



## **octoScope Awarded NSF Research Grant for Work on Test Methodology for MIMO Over the Air Testing in a Small Anechoic Chamber**

MARLBORO, MA -- Jul 6, 2012) - octoScope, Inc. today announced that it has received a research grant from the National Science Foundation (NSF) to work in collaboration with University of New Hampshire to advance wireless certification test methodology.

This Small Business Technology Transfer (STTR) Phase I project will investigate the feasibility of using a small controlled environment for over-the-air (OTA) testing and validation of multiple antenna radio systems for next generation wireless networks. With the prevalence of multiple-input multiple-output (MIMO) communications systems for next generation wireless networks, new test and measurement solutions and standards will be required. "Certification of next generation devices is an expensive and time-consuming process," said Fanny Mlinarsky, President of octoScope and Principal Investigator (PI) on this project. "The challenge of testing MIMO systems is the need to emulate real-life multipath environment with signal components clustered around the receiver." This project aims to reduce the size and resources required to perform MIMO/OTA testing. "The proposed research will investigate methods of reducing the physical dimensions of an anechoic chamber used for MIMO/OTA testing while still accurately emulating statistical properties of the radio channel," said Nicholas Kirsch, Assistant Professor at the University of New Hampshire and Co-PI. The outcome of this research will have a significant impact on the cost of testing and validation.

The octoScope-UNH team's work on this research has the potential of reducing cost of wireless device certification, making broadband connectivity more affordable to a wider population. The feasibility of using small anechoic chambers for test and certification of new generation MIMO wireless devices can enable more companies to compete with the established vendors. Smaller and more affordable chambers also hold the promise of expanding the number of research facilities and laboratories that can contribute their findings and thus facilitate the deployment of new generation radio technology.

### **About octoScope**

octoScope offers wireless test solutions and services to companies building or deploying modern communications devices and networks, including LTE and Wi-Fi. octoScope's test solutions include a family of octoBox™ small anechoic chambers and octoFade™ channel emulation logic.

### **Press contact**

Fanny Mlinarsky  
President  
octoScope  
+1.978.222.3114  
[fm@octoscope.com](mailto:fm@octoscope.com)