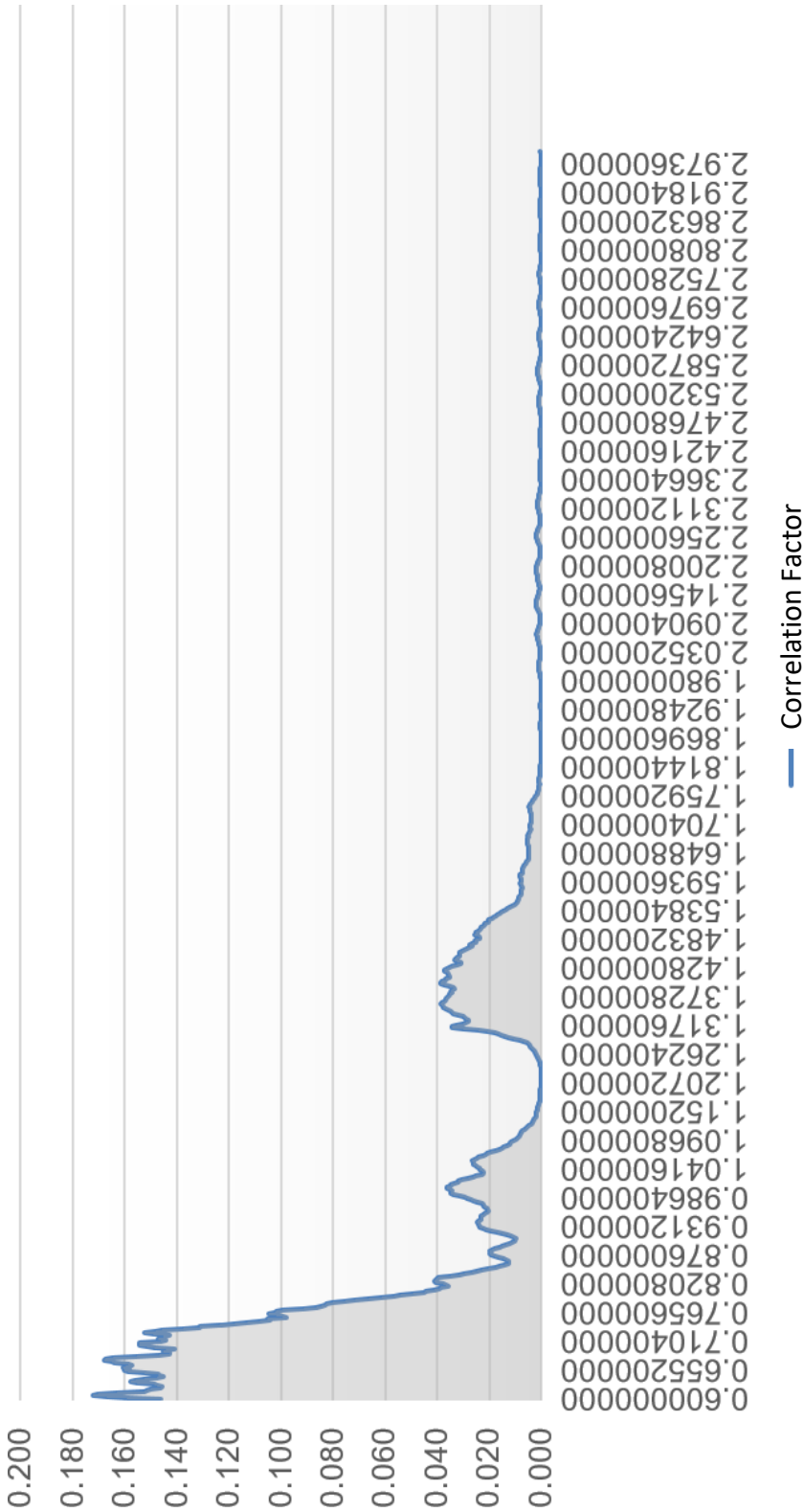
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LTE Correlation Coefficient

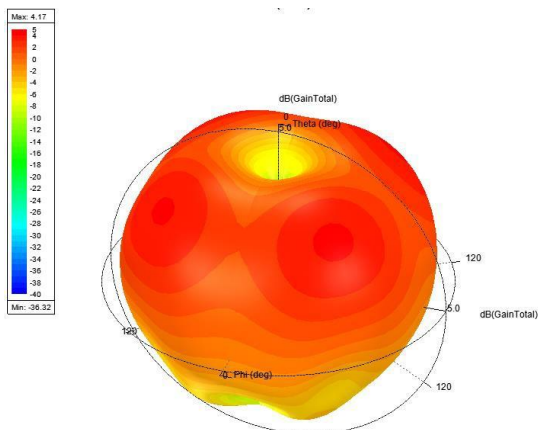


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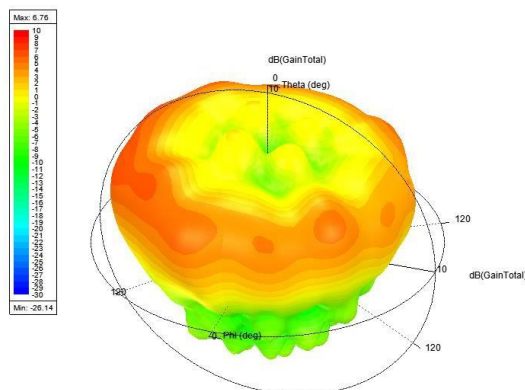


Antenna 3D Gain Plots

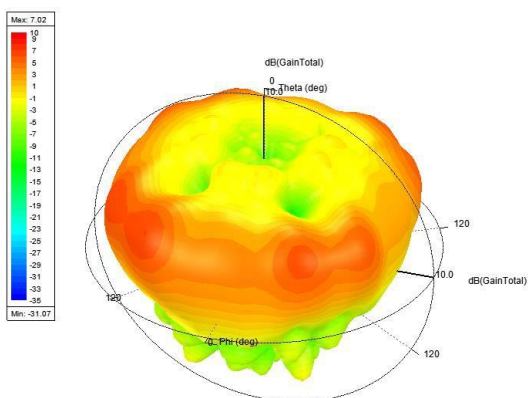
0.82 GHz



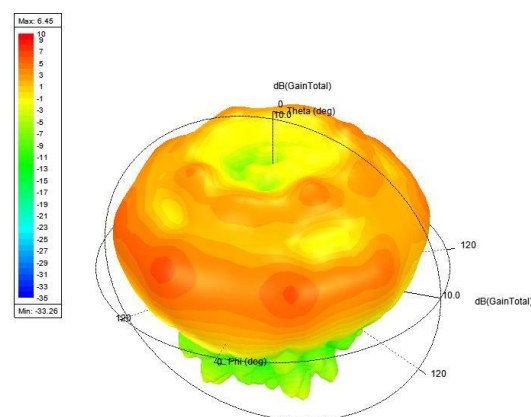
1.82 GHz



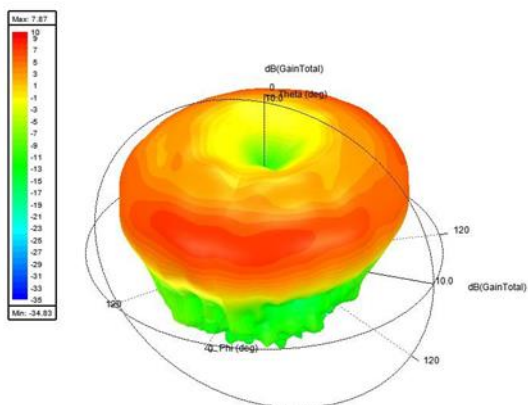
2.14 GHz



2.6 GHz



3.6 GHz



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Optional Installation Accessories

0250-MP074.01	Mallard Thread Extender M14x1.5	
SK0229201	LTE Adaptor Cable 500mm Panasonic CF33 Havis Dock SMA - TNC	
SK0229202	GPS Adaptor Cable 500mm Panasonic CF33 Havis Dock SMA - TNC	
SK0125500	GPS Adaptor Cable 10mm Handsfree R5 SMA - Blue Fakra	
SCTS0TG0-00100-RG316	GPS Adaptor Cable 10mm Cleartone SMA - GT5	
ST50S0	GPS or LTE 50 ohm Terminations : SMA Female	
Other optional custom coax cables are available, please contact us for more information.		