

# Keysight N9344C 20 GHz Handheld Spectrum Analyzer

If you are making measurements in the field, the Keysight Technologies, Inc N9344C handheld spectrum analyzer (HSA) makes your job easier. It's got the features you need for operating in tough field environments, and its measurement performance gives you confidence the job's been done right. The N9344C HSA lets you automate routine tasks to save time and ensure consistent results. Field testing just got easier with the Keysight N9344C HSA.

## Field testing just got easier



Get the features you need in a field-ready instrument:

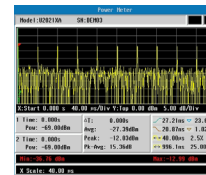
- Rugged and fanless design for tough field environments.
- Clear screen viewing, day and night.
- Built-in GPS receiver and GPS antenna.
- Dedicated applications for spectrum monitoring and interference analysis.
- Flexible remote control via USB/LAN.

Gain confidence in your measurements with benchtop performance in a handheld instrument:

- Best-in-class RF performance (-155 dBm/Hz DANL, < 0.95 s sweep time for 20 GHz full span).
- Power suite, built-in tracking generator, AM/FM/ASK/FSK modulation analysis, and time-gated sweep.
- High-accuracy power measurements with Keysight USB power sensors.

Innovative task planner reduces test setup time by 95%, delivers test automation and consistency, and makes it easy to capture test results, generate reports and share task plans with others.

## Powerful measurement features



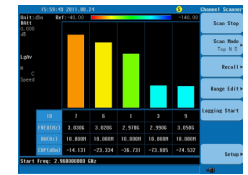
New! U2020 X-series USB peak and average power sensor support (Option PWP)



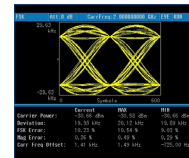
Enhanced! Security features (Option SEC)



Measuring two-port transmission with tracking generator (Option TG7)



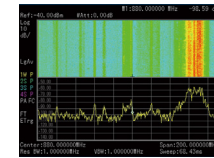
Channel scanner (Option SCN)



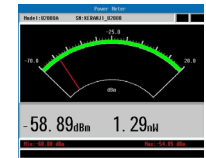
ASK/FSK modulation analysis (Option DMA)



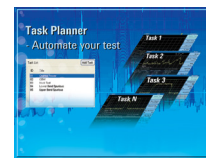
Built-in GPS receiver and GPS antenna (Option GPS)



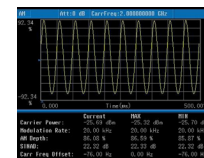
Spectrum monitor (Option SIM)



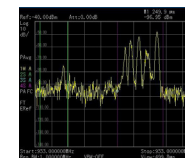
U2020 series USB power sensor support (Option PWM)



Task planner for routine test automation (Option TPN)



AM/FM modulation analysis (Option AMA)



Time-gated spectrum analysis (Option TMG)

## New N9344C enhancements

- SCPI through socket and telnet connection
- RRC filter for measuring LTE/W-CDMA channel power and adjacent channel power ratio
- Keypad lock/unlock with password
- Channel standards for LTE/Wi-Fi/WiMAX™

## Key specifications

Specification	Description
Frequency range	9 kHz to 20 GHz
Displayed average noise level (DANL) at 3 GHz/7 GHz/13 GHz/18 GHz, normalized to 1 Hz, typical	-142 dBm/-142 dBm/ -140 dBm/-139 dBm, PA OFF -154 dBm/-155 dBm/ -155 dBm/-151 dBm, PA ON
RBW range	10 Hz to 3 MHz (1-3-10 steps)
TOI at 18 GHz, typical	+15 dBm
Phase noise, typical	-89 dBc/Hz at 30 kHz -119 dBc/Hz at 1 MHz
Sweep speed	2 ms to 1000 s 6 μs to 200 s
Amplitude accuracy	± 1.3 dB
Dimension	318 mm x 207 mm x 69 mm (12.5 inch x 8.15 inch x 2.7 inch)
Weight	3.6 kg (7.9 lbs)
Battery	3.5 hours, field replaceable

WiMAX, Mobile WiMAX, WiMAX Forum, the WiMAX Forum logo, WiMAX Forum Certified, and the WiMAX Forum Certified logo are US trademarks of the WiMAX Forum.

## Option

Item	Description	Upgradability
N9344C	Handheld spectrum analyzer	N/A
P20	Preamplifier, 20 GHz	Yes, license
TG7	Tracking generator, 7 GHz	Yes, H/W + license
SIM	Spectrum monitor with spectrogram record and playback	Yes, license
GPS	GPS receiver with built-in GPS antenna	Yes, license
TPN	Task planner for test automation	Yes, license
PWM	U2000 series USB power sensor support	Yes, license
TMG	Time-gated spectrum analysis	Yes, license
AMA	AM/FM modulation analysis	Yes, license
DMA	ASK/FSK modulation analysis	Yes, license
SCN	Channel scanner	Yes, license
<b>Enhanced!</b> SEC	Security features	Yes, license
<b>New!</b> PWP	U2020 X-series USB peak and average power sensor support	Yes, license

## Accessories



N9311X-518 directional antenna



N9344C-SCC ergonomic backpack



N9344C-BCG external battery charger\*  
\* Batteries not included.



N9344C-BAT spare battery pack



N9344C-1DN Automotive 12V DC charger



N9344C-1TC Hard transit case

More accessories at [www.keysight.com/find/n9311X](http://www.keysight.com/find/n9311X)