

Overview

VeEX’s proprietary measurement, **VeGrade™**, grades the quality of a single Digital QAM channel. VeGrade combines multiple metrics to evaluate the channel and gives it a Digital Grade from A+ to F. It helps identify those channels impacting service, thereby necessitating further troubleshooting. It serves as a useful tool for evaluating the end consumer’s Quality of Experience (QoE).

The VeGrade feature continuously and rapidly monitors the quality of the Digital Channel and provides a comprehensive metric (VeGrade) which is easily understood by any field technician. This rapid monitoring allows the meter to capture bursty intermittent issues otherwise potentially missed by traditional measurements (MER, BER, Signal, etc.).

Using VeGrade

The VeGrade feature is located in the Single Channel mode. Once a Digital Channel is locked on, the VeGrade appears at the bottom of the screen (Figure 1). The Histogram button displays data for the last 5 minutes of the active connection (Figure 2).

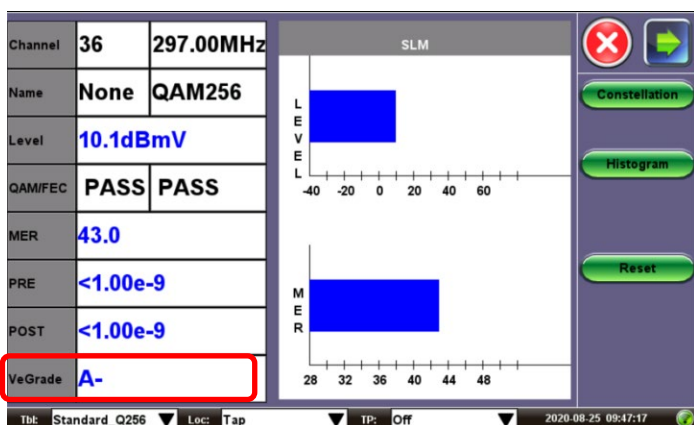


Figure 1: VeGrade in Single Channel Mode on CX310 test set

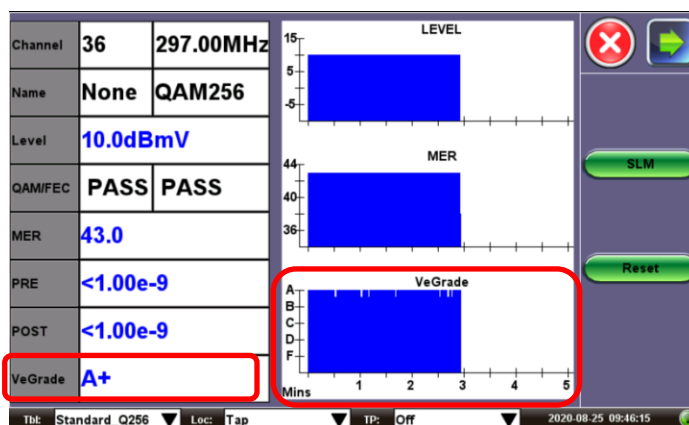


Figure 2: VeGrade Histogram on CX310 test set

VeGrades Explained

Grade Range	Indicates
A – B+	No impairments detected and high probability of good customer experience.
B – B-	Impairments that are likely corrected by QAM Adaptive Equalization and FEC mechanisms and unlikely to impact service.
C+ – F	Impairments that are service impacting to the end subscriber. Further troubleshooting needed.

About VeEX

VeEX Inc., a customer-oriented communications Test and Measurement company, develops innovative test and monitoring solutions for next generation telecommunication networks and services. With a blend of advanced technologies and vast technical expertise, VeEX products address all stages of network deployment, maintenance, field service turn-up, and integrate service verification features across Copper, Fiber Optics, CATV/DOCSIS, Mobile 4G/5G backhaul and fronthaul, next generation Transport Network, Fibre Channel, Carrier & Metro Ethernet technologies, WLAN and Synchronization.

2827 Lakeview Court, Fremont, CA 94538, USA | Tel.: +1 (510) 651-0500 | Fax: +1 (510) 651-0505 | info@veexinc.com | www.veexinc.com