**CPRI SUPPORTED WITH ANRITSU MT1000A**

- **RRH Downlink Transmission**
  - RRH Uplink Interference & PIM Testing
  - Initiate the RRH for LTE waveform transmission; confirms RRH radio is working properly by transmitting LTE signal
  - By setting the LTE waveform to transmit at maximum power, you can check for PIM and external interference on the Uplink

- **VIP Fiber Connection Check**
  - OTDR measurement from BBU to RRH
  - Fiber Cleaning/Scope test is performed to ensure that each individual fiber end or SFP fiber port is clean and has no damaging scratches or pits that might impact circuit performance
  - FTTA (Fiber To The Antenna) Measurements: Optimized for measurement parameters such as distance range used for short optical fibers used in RRH base stations
  - Measurement results displayed as Fiber Visualizer and waveform eliminating analysis parameter settings

- **CPRI BERT measurement from BBU to RRH**
  - Testing to the "Passive Link" – validate the RRH and fiber:
    - BBUs and RRH are able to communicate with each other & L1 In-Band Protocol is working correctly
    - No L1 errors, alarms or lower layer issues
    - Fibers are installed properly
    - BERT (Requires loopback)
  - Ensures the transport network operates at desired CPRI rate

- **Screenshots and Close-out Reports**
  - Fast and easy CPRI site turn-up

- **RRH Transmitter Return Loss**
  - VSQR measurements
  - Once an LTE Waveform is being transmitted, the MT1000 can read from the RRH Return Loss and VSQR. The results can be judged against user settable limit values
  - In example below, the Return Loss Limit Pass/Fail threshold is set to 10.0 db. The Return Loss Value is shown as 22.1 db, and the Pass/Fail indication is PASS (color coded green)

- **Initialize the RRH**
  - Read & Rename the RRH Manufacturer Information
  - Once communications with the RRH is established, the MT1000A queries the RRH for the following configuration information:
    - Manufacturer
    - Model Number
    - Serial Number
    - Firmware
    - Frequency Range
    - Power
    - Master / Slave installed SFP’s
    - Option to Rename RRH

- **Reading the RRH Master & Slave SFP Data**
  - Display which type of SFP(s) is/are installed in the two ports on the RRH; Master and Slave.
    - Wavelength
    - Bit Rate
    - Vendor information

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**Equipment Room**

- **CPRI RF Spectrum Analyzer**
- **Video Inspection Probe (VIP)**
- **FTTA Fiber Visualizer**
- **CPRI BERT L1 Measurement**
- **Anritsu Network Master Pro Single Test Solution**
  - GUI Front-end and report management are embedded
  - Ideal for Novice Users with repeatable Test Requirements

- **CPRI RF Return Loss / VSQR**
- **CPRI RF RRH Initialization**
- **CPRI RF RRH Master & Slave SFP Data**