EMC LIVE 2016

Product Demo

ESW EMC Receiver

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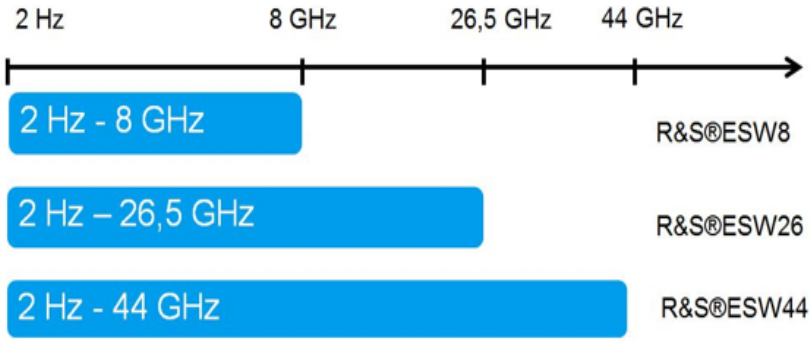
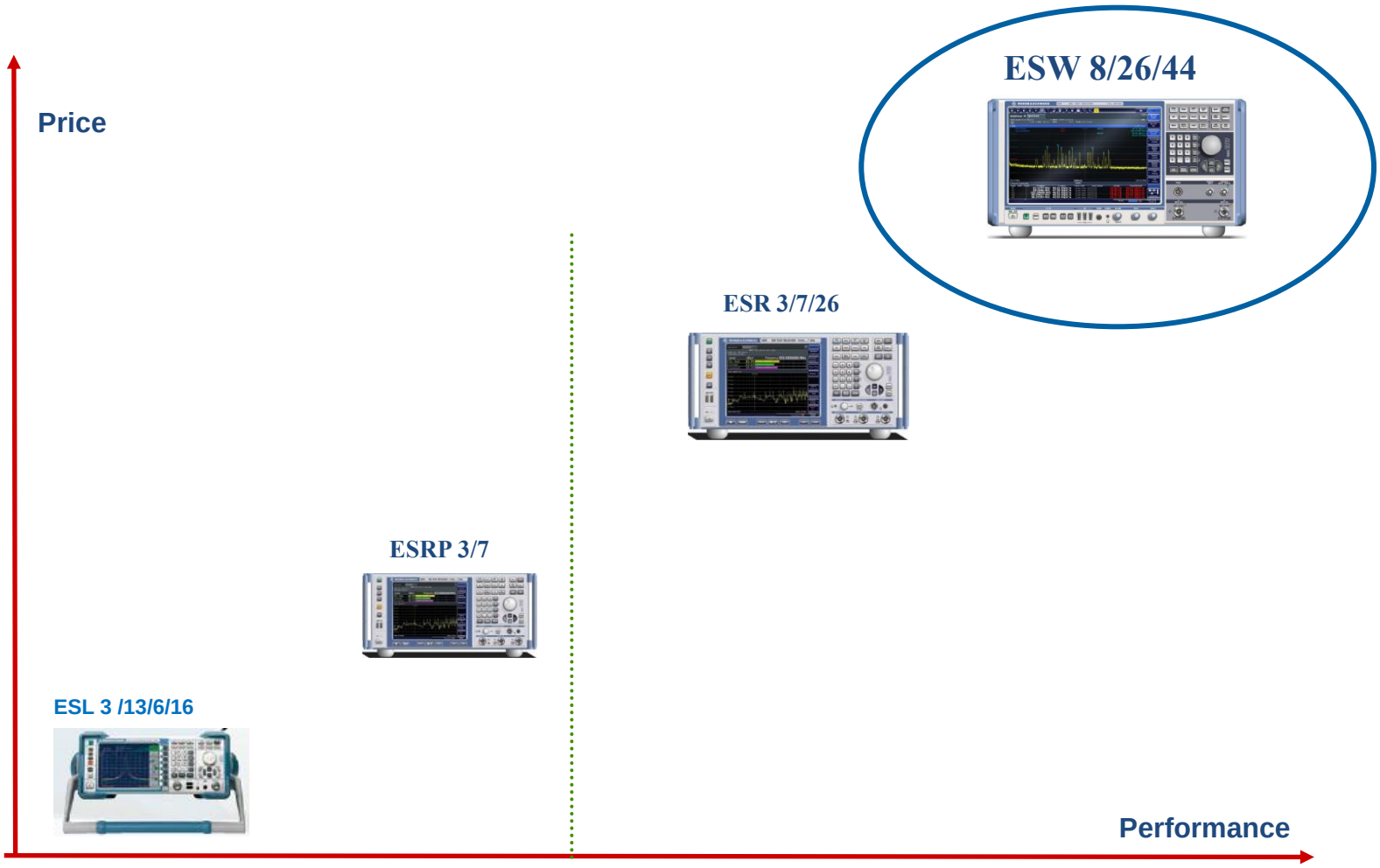
Bill Wangard is the EMI Receiver and Radio monitoring Product Manager at Rohde & Schwarz. He has 20+ years of RF and Receiver experience at Motorola and Rohde & Schwarz. Bill authored numerous patents at Motorola.

EMI Test Receiver

Compliance testing according to CISPR- and Mil-Standards



EMI Receiver Portfolio



Features of ESW

- The ESW becomes unique through the combination of the following features in a single instrument:

- EMI compliance measurements faster and more reliable than ever
  - Highest dynamic range and level accuracy in an EMI Test Receiver
  - Configurable pre-selection with pre-amplifiers and notch filters
  - With FFT-based high speed time domain scan standard-built-in

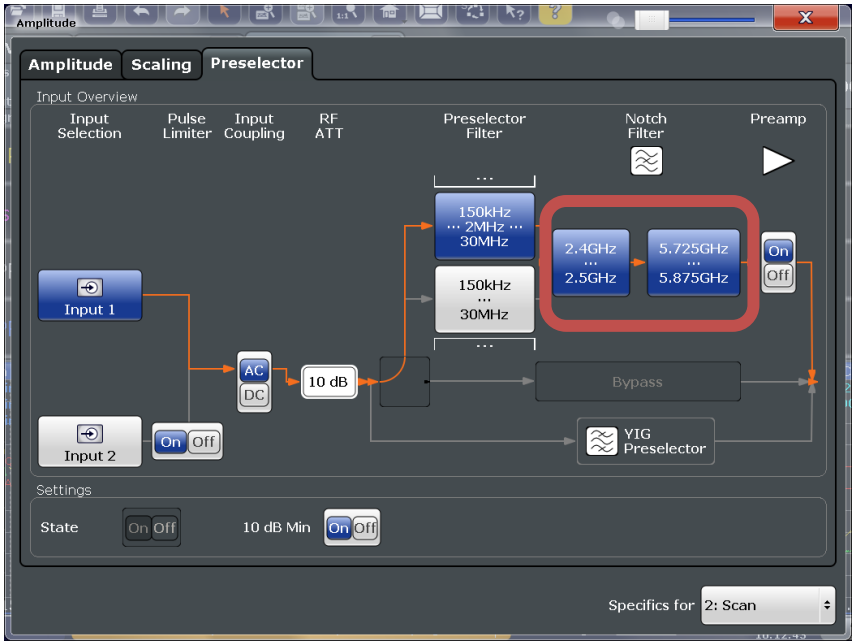
- Real-time analysis
  - 80MHz BW for real-time spectrum analysis and spectrogram view for diagnostics and debugging measures

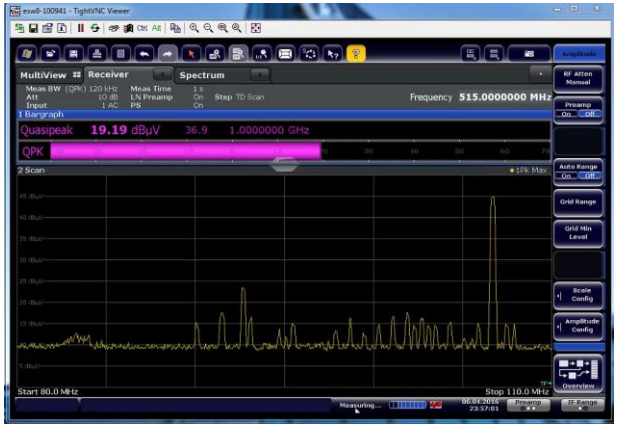
- Multi-View all measurements at a glance
  - With multiview windows on one screen and advanced parameter coupling

Features of ESW

RF Performance

- Configurable Pre-selection
- High 1-dB-compression point
- High sensitivity with a built-in preamp of 20dB gain
- Or with an 30-dB-preamp (LNA - option) in front of preselection
- Built-in pre-selection filters optimized to the requirements of a speedy Time-Domain-Scan
- Special filters such as 150 kHz HP, 2 MHz HP and Notchfilters for ISM bands suppression

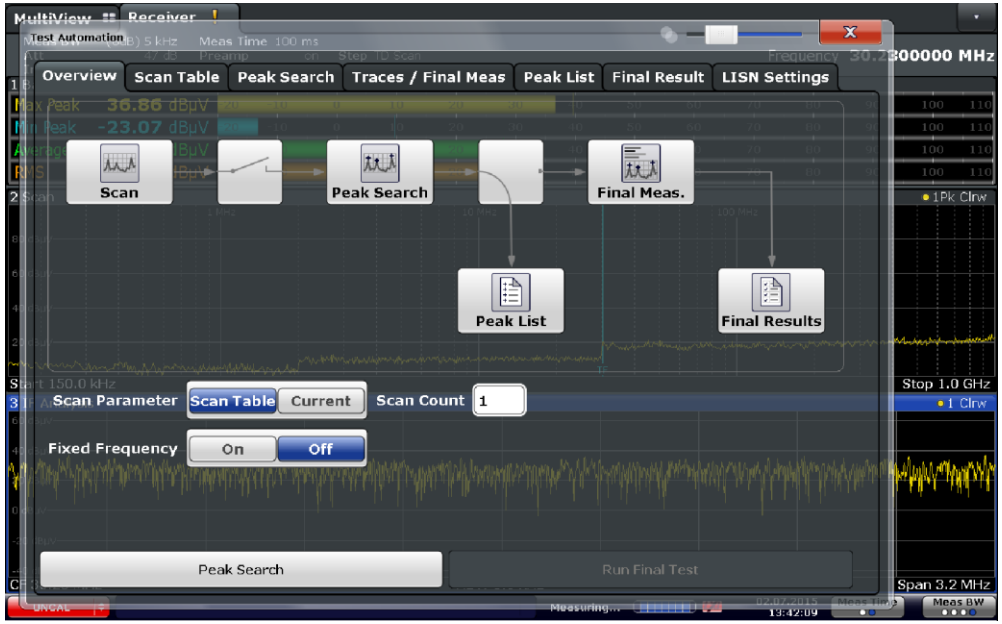




Features of ESW

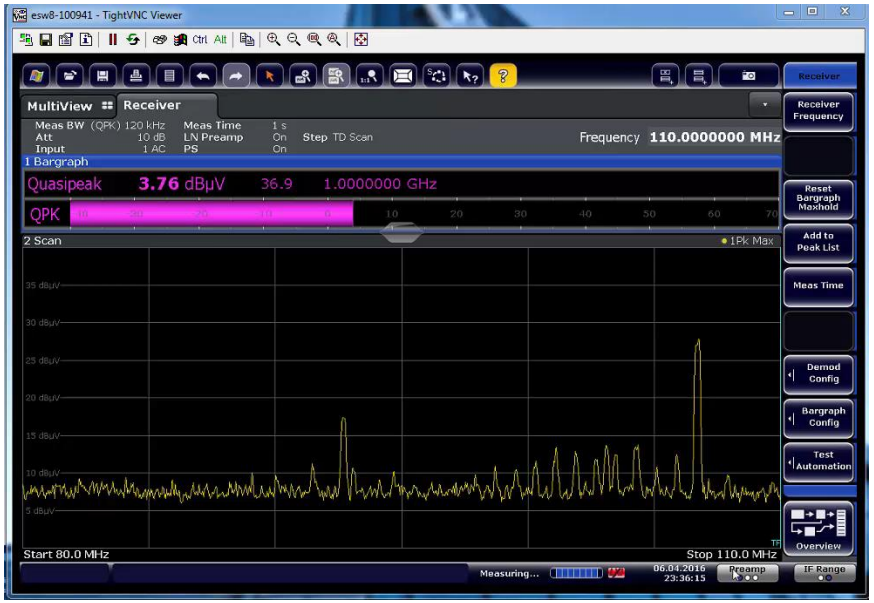
Automatic Test Automation Sequencing

- **Overview Block Diagram**
- **Scan table**
  - Customizable Frequency Ranges
  - Dwell Time
  - RBWs
- **Peak Search**
  - Record to Peak List
  - Choose Limit Line
- **Final Measurement**
  - Interactive Mode
- **Final Results**



Creating Limit Lines

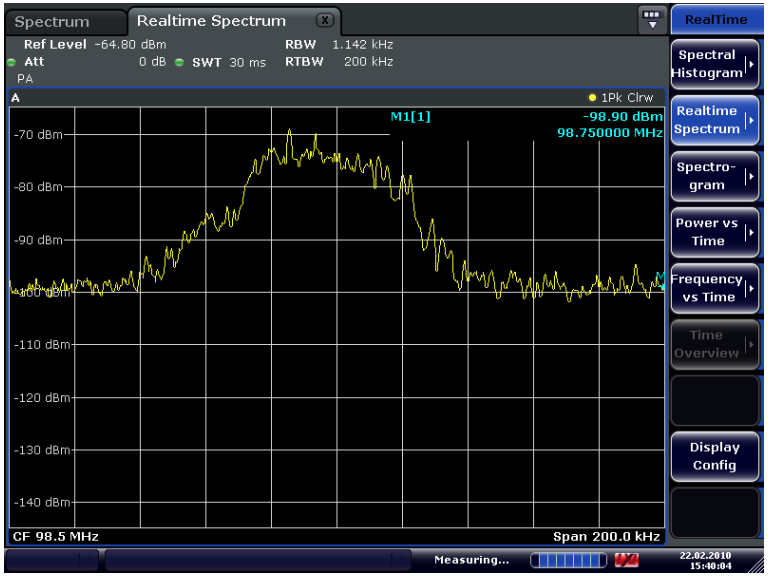
Freq (MHz)	Limit (dBuV)
80	13.0
85	13.0
95	17.0
100	17.0
110	35.0

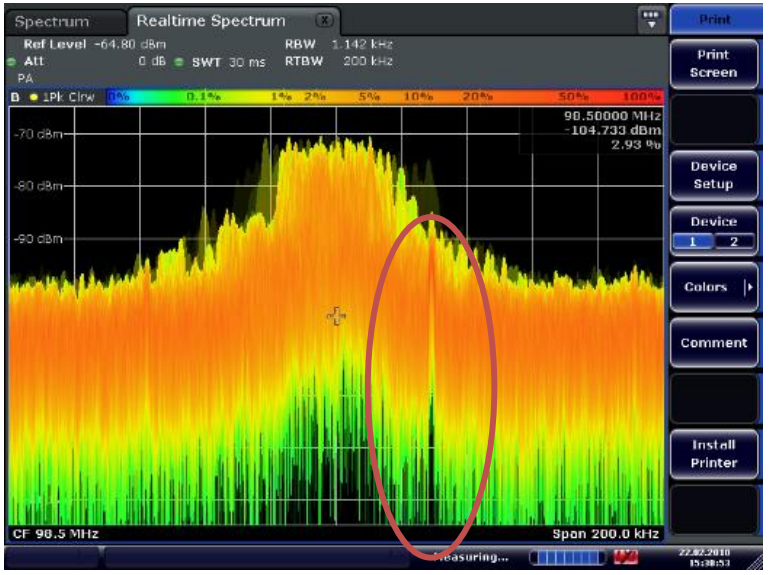


Features of ESW

Optional Real-time Analysis

- **Optional 80MHz Real-Time Analysis**
  - Seemlessly monitor disturbance spectra and quickly evaluate interference suppression measures
- **Real-time diagnostic and debugging tools**
  - Persistence Display
  - Spectrogram Display
  - Frequency Mask Trigger
  - IF analysis
  - Detect complex signals (covered/ hidden signals)





Features of ESW

Customizable Multi-View

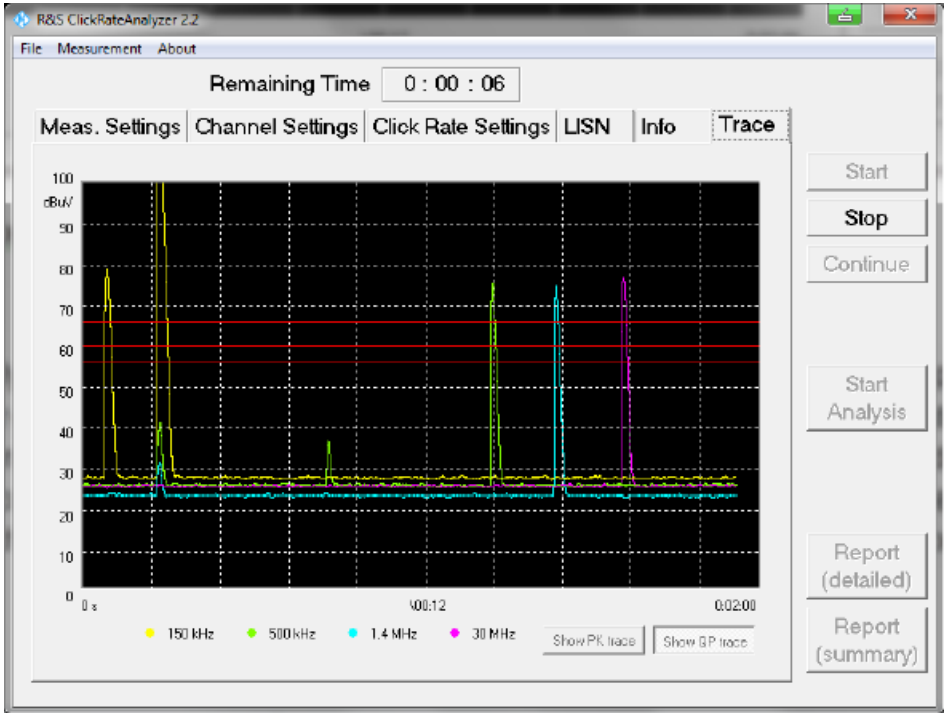
Features of ESW

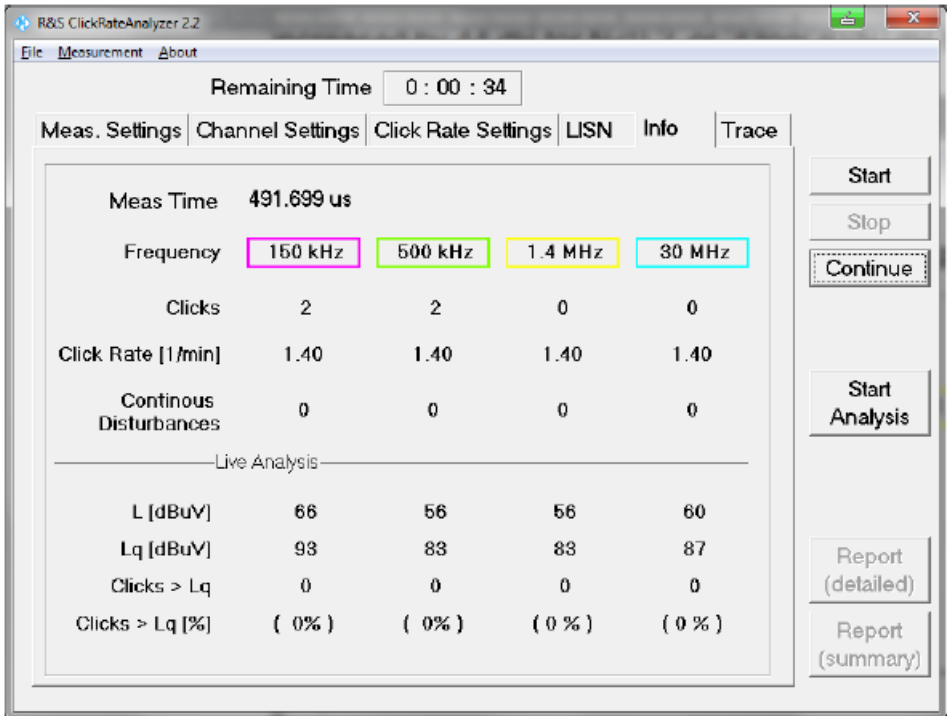
Enhanced Parameter Coupling

Features of ESW

4 channel click-rate analysis

4-channel-click-rate analysis installed directly on the instrument





Features of ESW

Automatic Test Reporting