

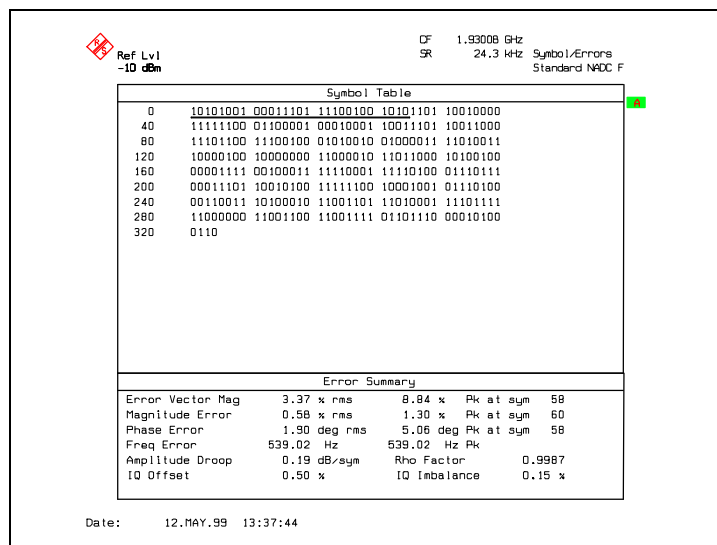
EXHIBIT 15**Section 2.1047 Measurements Required: Modulation Characteristics**

The TDMA modulation utilized by the PCS-TDMA Dual Radio Module (PDRM), 44WR53, is the standard $\pi/4$ differentially encoded quadrature phase shift keying ($\pi/4$ DQPSK). The modulation accuracy measurements were performed with all 3 TDMA time slots modulated with a pseudo-random bit stream. Measurements were made at the PDRM output terminal on the backplane, with PDRM tuned to 1) the lowest settable PCS channel: A-Block Ch 2 1930.08 MHz, 2) mid PCS Band: B-Block Ch 917 1957.53 MHz, and 3) the highest settable PCS channel: C-Block Ch 1998 1989.96 MHz. The required modulation accuracy is specified in TIA/EIA/IS-138-A, July 1996, Section 3.3.2 Digital and in ANSI J-STD-010-1996, Section 3.3 Modulation Requirements. The “minimum standard”, or limitation, is stated that the RMS error vector magnitude shall be less than 12.5%.

Measurements were made with a Rohde & Schwarz Spectrum Analyzer 20 Hz to 26.5 GHz FSEM, Model 1079.8500.30, calibrated as required for ISO-9001 compliance. The measurement results and test set-up block diagram are included.

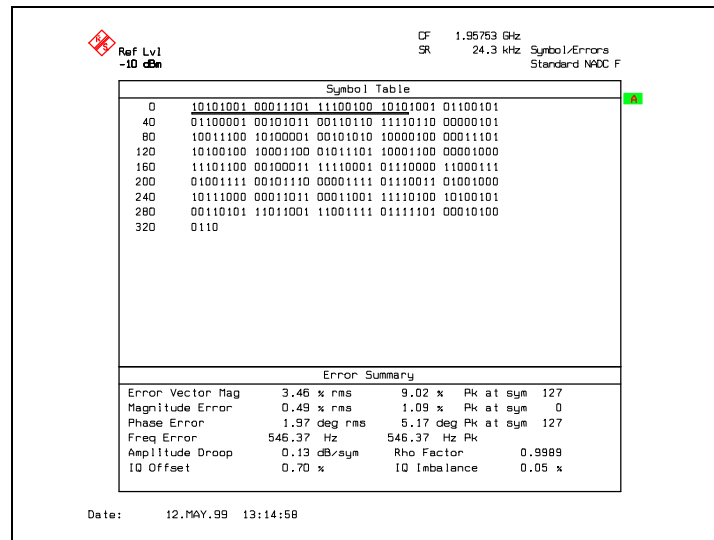
RESULTS:

The measurement data below demonstrates that the PCS-TDMA Dual Radio Module (PDRM), 44WR53, is in full compliance with the modulation accuracy requirements specified in TIA/EIA/IS-138-A and in ANSI J-STD-010-1996. The error vector magnitude is less than 12.5% across the PCS Frequency Band 1930.08 – 1989.96 MHz.



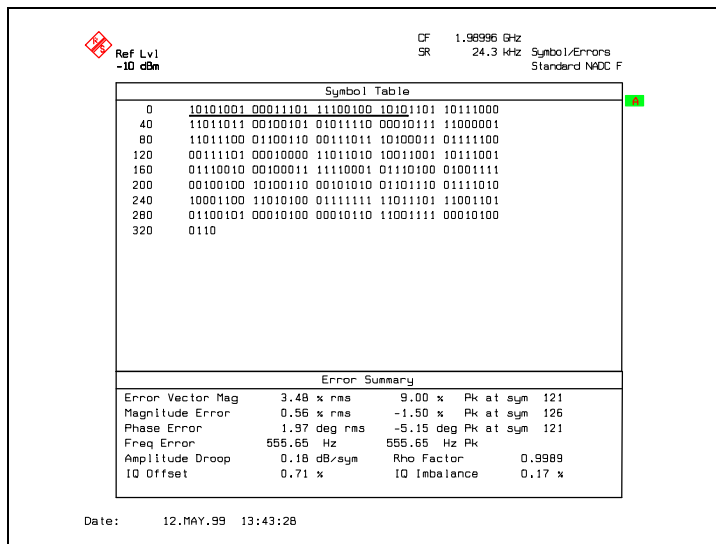
Modulation Accuracy: PCS-TDMA Dual Radio Module (PDRM), 44WR53, output tuned to A-Block Channel 2, 1930.08 MHz
Error Vector Magnitude = 3.37% rms

EXHIBIT 15



Modulation Accuracy: PCS-TDMA Dual Radio Module (PDRM), 44WR53, output tuned to B-Block Channel 917, 1957.53 MHz

Error Vector Magnitude = 3.46% rms



Modulation Accuracy: PCS-TDMA Dual Radio Module (PDRM), 44WR53, output tuned to C-Block Channel 2, 1989.96 MHz

Error Vector Magnitude = 3.48% rms

EXHIBIT 15

Test set-up for measuring the modulation accuracy of the PCS-TDMA Dual Radio Module transceiver.

