

Instrument Software Revision History

Keysight M8920A Radio Test Set

Version M.31.03 (Release Date Nov, 2021)

Enhancement:

- LTE/LTE-Advanced FDD (N9080EM0E)
Support Interfering Signal exclude range setting
- LTE/LTE-Advanced TDD (N9082EM0E)
Support Interfering Signal exclude range setting
- Bluetooth (N9081EM0E)
Support Bluetooth AoA test with CTE

Issues Resolved:

- Audio spectrum averaging not working with certain ranges
- Auto scaling function can't be performed under ADEMod of radio test

Version M.29.02 (Release Date June, 2021)

Enhancement:

- Add Power Stat CCDF measurement for radio test
- Add Burst Power measurement as standard for radio test
- Change Audio Level Offset from linear to dB in Audio Generator
- Support Exponential mode in Average Mode for Burst Power, Occupied BW, ACP Graph, Rise/Fall Time, RF Spectrum

Issues Resolved:

Acquisition truncated error display in the radio test

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Version M.28.04 (Release Date Jan, 2021)

Issues Resolved:

- Vrms setting doesn't work properly in Audio Generator
- M9470A could not load reference cal data

Version M.27.03 (Release Date Sep, 2020)

Enhancement:

- Support PAVT with VMA Touch UI mode (N9054EM0E)
- VMA Digital Demodulation (N9054EM0E)
Support IQ Symbol Group Delay vs Time trace, Support Wi-SUN MR-OQPSK presets)
- WLAN 802.11ax measurement application (N9077EM1E)
SEM to support FFT spectrum w. one-shot IQ acquisition with WBW digitizer
- Bluetooth measurement application (N9081EM0E)
Support NFE in ACP and other power measurements
- Radio Test measurement (N9093EM0E)
Improve T/R High Power Atten Bypass warning
RF Generator, support amplitude increment unit: mV unit.
RF Generator, enable user set increment of AM rate
Audio Analyzer, extend the frequency from 80 kHz to 90 kHz
Audio Generator, enable audio frequency and level increment
Audio Generator, support RMS setting on level of audio generator

Issues Resolved:

- "User Preset" doesn't work as expected after setting the "Set Reference power"
Power Ref On/Off control is missing for Amplitude Setup
- Failed to output low level signal when Mod On
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Version M.26.02 (Release Date Apr, 2020)

Enhancement:

- IQ Analyzer: support saving IQ data in a various file formats (such as .mat)
- Radio Test Measurement (N9093EM0E): support setting “Steps for changing Audio Freq”
- Sweep Time Refactoring: reconcile Sweep Time between Swept, FFT, and Stepped Bucket cases
- Bluetooth Measurement (N9081EM0E): support initial frequency drift for BT 5.0
- WLAN Measurement (N9077EM1E):
 - Support Common Pilot Error in EVM metrics, 4096 QAM demodulation
 - Support analysis of 11ax PPDU of NDP Feedback
 - Support power over symbol trace in EVM
- VMA Digital Demodulation Measurement (N9054EM0E):
 - Support custom IQ constellation save/recall
 - Support OQPSK IQ Alignment for constellation display
 - Support DVB-S2X preset for 128/256 APSK

Version M.25.04 (Release Date Dec, 2019)

Enhancement:

- VMA Custom OFDM: support DRM presets
- VMA Digital Demodulation: support Tx BER for Digital Demodulation
- NB-IoT: support EUTRA carrier cell ID in In-band different PCI mode
- WLAN: support A-MPDU data decoding with per-subframe CRC check, Mean PSD to WLAN CHP, correct CRC result for inactive user (from "failure" to NAN")
- Bluetooth: support of initial frequency drift for BT 5.0
- Radio Test: add “Next Peak” function in RF Spectrum window Radio Test: add new type “Disconnect” to Output Ground setting

Issues Resolved:

- "Undefined Header" error when sending specific SCPI commands to change display power unit
- The modulated spectrum is inverted from 30 MHz to 60 MHz
- Intermittent hang-up when long pressing the touchscreen

Version M.24.58 (Release Date Sep, 2019)

Enhancement:

- Audio Metrics: Add dBuV, dBmV display options to audio level.
- DSB PEP and rms power measurement
- SSB PEP and rms power Measurement
- SSB span filter and freq error issue
- Support frequency error measurement for AM DSB

Issues Resolved:

- External Trigger Slope Doesn't Work as Expected When Set to Negative
- "Settings Alert; Acquisition truncated" when in Specific Range Settings

Version M.23.09 (Release Date June, 2019)

Enhancement:

- Add pre-generated waveforms: additional APCO Ph1 waveforms
- Rx/Tx Frequency coupling option with optional offset
- Add dBm result in audio level measurements in RX mode,
- Audio analysis list mode

Issues Resolved:

- T/R High sensitivity mode warning does not turn off after switching out of high sensitivity path
- External Gain doesn't work for RT RF Spectrum window
- Source waiting for trigger dialog doesn't disappear even switch to continuous mode from single mode with bus trigger
- Inconsistent measured power from T/R port when RF Output Port is set to T/R in the recalled state file
- Inconsistent actual settings on Sine 2 Level by using UI and SCPI
- Cannot change PEP and RMS power unit between dBm and W for AM LSB/USB

Version M.21.16 (Release Date Oct, 2018)

Enhancement:

- Add pre-generated waveforms for APCO Ph1 and TETRA
- Add Autotune function
- Add additional audio filters
- Support increment set for RF generator frequency and amplitude
- Add reference impedance support for audio output power (watts)

Issues Resolved:

- Dirty marker display issue when changing the selected window

Version M.21.13 (Release Date Sep, 2018)

Enhancement:

- ACP measurement
Integration Pass Band -6dB
- VMA measurement
Digital Demodulation MSK Type 1 enhancement
- Analog demodulation

AM SSB support

Issues Resolved:

- WLAN Sequence Mask measurement result is not correct when overlap function is enable
 - Source Output Shifts After Initialization
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Version M.20.37 (Release Date June, 2018)

Initial release to support M8920A