

# GPS / VHF Antenna

## MODEL: GVA-200

(Low Input Voltage)

AIS system & boat manages the double frequency GPS/VHF Antenna or

GPS/ Orbcmm Antenna



### Specifications:

PHYSICAL CONDITION	
Constructions:	Polycarbonate radome, rubber-O-ring between top radome
Dimensions:	47.2mm(Dia.) x 16mm(H) VHF Antenna : 18.5mm
Weight:	180grams (with 5M cable & connector).
Color:	Standard in Black
Mounting:	Magnet
Cable & Connector	
RF cable:	5 meter RG174/U (standard) other length (optional)
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector available:	SMA/SMB/MCX/MMCX/GT5/FME/Fakra
Optional:	Universal Connector Adapter (FME to TNC/BNC/SMA/SMB/MCX)
Antenna Element	
Center Frequency:	1575.42 MHz +/-1.023 MHz
Polarization:	R.H.C.P. (Right Handed Circular Polarization).
Absolute Gain @ Zenith:	+5 dBi typical.
Gain @ 10° Elevation:	-1 dBi typical.
Axial Ratio:	3 dB max.
Output VSWR:	1.5 max
Output Impedance:	50 ohm
Low Noise Amplifier	
Center Frequency:	1575.42 MHz
Power Gain:	28db +/-4.5db
Bandwidth:	10MHz min.

Noise Figure:	1.5 min.
Outer Band Attenuation:	3 dB max.
Supply Voltages:	2.5~5.5V DC
Current Consumption:	2.5V : 6.6mA Typ. 3V: 8.6mA Typ. 4V: 12.6mA Typ. 5V: 16.6mA Typ.
Output Impedance:	50W ohm

**Overall Performance: (antenna element, LNA & coax cable)**

Center Frequency:	1575.42 Mhz.
Gain:	At 90° 30 ± 4.5dBi-(cable loss) Note:1 Mounted on the 60mm x 60mm square ground plane
Noise Figure:	2.0 max.
Axial Ratio:	3 dB max.
Bandwidth:	2MHz min.
VSWR:	2.0 max.
Output Impedance:	50W ohm

**Environmental**

Operating Temperature:	-40°C~ +85°C.
Storage Temperature:	-50°C~ +90°C.
Relative Humidity:	95% non-condensing.

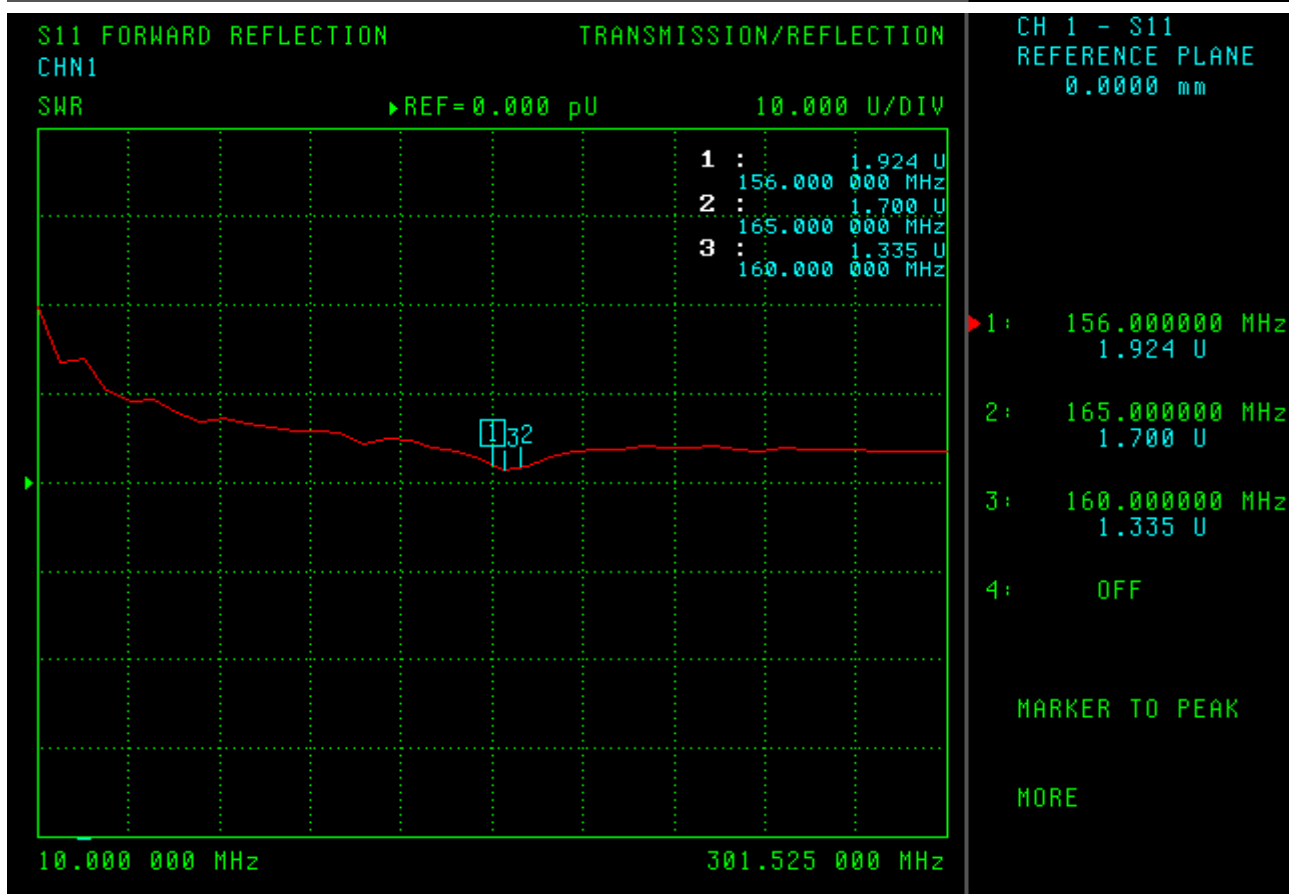
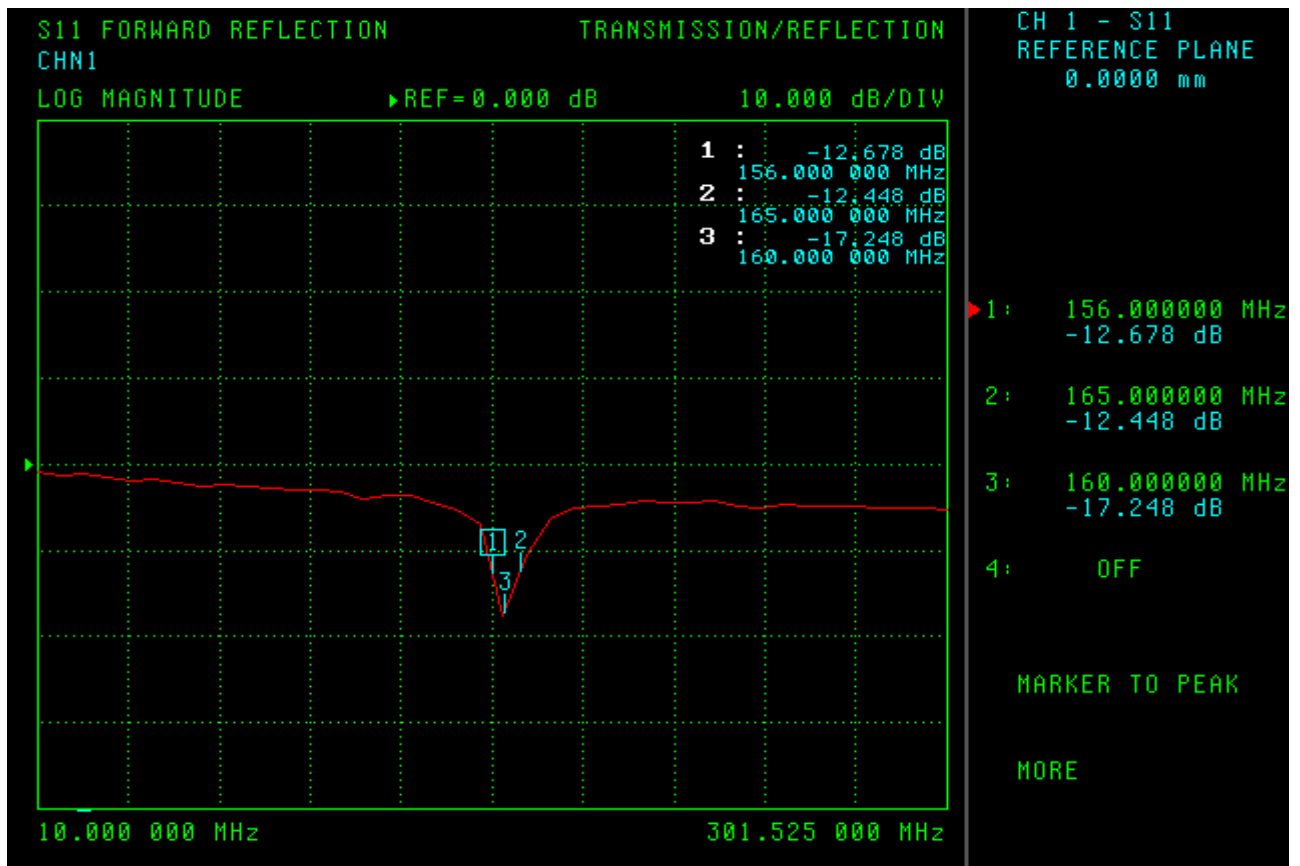
**VHF Annt**

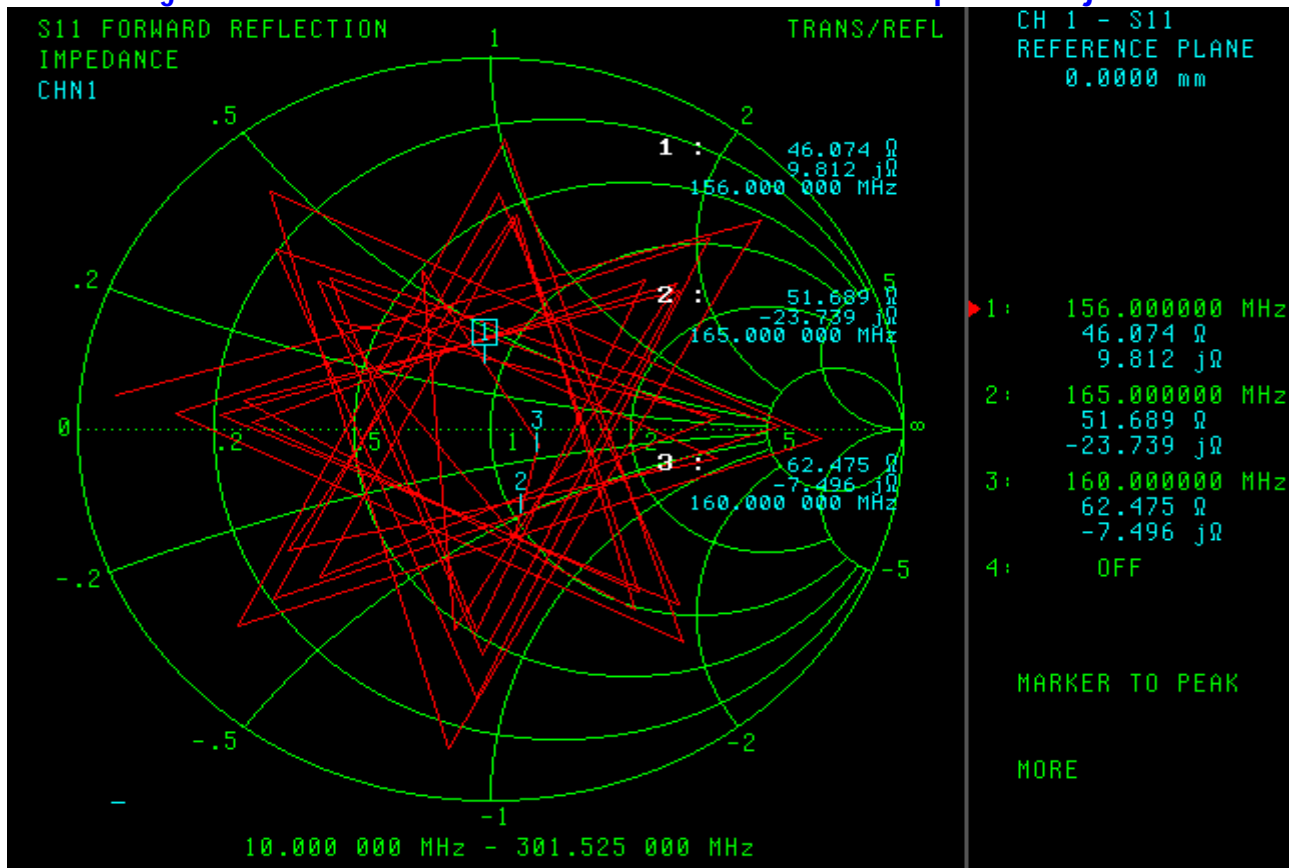
Frequency	156-165Mhz ( AIS System)	Frequency	137-150Mhz (Orbcomm )
VSWR	<2.0 Max	VSWR	2.5Max
156Mhz	1.9	137Mhz	2.3
160Mhz	1.3	144Mhz	1.58
165Mhz	1.7	150Mhz	2.45
Impedence	50Ω	Impedence	50Ω
Cable type	RG174	Cable type	RG174
Cable length	5M	Cable length	5M
Connector	SMA Coding or Others	Connector	SMA Coding or Others
Power	5~10W	Power	5~10W

\* This specification is subject to change without prior notice

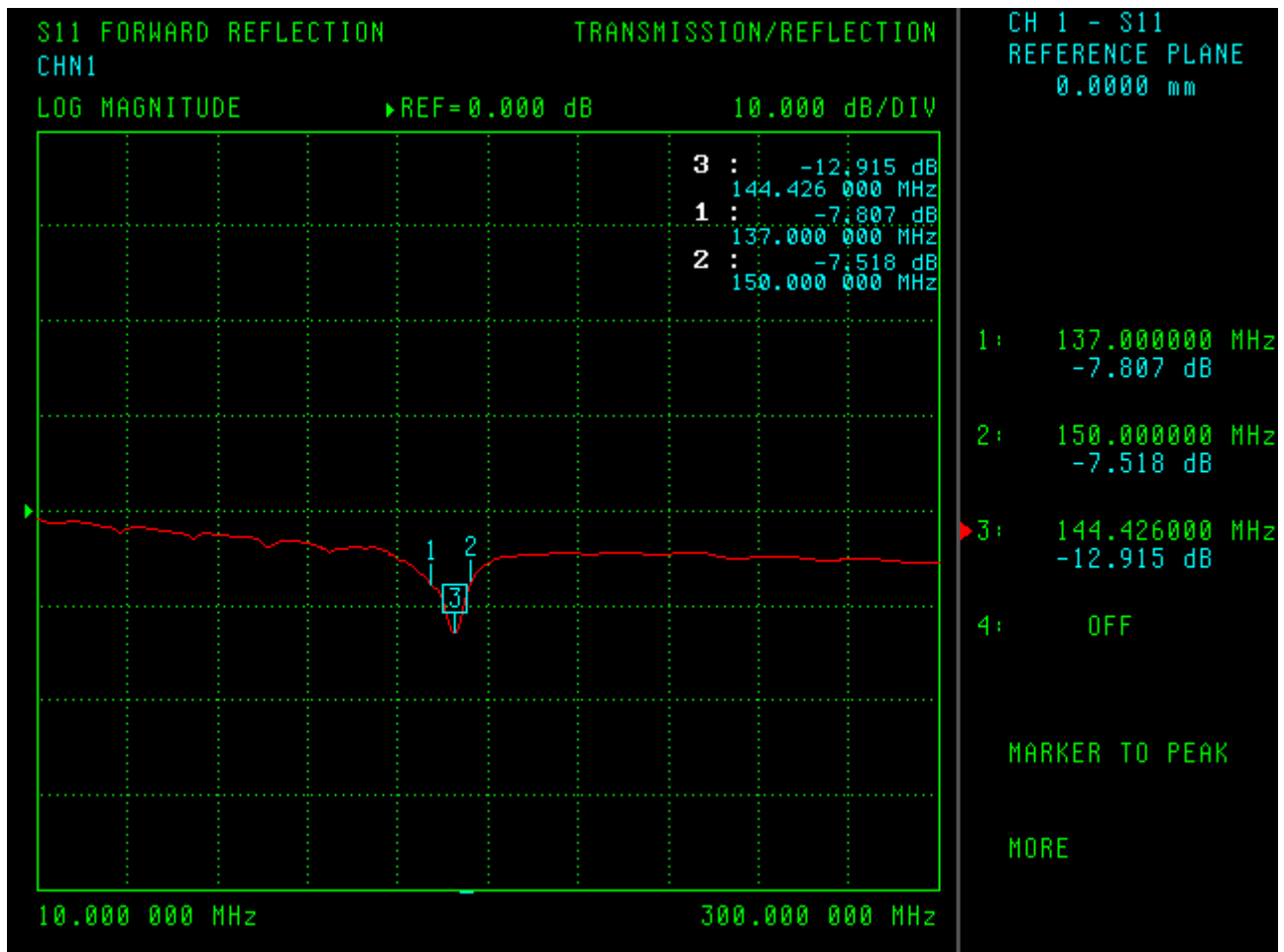


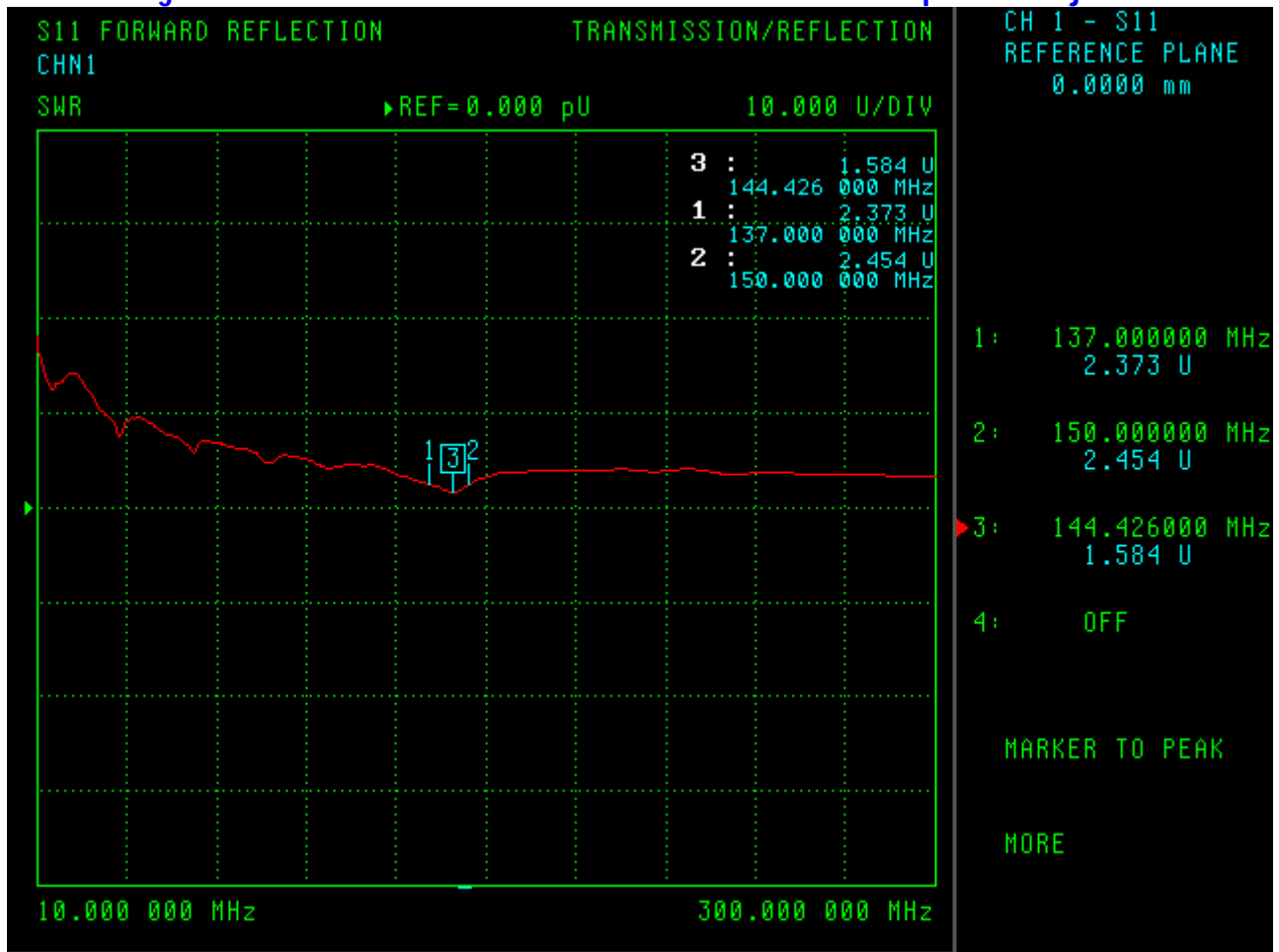
A: 156~165Mhz





**B:137~150MHz**





C: GPS

