



EuMW 2026 Product Demonstrations

Booth #B30



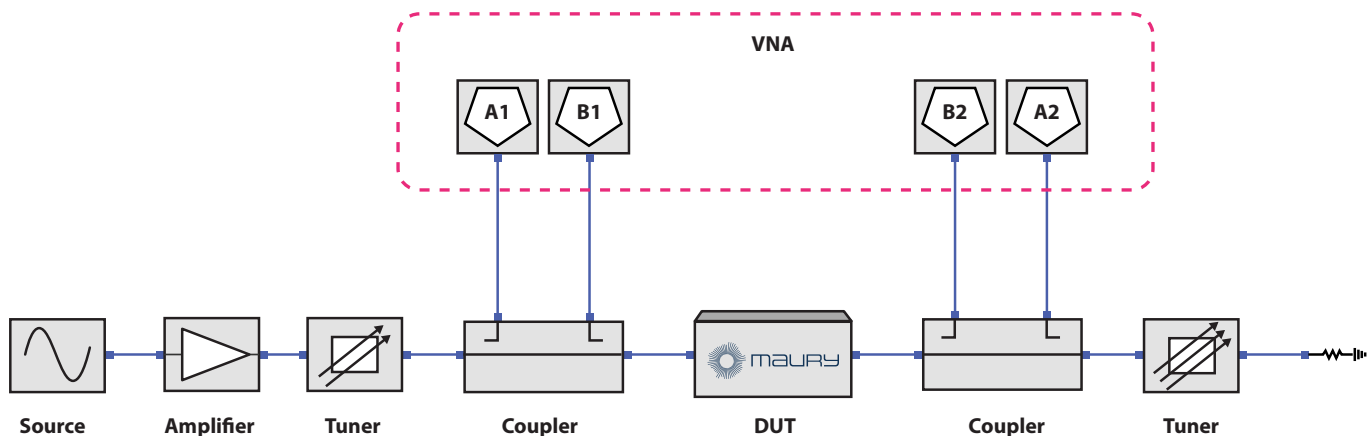
From Device Characterization to PA Optimization: InsightPro for Advanced Load Pull

Achieving accurate large-signal characterization at high frequencies requires precise control over harmonic terminations and visibility into nonlinear device behavior. Traditional scalar load-pull techniques measure only fundamental power and cannot capture the magnitude and phase of harmonic signals at the device reference plane. Without this vector information, engineers have limited insight into harmonic interactions that can impact device efficiency and linearity.

This demonstration features a vector-receiver harmonic load-pull system, with couplers placed at the DUT input and output to capture a- and b-waves at both fundamental and harmonic frequencies. The NT-8G-65G-1C source tuner controls impedance conditions at the DUT input, while the NT-8G-67G-3C load tuner provides fundamental and harmonic impedance control at the DUT output. With this configuration, users can conduct advanced load-pull characterization under controlled source and load impedance conditions.

The system measures critical parameters including power gain, output power, PAE, and input/output impedances, providing greater insight into device performance. Maury InsightPro™ device characterization software drives the measurement workflow, tuner control, and analysis, providing a unified environment for collecting, visualizing, and analyzing measurement data.

Demo Setup



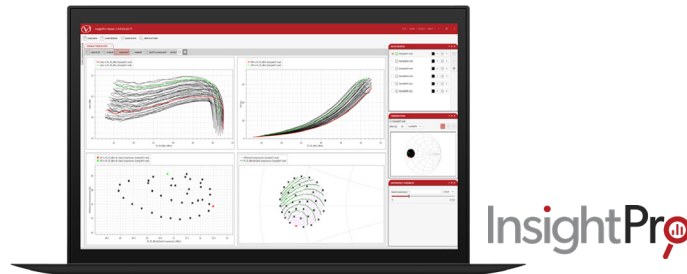
Target Users

Target users include modeling, test and verification, reliability and quality, and R&D engineers focused on reliability testing, design/model verification, and high-frequency system development.

Product Overview

InsightPro Measurement & Modeling DC Software

InsightPro is the industry's premier unified software suite, designed to accelerate the component and sub-system measurement and model extraction workflow for R&D, design verification, and small-scale production testing. Built with a measurement-first approach, InsightPro serves as the primary software interface for instrument-agnostic small-signal and large-signal characterization in both 50Ω and non-50Ω environments. By streamlining data collection, management, and analysis, it enables engineers and researchers to make informed decisions with confidence.



Key Specifications and Features

- > Flexible bench configuration for easy instrument/DUT setup to match any workflow
- > Automated, multi-instrument calibration workflows empower users to achieve high accuracy results across diverse setups with minimal user intervention
- > Built-in system calibration verification for accuracy before data collection begins
- > Comprehensive small-signal, large-signal, and pulsed testing captures real-world device behavior for reliable design and modeling
- > Powerful visualization and analytics suite empowers users to quickly interpret results, extract models, and drive faster design decisions

Nano Series Automated Impedance Tuners

The NT series tuners enable engineers to determine optimized matching conditions to extract noise parameters and maximize output power or power-added efficiency. The tuners' compact and direct probe connection simplifies on-wafer integration, effectively maximizing VSWR at the DUT reference plane and minimizing phase skew for modulated signals. Patented closed loop feedback motor control enhances measurement accuracy and repeatability.



Key Specifications and Features

- > Compact, lightweight design optimized for seamless integration with on-wafer probe station
- > Direct connection to probe maximizes tuning range and reduces phase skew
- > Eliminates the need for external probe mounts, cables, and couplers
- > Minimizes transmission line lengths by bringing tuning element closer to the DUT
- > Models are available with integrated low-loss, high-directivity coupler

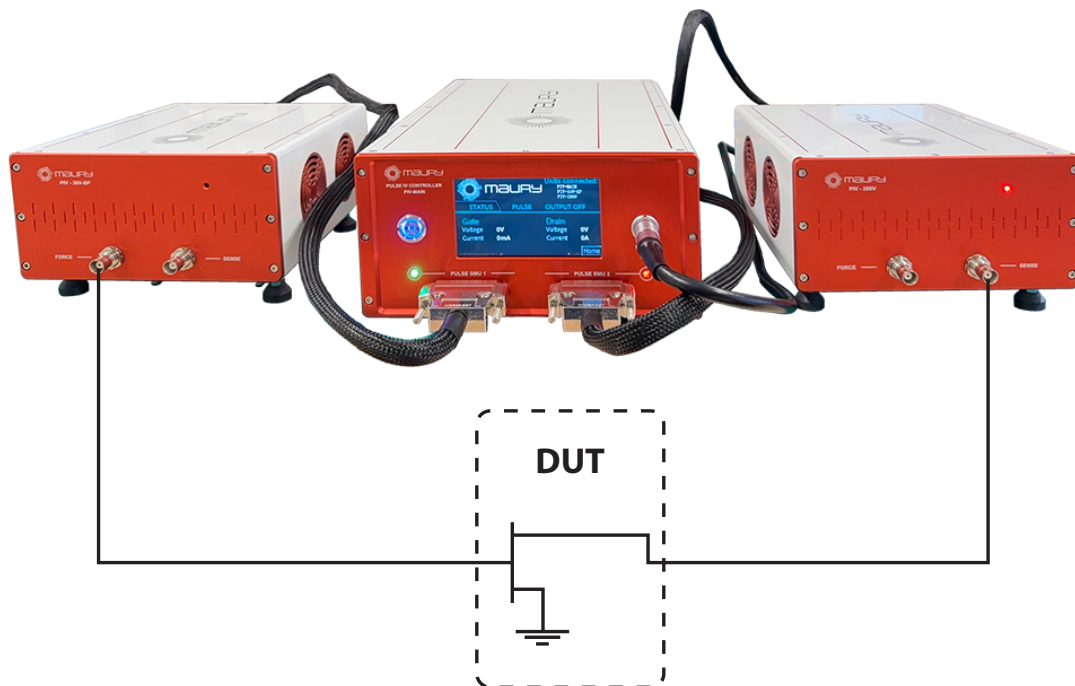
Improving Model Accuracy with Advanced Pulsed IV Measurements

Pulsed IV measurements enable modeling and design characterization engineers to accurately assess the intrinsic behavior of semiconductor devices by minimizing self-heating effects, capturing dynamic behavior under realistic operating conditions, modeling charge trapping effects, and extracting precise parameters for compact and behavioral models.

DC measurements can introduce significant self-heating, which distorts a device's true electrical behavior. III-V devices (e.g., GaN) are susceptible to trapping effects, which can degrade performance and long-term reliability. Pulsed IV measurements provide critical insight into these effects, enabling the development of more predictive and robust device models. One of the main technical challenges in Pulsed IV testing is generating short-duration pulses with fast rise and fall times while maintaining signal integrity — ensuring the voltage and current waveforms settle properly without distortion. Additionally, the measurement system must precisely capture the voltage and current responses of the device under test (DUT) during these brief pulses.

This demonstration shows the Maury Pulsed IV measurement system that allows IV characterization from DC to Pulsed IV of 200ns. The setup supports gate sweeps from -30V to 30V up to 1.5A and drain sweeps from 0 to 280V up to 40A.

Demo Setup



Target Users

Target users include modeling engineers, design and validation teams, and reliability engineers who need to capture accurate and reliable Pulsed IV measurements.

Product Overview

Pulsed IV Measurement System

The Maury PIV Series is a fully integrated pulsed IV power supply system designed for accurate device characterization of power semiconductors, including GaN and other high-electron-mobility transistors (HEMTs). By minimizing self-heating effects through controlled pulsed biasing, the PIV Series enables engineers to capture the true intrinsic behavior of their devices under realistic operating conditions — essential for compact modeling and design validation.

The integrated solutions include 3 modules:

PIV Main:

- > High Voltage AC/DC power supply module

PIV- 30V-BP:

- > Bipolar +/-30V gate pulsed IV module

PIV-280V:

- > 280V drain pulsed IV module

Together, they deliver an unmatched combination of voltage range, timing precision, and measurement accuracy.



Key Specifications and Features

- > Integrated power supply and measurements modules
- > Wide range of pulsed and DC voltage settings: +/-30V (Gate) and 280V (Drain)
- > High-resolution DC and Pulsed IV measurements with unique 10ns time resolution
- > Integrated with InsightPro™ (device characterization software suite) for modelling and validation analysis
- > Measurement and pulsed trigger for S-parameters and fast power measurements
- > Open source SCPI commands

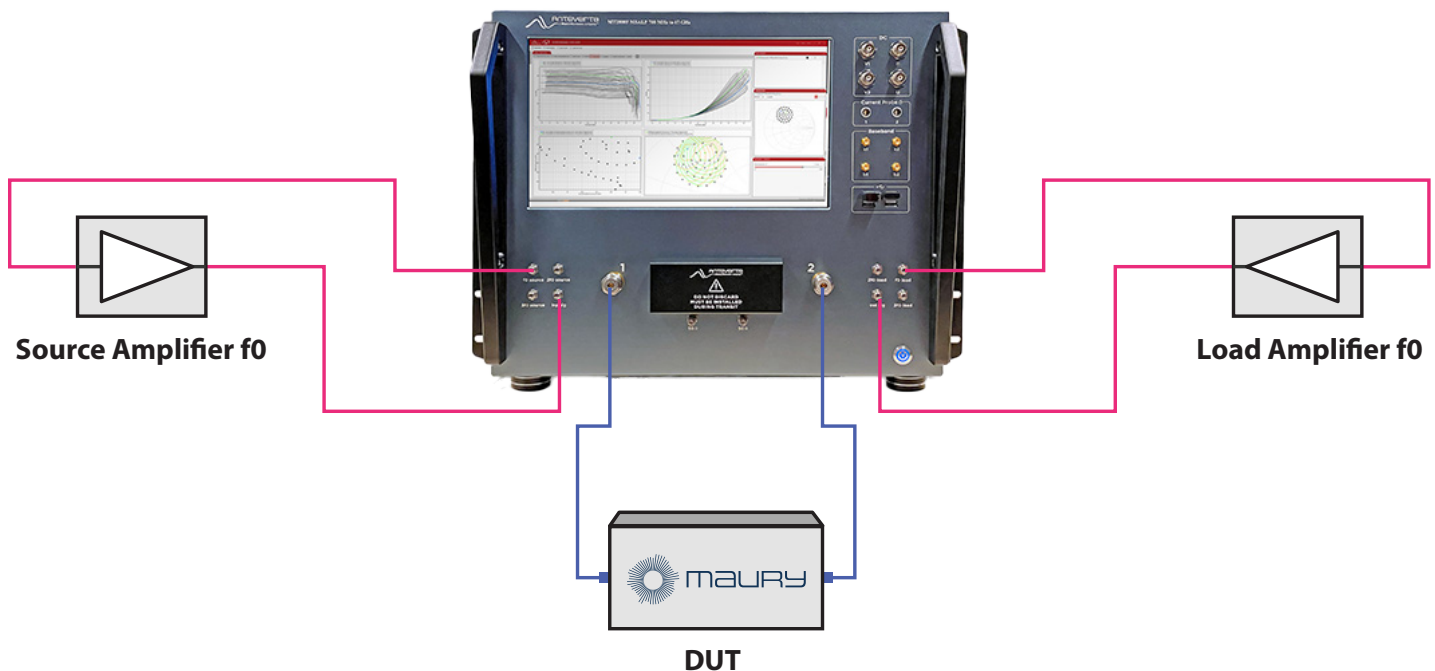
Enabling 5G/6G PA Design with Double RF Pulse & Wideband Load Pull

With the growing importance of wireless applications and increasing use of high data rate protocols, optimizing the linearity and efficiency of amplifiers has become crucial. Traditional large signal characterization test benches based on passive Load Pull face significant challenges. Losses and electrical delay from tuners, cables, and probes constrain the system, limiting the reflection coefficient that can be provided to the DUT.

This demonstration performs Load Pull on a partially matched driver amplifier module (~20 dBm output power) using the Maury Microwave MT2000 mixed-signal active Load Pull system. It will showcase fundamental frequency Load Pull using Single-Tone, Double Pulse, Two-Tone, and Modulated Signals under multiple impedance states and a wide power sweep. All impedances over the modulated bandwidth of 2000 MHz are set to a single impedance state.

The MT2000 can perform Load Pull at high speeds, supporting up to 1000 impedance and power states per minute with no limitation on Smith chart coverage. This turnkey solution provides wideband impedance control for modulated signals across the system's modulation bandwidth. It employs automatic and user defined signal pre distortion to generate a clean modulated signal at the DUT reference plane and can enforce a single, consistent impedance state across the entire modulated bandwidth without phase skew. Standard measurement metrics include adjacent channel power ratio (ACPR), error vector magnitude (EVM), peak to average ratio (PAR), and spectral mask compliance.

Demo Setup



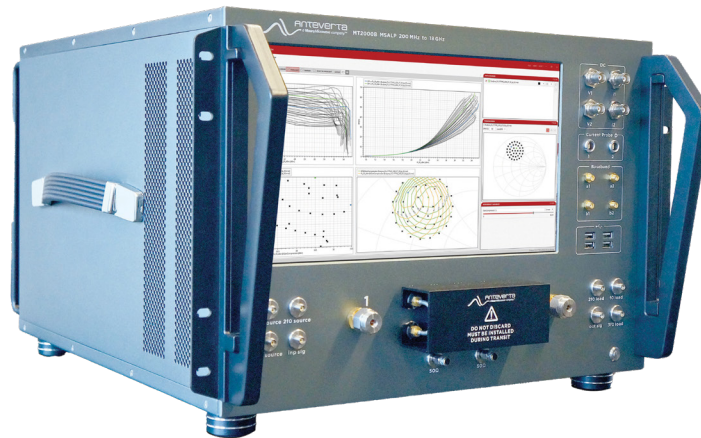
Target Users

Target users include designers of wireless and microwave systems, antennas, and semiconductor devices engaged in technology development, compact model device extraction and validation, and design activities with specific needs related to advanced, high-speed, wideband communications systems.

Product Overview

MT2000 Mixed-Signal Active Load Pull System

The MT2000 is a turnkey one-box Load Pull solution that replaces the functions typically performed by passive fundamental and harmonic impedance tuners, VNAs, NVNAs, analog signal generators, vector signal generators, vector signal analyzers, and oscilloscopes. Moreover, the solution adds the capabilities of high-speed Load Pull measurements and wideband impedance control for modulated signals. By combining multiple bench setups into a single box, offering unrivaled Load Pull speeds, and maximizing Smith chart coverage, the MT2000 is a powerhouse for device characterization, validation of nonlinear compact models, and extracting nonlinear behavioral models.



Key Specifications and Features

Performs Load Pull at high speeds of up to 1000 impedance/power states per minute with limitation-free Smith chart coverage under the following conditions:

- > Single-Tone CW and pulsed-CW RF signal
- > DC and pulsed-DC bias
- > Time-Domain NVNA voltage and current waveforms and load lines
- > Fundamental and harmonic impedance control on the source and/or load
- > Frequencies between 1 MHz and 67 GHz

High-speed Load Pull with high magnitudes of reflection coefficients ideal for:

- > Reducing time-to-market due to faster measurement speeds
- > Eliminating bottlenecks associated with traditional passive mechanical Load Pull systems without compromising accuracy
- > Validating nonlinear compact models
- > Extracting nonlinear behavioral models
- > R&D, design validation test, and on-wafer production test

Wideband impedance control of up to 2000 MHz bandwidth at the fundamental, harmonic, and baseband frequencies and is optimal for:

- > Using ACPR/EVM measurement data in the design of wideband PA circuits
- > Improving PA linearity based on controlled baseband terminations
- > Evaluating the performance of a DUT under realistic antenna load conditions and different matching network topologies

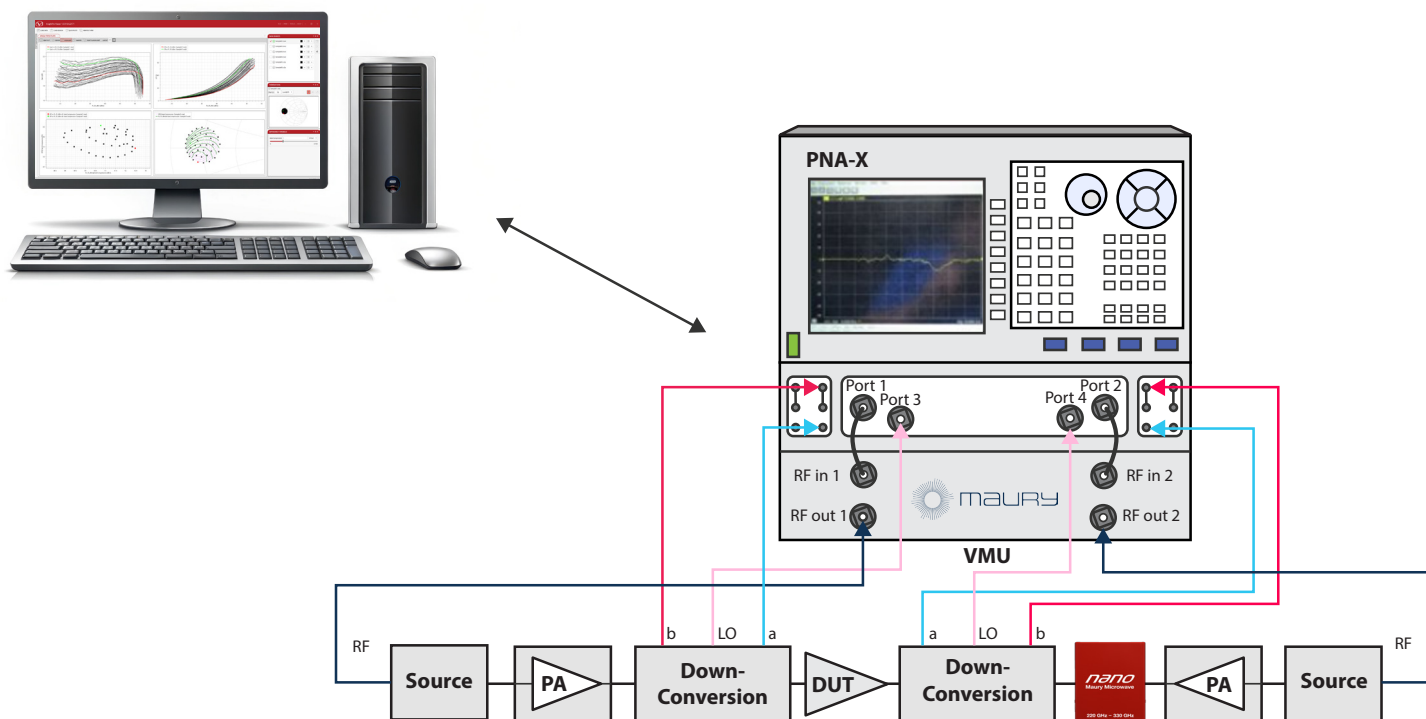
Accelerating D-Band Component Development with VRLP Active Load Pull

Conventional load pull systems often rely on scalar techniques that measure only power levels, without capturing the magnitude and phase of signals at the device under test (DUT) reference plane. These limitations reduce measurement accuracy, introduce de-embedding errors, and restrict the depth of characterization. These challenges become even more critical at higher frequencies such as D-band, which requires extreme precision to maintain reliable and repeatable results.

Vector-receiver load pull (VRLP) addresses these limitations by directly measuring both incident and reflected waveforms (a- and b-waves) at the DUT reference plane. By providing full complex wave information, a VRLP system with the Maury Microwave NT series automated impedance tuner and powerful InsightPro™ software enables real-time impedance verification, more accurate power and efficiency measurements, oscillation detection, and enhanced stability analysis at D-band.

Using the VRLP methodology, this demonstration provides S-parameter measurements and active load pull in the WR6.5 waveguide band (110 GHz – 170 GHz) on a waveguide-connectorized amplifier. After signal conversion, the DUT output is presented to the NT series tuner, which generates wide-ranging impedance states across the Smith chart while maintaining exceptional accuracy and repeatability. By maximizing VSWR at the DUT reference plane and minimizing phase skew, the NT series ensures reliable, high-performance D-band load pull. In this setup, the InsightPro device characterization software streamlines VRLP measurements, optimizes analysis workflows, and delivers advanced data visualizations.

Demo Setup



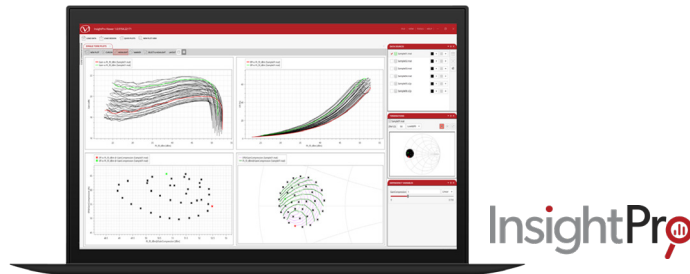
Target Users

Target users include professors, design engineers, technicians, and researchers who are involved in mmWave/Rf analog design, device modeling, and device characterization.

Product Overview

InsightPro Measurement and Modeling Device Characterization Software

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- > Models are available with integrated low-loss, high-directivity coupler

Validating 5G NTN Performance Through Realistic Satellite Link Emulation

Satellite communication links introduce a range of impairments that can challenge reliable 5G NTN performance. As satellites move relative to user equipment (UE), the changing signal path produces time-varying propagation delay, while high orbital velocities, particularly in low-Earth orbit (LEO) satellites, can impose significant Doppler shifts on the received signal. These conditions require 5G NTN devices to track and compensate for changes in signal timing and frequency to maintain reliable connectivity. Satellite links are also affected by variations in path loss, atmospheric scintillation, AWGN, and multipath fading, creating a complex, continuously changing RF environment that must be accurately recreated during testing.

The Maury Microwave ACE9000 Series Advanced Channel Emulator emulates these real-world link conditions in a controlled laboratory environment. The ACE9000 can apply impairments including delay, Doppler/frequency offset, attenuation, phase offset, AWGN, and multipath fading, allowing engineers to evaluate receiver and system performance under repeatable satellite-channel conditions.

In this demonstration, two Callbox Minis create an end-to-end 5G NTN connection, with one emulating the network and the other the UE. The 5G NTN signal passes through the ACE9000, which applies channel impairments to emulate dynamic satellite link conditions and assess system performance before deployment.

Demo Setup



Target Users

Target users include design engineers and system integrators working on satellite communications systems and NTN.

Product Overview

ACE9000 Advanced Channel Emulator

The ACE9000 Advanced Channel Emulator (ACE) is the most advanced non-terrestrial RF channel emulation solution to date. The emulated impairments include delay, signal Doppler, attenuation, phase offset, AWGN, frequency hopping, payload, and multipath fading. The instrument can house up to four 600 MHz instantaneous bandwidth channels. Impairment emulation can be set to fixed values in Static Mode or continuously changed in real time in Dynamic Mode without any phase discontinuities.



Key Specifications and Features

- > 600 MHz of instantaneous bandwidth per channel
- > Timing synchronization up to 16 channels
- > Link emulation including:
 - > Phase continuous delay, Doppler, and attenuation changes
 - > AWGN and Eb/No
 - > 12 tap (path) multipath fading with Rayleigh, Rician, and CW. Angle of Arrival (AOA), k-factor, and correlation controls
 - > RF frequency-agile up/down converters
- > Payload emulation including:
 - > IMUX/OMUX amplitude and group delay distortion
 - > Amplifier compression (AM/AM and AM/PM)
 - > Phase noise
- > Static and dynamic link emulation
- > Ephemeris data generation using SATGEN
- > Remote instrument control through ACE Client application

ACE Client GUI Application

The ACE Client GUI is a comprehensive application that enables the remote control of all ACE functions, graphically displays impairment file contents, and provides wizards for creating custom profiles for payload impairments. The ACE Client GUI also enables signal capture, which generates both time and frequency domain plots of the excitation signal and the output signal after the application of impairments.

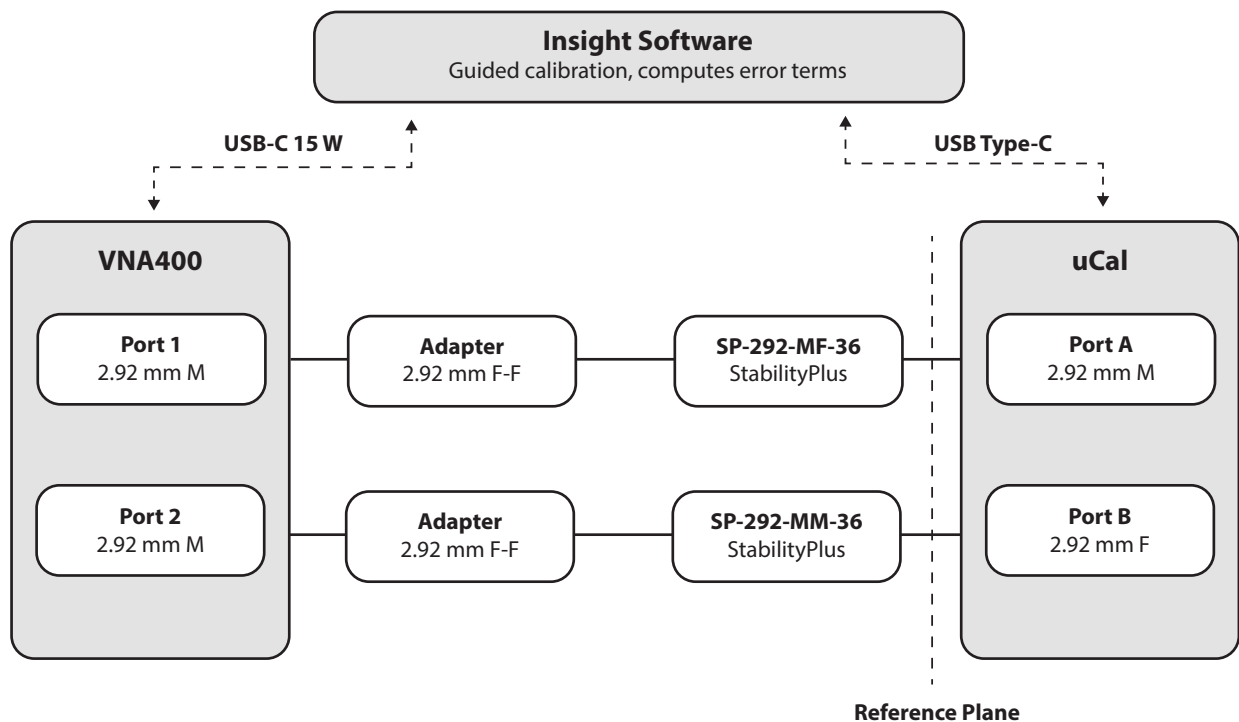
Accelerating VNA Calibration and Improving Measurement Integrity

Accurate VNA calibration ensures reliable measurements by correcting systematic errors introduced by the measurement system, cables, and connectors. When using individual calibration standards, users must manually connect and disconnect each standard throughout the calibration process, increasing calibration time and introducing opportunities for handling errors such as connector inconsistencies and improper torquing.

Maury Microwave Universal VNA Calibration Modules (uCal) simplify and expedite VNA calibration by automating the use of calibration standards, enabling accurate, repeatable results with minimal user interaction. uCal integrates precisely defined calibration standards, each individually characterized and stored in onboard memory. Electronic switching enables rapid transitions between standards without physically disconnecting or reconnecting cables.

In this demonstration, two ports of a VNA400 are connected to a Maury UC40-292 uCal through 2.92 mm adapters and Maury StabilityPlus phase-stable cable assemblies. Maury Insight VNA calibration and measurement software manages the calibration and measurement process, communicating with both the VNA and uCal and guiding the user through the workflow. During calibration, the uCal electronically switches between the integrated Short, Open, Load, and Thru (SOLT) standards. Based on these measurements and the known parameters of the standards, Insight computes and applies error correction to the measurement system. Insight also combines uncertainty data associated with the uCal standards with system-level uncertainty contributions to quantify measurement uncertainty and display uncertainty boundaries alongside the final measurement results.

Demo Setup



Target Users

Target users include RF/microwave R&D, test, validation, and production engineers performing VNA calibration and measurements, particularly across different VNA makes, models, and generations.

Product Overview

uCal Universal VNA Calibration Module

The uCal modules are an electronically controlled calibration solution designed to simplify and improve the accuracy of VNA measurements. uCal employs an SOLT calibration methodology, with all calibration standards fully integrated within the uCal module. These standards are internally switched using high-performance electronic switching, eliminating the need for manual reconnections and significantly reducing the potential for user-induced variability. Available models include the UC40-292 (50 MHz–40 GHz, 2.92 mm), UC26-35 (50 MHz–26.5 GHz, 3.5 mm), UC18-7 (50 MHz–18 GHz, 7 mm), and UC18-N (50 MHz–18 GHz, Type N).



Key Specifications and Features

- > **Speed:** Calibration is faster since there is no need to manually connect and disconnect standards
- > **Accuracy:** Eliminates errors caused by manual handling, such as connector inconsistencies and improper torquing
- > **Ease of Use:** Minimal user interaction is required, making calibration simpler and more accessible
- > **Reliability:** Reduces wear and tear on VNA ports and connectors, prolonging their lifespan
- > **Consistency:** Provides repeatable results across multiple calibration sessions and users

Insight VNA Calibration & Measurement Software

Insight is a VNA calibration and measurement software suite designed to empower VNA users and help them make better decisions by simplifying VNA calibration, validation, measurement, visualization, and analysis. It provides a consistent, user-friendly interface across VNAs from different manufacturers and generations, streamlining instrument control and workflow. Used with uCal, Insight provides a guided calibration process and serves as the primary interface between uCal and commercial VNAs that do not directly support it. By consolidating calibration, measurement, uncertainty quantification, and data analysis into a single platform, Insight helps users improve both the accuracy and efficiency of their measurement processes.

Key Specifications and Features

- > Define mechanical calibration standards from any vendor and use with all VNAs
- > Avoid common errors with a simplified calibration process empowered by an intuitive GUI and wizard
- > Validate VNA calibration using airlines and individually characterized verification kits
- > Understand measurement results better with advanced visualization and analysis tools
- > Identify and quantify the individual contributions of uncertainty
- > Display uncertainty boundaries alongside measurement results

Electronic Warfare and Counter-UAS Testing with Broadband Noise Generation

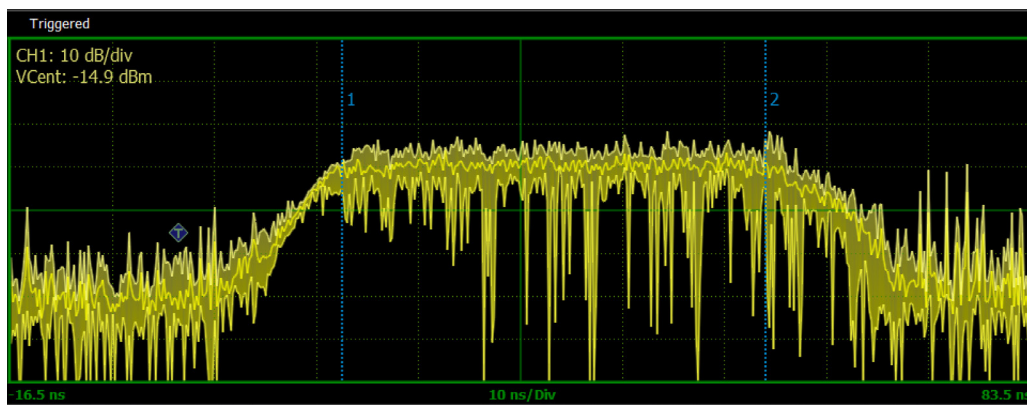
Electronic warfare (EW) and counter-UAS systems use RF and microwave technologies to detect, track, disrupt, and disable threats. Radar supports target detection and tracking, while electronic countermeasures use techniques such as noise jamming to disrupt RF communications and GNSS signals. High-power microwave (HPM) systems generate powerful electromagnetic energy to neutralize electronics within its beam footprint.

Maury Microwave provides laboratory test and measurement solutions for characterizing RF signal chains used in EW systems. HSM signal sources provide controlled CW and pulsed RF signals, while UFX7000B/RFX7000B programmable noise generators provide controlled noise and interference. RF power amplifiers amplify these signals to the required test levels, and RTP5000 series peak power sensors and the 4500C peak power analyzer characterize signal performance, including power, pulse timing, rise/fall time, and waveform shape. These capabilities can also support the evaluation of receiver sensitivity and performance under controlled interference.

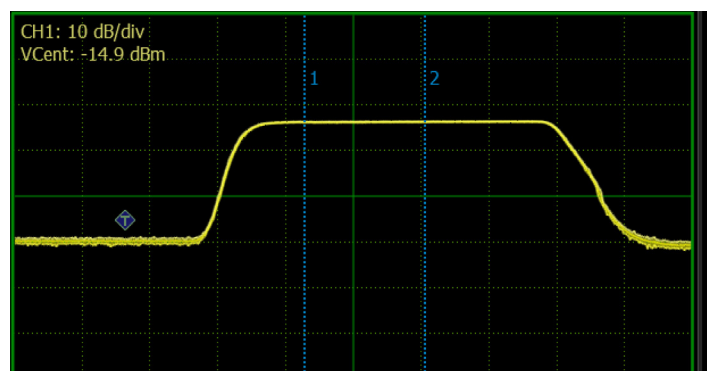
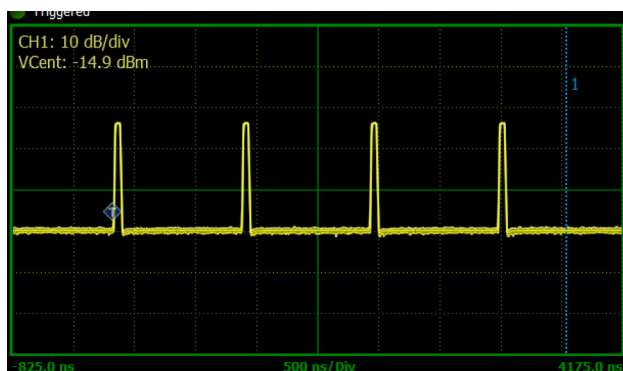
Maury also provides solutions that support the validation of EW and counter-UAS applications and can be integrated into field-deployed systems. UFX7000B/RFX7000B programmable noise generators combined with MPA series amplifiers provide controlled interference signals for validating applications such as noise jamming, RF link denial, and GNSS interference. For field-deployed systems, noise diodes and modules provide compact noise-generation capabilities, HSM sources provide fast-switching CW or pulsed RF signals, and compact pulsed power amplifiers provide high-performance amplification as integrated system building blocks.

At EuMW 2026, Maury will highlight solutions spanning both areas, from laboratory TX/RX component and signal characterization to RF technologies for integration into EW and counter-UAS systems.

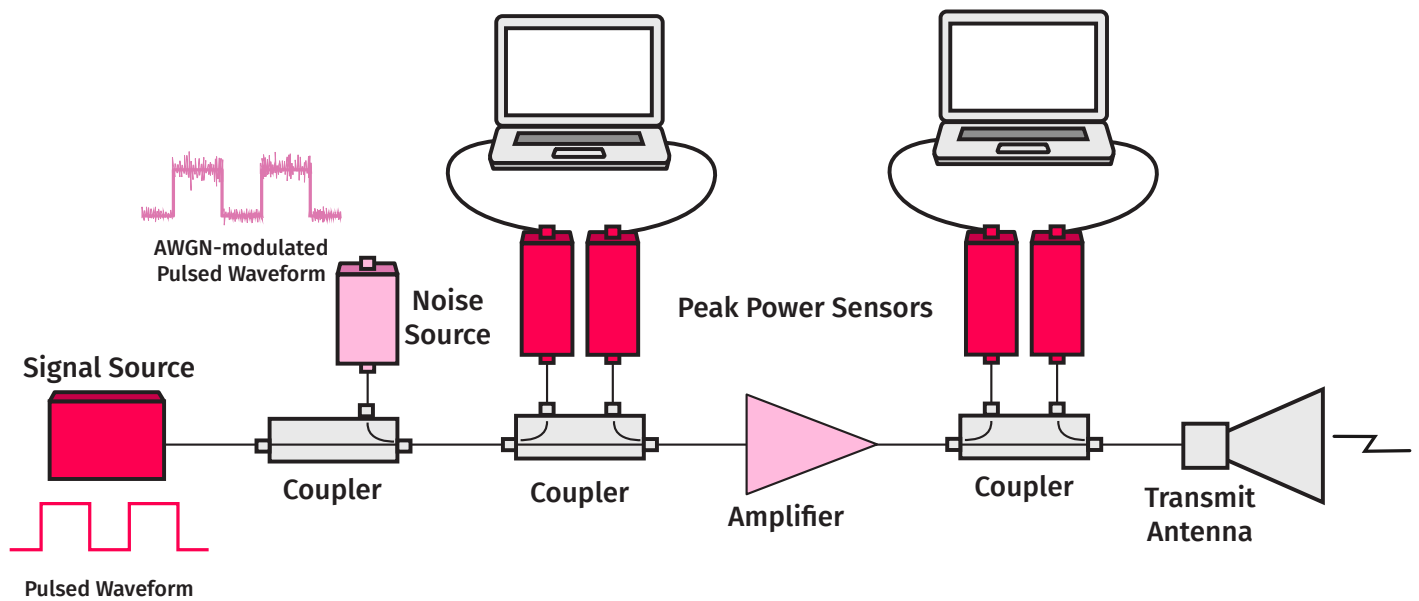
EW and Counter-UAS Application Examples



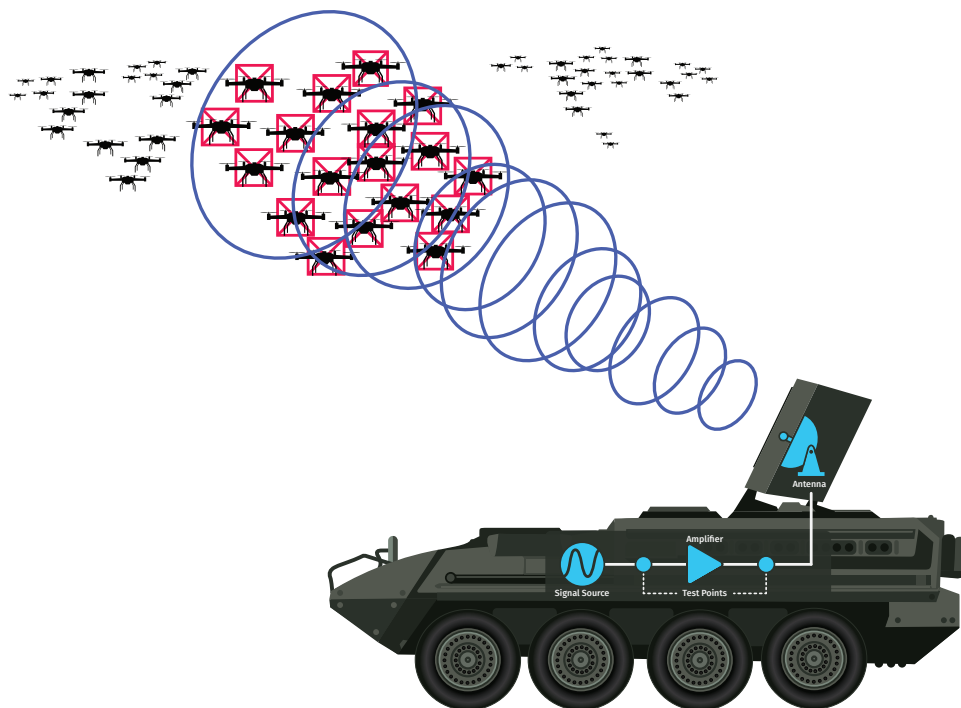
Maury noise generation solutions create controlled noise-modulated HPM pulses, such as this example with 40 MHz AWGN and a 10 dB crest factor.



Maury peak power measurement solutions characterize HPM pulse performance, shown here capturing 1.3 dBm peak power, -20.5 dBm average power, +952 kHz PRF, 1 μ s period, and 4.6% duty cycle of a pulse train (left) as well as narrowing in on a single pulse (right) with a 5.3 ns rise time.



In this HPM transmit chain example, Maury solutions generate pulsed and noise-modulated waveforms, amplify the resulting signal, and characterize power and signal fidelity.



Maury HPM solutions support RF signal chain R&D for counter-USA applications designed to neutralize drone swarms.

Target Users

Target users include RF and microwave engineers, system designers, and integrators developing and testing counter-UAS systems.

Product Overview

UFX7000B Programmable Noise Generator

The UFX7000B broadband AWGN generator has a powerful single board computer with a flexible architecture used to create complex custom noise signals for advanced test systems. This versatile platform allows the user to meet their most challenging design requirements. Precision components provide high output power with superior flatness, and the flexible computer architecture allows control of multiple attenuators, switches, and filter banks.



Key Specifications and Features

- > Output White Gaussian noise
- > Output power up to +30 dBm
- > 127 dB of attenuation; 0.1 dB step size
- > Units > 2 GHz have total attenuation of 79.9 dB
- > Low distortion signal path
- > Power 115 VAC, 60 Hz

NC3000 Series Calibrated Coaxial Noise Sources

The NC3000 Series calibrated coaxial AWGN sources are well suited for receiver testing, noise figure measurements, or applications that require broadband noise and fast switching times. Several models include output isolators, and voltage regulators that provide excellent stability over varying temperature and voltage ranges.



Key Specifications and Features

- > Excellent temperature and voltage stability
- > Units for noise figure meters feature 15.5-dB $\pm$ 0.75 dB ENR output
- > High-output units for radar and satellite communications system testing feature output between 26 and 35 dB $\pm$ 1 dB ENR

Broadband and High-Power Solid-State Power Amplifiers

Built on advanced solid-state technology, the MPA series amplifiers provide excellent linearity, low distortion, and stable output power, making them well suited for demanding research, test, and communications applications. The solid-state architecture enhances durability, reduces maintenance, and ensures consistent performance during continuous operation. Maury offers extensive customization to meet the stringent integration requirements of aerospace and defense (A&D) applications.



Key Specifications and Features

- > State-of-the-art solid-state GaN PAs
- > Broadband design for modulated signals
- > Psat from 10W to KW
- > Integrated protection circuitry and coupler
- > Remote control
- > TTL and LVTTTL options enabling fast T_{rise} and T_{fall} (20ns)

End-to-End RF Solutions for EMC Immunity Testing

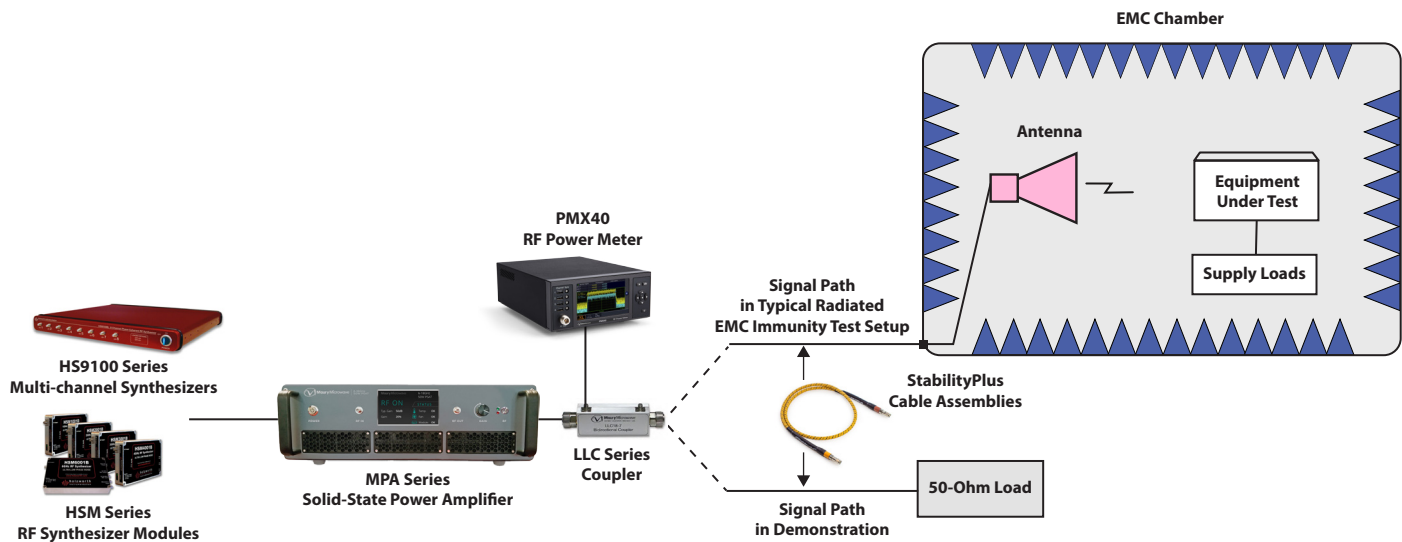
Electromagnetic compatibility (EMC) immunity testing evaluates device performance under different levels of electromagnetic interference. Amplifiers are used to generate the power levels necessary to drive antennas to required field strengths within EMC chambers. To ensure test accuracy and compliance, amplifiers must provide wideband frequency coverage, maintain linearity for signal integrity, and efficiently handle modulated signals. Power measurement instrumentation is used to monitor and verify signal power, while couplers and stable interconnects support accurate signal routing and transmission throughout the test setup.

This demonstration highlights how Maury Microwave signal generators, amplifiers, power measurement instrumentation, and interconnects support precise and reliable EMC immunity testing. The HS9100 series multi-channel RF synthesizer and HSM RF synthesizer modules provide a high-performance, low-phase-noise test signal. An MPA series solid-state GaN power amplifier delivers the wideband frequency coverage, output power, and linearity required to amplify the test waveform while maintaining signal integrity. The amplified signal is routed through the LLC Series coupler, enabling signal power measurement and analysis using the PMX40 benchtop RF power meter. StabilityPlus™ cable assemblies provide consistent phase and amplitude characteristics for accurate signal transmission in demanding, high-frequency EMC test environments.

CW Amplifiers

Frequency (GHz)	Maximum Psat (kW)
0.08 - 1	5
1 - 6	2
2 - 8	2
2 - 18	0.25
6 - 18	2
8 - 12	2
18 - 26.5	1
18 - 40	0.4
26.5 - 40	1
40 - 54	0.2

Demo Setup



Target Users

Target users include design and test engineers responsible for measuring and validating device performance in electromagnetic environments and ensuring compliance with industry-specific EMC standards.

Product Overview

HS9100 Series Multi-Channel RF Synthesizers

The HS9100 series multi-channel platform is designed to achieve optimal channel-to channel stability across multiple integrated channel synthesizers via a thermally optimized enclosure. Specific attention is paid to phase coherency between the independently controllable channels. Application specific frequency options can be configured to cover combinations up to 1 GHz, 2 GHz, 3 GHz, 4 GHz, 6 GHz, 12 GHz, and 18 GHz.



Key Specifications and Features

- > Frequency range: 10 MHz to 18 GHz
- > Up to 8 independently controlled phase
- > Mix or match 1, 2, 3, 4, 6, 12, and 18 GHz channels
- > Compact 1U form factor
- > 16 channel narrowband configuration available

HSM Series RF Synthesizer Modules

The HSM series RF Synthesizers are microwave CW sources that are architected on a non-PLL based platform. The digital-analog hybrid design provides excellent phase noise performance and spurious response, which complement the phase coherent nature of these digital-analog hybrid signal sources. The HSM Series offers several models that cover increasingly wider bandwidths so users can best match an application requirement while optimizing the price point.



Key Specifications and Features

- > High amplitude accuracy
- > Agile frequency switching speeds
- > 1, 2, 3, 4, 6, 12, 18 GHz modules

Broadband and High-Power Solid-State Power Amplifiers

The MPA series provides robust output power, linearity, and the reliability required to meet compliance standards. Designed for continuous operation across broad frequency ranges, they deliver stable, repeatable performance for immunity and emissions testing. Their solid-state architecture ensures durability, low maintenance, and dependable results in demanding EMC test environments.



Key Specifications and Features

- > State-of-the-art solid-state GaN PAs
- > Broadband design for modulated signals
- > Psat from 10W to KW
- > Integrated protection circuitry and coupler
- > Remote control
- > TTL and LVTTTL options enabling fast T_{rise} and T_{fall} (20ns)

PMX40 Benchtop Power Meter

The PMX40 provides design engineers and technicians the utility of traditional benchtop instrument, the flexibility and performance of modern USB RF power sensors, and the simplicity of a multi-touch display.



Key Specifications and Features

- > Capture/display/analyze peak and average power
- > Frequency range from 4 kHz to 40 GHz
- > 195 MHz video bandwidth, 3 ns rise time, 100,000 Meas/s, 100 ps time resolution
- > Synchronous multi-channel measurements (up to 4 channels)
- > Sensors can be used as standalone instruments

StabilityPlus Phase-Stable Cable Assemblies

StabilityPlus (SP-series) sets the standard for high-performance ruggedized microwave/RF cable assemblies. Designed specifically for phase-stable and amplitude-stable applications, the SP-series offer excellent measurement repeatability even after cable flexure.



Key Specifications and Features

- > The industry's best amplitude and phase stability with flexure
- > Flexible to facilitate easy installation
- > Durable, ruggedized and crush-resistant
- > Color-coded connectors to avoid damage caused by connector mismatch

Low-Loss, High-Power Bidirectional Airline Couplers

Combining precision machining with stellar electrical characteristics, the LLC-series of bidirectional airline couplers represent high-power coupler technology and offer unmatched performance with high directivity and low insertion loss for broadband performance.



Key Specifications and Features

- > High power handling for all power applications
- > High directivity for improved accuracy
- > Low insertion loss for maximum performance
- > Broadband frequency coverage for all popular applications
- > Excellent VSWR for improved match

Higher Reliability RF Power: Solid-State Alternatives to Traveling Wave Tubes

Maury solid-state power amplifiers are based on modern GaN technology with outstanding linearity performance and reliability. Ideal for CW, pulsed, and modulated signals for EMC, EW, radar, and component testing, Maury power amplifiers are the ideal wideband and high-power solution to simplify bench setup and optimize measurement time.

CW Amplifiers

Frequency	Maximum Saturated Power capabilities – CW Amplifiers
0.4–12 GHz	100 W
0.6–6 GHz	2000 W
2–8 GHz	2000 W
2–18 GHz	250 W
6–18 GHz	2000 W
8–12 GHz	2000 W
18–26.5 GHz	1000 W
18–40 GHz	400 W
26.5–40 GHz	1000 W
40–54 GHz	200 W
90–98 GHz	30 W

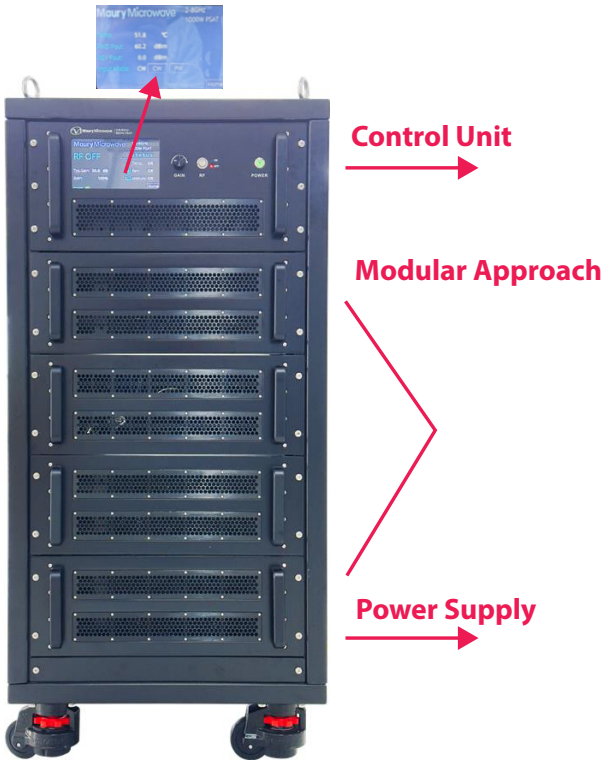
Pulsed Amplifiers

Frequency	Maximum Saturated Power capabilities – kW Pulsed Amplifiers
2–4 GHz	10 kW
4–8 GHz	10 kW
8–18 GHz	5 kW
8–12 GHz	12 kW
12–18 GHz	7 kW

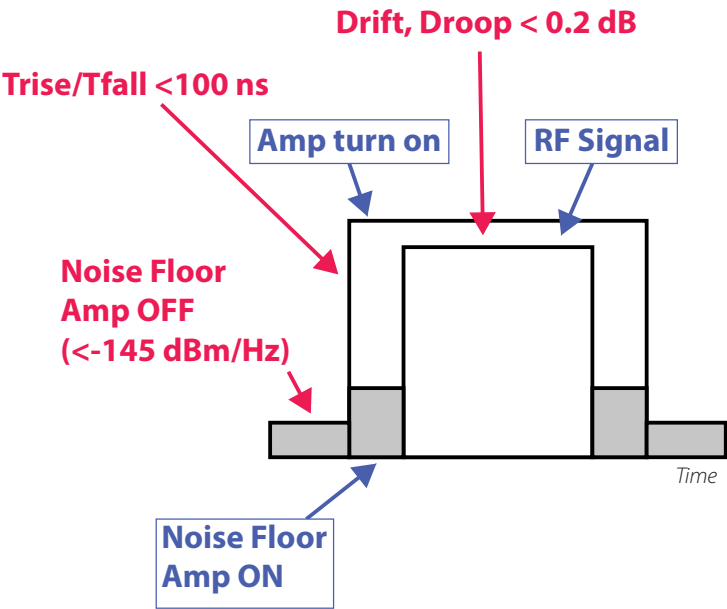
Features and Options

- > Integrated control unit for diagnostic and remote operation
- > Modular approach (Control unit, RF modules, Power supply)
- > High VSWR load protection and operation. Options from 6:1 to infinite.
- > Customization capabilities:
 - > TTL
 - > Integrated switches
 - > Integrated low loss couplers
 - > CW and peak detectors
 - > Form factor and system integration

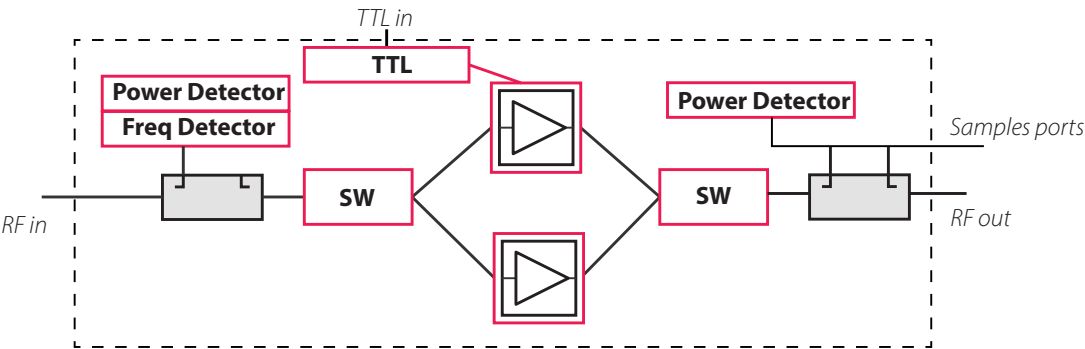
Modular Approach



Pulsed Features (TTL)



Custom Options



Options
Coupler
TTL
Sample ports
Switch
Interlock
Ports on the rear

Products on Display at EuMW 2026

Explore Maury Microwave products on display at EuMW 2026, including solutions for RF and microwave calibration, device characterization, power measurement, noise generation, signal generation, and more. The products featured below are designed to enable accurate, reliable, and repeatable RF and microwave measurements.

Product Overview

Adapters

Calibration-grade metrology adapters have been designed as an integral part of the renowned Maury VNA calibration kits and are also available separately where calibration-grade precision is demanded. Calibration-grade metrology adapters offer the lowest VSWR reducing the mismatch between connected components and are available in both coaxial and waveguide configurations.

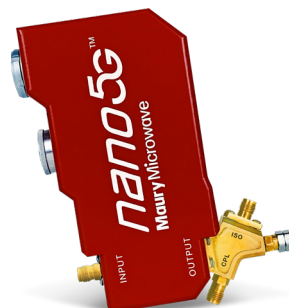
ColorConnect™ color-coded precision adapters (CC-series) have been designed for lab and field use where quality, performance, ease-of-identification, and ease-of-use are critical. Following the IEEE P287 high-frequency connector/adaptor color convention, ColorConnect precision adapters offer clear indications of compatibility.

Test Essentials™ lab adapters (TE-series) have been designed for daily use in microwave/RF labs and production facilities and offer one of the industry's best price/performance values. Test Essentials feature excellent electrical performance, rugged construction for durability, repeatable mating, and high reliability.



Automated Impedance Tuners

Nano™ Series (NT-series) automated impedance tuners enable high-gamma load- or source-pull characterization across a wide spectrum. The tuners' compact size simplifies on-wafer probe station integration with a direct probe connection, effectively maximizing VSWR at the DUT reference plane and minimizing phase skew for modulated signals.

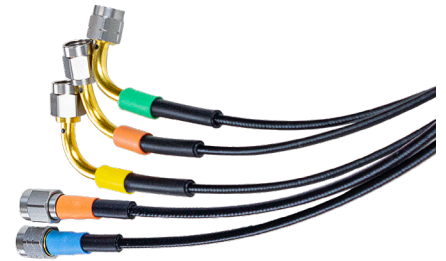


Cable Assemblies

StabilityPlus™ phase-stable cable assemblies (SP-series) set the standard for high-performance ruggedized microwave/RF cable assemblies. Designed specifically for phase-stable and amplitude-stable applications, StabilityPlus offers excellent measurement repeatability even after cable flexure.

StabilityVNA™ test port cable assemblies (SV-series) are the industry's highest performing VNA cables. StabilityVNA offers superior amplitude and phase stability with flexure, thereby improving measurement accuracy while reducing measurement uncertainty and increasing confidence in measurements.

StabilityWafer™ on-wafer probing cable assemblies (SW-series) have been specifically designed to empower accurate and repeatable on-wafer measurements when used with coaxial wafer probes. Its small outer diameter, light weight, superior flexibility, and availability of various connector angles allow for easy routing and minimally impact probe tips mechanically while providing reliable and repeatable RF measurements.



Calibration & Gage Kits

Connector gage kits provide an easy and accurate way to measure critical linear interface dimensions of most coaxial connectors. Identifying recessed, protruding, and non-concentric contact pins will avoid incomplete connections and unrepeatability measurements and prevent damage to mated connectors.

Universal VNA Calibration Modules (uCal) simplify and expedite VNA calibration by automating the use of calibration standards, reducing human error, and providing accurate results with minimal manual intervention.

VNA coaxial calibration kits are offered in Polynomial SOLT, Characterized Device (CD) SOLT, and TRL, depending on the connector series. Where available, CD kits improve calibration accuracy when compared to SOLT kits based on polynomial definitions as each calibration kit is provided with individually characterized short, open, and fixed load standards, whose S-parameters can be loaded into commercial VNAs directly or when used with Maury's Insight™ software platform.

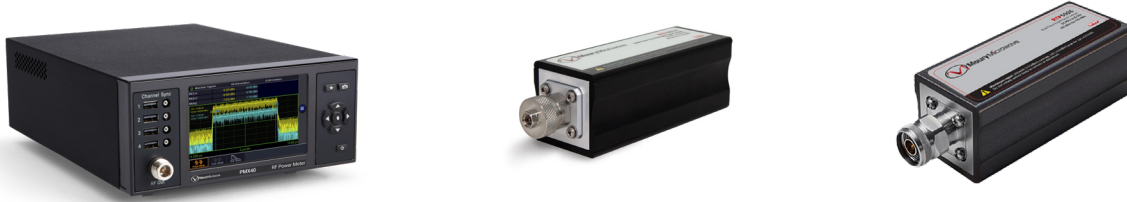


Power Meters & Sensors

The PMX40 benchtop RF power meter provides design engineers and technicians the utility of a traditional benchtop instrument, the flexibility and performance of modern USB RF power sensors, and the simplicity of a multi-touch display built with Maury award-winning technology.

RTP4000 USB true-average power sensors provide 80 dB dynamic range and a frequency range down to 4 kHz and up to 40 GHz. Built with Real-Time Power Processing™, these sensors deliver 100,000 measurements per second, virtually no gaps in signal acquisition and zero measurement latency.

RTP5000 USB peak power sensors provide the highest video bandwidth and fastest rise times. With Real-Time Power Processing, they deliver 100,000 measurements per second, no gaps in signal acquisition and zero measurement latency. This performance is combined with automatic pulse measurements, CCDF and crest factor statistical analysis, multi-channel capabilities, and documentation tools.



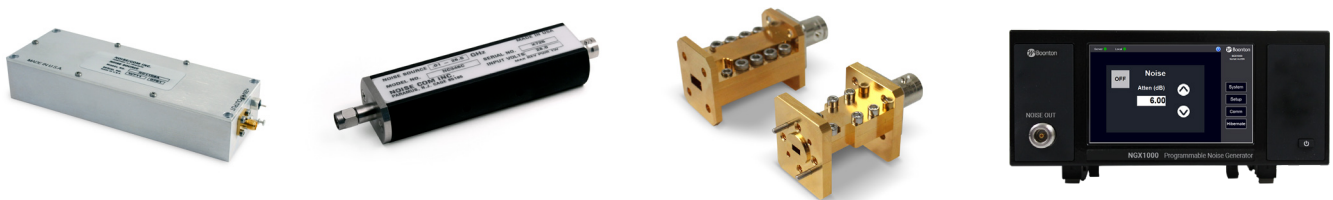
Noise Generators

NC1000 series amplified noise modules produce AWGN as high as +13 dBm, and have bandwidths up to 18 GHz. The high power modules are designed to test noise immunity for Cable TV equipment, secure communication channels, and military jamming systems. The lower power modules, ≤ 0 dBm, are random jitter sources for many applications, including PCIe, Infiniband, and 10 GbE.

NC346 series broadband calibrated noise sources are designed for precision noise figure measurement applications. Each module's low VSWR reduces multiple reflections and significantly increases the measurement accuracy for most noise figure test configurations.

NC5000A series calibrated mmWave waveguide noise sources feature outstanding stability, switching speed, and ripple-free response over standard waveguide bands. The high stability of the NC5000A series allows these units to be used in place of cumbersome gas tube noise sources.

The NGX1000 programmable noise generator is a high performance, broadband AWGN generator in an easy-to-use compact form factor. The streamlined user interface and flat menu structure provides a fast, simple way to add RF noise in a communications system to test reliability, robustness, and performance.



Signal Generators & Signal Sources

HSM series RF synthesizer modules are architected on a non-PLL based platform. The digital-analog hybrid design provides excellent phase noise performance and spurious response, which complement the phase coherent nature of these digital-analog hybrid signal sources.

SGX1000 series RF signal generators offer high-performance signal generation with an easy-to-use interface in a compact form factor. The SGX1000 utilizes a proprietary blend of direct digital and direct analog synthesis to provide ultra-fine frequency resolution, lightning-fast frequency switching, ultra-low phase noise and jitter, and superior reliability.



More from Maury at EuMW 2026

Maury Microwave is your trusted calibration, measurement, and modeling solutions partner. We collaborate closely with customers, embracing their objectives as our own to empower innovation from RF through sub-THz – your success is our success. Whether launching a new semiconductor technology or satellite payload, our calibration, calibration validation, measurement, measurement verification, modeling, and data analysis solutions ensure the right decisions are made every step of the way.

We understand that the quality of data drives the quality of decisions. Leveraging our measurement science expertise, we identify, create, and supply each element in complex measurement systems to ensure accuracy and repeatability. Our comprehensive, integrated approach, from initial calibration and verification to advanced instrumentation hardware to precise measurement and analysis, enables innovators to confront the barriers facing the development and execution of next-generation wireless technology.

Continue exploring featured EuMW 2026 technologies, demonstrations, products, and technical resources from Maury by scanning below.



<https://maurymw.com/info/eumw-2026>



EuMW 2026

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