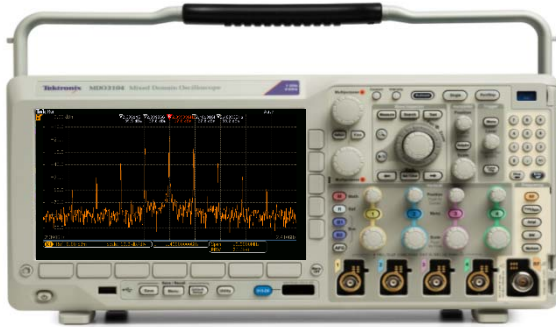


# MDO3000 Series vs. Agilent N9320B Spectrum Analyzer

## Competitive Fact Sheet



### MDO3000 Mixed Domain Oscilloscope

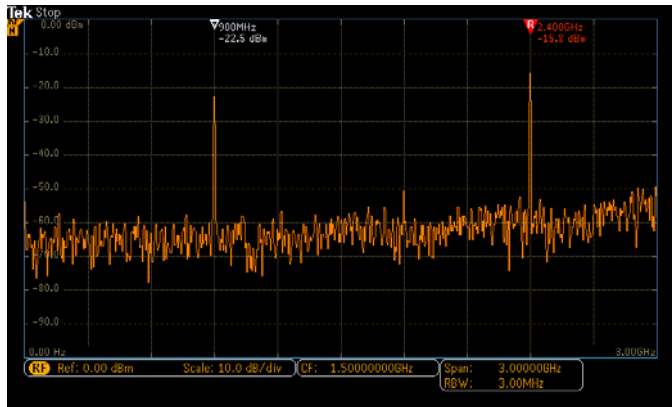
- 2 or 4 analog channels
- 16 digital channels (optional)
- Integrated spectrum analyzer
  - Dedicated front panel controls
  - Dedicated N connector
- Integrated arbitrary/function generator (optional)
- Serial bus decoding and triggering (optional)

Specifications	Tektronix MDO3000		Agilent N9320B	
	✓		✓	
Frequency Range	✓	9 kHz – analog bandwidth (standard) 9 kHz - 3 GHz (optional)	✓	9 kHz - 3 GHz
Capture / Analysis Bandwidth	✓	Up to analog bandwidth (standard) 3 GHz (optional)	✗	1 MHz
Phase Noise at 1 GHz CF 10 kHz offset 100 kHz offset 1 MHz offset	✓	<-81 dBc/Hz, <-85 dBc/Hz (typical) <-97 dBc/Hz, <-101 dBc/Hz (typical) <-118 dBc/Hz, <-122 dBc/Hz (typical)	✓	<-88 dBc/Hz, <-90 dBc/Hz (typical) <-100 dBc/Hz, <-102 dBc/Hz (typical) <-110 dBc/Hz, <-112 dBc/Hz (typical)
Displayed Average Noise Level (DANL) at 1 GHz	✓	-138 dBm/Hz , -142 dBm/Hz (typical)	✗	-127 dBm/Hz
2nd Harmonic Distortion at 1 GHz	✗	-55 dBc, -60 dBc (typical)	✓	-73 dBc
3rd Order Intermodulation Distortion at 1 GHz	✗	-55dBc, -60 dBc (typical)	✓	-60 dBc, -66 dBc (typical)
Residual Response	✗	-78 dBm	✓	-83 dBm
Display Size and Resolution	✓	9" WVGA	✗	6.5" VGA
Dimensions (HxWxD)	✓	8.0 x 16.4 x 5.8 inches 203.2 x 416.6 x 147.3 mm	✗	5.2 x 12.6 x 15.7 inches 132.1 x 320 x 398.8 mm
Weight	✓	9.2 lbs.	✗	18 lbs.
Warranty	✓	3 years	✗	1 year
Spectrum Analyzer Price	✓	Up to analog bandwidth: <b>Standard, no charge</b> Max. Frequency to 3 GHz: <b>Optional, \$2,500</b>	✗	<b>&gt;\$8400</b>

# MDO3000 Series vs. Agilent N9320B Spectrum Analyzer

## Competitive Fact Sheet

### MDO3000 Feature Highlights



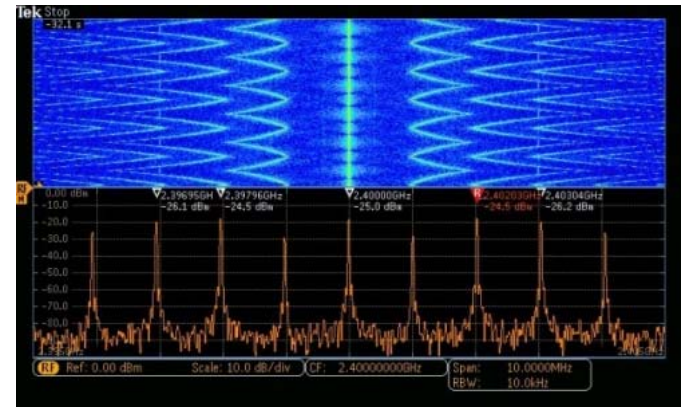
#### Exceptionally Wide Capture Bandwidth

With 3 GHz of capture bandwidth and long RF acquisition times, the MDO is the ultimate product for debugging modern wideband, time varying RF signals.



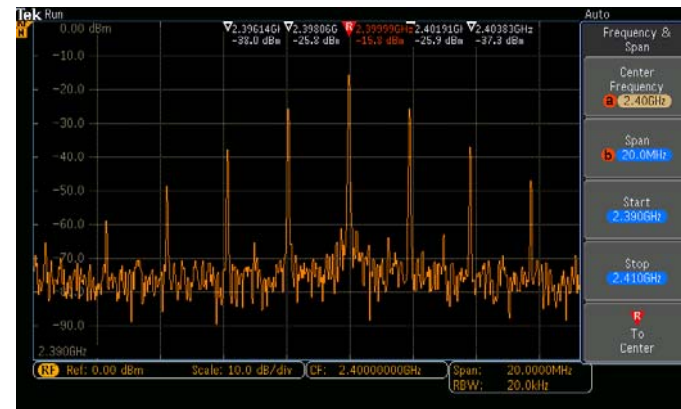
#### Integration with Oscilloscope, Logic and Protocol Analysis

Use the same instrument for making measurements in the time domain and the frequency domain.



#### Spectrogram Display

Use the built-in spectrogram display to see how the spectrum's peaks are changing in both frequency and amplitude – ideal for monitoring slow-changing RF phenomena.



#### Automated Markers

Define threshold and excursion values, and the MDO3000 will automatically search your entire spectrum and mark all peaks that meet your criteria, enabling you to quickly see each peak's frequency and amplitude.