

<b>ANT S.r.l.</b> Via della Concordia, 4 – 37036 S. Martino B/A (VR) - Italia Tel. +39 045 8781380 Fax +39 045 8795335 e-mail: <a href="mailto:commerciale@antsrl.eu">commerciale@antsrl.eu</a> <a href="http://www.antsrl.eu">www.antsrl.eu</a>	<b>DESCRIPTION</b>	
	<b>Multiband antenna 868/915 MHz,  GSM 900 MHz, GSM 1800 MHz  and UMTS 2100 MHz</b> omnidirectional antenna with SMA plug connection. ½ wave dipole antenna with radiating element specific for each frequency band.	

**SHAMAL-T**  
**868-915-GSM900-GSM1800-UMTS2100**

**P/N: B01-011**

**ELECTRICAL DATA**

Frequency range:	860-960 / 1710-2170 MHz
Impedance:	50 Ω
V.S.W.R. at 868/915 MHz:	< 2 : 1 *
V.S.W.R. GSM 900 MHz:	< 2 : 1 *
V.S.W.R. GSM 1800 MHz:	< 2 : 1 *
V.S.W.R. UMTS 2100 MHz:	< 2 : 1 *
Max Power:	10 W
Polarisation:	Linear
Radiation:	Omnidirectional
Gain at 868/915 MHz:	2.1 dBi
Gain GSM 900 MHz:	2.1 dBi
Gain GSM 1800 MHz:	2.1 dBi
Gain UMTS 2100 MHz:	2.1 dBi

\* Measured with antenna installed on plastic wall, reinforced concrete, brick and glass.

**MECHANICAL DATA**

Dimensions (about):	104x11x4 mm
Connection:	SMA plug (other on request)
Cable:	RG174 3 m (other on request)
Operating temperature:	-40° / +80°C
Weight (about):	0.050 kg
Material:	Thermoplastic elastomer (Overmoulded antenna)
Radiating element's material:	Copper



**Protection against oxidation:** the antenna is designed to be able to withstand the worst climatic conditions and so that the oxidation of its parts is prevented: the plastic parts are made of raw materials resistant to external environmental agents.

**Protection against accidental hits:** The antenna is designed making sure persons are protected from accidental hits against its projecting parts: the body of the antenna is made of soft material.

**RoHS directive (2002-95-CE):** The antenna is RoHS compliant.

**MOUNTING INSTRUCTIONS:**

Please connect the antenna to a SMA socket connector. Before installing the antenna, please make sure to unravel the cable bundle and to properly clean the surface on which the antenna is to be placed.

**WARNING:**

For a correct installation please mount the antenna so that it is at least 5 cm apart from any metallic wall. Performances are influenced by the location the antenna is installed in, we advise to check operation, in order to identify the best performance before installing the antenna.

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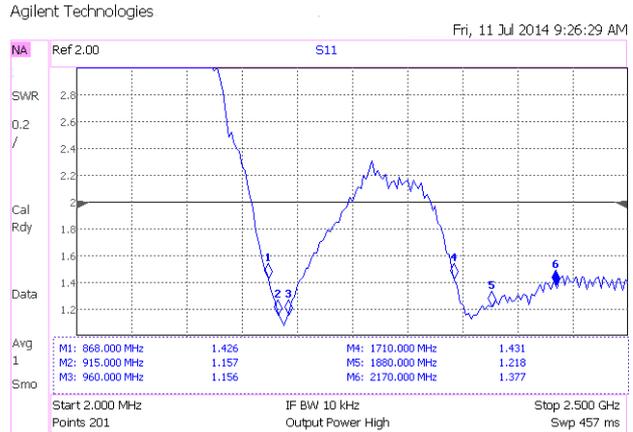
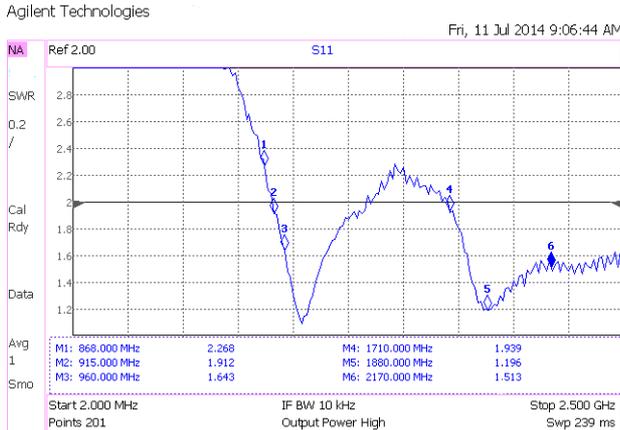
## SHAMAL-T

### 868-915-GSM900-GSM1800-UMTS2100

### P/N: B01-011

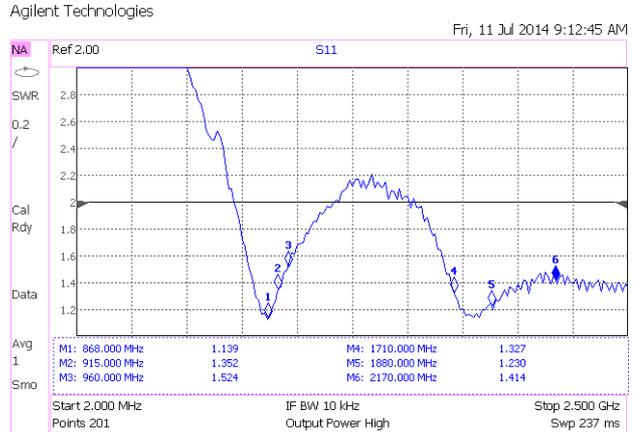
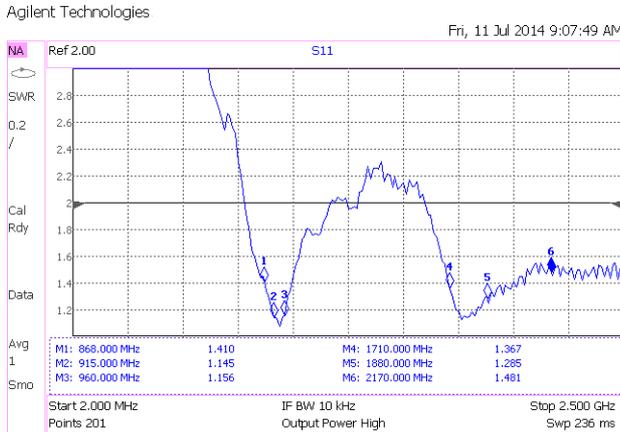
**V.S.W.R. (measured in the air)**

**V.S.W.R. (measured on glass wall)**



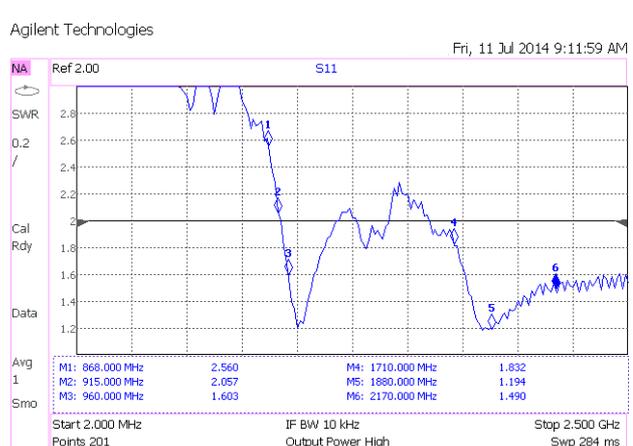
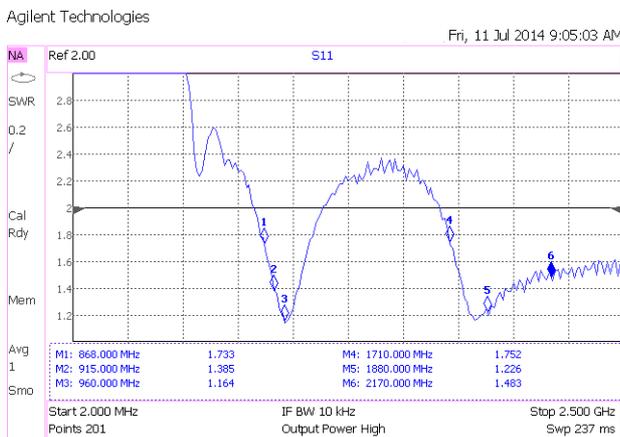
**V.S.W.R. (measured on brick wall)**

**V.S.W.R. (measured on reinforced concrete)**



**V.S.W.R. (measured on plastic box)**

**V.S.W.R. (measured 5 cm from metal sheet)**



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