S3301 Handheld Microwave Spectrum Analyzer

(100kHz - 18GHz)

Key Features

- One click measurement
- High measurement speed
- Standard LAN and USB interface
- Abundant measurement functions
- Supports both linear sweep and list sweep

Measurements

- Occupied Bandwidth (OBW)
- Channel Power
- Spectrum Analysis
- Adjacent Channel Leakage Ratio (ACLR)

Available in the frequency range of 100kHz - 18GHz, S3301 Handheld Microwave Spectrum Analyzer can meet the needs of measurements from short-wave through to Ku band wave. It has a LCD screen and a friendly UI which can make it very easy to operate.

S3301 is internally built with a large-capacity flash memory and supports USB external memory where the field measurement curves can be stored for subsequent analysis, processing and storing for management.

S3301 Handheld Microwave Spectrum Analyzer is mainly used in development, repair and maintenance in various sectors of radar and communication equipment as well as in the spectrum monitoring and management department.

4TECT

ООО «4TECT»
Телефон: +7 (499) 685-4444
info@4test.ru
www.4test.ru

SALUKI TECHNOLOGY

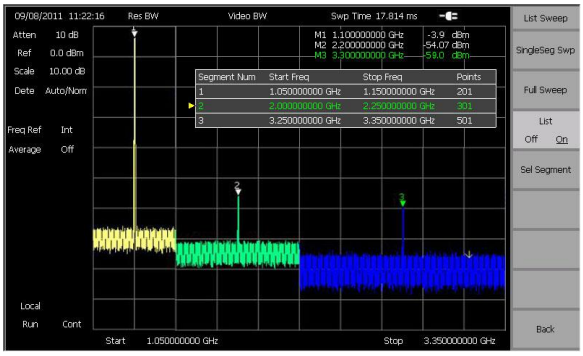
S3301 Handheld Microwave Spectrum Analyzer

(100kHz - 18GHz)

Features To Boost Your Efficiency

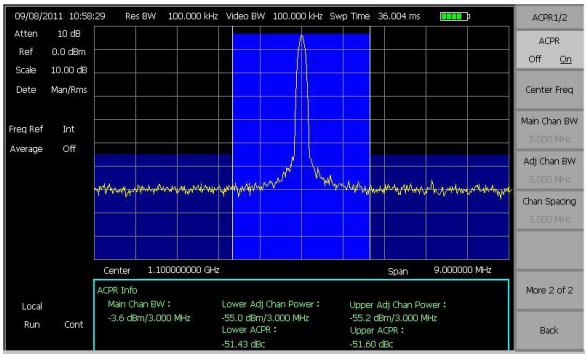
Support linear sweep and list sweep

The list sweep can help to easily realize the quick measurement of multiple frequency bands.



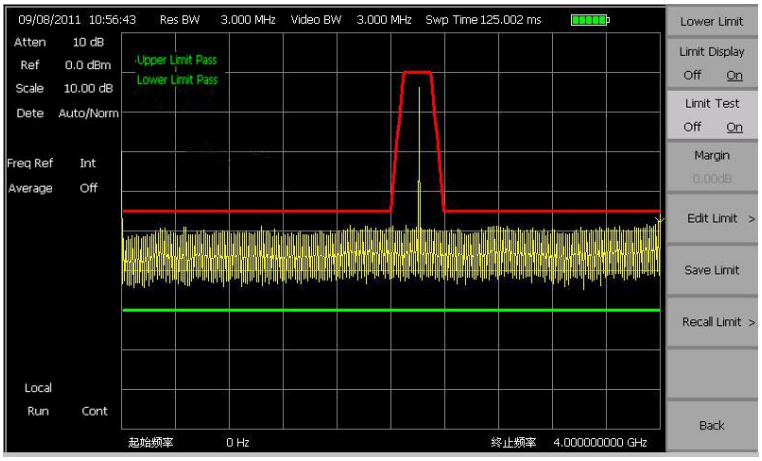
One-click measurement

The data of occupied bandwidth, channel power and adjacent channel power ratio (ACPR) can be obtained through one-click measurement.



Convenient application of limit lines, support both upper and lower limit lines

Limit line can be regarded as a visual reference, as well as the judgment basis of PASS/FAIL. If the test result breaks the limit lines, the loudspeaker will make a “Di” sound to remind the operator.



Powerful software tools

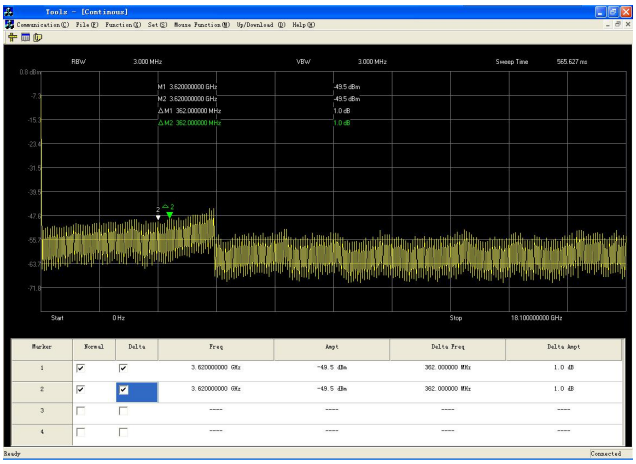
Through software tools, S3301 can edit antenna factors and limit lines, and realize remote control.

SALUKI TECHNOLOGY

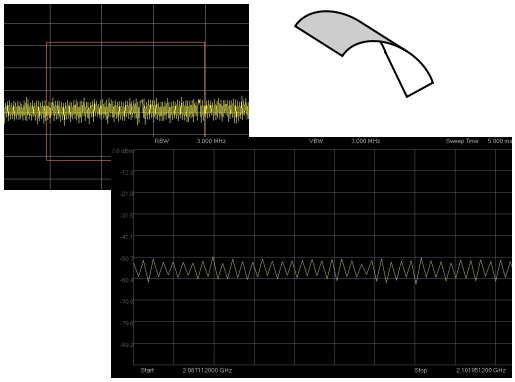
S3301 Handheld Microwave Spectrum Analyzer

(100kHz - 18GHz)

- Provide function of marker setting and dragging, easy to read data



- The test traces can be magnified by drawing a rectangular window



Typical Applications

Broadband spectrum monitoring and interference Recognition

S3301 uses SAV89101X directional antenna to monitor spectrum and recognize illegal interference signals. The interference signals can do harm to the authorized users service, which usually leads to property loss or even damage to emergent communication service, thereby endangering public security.

Field spectrum test

With advantages of wide frequency band, high-sensitivity measurement, high-capacity battery, and lightweight, S3301 can meet all requirements of field spectrum test.

.

SALUKI TECHNOLOGY

S3301 Handheld Microwave Spectrum Analyzer

(100kHz - 18GHz)

Frequency	
Frequency Range	100kHz - 18GHz
Nominal Frequency	10MHz
Aging Rate	$\pm 1 \times 10^{-8}$/day, $\pm 1 \times 10^{-6}$/year
Temperature stability	$\pm 1 \times 10^{-6}$ (20~30°C); $\pm 3.5 \times 10^{-6}$ (0~50°C)
Frequency Readout Accuracy	±(Frequency readout x Frequency reference error +5% x Frequency span+25% x Resolution bandwidth)
Frequency Span	10Hz~18GHz or 0Hz
Bandwidth	
Resolution Bandwidth	1Hz - 3MHz (step by 1, 3, 10)
Video Bandwidth	1Hz - 3MHz (step by 1, 3, 10)
Spectral Purity (Phase Noise)	
Carrier of 1GHz, 1kHz offset	<-80dBc/Hz
Carrier of 1GHz, 10kHz, 20kHz, 30kHz offset	<-93dBc/Hz
Carrier of 1GHz, 100kHz offset	<-95dBc/Hz
Carrier of 1GHz, 1MHz offset	<-103dBc/Hz
Residential Response	
10MHz -18GHz, the preamplifier is off	<-80dBm
10MHz - 4GHz, the preamplifier is on	<-95dBm
Displayed Average Noise Level (DANL)	
10MHz - 4GHz, the preamplifier is on	≤-153dBm
10MHz - 8GHz, the preamplifier is off	≤-133dBm
8GHz - 18GHz	≤-127dBm
Second-order Harmonic Distortion	
10MHz - 4GHz	<-50dBc
4GHz - 18GHz	<-58dBc
Sweep Time	
At zero-span	1ms - 100s
Span≥1kHz	100ms - 100s
Input Port Voltage SWR	
50MHz - 13GHz, typical	<1.8:1
13GHz - 18GHz, typical	<2.0:1
Overall-level Uncertainty	±2.7dB (20°C ~30°C, preheated for 30mins)
Input Attenuation Range	0 - 30dB, step by 10dB
Maximum Safety Input Level	+27dBm

SALUKI TECHNOLOGY

S3301 Handheld Microwave Spectrum Analyzer

(100kHz - 18GHz)

General Information

Power Consumption	<40W (While charging is operated) <28W (While charging is disabled)
Power Supply Mode	DC, Rechargeable battery
Battery Service Life	About 4 hours
Input Interface	N-female, 50Ω resistance
Dimension (LxWxD)mm	330x 230 x 95
Weight	Less than 5kg

Ordering Information

No.	**Name**	
1	**Power cord and adaptor**	Input: 100-240V~50/60Hz, 1.7A, Output: +15.0V,4.0A
2	**USB Communication cable**	1 PC
3	**PC Card**	1 PC

4TECT
ООО «4ТЕСТ»
Телефон: +7 (499) 685-4444
info@4test.ru
www.4test.ru

SALUKI TECHNOLOGY