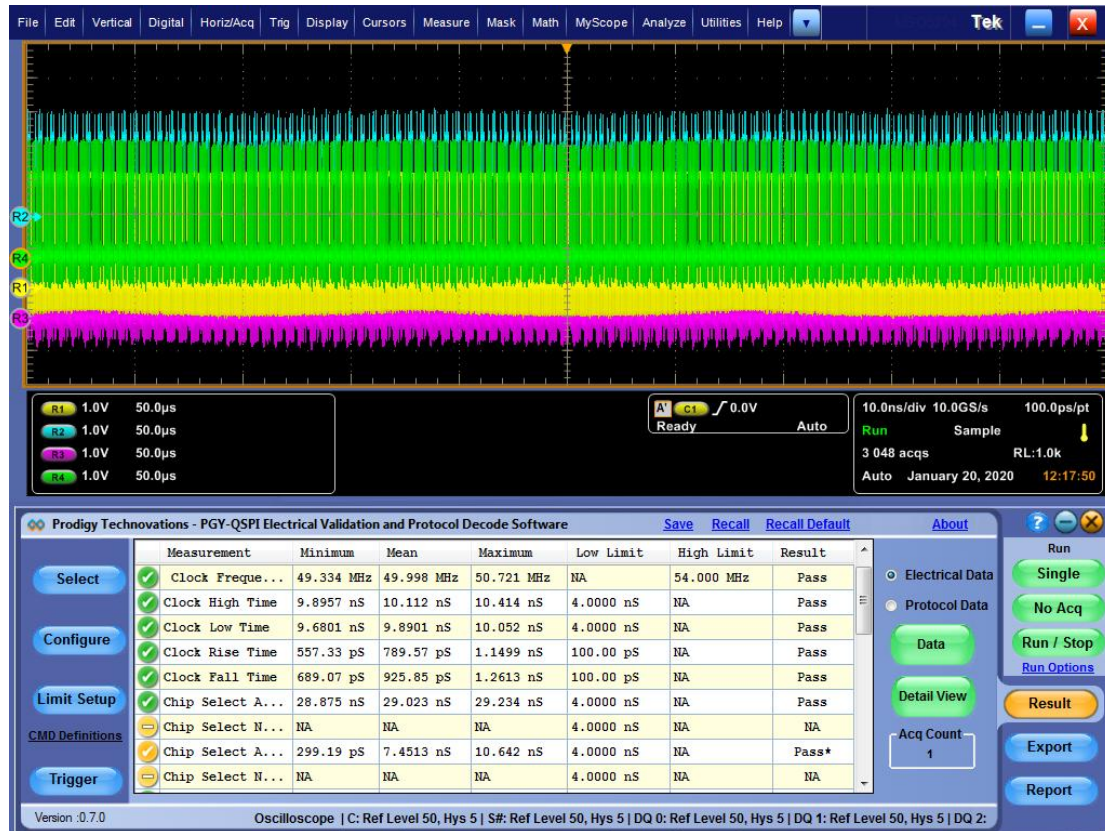


QSPI Electrical Validation and Protocol Decode Software



QSPI Electrical Validation and Protocol Decode Software offers electrical measurements compliance testing and protocol decoding as specified in QSPI specification. PGY-QSPI Electrical validation and Protocol decode software runs in Tektronix Oscilloscope and provides electrical measurements and protocol decode at the click of a button. This allows engineers quickly check for QSPI compliance and flexibility to debug the failure. In addition to this engineer can decode the command and response of QSPI to debug the communication. PGY-QSPI takes advantage of digital channels of MSO and provides the decoding of QSPI data lines.

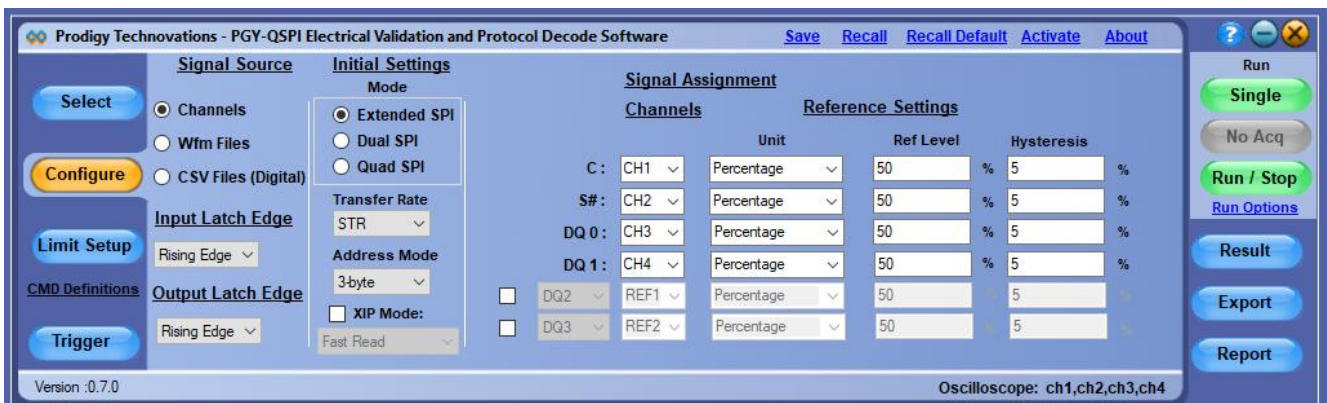
Key Features

- ❖ Single and Dual Transfer rate (STR/DTR).
- ❖ Supports electrical measurements and compliance testing for Ext SPI, Dual SPI, and Quad SPI.
- ❖ Supports Triggering on command index and on S# falling edge.
- ❖ Supports Analog and Digital Channels of Tektronix MSO.
- ❖ Automated electrical measurements with a customizable reference level of QSPI electrical signal.
- ❖ Customizable measurement limit setup for pass/fail validation of electrical signal to enable measurements.

- ✦ Ability to store the QSPI protocol data and electrical data in CSV and txt format.
- ✦ Report Generation.
- ✦ Supports offline analysis.

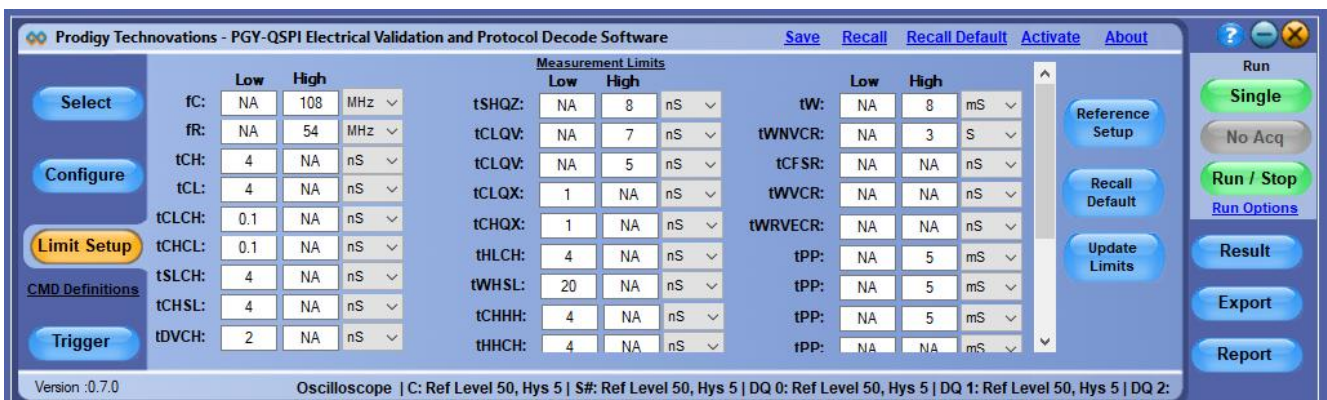
Configuration Panel

Configure panel helps in selecting the Signal Source, Such as Channels, Wfm Files, and CSV Files (Digital). Live Analog or Digital Channels of the oscilloscope can be used for analyzing the signal. The software decodes the data and displays both the protocol data and electrical measurements as shown below. The offline analysis is made using the stored .wfm files (Analog channels data) or from CSV files (Digital Channel data).



Limit Setup Panel

The Limit Setup tab helps to set up the limits and reference levels of each selected measurement. In order to characterize and validate QSPI signals, PGY-QSPI software provides a graphical measurement reference level setup to set the measurement reference level of QSPI signals.





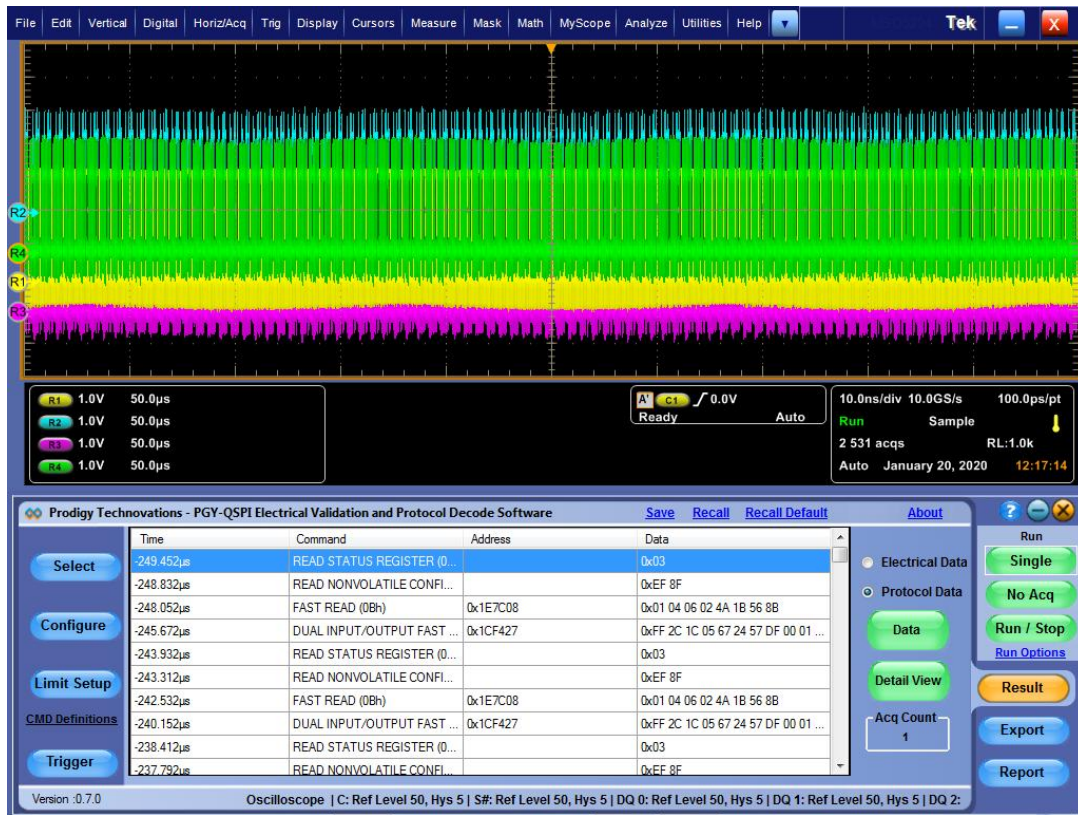
Electrical Measurements

PGY-QSPI software provides an extensive list of electrical measurements are (DTR not supported):

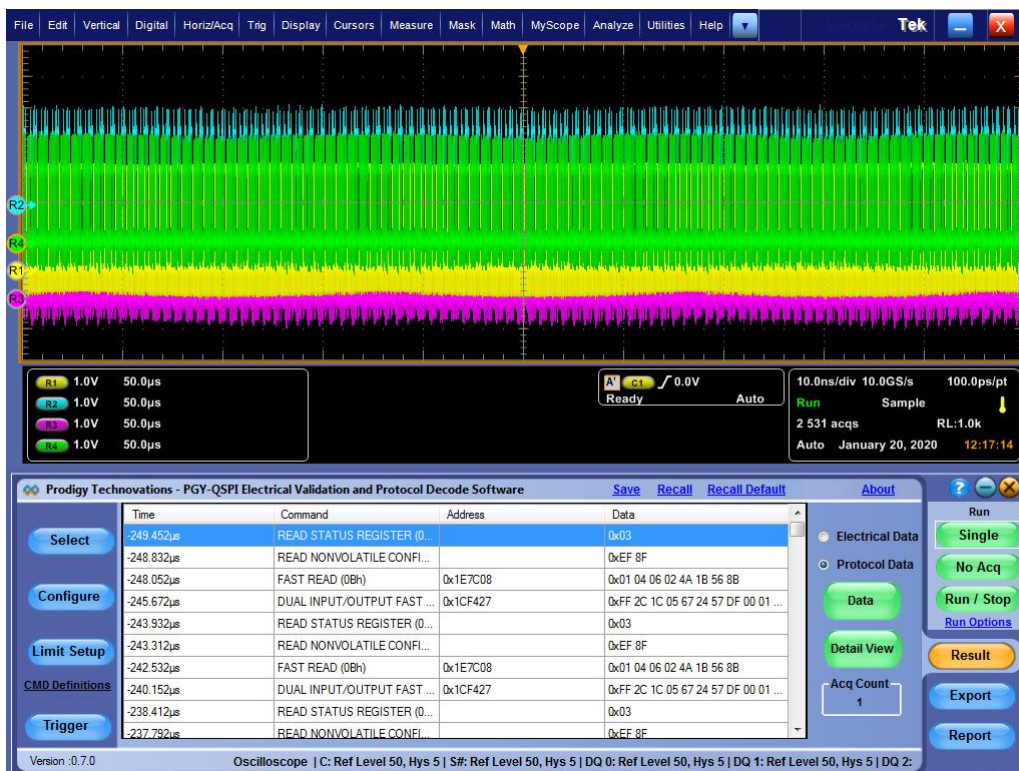
✓	Clock frequency for all commands other than reading
✓	Clock frequency for reading commands
✓	Clock High Time
✓	Clock Low Time
✓	Clock Rise Time
✓	Clock Fall Time
✓	S# active setup time (relative to the clock)
✓	S# not active hold time (relative to the clock)
✓	Data in setup time
✓	Data in hold time
✓	S# active hold time (relative to the clock)
✓	S# not active setup time (relative to the clock)
✓	S# deselect time after a READ command
✓	S# deselect time after a non READ command
✓	Output disable time
✓	Clock LOW to output valid under 30pF
✓	Clock LOW to output valid under 10pF
✓	Output hold time (clock LOW)
✓	Output hold time (clock HIGH)
✓	HOLD command setup time (relative to the clock)
✓	HOLD command hold time (relative to the clock)
✓	HOLD command setup time (relative to the clock)
✓	HOLD command hold time (relative to the clock)
✓	HOLD command to output Low-Z
✓	HOLD command to output High-Z
✓	Write protect setup time
✓	Write protect hold time
✓	Enhanced VPPH HIGH to S# LOW for extended and dual I/O page program

Protocol Decode

PGY-QSPI software provides an extensive list of electrical measurements are (DTR not supported):



In detail, the view links the selected command to the electrical waveform for easy debugging of protocol-related problems.





Tektronix Oscilloscopes Supported:

- DPO/MSO5000 series
- DPO7000 series
- DPO/MSO/DSA 70000 series
- MSO5 series, MSO6 series

All need to be windows 7 or higher OS based

Ordering Information:

The ordering information is as follows:

PGY-QSPI (shipment includes CD with PGY-QSPI Electrical Validation and Protocol Decode Software) License is locked to the oscilloscope.

Contact Information



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About Prodigy Technovations Pvt Ltd

Prodigy Technovations Pvt Ltd (www.prodigytechno.com) is a leading global technology provider of Protocol Decode, and Physical layer testing solutions on test and measurement equipment. The company's ongoing efforts include successful implementation of innovative and comprehensive protocol decode and physical layer testing solutions that span the serial data, telecommunications, automotive, and defense electronics sectors worldwide.