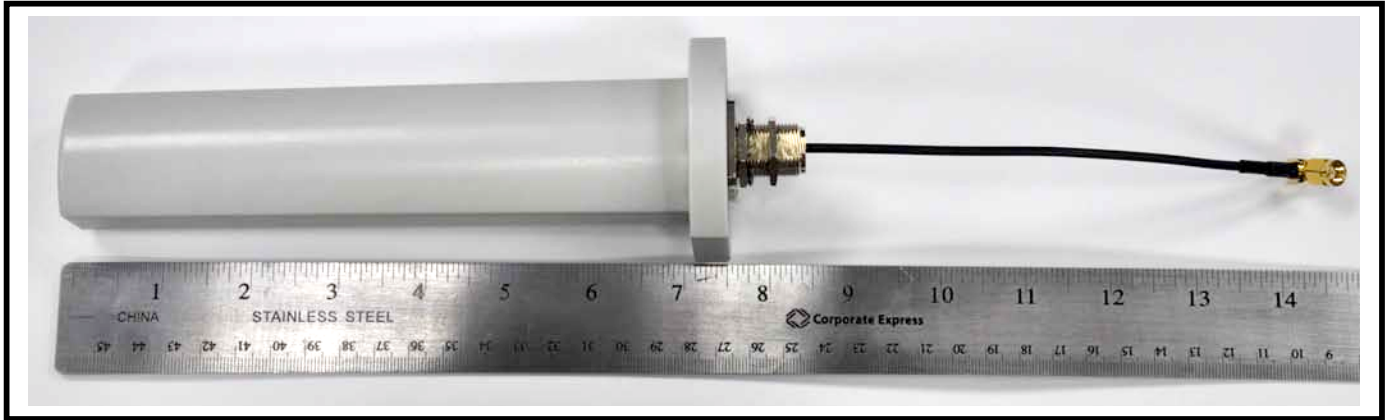




Picture of the Antenna



Application

The WPANT30019-SA antenna is a Highly Efficient, 2 dBi True-Omni Directional Antenna that can be used by any repeater system in the ISM bands in order to maximize the Coverage Radius. The Antenna Radiation Pattern is Symmetric along the axis & has a perfect donut shaped 3D pattern at the main frequency. It comes with a 7 inches RG174 cable and right angle SMA Male connector. This Antenna can be mounted to any surface and the performance will remain unchanged.

WP Wireless can assist your engineers to optimize mounting positions for these antennas in your specific application and can further assist to trouble shoot system integration issues such as TRP/TIS and FCC requirements. WP Wireless specializes in developing customized Antenna solutions. Please contact sales@wp-wireless.com with your specific application requirements.

Electrical Properties

Parameter	Antenna Performance	
Operating Frequency [MHz]	902 – 928 MHz	2.4 – 2.5 GHz
Recommended Impedance of the customer Radio Module[Ω]	50Ω	50Ω
VSWR - Typical	<1.5:1	<2.5:1
Peak Gain [dBi] (Typical)	2 dBi	2.5 dBi
Efficiency [%] (Typical)	90%	80%
Polarization	Linear	Linear
Pattern	True-Omni Directional	True-Omni Directional
Accepted Power [W] (Max)	2 Watts	2 Watts



Mechanical / Environmental Properties

Item	Value
Total Antenna Height	8.6" (from the bottom of the Connector to the top of the Radome)
Antenna Base	2.72" max dimension
Antenna Color	Cool Grey
Metal Base	Aluminium, Black color
Antenna Plastic Radome	Polycarbonate + ABS, Grey color
Cable	178mm RG174 (from the edge of the Metal Mount)
Connector	Right Angle SMA Male
Operating / Storage Temperature	-40°C to +90°C
Environmental	Salt Spray Resistant, Water Ingress Resistant, UV Resistant, Ageing Resistant, Meets standards for UL 94V-0
Hazardous Materials	RoHS compliant
Packaging	Meets ISTA2A Standards

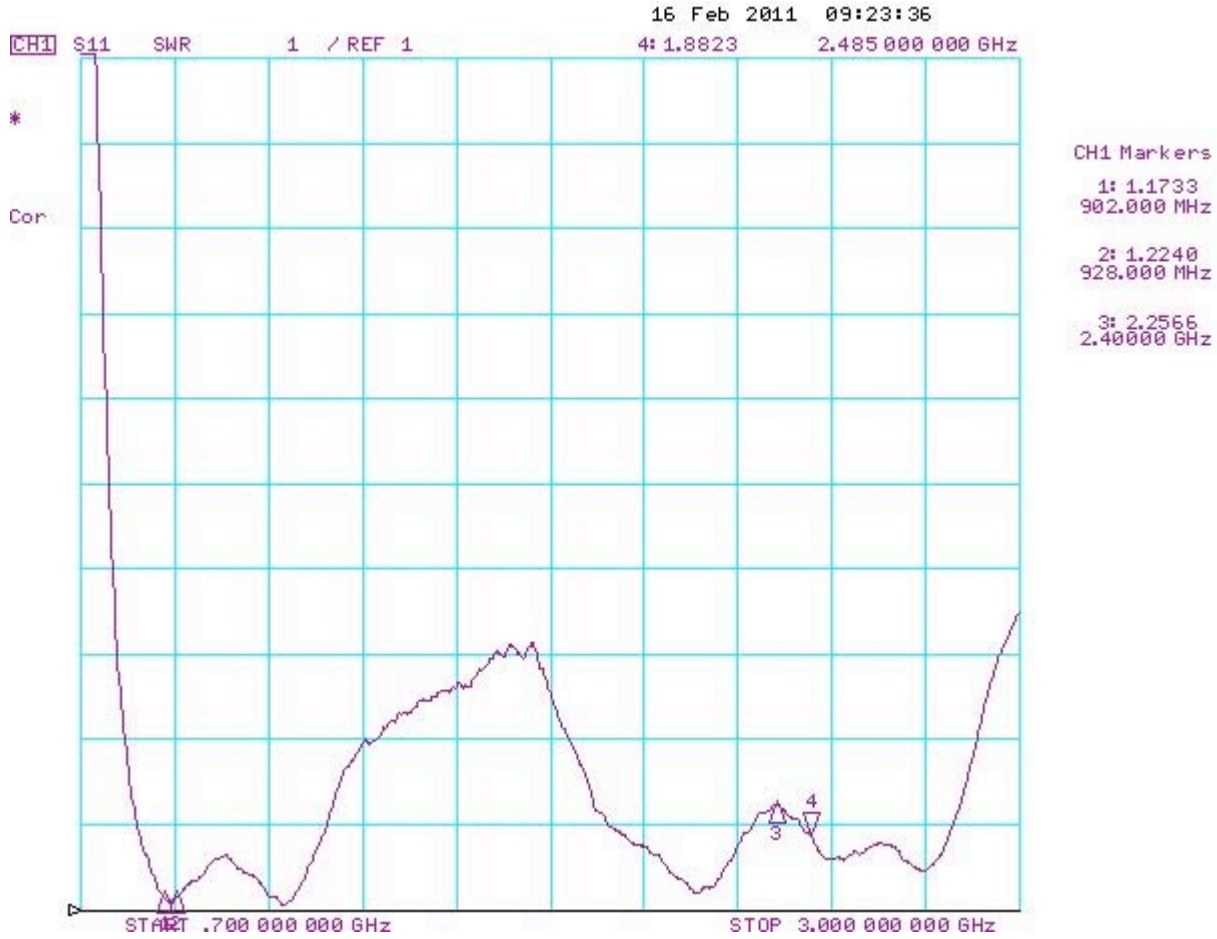
Pictures of the Antenna (Antenna itself and as mounted on a Metal Box)





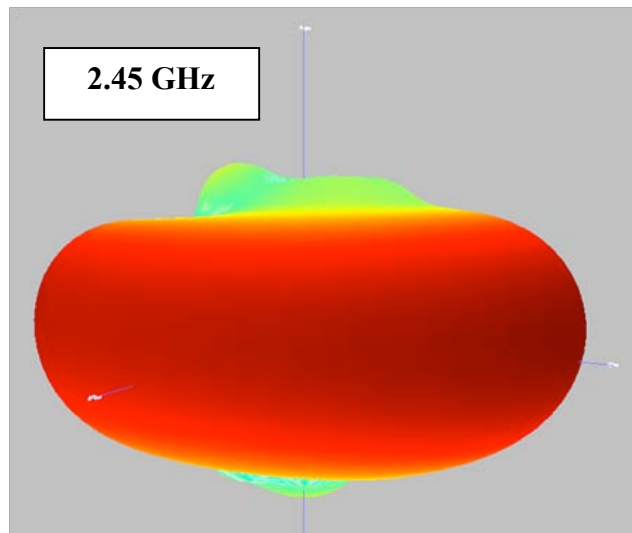
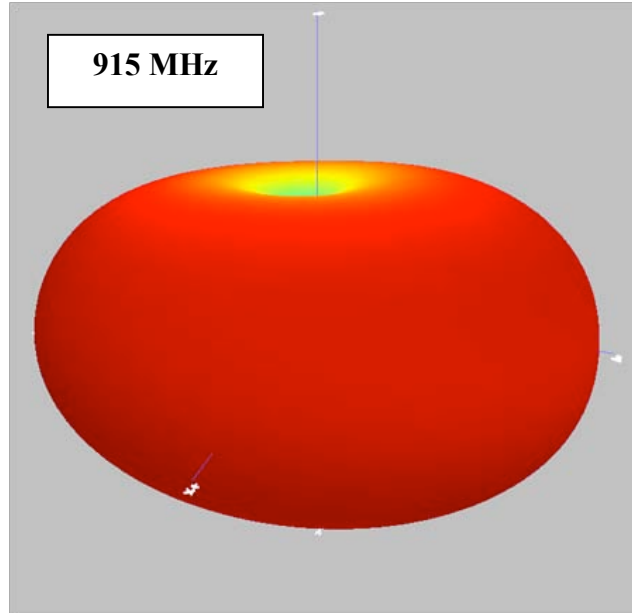


VSWR of the Antenna (as installed on a Metal Box)





3D Radiation Pattern of the Antenna



Note: The Radiation Patterns might appear little tilted. However, this is not because of the Antenna. This is due to the tolerance in positioning of the Antenna in the 3D Anechoic Chamber.