



## News

*For Immediate Release*

# Open Mobile Video Coalition Releases VHF Propagation Model, Giving Guidance to Broadcasters in “High VHF” Channels 7 through 13

**WASHINGTON, Dec. 21, 2012** -- The Open Mobile Video Coalition today released a new Predictive Model for reception of High VHF (Channels 7 to 13) Mobile TV signals. The new model is intended to predict signal coverage in automobiles with an antenna mounted on the vehicle, in a handheld unit operating outdoors, and with a handheld unit operating indoors. Broadcaster radio-frequency (RF) experts can use this new model to predict future coverage of existing or future transmission facilities. The new report complements an earlier UHF Predictive Model that detailed reception characteristics for broadcasters operating on channels 14 and higher.

The new 20-page VHF Propagation Model report can be downloaded here:

[http://www.nab.org/documents/television/mobiletv/OMVC\\_Mobile\\_Modeling\\_VHF\\_122012.pdf](http://www.nab.org/documents/television/mobiletv/OMVC_Mobile_Modeling_VHF_122012.pdf)

“Mobile TV is designed to be transmitted alongside the same digital TV broadcasts that bring local news, weather, traffic, sports, and favorite programs to viewers in high-definition. But the signal qualities of Mobile TV are quite different than HDTV transmissions, because reception antennae in Mobile TV receivers are usually lower to the ground and always on the move. We want broadcasters transmitting on VHF channels 7 through 13 to be aware of what transmission methods best serve a viewer who is walking, or a passenger who is watching while riding in a car,” said Anne Schelle, executive director of the Open Mobile Video Coalition, which will soon integrate its activities with the National Association of Broadcasters.

“While there are different models used to predict broadcast signal coverage, we’ve opted for a ‘semi-empirical’ method that uses a blend of actual field reception data and theory. With information about the local terrain, antenna height, frequency, and polarization as well as details about the receiver and atmospheric conditions, we can predict signal strength for mobile broadcasts with this model,” Schelle said. The results are local maps that show where Mobile DTV reception can be expected to be robust. Subsequent field testing with automobiles showed the predictive model to accurately correlate to actual conditions.

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### About the Open Mobile Video Coalition

Representing over 900 TV stations across the country, the Open Mobile Video Coalition is a voluntary association of television broadcasters whose mission is to accelerate the development of mobile digital television in the United States. The OMVC is composed of 36 members that own and operate over 500 commercial television stations, as well as the Association of Public Television Stations, Corporation for Public Broadcasting and the Public Broadcasting Service, which represent an additional 360 public television stations. Membership in the OMVC is open to all U.S.-based television broadcasters. OMVC also includes device and transmission equipment manufacturers and software and middleware providers who are part of the Mobile DTV



Forum, which works collaboratively with OMVC broadcast members to advance the rollout of Mobile DTV products and services. For more information, please visit: [www.OMVC.org](http://www.OMVC.org).

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