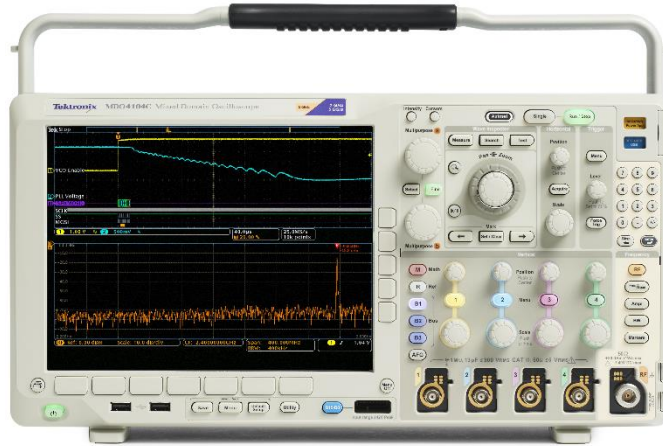


MDO4000C Series vs. Rohde & Schwarz FSL Spectrum Analyzer

COMPETITIVE FACT SHEET



Mixed Domain Oscilloscope

- 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)

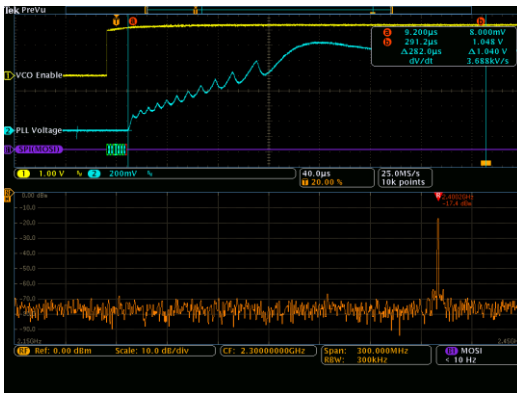
Specifications		Tektronix MDO4000C w/ opt. SA3		Rohde & Schwarz FSL3
Frequency Range		9 kHz - 3 GHz		9 kHz - 3 GHz
Capture / Analysis Bandwidth	✓	3 GHz	✗	28 MHz
Phase Noise at 500 MHz CF	10 kHz offset 100 kHz offset	<-108 dBc/Hz, <-111 dBc/Hz (typical) <-110 dBc/Hz, <-113 dBc/Hz (typical)	✗	<-98 dBc/Hz, <-103 dBc/Hz (typical) <-98 dBc/Hz, <-105 dBc/Hz (typical)
Displayed Average Noise Level (DANL) at 1 GHz	✓	<-147 dBm/Hz, <-149 dBm/Hz (typical)	✗	<-140 dBm/Hz
2nd Harmonic Distortion at 1 GHz (0 dB atten.)	✓	<-60 dBc, <-65 dBc (typical)	✗	<-55 dBc
3rd Order Intermodulation Distortion at 1 GHz	✗	<-62dBc, <-65 dBc (typical)	✓	<-60 dBc, <-76 dBc (typical)
Other Input Related Spurious Response	✓	<-60 dBc, <-65 dBc (typical) w/ exceptions to <-55 dBc, <-60 dBc (typ.)	✗	<-60 dBc
Residual Response	✗	<-85 dBm w/ exceptions at <-78 and <-73 dBm	✓	<-90 dBm
Display Size and Resolution	✓	10.4" XGA	✗	6.5" VGA
Dimensions (HxWxD in inches)	✓	9.0 x 17.3 x 5.8	✗	6.2 x 16.1 x 18.3
Weight	✓	11 lbs.	✗	15.4 lbs.
Warranty	✓	3 years	✗	1 year

MDO4000C Series vs. Rohde & Schwarz FSL Spectrum Analyzer

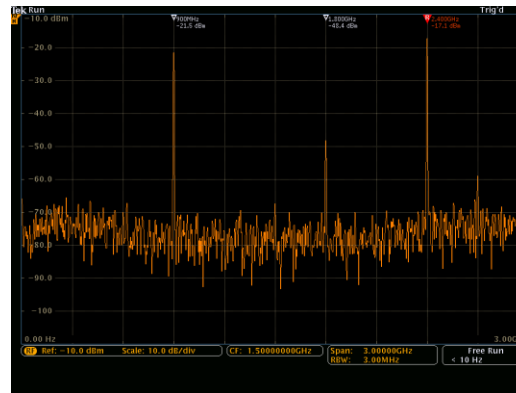
COMPETITIVE FACT SHEET

MDO4000C Capabilities Not Available on Rohde & Schwarz FSL

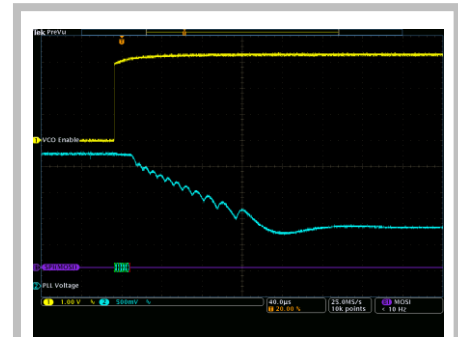
- 4 analog channels and 16 digital channels
- Function generator and DVM
- Serial / Parallel bus decode
- Capture bandwidth wide enough for modern RF signals
- Time-correlated views of analog, digital, serial / parallel buses and RF signals for complete system visibility. RF signals include:
 - Spectrum shown in Frequency Domain
 - Amplitude, Frequency, and Phase vs. Time traces shown in Time Domain



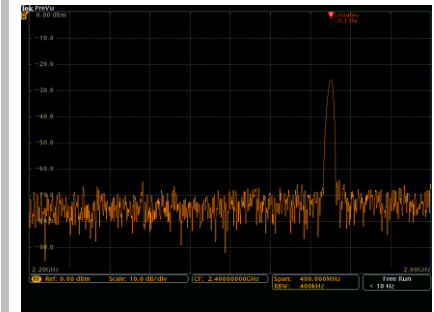
Correlating RF to other system signals
 The most common application is making timing measurements from control logic (often serial or parallel bus commands) to when the RF output changes take effect.



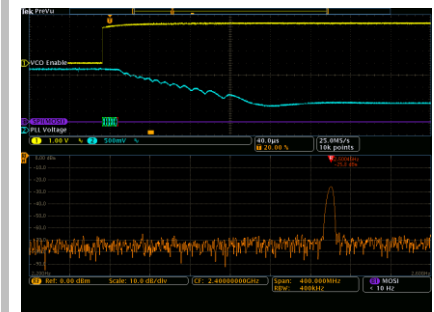
Exceptionally Wide Capture Bandwidth
 With 3 GHz of capture bandwidth and long RF acquisition times, the MDO is the ultimate product for debugging modern wideband, time varying RF signals.



Time Domain Only



Frequency Domain Only



Both Domains at Once