

SK0200710 'Sandcastle' 13-in-1 Antenna Black incl. 5m Coax Cables - TETRA



The 'Sandcastle' is a multifunction antenna designed to **future-proof** blue-light and amber-light vehicle fleets, delivering **up to 18 functions** within a single, panel-mounted unit. This unit incorporates **13 functions with 5m extension cables**.

Equipped with six ultra-wideband cellular elements covering **700 MHz to 6 GHz**, the Sandcastle ensures reliable performance today while supporting future requirements for years to come. With a **minimum 4 dBi gain** across the band, it offers exceptional efficiency for all public safety applications.

This antenna is **ESN-ready** and fully compatible with **current Airwave systems**, making it ideal for agencies transitioning between networks. If the whip option is not required, the 'Sandcastle' can be installed as a **ground-plane-independent antenna**, simplifying installation.

Featuring integrated **GPS, MiMo dual-band Wi-Fi**, and an **optional TETRA whip**, the Sandcastle eliminates the need for multiple holes in the roof, requiring only a **single 19 mm mounting hole**. Additional variants are available, including low-loss coax cable fitting kits. **For more details, please contact us.**

Also Available in White: Part No. SK0200760



Part No.	Cable Kit Options
SK0200760	Product Kit : Sandcastle 13 in 1 Antenna : White : 4x4 LTE/Cellular 6x6 WiFi 2x GPS 1xTetra; - c/w 5m Low Loss Coax Extension Cables - Terminated
SK0200713	Product Kit : Sandcastle 13 in 1 Antenna : Black : 4x4 LTE/Cellular 6x6 WiFi 2x GPS 1xTetra; - c/w 2m Low Loss Coax Extension Cables - Terminated

Additional options available upon request.

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A brand of



MOBILE RADIO

Technical Specifications

Part No.	SK0200710		
Electrical Data	TETRA	2G 3G 4G 5G	WiFi
Frequency Range (MHz)	380 - 430 MHz	698-6000 MHz	2.4 GHz & 5.8GHz
Band	TETRA	4x Wideband LTE 4x4 MiMo	6x Dual Band Wi-Fi 6x6 MiMo
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, each port is DC isolated)		
Cable	2x RG316 Terminated to SMA (m)		
Mechanical Data			
Dimensions (mm)	H76xW197xL227 *		
Operating Temp (°C)	-40 / +80°C (-40° / 176°F)		
Material	ABS		
Colour	Black		
Weight (g)	600		
Cable Data			
Cable Type	RG316	RG316	RG316
length (mm)	300	300	300
Diameter	2.8	2.8	2.8
Termination	TNC (f)	SMA (f)	SMA (m) Reverse Polarity
Mounting Data			
Mounting Type	Panel mount with adhesive pad		
Mounting Hole (mm)	19mm		

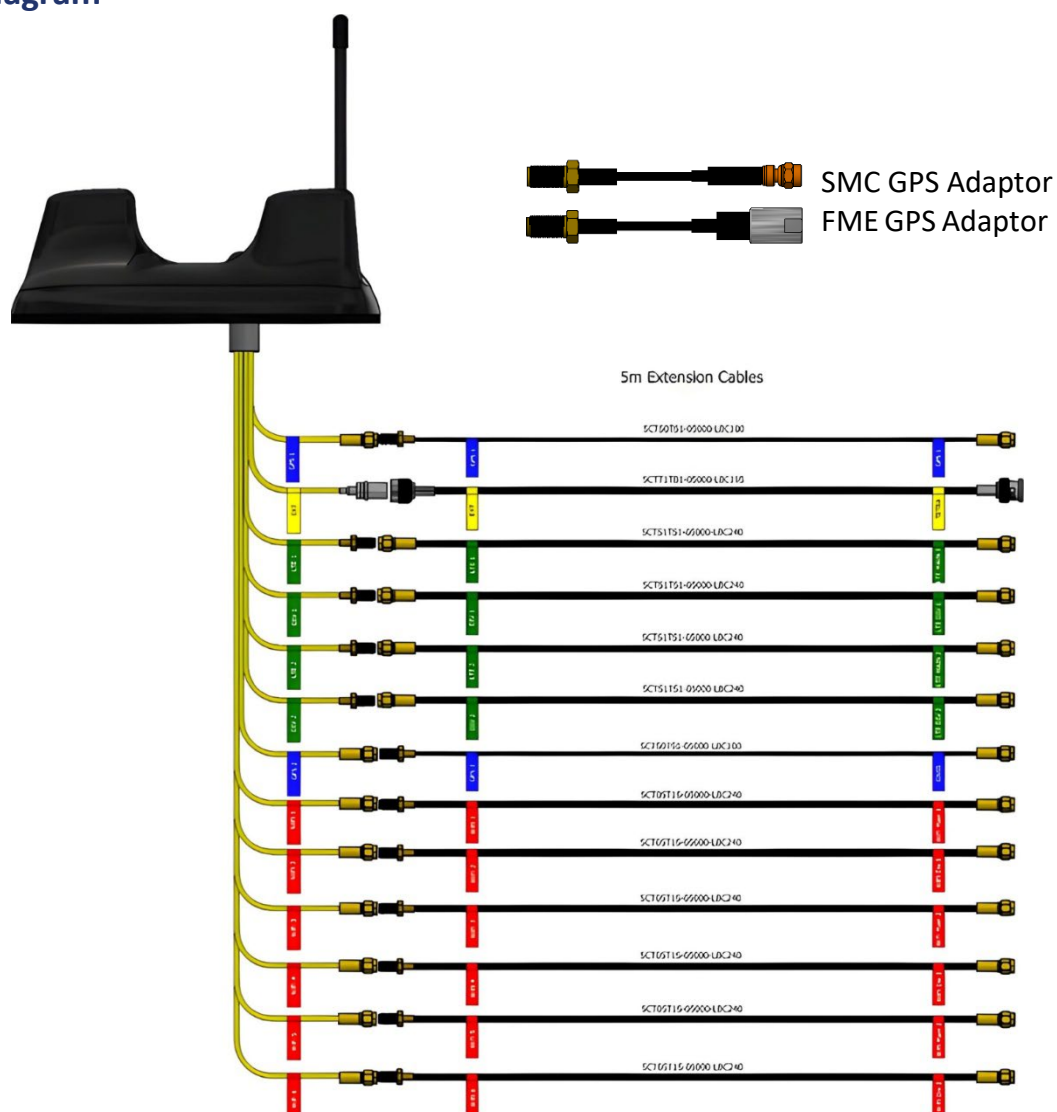
Subject to change without prior notice. *Excluding optional whip

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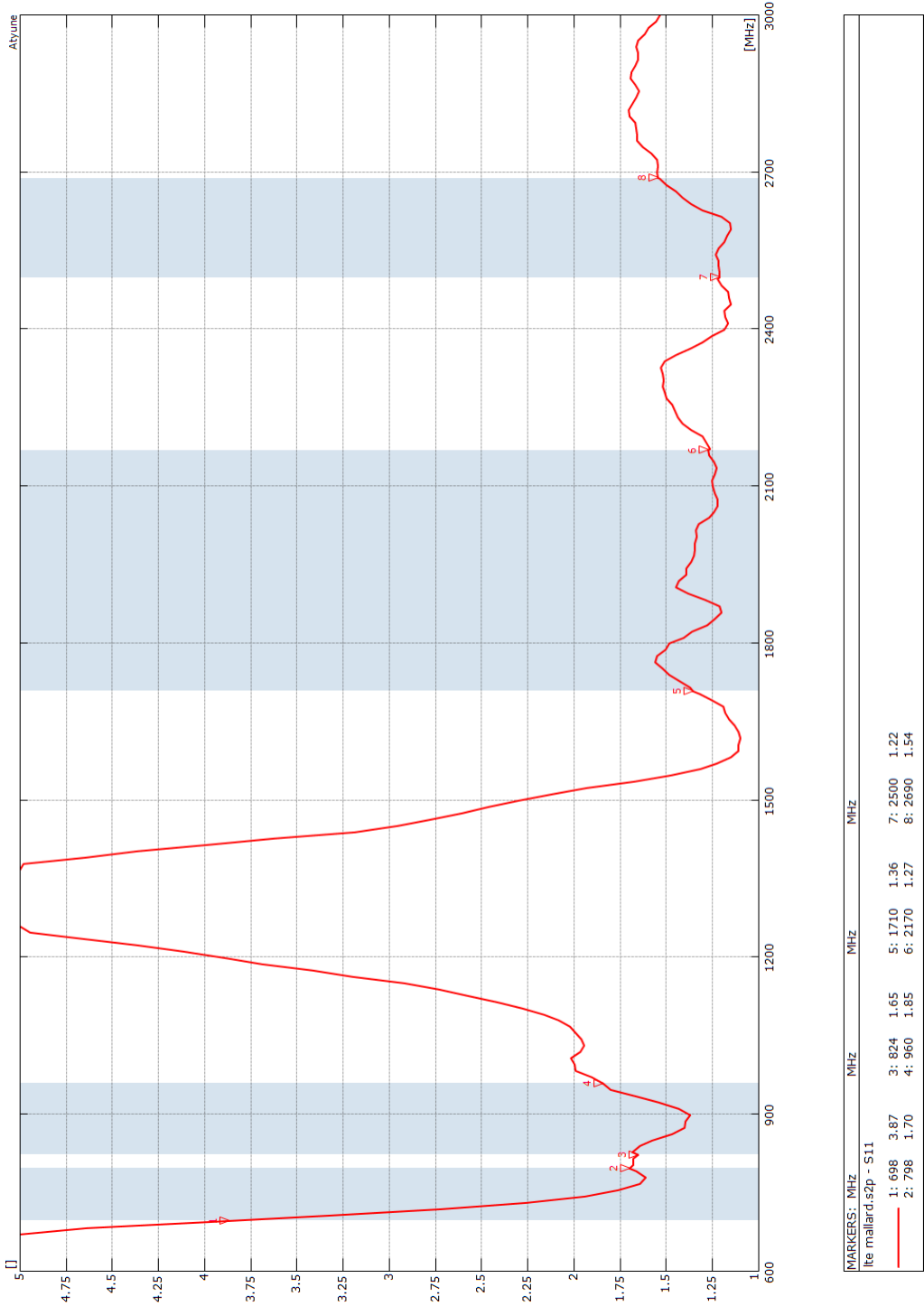
Supplied Coax Extension Cables

Coax Cables	4x LTE	6x WiFi	1x GPS	1x Tetra	1x GPS
Cable Type	SBC240	SBC240	SBC100	SBC195	SBC100
length	5m or 3m	5m or 3m	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	6.1	2.8	4.95	2.8
Min. Bend Radius (mm)	30	30	14	25	14
Operating Temp. °C	-40-80	-40-80	-40-80	-40-80	-40-80
Termination	SMA (m)	SMA Reverse Polarity (m)	SMA (m)	BNC (m)	SMA (m) – Motorola and Sepura adaptors supplied.
Labeling	LTE M & LTE A	WiFi M & WiFi A	GPS	TETRA	GPS TETRA

Cable Diagram

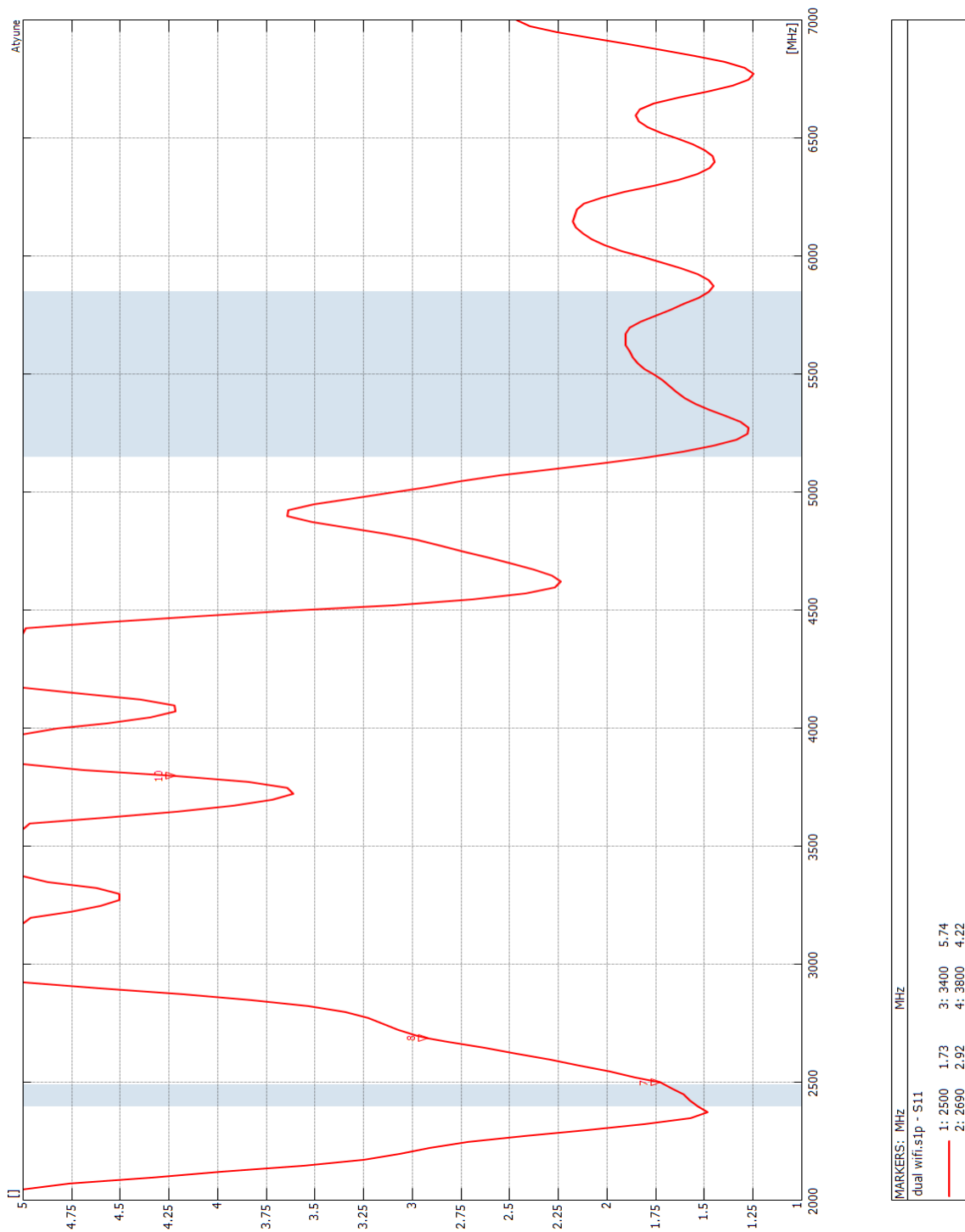


LTE VSWR Plot



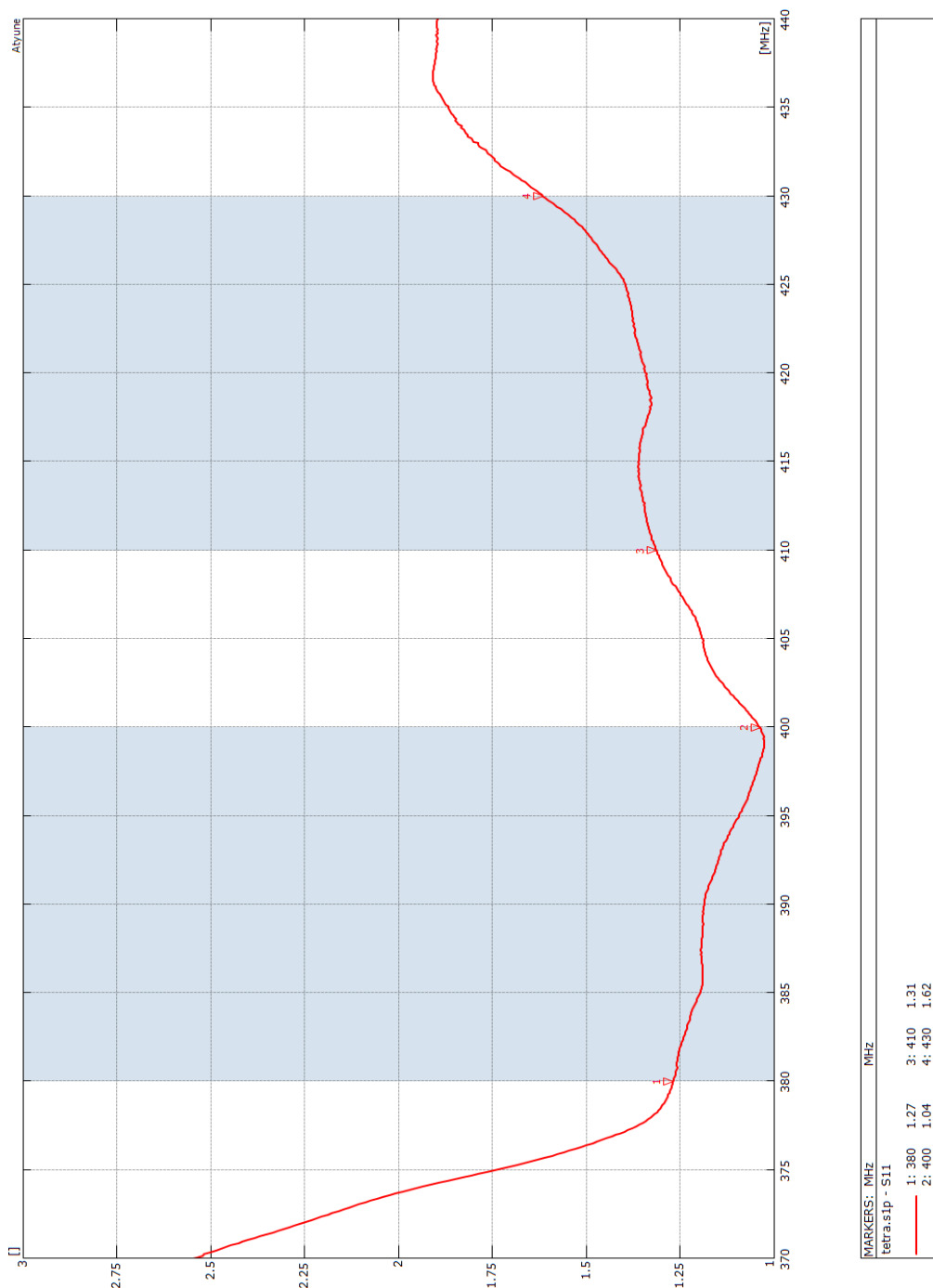
Subject to change without prior notice.

Wi-Fi VSWR Plot



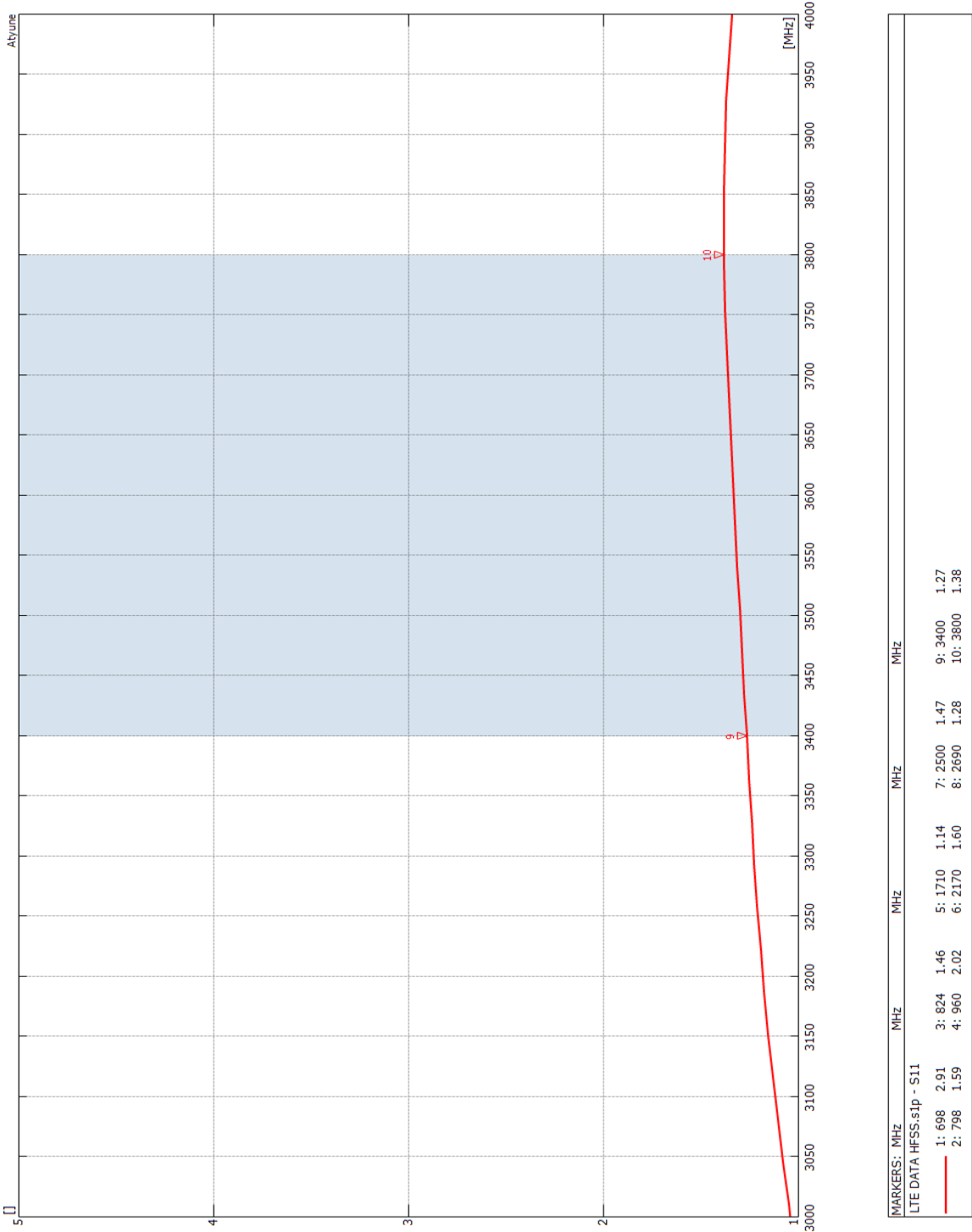
Subject to change without prior notice.

TETRA VSWR Plot



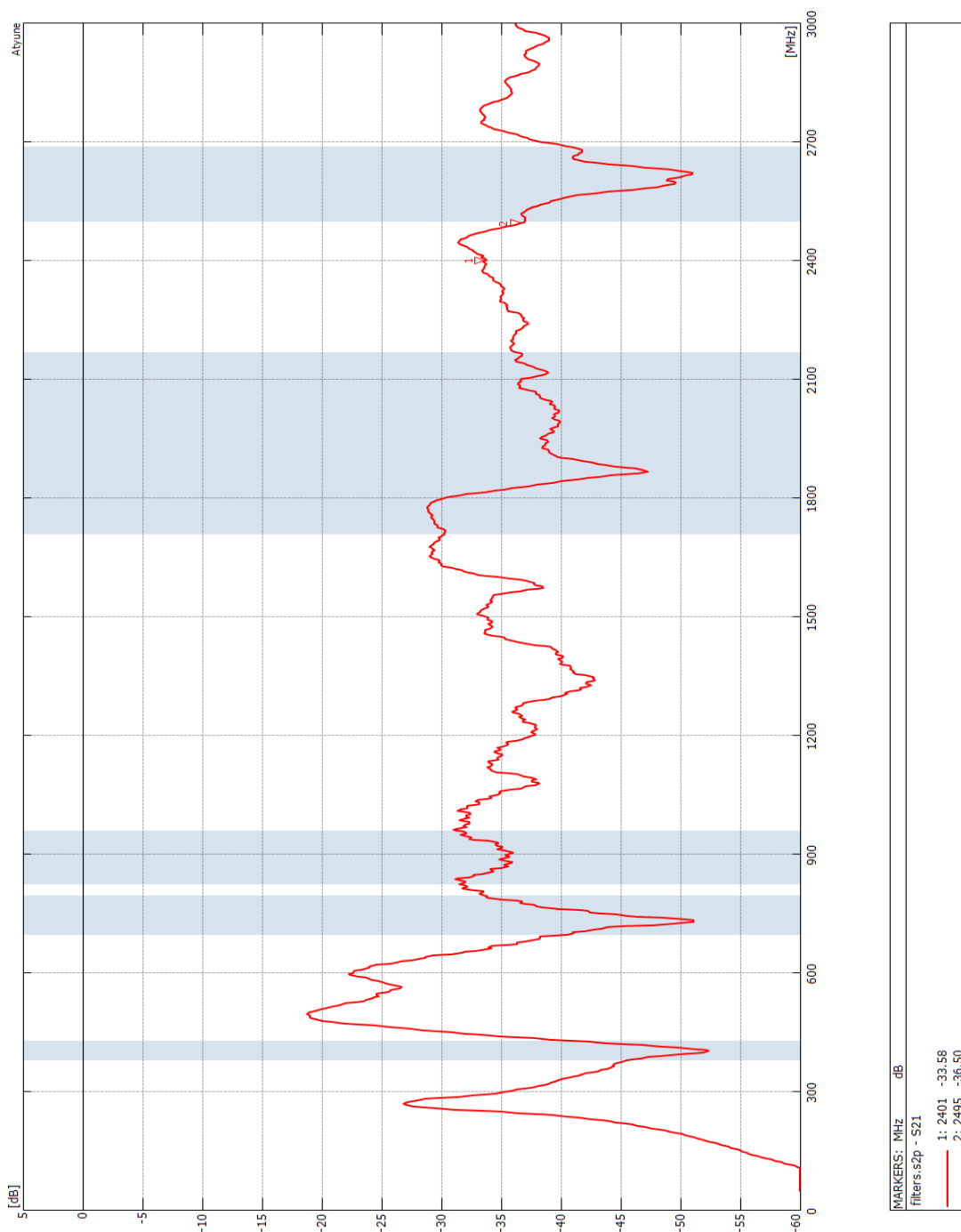
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5G VSWR Plot



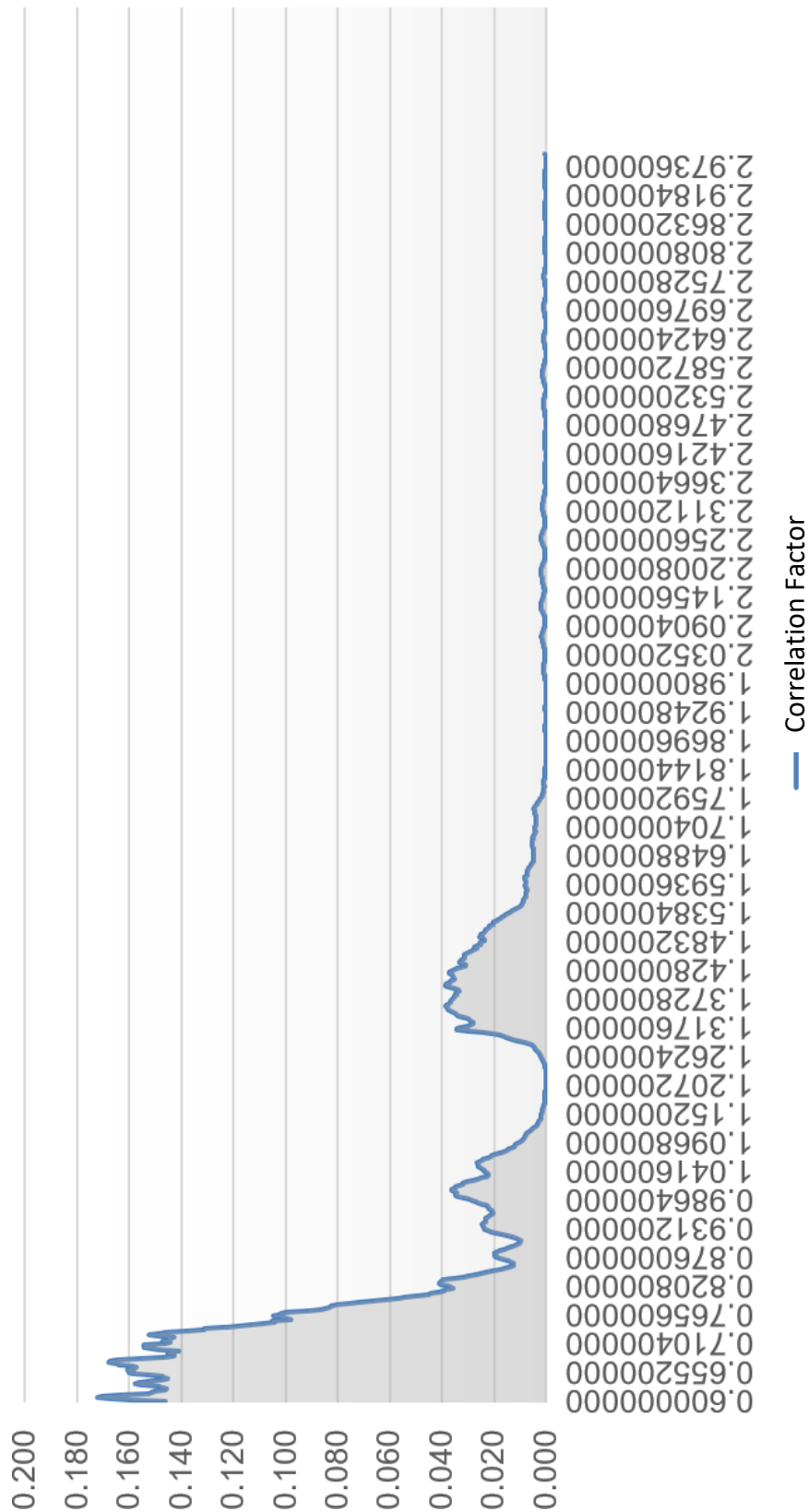
Subject to change without prior notice.

TETRA & LTE Isolation



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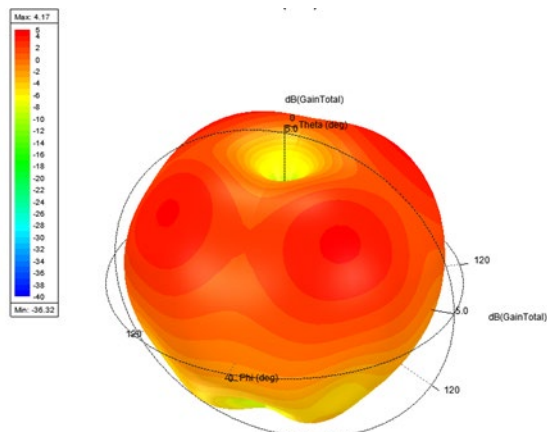
LTE Correlation Coefficient



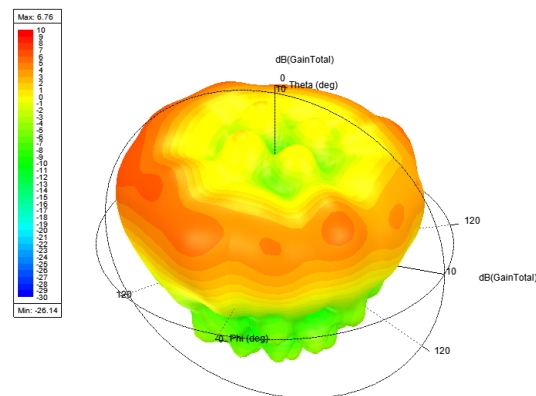
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3D Radiation Pattern

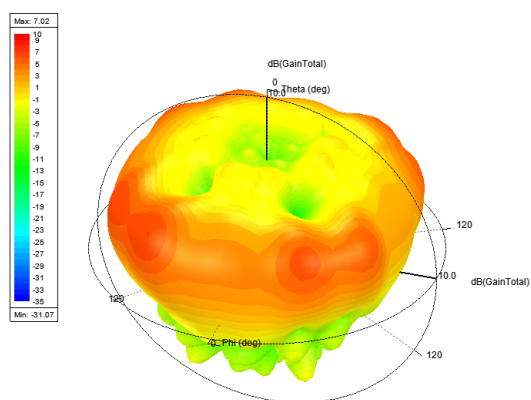
820Mhz



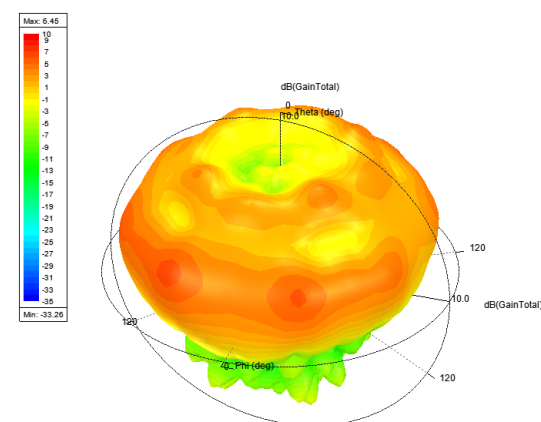
1820MHz



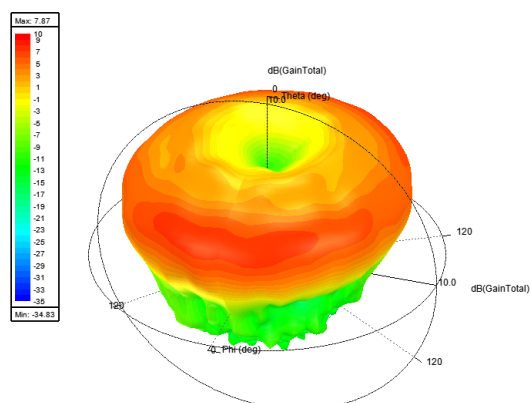
2140Mhz



2600Mhz



3600Mhz



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