



SSG5000X

RF Signal Generator



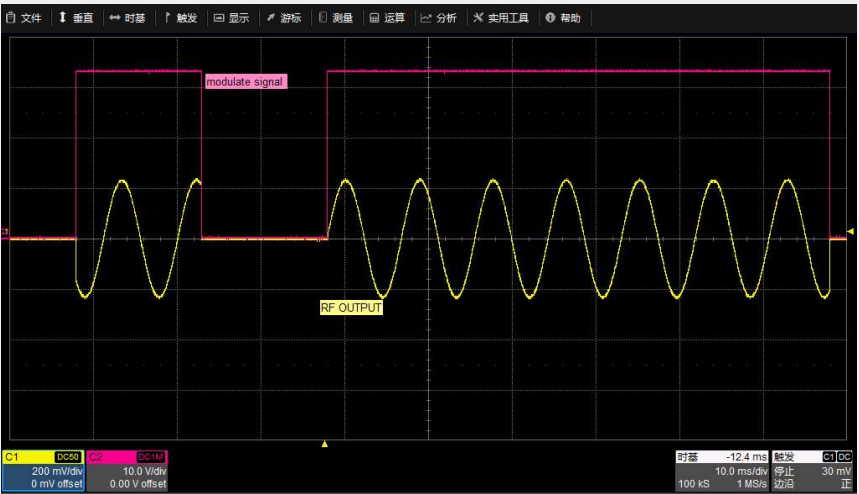
Features and Benefits

- Frequency up to 4 GHz/6 GHz
- 0.001 Hz frequency setting resolution
- High output power up to +26 dBm (typ.)
- Phase Noise: -120 dBc/ Hz @ 1 GHz, 20 kHz offset (typ.)
- User flatness correction with power sensor to correct the cable loss
- Provides AM, FM, PM analog modulation with internal, external or Int+Ext source
- Single pulse, double pulse and Pulse train generator (option)
- Internal IQ modulation with 150 MHz modulation bandwidth with perfect in-factory calibration
- Internal include some digital communication stand file such as 5G-NR, LTE, WCDMA, WLAN, and playback them
- Internal Custom mode generate common IQ signal such as QAM, FSK, ASK, MSK
- Analog differential I/Q outputs
- External analog I/Q input
- USB-power meter measurement
- 5inch TFT capacitive touch screen, mouse and keyboard supported
- Web browser remote control on PC and mobile terminals
- Standard interface included USB Host, USB Device (USB TMC), LAN (VXI-11, Socket, Telnet). Optional interface: GPIB

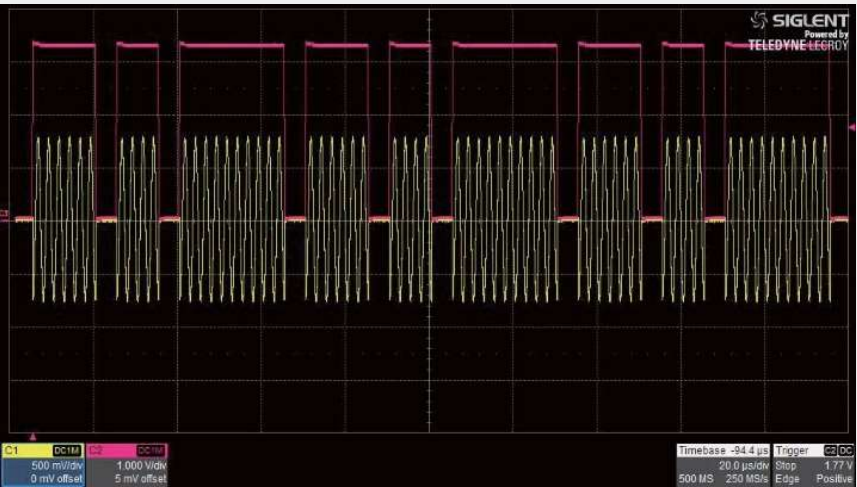


Design features

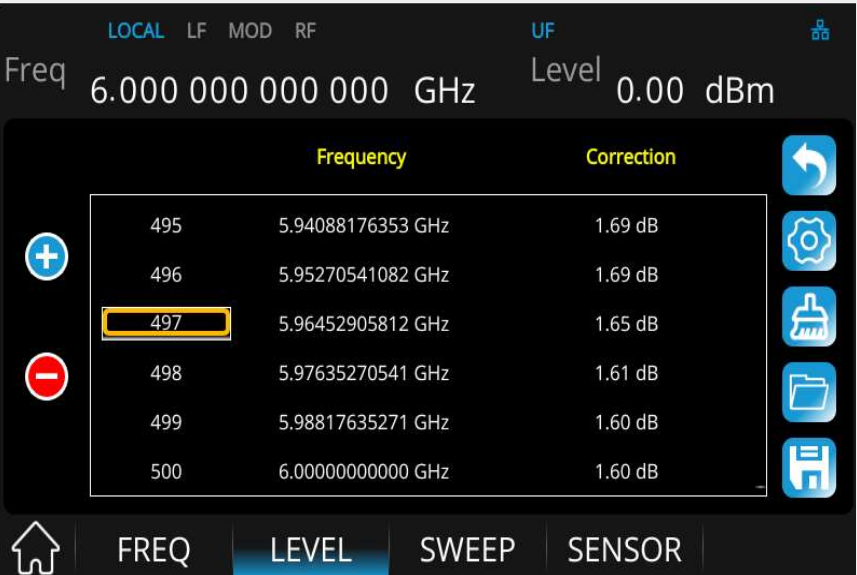
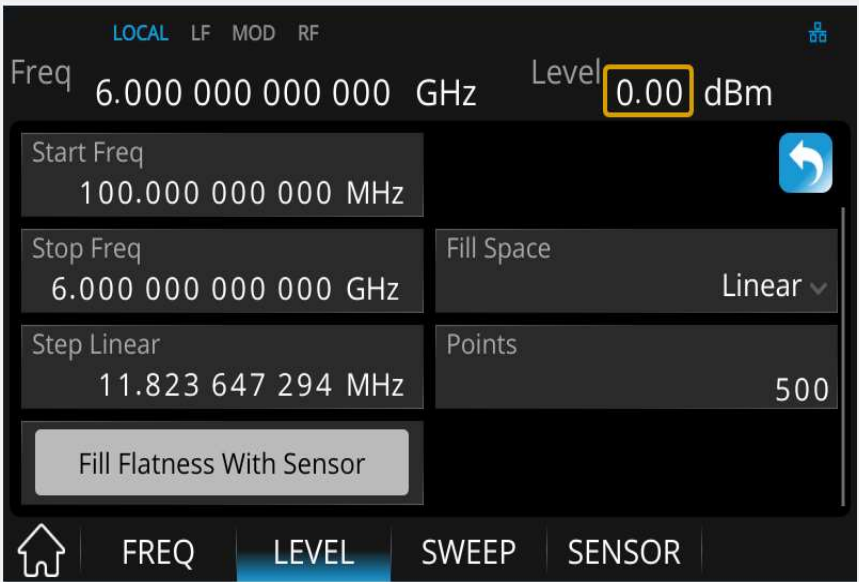
• Double pulse modulation



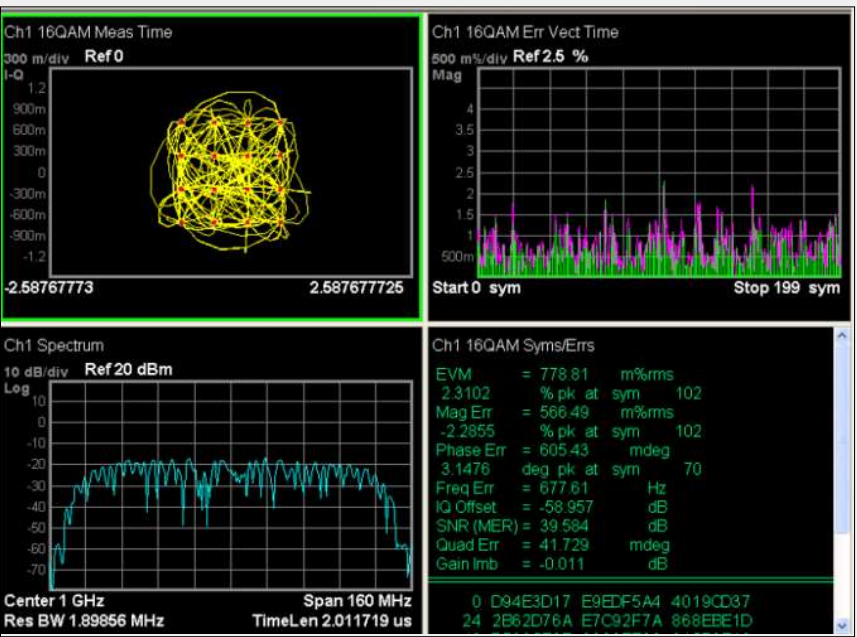
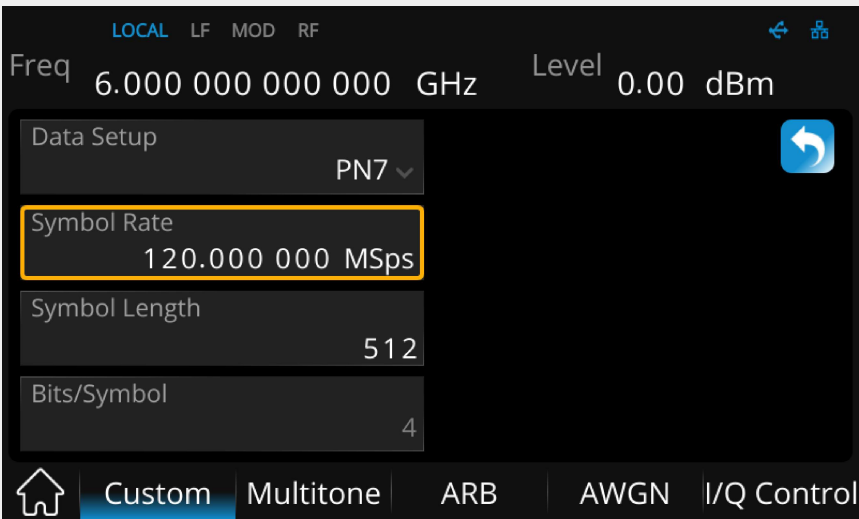
• Pulse train generator



• Works with Power sensor to use the measured values to compensate the cable losses with internal control functions

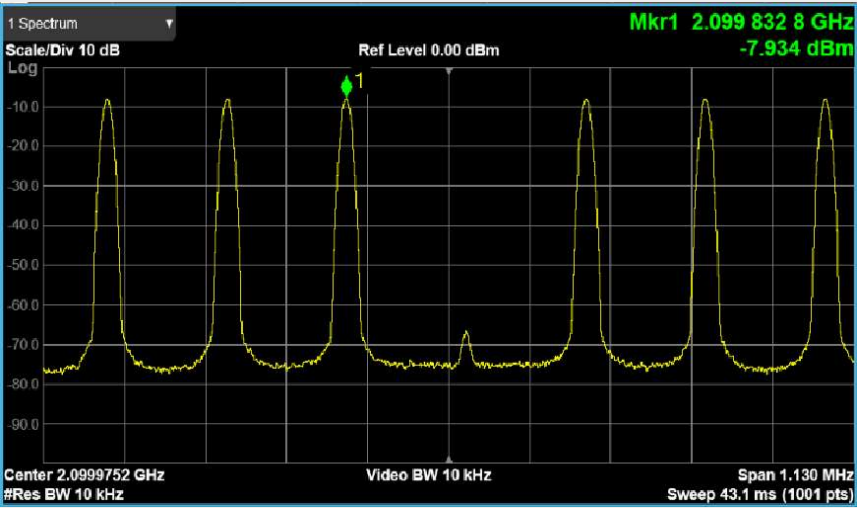


• Custom mod can generate IQ modulated signal such as QAM, PSK, ASK, FSK, the maximum sample rate is 120 Msps/s

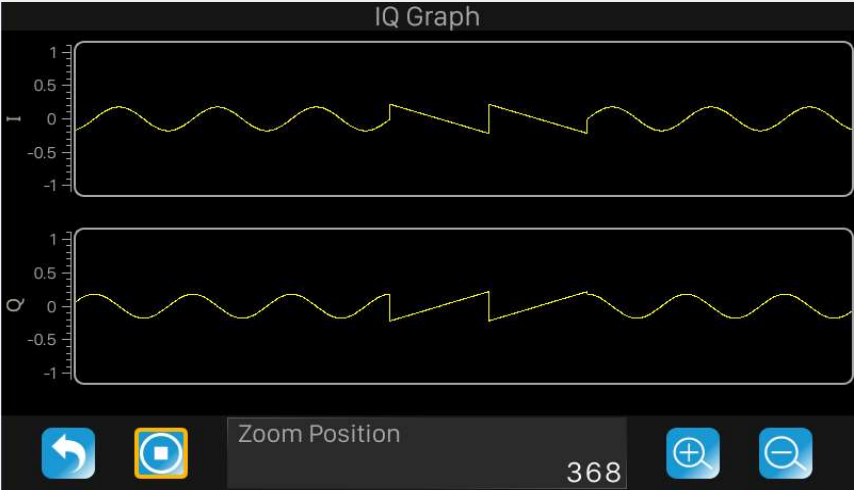


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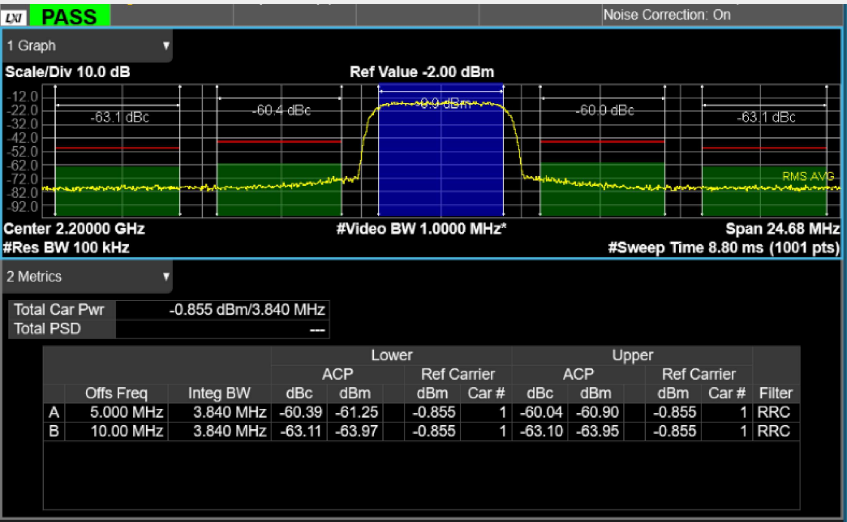
- Multi-tone mode to output multi-signal



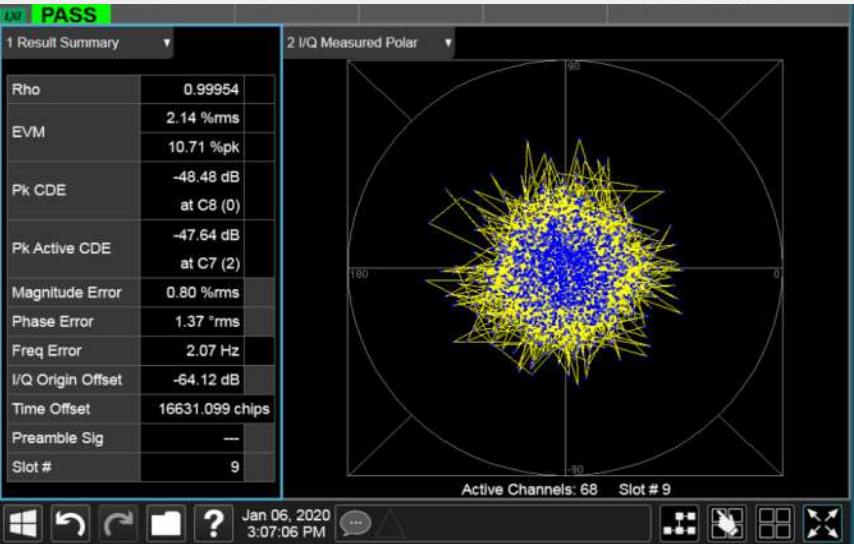
- ARB mode to build and replay waveform sequence



- Arb mode to replay back communication stand files

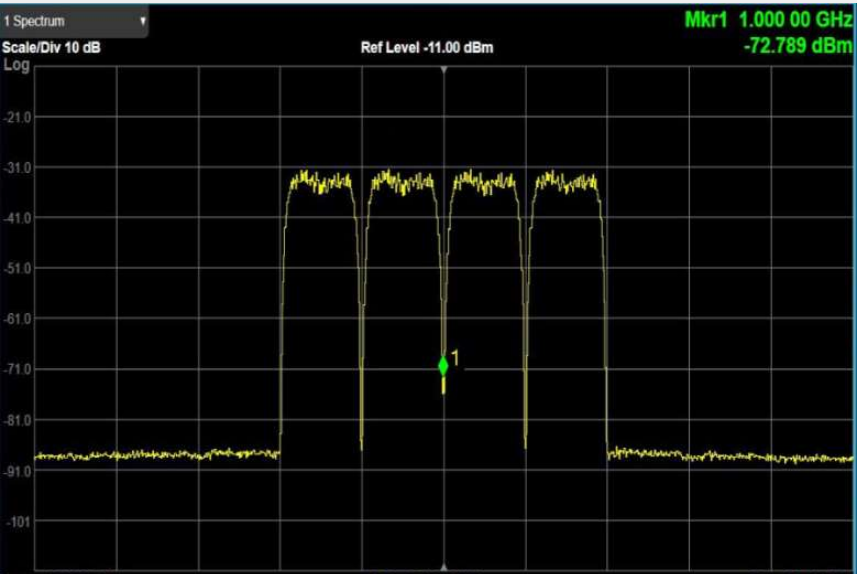


3GPP WCDMA TM1-64DPCH ACPR

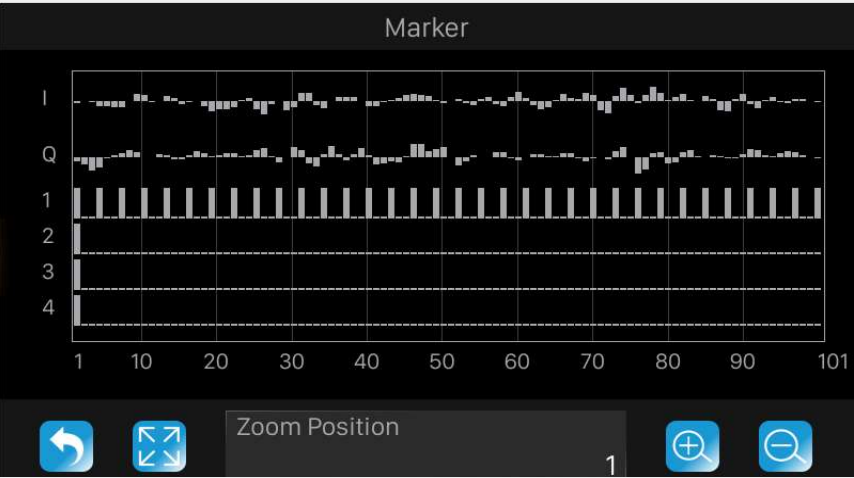


3GPP WCDMA TM1-64DPCH EVM

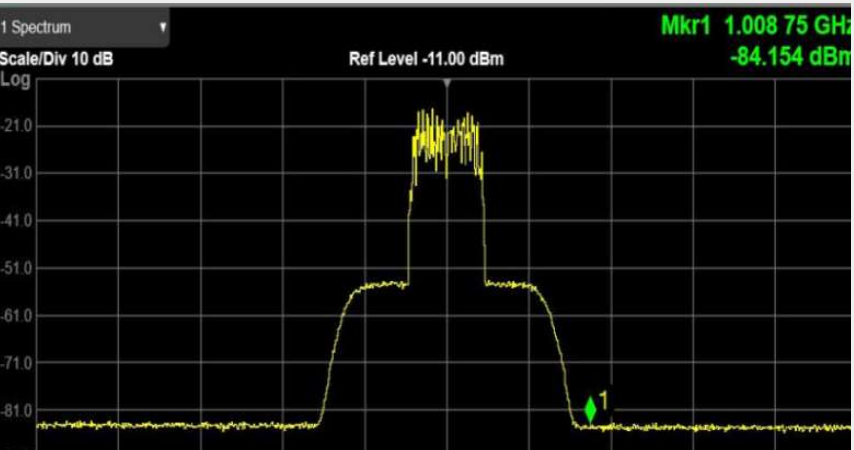
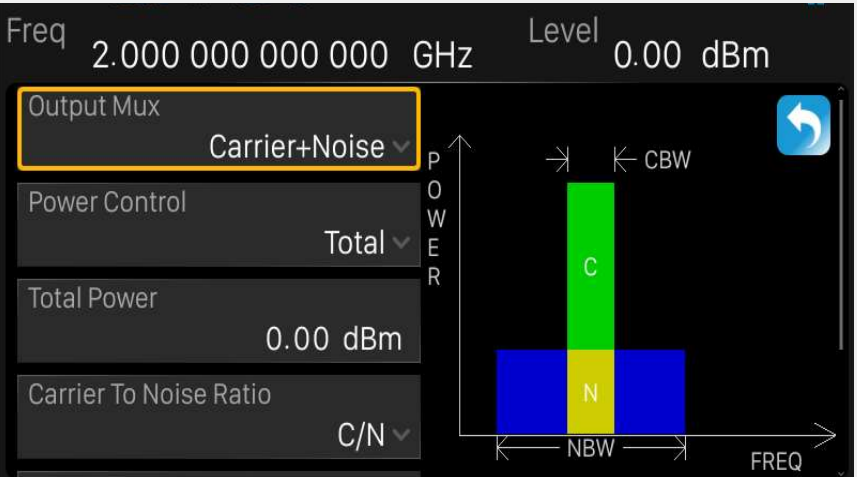
- ARB mod to generate multi-carrier



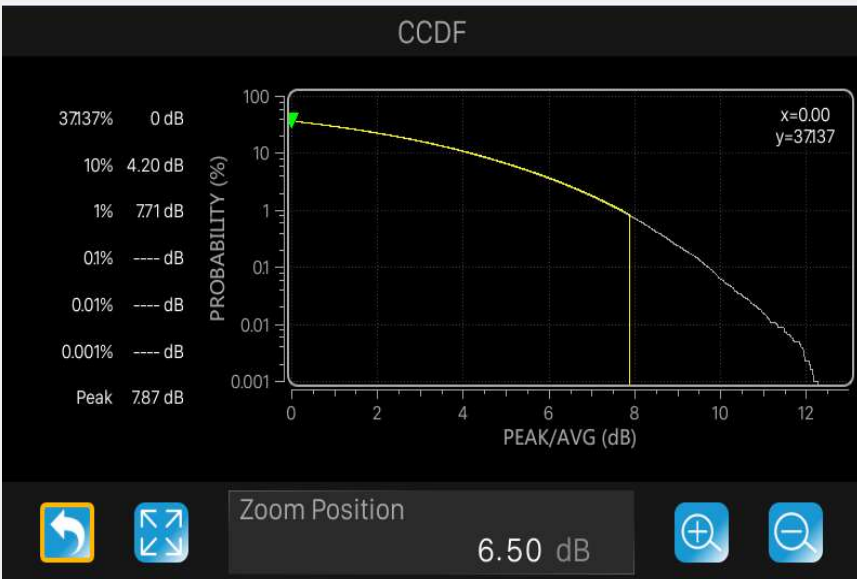
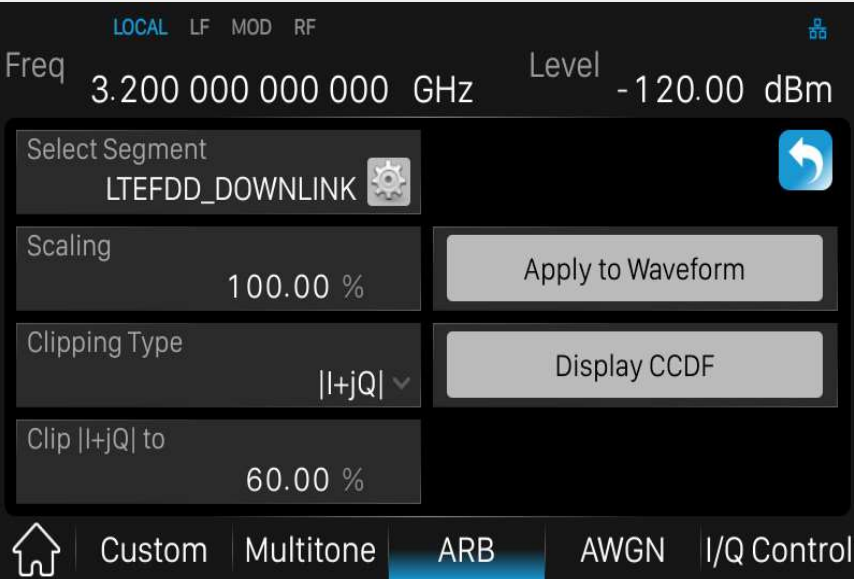
- ARB mod to use the marker to label symbol of the waveform files and simultaneously output a pulse from the invent interface, this can synchronize another device.



- ARB mode to add real time AWGN to the digital IQ to satisfy the receiver performance tests of receiver



- ARB mod to clip the signal of the peak power and display the CCDF (cytotoxic cell differentiation factor)



Model and Main index

Model	SSG5040X	SSG5060X	SSG5040X-V	SSG5060X-V
Frequency Range	CW MODE 9 kHz~4 GHz	CW MODE 9 kHz~6 GHz	CW MODE 9 kHz~4 GHz IQ MODE 10 MHz~4 GHz	CW MODE 9 kHz~6 GHz IQ MODE 10 MHz~6 GHz
Frequency Resolution	0.001 Hz			
Amplitude Resolution	0.01 dB			
Level accuracy	0.7 dB (typ.)			
Phase noise	-120 dBc/Hz @1 GHz, offset 20 kHz (typ.)			
Display	5inch capacitance touch screen, RGB (800*480)			

Ordering Information

Product Description	SSG5000X Signal Generator	Order Number
Product code	Analog Signal Generator 9 kHz~4 GHz	SSG5040X
		SSG5060X
	Vector Signal Generator 10 MHz~6 GHz	SSG5040X-V
		SSG5060X-V
Standard configurations	quick start, an USB cable, calibration certificate, power cord	
option	pulse train generator	SSG5000X-PT
	rack mount kit	SSG-RMK
	USB-GPIB adapter	USB-GPIB
	Upgrade 4 GHz to 6 GHz	SSG5000X-F60
	Upgrade IQ bandwidth from 75 MHz to 150 MHz	SSG5000XV-B150
	Precision Frequency Reference	10M_OCXO_L