



SHURE

ELECTROMAGNETIC COMPATIBILITY LABORATORY

TEST REPORT

TEST REPORT TITLE: Electromagnetic Compatibility Tests of the Shure PA411 Antenna Combiner

TEST ITEM DESCRIPTION:

The Shure PA411 Antenna Combiner distributes DC power and RF signal for up to four transmitters. The compact half-rack system significantly reduces the amount of antennas and power supplies needed when using multiple systems. This product is designed to be used primarily by stage musicians and performers.

For: Shure Incorporated
5800 West Touhy Avenue
Niles, IL 60714

Project ID Number: SEL-016

Date Tested: May 1, 2014 – May 23, 2014 and July 22, 2014

Test Personnel: Juan Castrejon, Lovell Cueto

Test Specification: FCC Part 74, Subpart H – Low Power Auxiliary Stations
IC RSS-Gen – General Requirements and Information for the Certification of Radio Apparatus
IC RSS-123 – Spectrum Management and Telecommunications Radio Standards
Specification: Licensed Low-Power Radio Apparatus

TEST REPORT BY: *Juan Castrejon* SIGNATURE EMC Senior Engineer POSITION 8/19/14 DATE

APPROVED BY: *Juan Castrejon* SIGNATURE EMC Senior Engineer POSITION 8/19/14 DATE

H. PHOTOGRAPHS OF THE TEST SETUPS

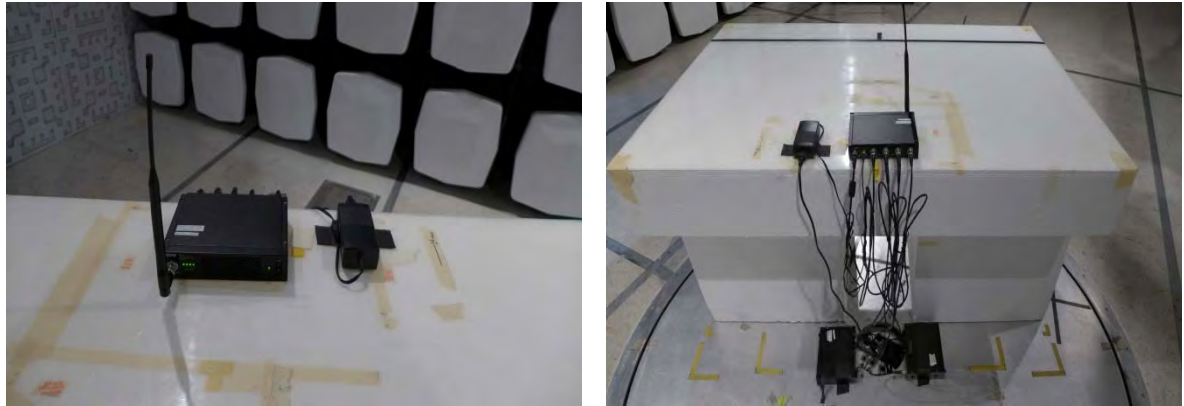


Figure H.1: PA411 Antenna Combiner Test Setup



Figure H.2. Setup of RF Power Output Measurement



Figure H.3. Setup of Frequency Stability Measurement

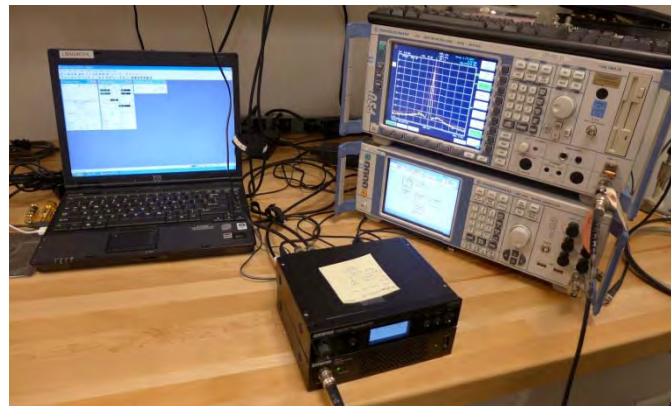


Figure H.4. Setup of Occupied Bandwidth Measurement



Figure H.5. Test Setup for Spurious Emissions 30MHz to 1GHz and 1GHz to 7GHz



Figure H.6. Test Setup for Conducted Emissions – Power Lines



Figure H.7. Setup of Spurious Emissions at Antenna Terminals Measurement



Figure H.8. Setup of Modulation Characteristic Measurements