



## A.H. Systems, Inc.

9710 Cozycroft Ave.  
Chatsworth, CA 91311



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www.AHSystems.com

# SAS-590-13

## Standard Gain Horn Antenna

750 MHz – 1.12 GHz

This microwave horn antenna has medium gain and low VSWR; excellent for both immunity and emissions testing.



Frequency Range: 750 MHz – 1.12 GHz

Antenna Factor: 16 dB/m typical

Gain: 13.5 dBi average

Impedance: 50  $\Omega$

VSWR: 1.2:1 (1.5:1 max)

Connector: WR-159 to N-Type female adapter

### Features

- Frequency Range of 750 MHz to 1.12 GHz
- Used as Gain Reference
- Individually Calibrated
- Three year Warranty

The Standard Gain Horn Antennas are designed specifically for utilization in emissions and immunity testing over the frequency range of 1 to 40 GHz. Each antenna is linearly polarized and has medium gain, low VSWR, and a constant antenna factor. The Standard Gain Horn performance is very precise and predictable through design parameters. Comparisons of measured versus computed antenna factors and gain have been shown to be +/- .5 dB. Therefore, the antenna is considered to be a standard reference, similar to that of a resonant dipole below 1 GHz. This Standard Gain Horn comes with a tripod mount that adapts to any tripod with 1/4-20 male threads. Horizontal and vertical polarization is obtained by rotating the antenna on the tripod.

### Recommended Accessories

- ATU-510 (Antenna Tripod Unit, Wooden)
- AEH-510 (Azimuth and Elevation Head)
- SAC-18G-3 (3 Meter Low Loss Cable)



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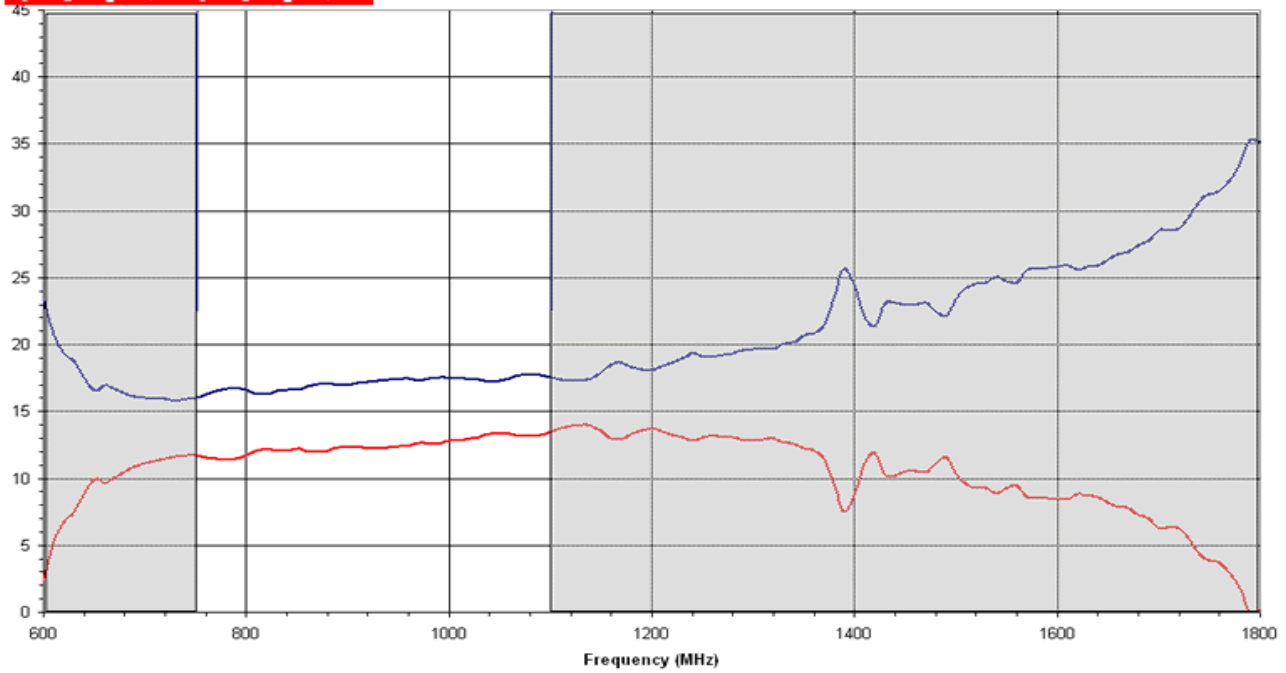
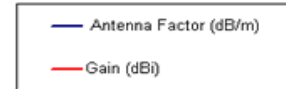
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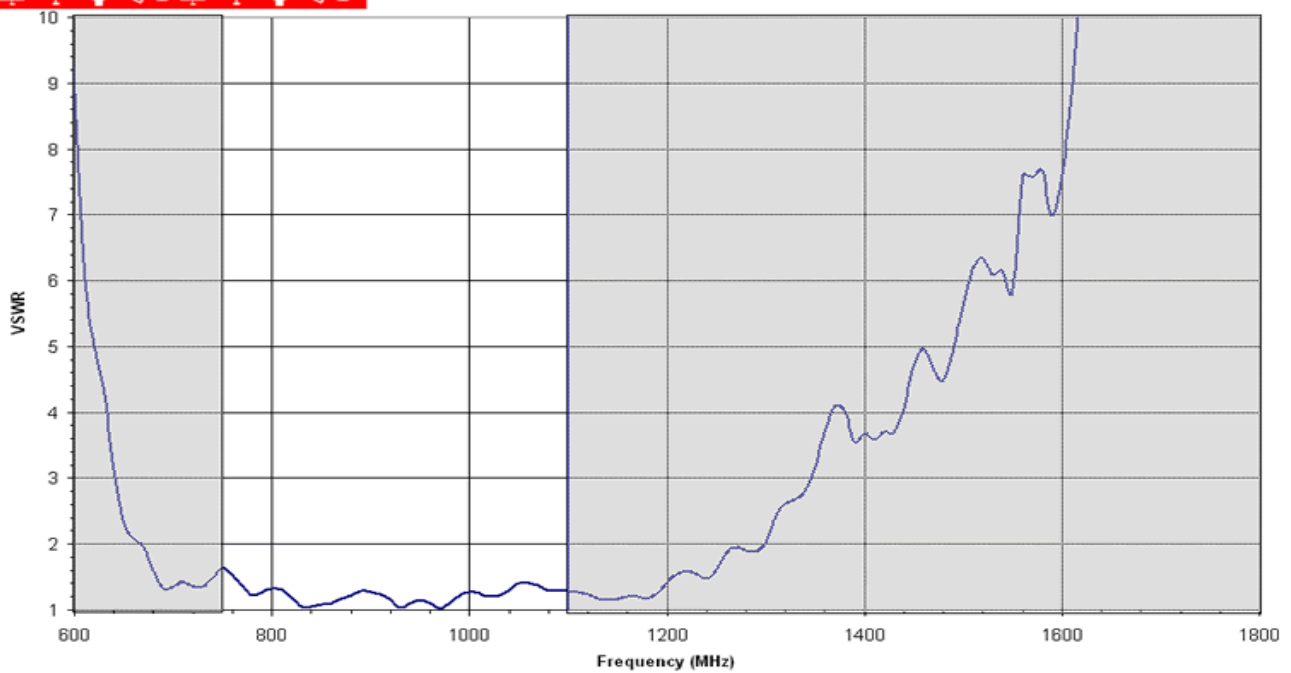
## Antenna Data 1 Meter horizontal Polarity Model: SAS-590-13



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## Antenna VSWR Model: SAS-590-13





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### **Physical Dimensions:**

Width: 19.75 in. (50.2 cm)

Height: 22.75 in. (57.8 cm)

Length: 23.7 in. (60.2 cm)

Weight: 18.5 lb.'s (8.4 kg)