

TRANSMITTER TECHNICAL REPORT

The following information is provided to support the technical performance of the EM500 HE DIG PLUS COMPACT FM transmitter. The information is supplied for broadcast FM service according to applicable portions of Part 2, Part 73, and Part 74 of the FCC Rules.

The information in this report is provided in support of verification that the transmitter meets the appropriate requirements. Measurements outlined below were recorded of spectrum and other data to demonstrate compliance with FCC Rules and Regulations

1. Power Output Measurements
2. Frequency stability tests versus AC input voltage and temperature
3. Measurements to demonstrate the transmitter meets the FM emission mask and pre-emphasis specified in FCC Rule 73.317.
4. Measurement of cabinet radiation for spurs and harmonics as specified in FCC Rule 2.1053 and Rule 2.1057
5. Measurements to demonstrate the transmitter meets the FM stereophonic sound transmission requirements as specified in FCC Rule 73.322.

Measurements for power output, occupied bandwidth, stereophonic transmission, and emission mask compliance were conducted at the 500 Watt power output level.

The test equipment used for the measurements is listed at the end of this document.

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