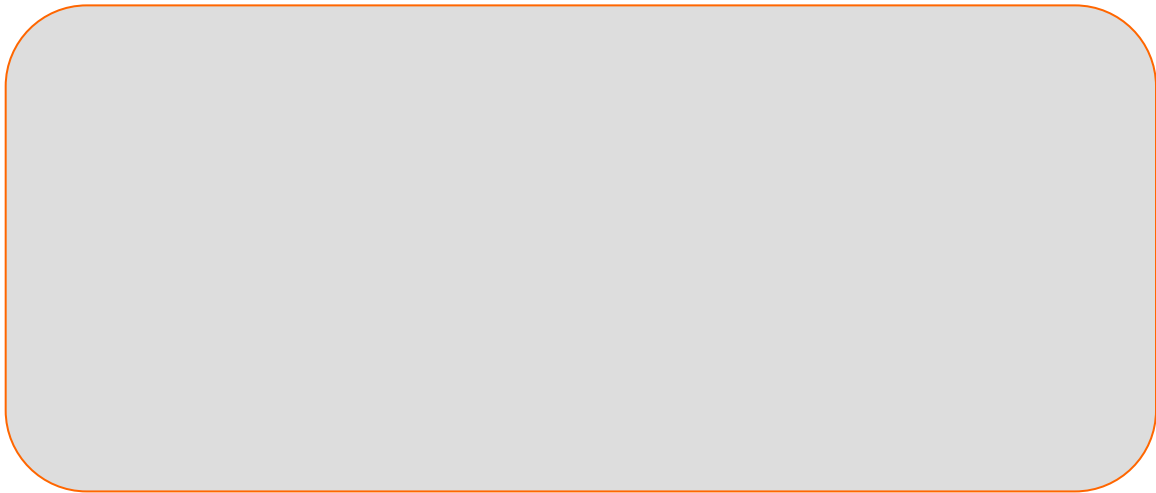
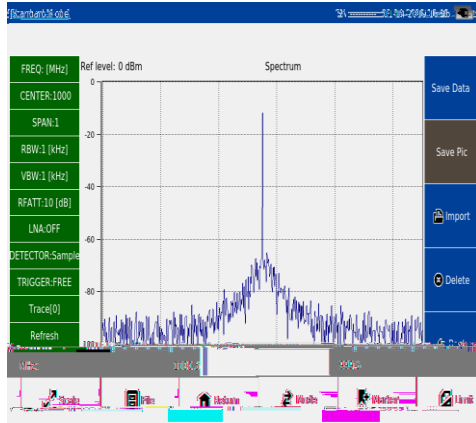


FSA-100 Series Spectrum Analyzer

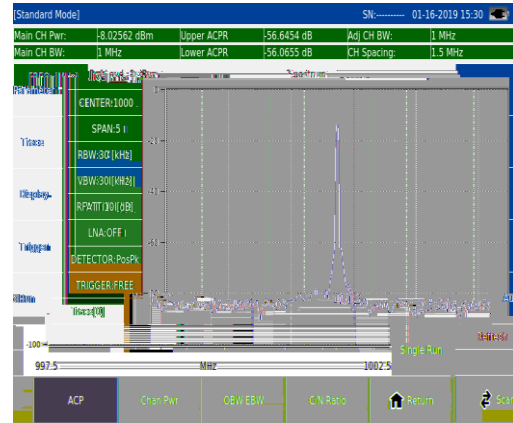
➤ Features

- ◆ All-digital IF technology
- ◆ Frequency range : 9KHz to 6GHz
- ◆ Minimum display noise level (DANL) up to -165dBm/Hz
- ◆ Power dynamic range up to 100dB and maximum continuous input power ≥ 27 dBm





Measurement (Sweep Mode)




Measurement (ACPR)

➤ **Specifications**

Model	FSA-100A	FSA-100B
Measurement Mode		
Sweep mode	frequency sweep, adjacent channel power ratio, channel power, OBW/EBW, carrier-to-noise ratio	
Zero bandwidth mode	AM, FM, FFT, IQ Demodulation	
Frequency		
Frequency Range	9 kHz to 6GHz	9 kHz to 4GHz
Counter resolution	1 Hz	
Frequency Range	0Hz 100 Hz ~6GHz	
Frequency Resolution	1 Hz	
Frequency Reference Source		
Master Frequency	100 MHz	
Initial Accuracy 15 to 35	<±1 ppm	
Temperature Stability	<±0.5 ppm	
Aging Rate	<1.5 ppm/ year	
SSB Phase Noise @1GHz		
10 kHz Carrier offset	<-90 dBc/Hz (Typ.)	
100 kHz Carrier offset	<-100 dBc/Hz (Typ.)	
1 MHz Carrier offset	<-115 dBc/Hz (Typ.)	
Bandwidth		
Resolution Bandwidth RBW (-3dB)	1 Hz to 3 MHz, 1-3-10 step	
Filter Shape Factor (60dB:3dB)	<5	
Video Bandwidth VBW (-3 dB)	1 Hz to 3 MHz, 1-3-10 step	
Amplitude		
Amplitude Range	Displayed Average Noise Level DANL to +27 dBm	

Amplitude Units	dBm/dBv/dBmV/dBuV/V/mV/uV/W/mW/uW/nW/pW	
Maximum DC Voltage	50 V	
Maximum damage level	CW Signal: +28 dBm (50MHz~6GHz)	
	Pulse Signal: +31 dBm (50MHz~6GHz)	
	Note: RF attenuation is 30dB	
	+10 dBm (9kHz~50MHz)	
Displayed Average Noise Level DANL		
Test conditions:		
Reference level -40dBm, RF attenuation 0 dB, trace the average number , normalized to 1 Hz, 20 to 30 , input impedance		
Preamplifier Off	9 kHz to 10MHz	<-143 dBm (Typ.)
	10MHz to 1GHz	<-157 dBm (Typ.)
	1 GHz to 2 GHz	<-156 dBm (Typ.)
	2GHz to 3 GHz	<-152 dBm (Typ.)
	3 GHz to 4 GHz	<-152 dBm (Typ.)
	4 GHz to 5 GHz	<-146 dBm (Typ.)
	5 GHz to 6 GHz	<-145 dBm (Typ.)
Preamplifier On	9 kHz to 10MHz	<-147 dBm (Typ.)
	10MHz to 1GHz	<-165 dBm (Typ.)
	1 GHz to 2 GHz	<-165 dBm (Typ.)
	2GHz to 3 GHz	<-163 dBm (Typ.)
	3 GHz to 4 GHz	<-164 dBm (Typ.)
	4 GHz to 5 GHz	<-159 dBm (Typ.)
	5 GHz to 6 GHz	<-155dBm (Typ.)
Display Functoin		
Display		
Display Grid	1,2,3,5,10,15,20dB	
Points		
Normal Bandwidth	551(Typ.)	
Zero Bandwidth	1024	
Trace		
Number	4	
Function	Max. Hold, Min. Hold, Video Average, Power Average, Freeze, Refresh	
Display Mode	Only memory, Only data, Data And Memory, Data +/- Memory, Data to Memory	
RF Input VSWR		
Test Condition: (RF attenuation dB)		
VSWR	300 kHz to 3 GHz	<2 (Nominal Value)
	3 GHz to 6 GHz	<2 (Nominal Value)
Nonlinear Index		
Second Harmonic Distortion	Test conditions: RF attenuation 10 dB, Input -30 dBm	
10MHz - 1.5GHz	<-60dBc	
1.5GHz - 3GHz	No	
Third Order Intermodulation	Test conditions: RF attenuation 10dB, Input -20dBm, Frequency Interval 1MHz	

30 - 3000MHz	+12dBm	
3000 - 6000MHz	+10dBm	
Spurious Response		
Vestigial Spurious	<-90dBm, RF attenuation 0dB	
Input Correlation Spurious	<-80dbc Test conditions: RF attenuation 0dB, Input -20 dBm	
Medium Frequency Feed Through	<-55dBc; Medium Frequency =25MHz	
Image Rejection	<-60dbc @ F1±250MHz (F1: Input Frequency)	
Scan		
Scan time	( .) -	1 ms to 2,000 s
	Zero Scan	
Scan mode		

Altitude	Operation Altitude	2000 Metres
Dimensions		
(LxWx H)	290 mm x 175 mm x 75 mm	
Weight		
Weight (Including Battery)	2. 8 kg	

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