



**Maury Microwave**

Company  
Profile



Maury Microwave  
is ISO: 9001:2015/  
AS9100D Certified.

# WE COMPLETE YOUR LAB WITH BEST-IN-CLASS SOLUTIONS





## Our Mission

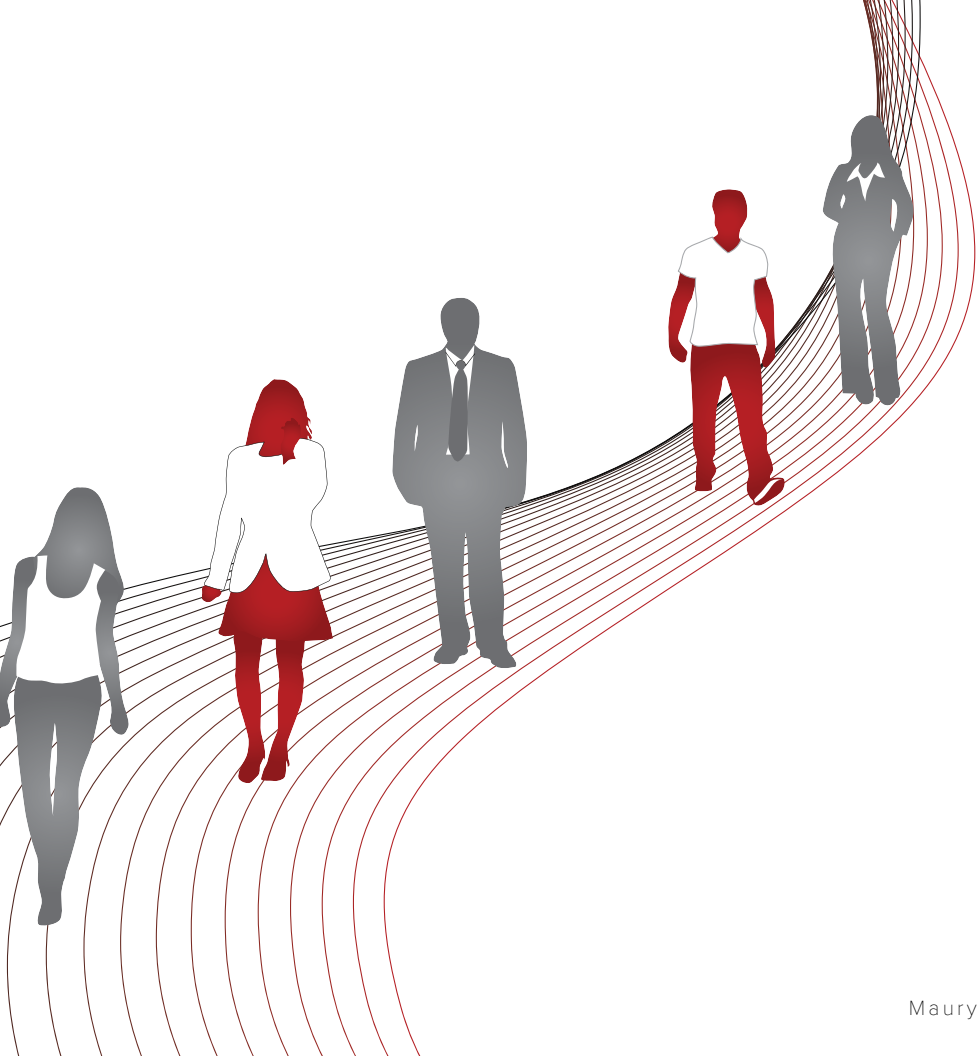
Our mission is to empower our customers with state-of-the-art measurement and interconnect solutions that drive the world's best wireless communication systems.



## Our Values

1. Always being part of the Solution
2. Service to our customers, partners and teammates
3. Mutual Accountability to our goals and commitments
4. Commitment to our Company Mission, Values and Objectives
5. Passion and Determination in our work
6. Nurturing our Employees' growth





## A JOURNEY THROUGH INNOVATION & EXCELLENCE

- › Maury moves into dedicated headquarters and releases first catalog.

- › HP partners with Maury to provide calibration kits for newly launched 8510.



- › Maury & Associates is founded by Mario Sr, Mario Jr and Marc Maury.

- › Maury experiences exponential growth fueled by U.S. aerospace and defense industries.

- › Maury releases first commercial automated impedance tuner system.

- › Agilent selects Maury as exclusive partner in non-50Ω test and measurement.

- › Maury launches Stability™ and Utility™ cables, Test Essentials™ and ColorConnect™ adapters And opens office in Russia.

- › Stay tuned for exciting things to come!



2001

2010

2013

2015

FUTURE

- › Maury signs strategic partnership agreements with Antevarta and AMCAD and opens office in China.

- › Maury acquires Antevarta and opens office in Europe.

O U R

OUR

P O R T -

PORTFOLIO

F O L I O





## MW & RF Device Characterization Solutions

At Maury Microwave, we specialize in providing application-specific solutions that meet our customers' requirements today and in the future. All of our solutions are designed around our time-tested and proven uW, RF and mmW products, including software suites, impedance tuners and accessories.



## Precision Calibration Solutions

Measurement results can be questionable if the instruments used are improperly calibrated. Maury Microwave offers a large selection of calibration-grade metrology solutions for network analysis and instrumentation calibration.



## Interconnect Solutions

As the strongest chain is only as good as its weakest link, so is the most advanced measurement influenced by the smallest interconnect. Maury Microwave offers calibration-grade metrology, precision and lab interconnect solutions including cable assemblies, adapters and more.



# 01

## **DEVICE CHARACTERIZATION SOLUTIONS**

Maury Microwave completes the design flow from component to circuit to system-level characterization measurement and modeling.



## Mixed-Signal Active Load Pull System

Active load pull with wideband impedance control for realistic modulated signals (5G, WLAN, LTE, 802.11ac, 802.11ad...) and pulsed-CW load pull, measuring up to 1000 states per minute.

## Pulsed IV/S-Parameters & Compact Transistor Model

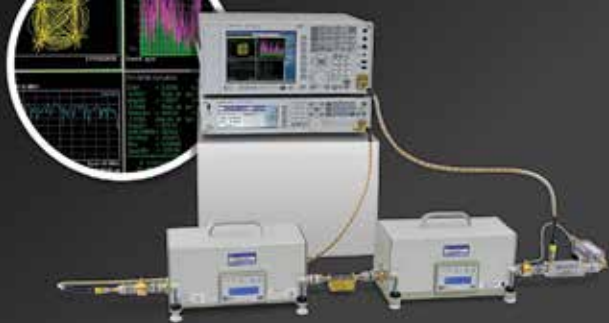
Synchronized pulsed IV/RF measurements used for quasi-isothermal characterization and nonlinear compact model extraction for GaN, GaAs and LDMOS technologies.



## Vector-Receiver (VNA-Based, Real-Time) Load Pull For Model Validation & Design

VNA- and NVNA-based load pull includes time-domain voltage and current waveforms and load lines for waveform engineering.



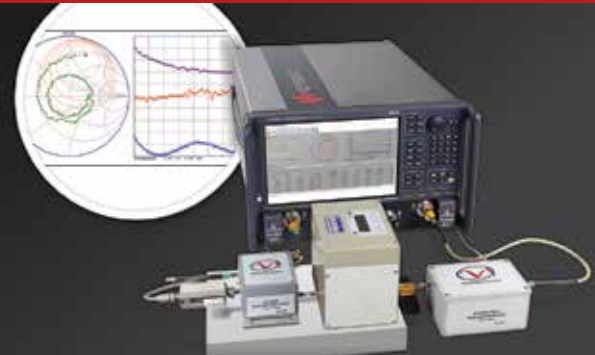


## Traditional Load Pull

Traditional load pull using signal generators and analyzers for CW, pulsed-CW and modulated-signal load pull.

## Improved-Accuracy Noise Parameters

Noise parameter extraction ( $F_{min}$ ,  $\Gamma_{opt}(mag)$ ,  $\Gamma_{opt}(phase)$ ,  $r_n$ ) with up to 100x speed enhancement and improved accuracy.



## LXI-Certified Automated Impedance Tuners

Coaxial tuners covering 225 MHz to 65 GHz and waveguide tuners covering 50 GHz to 110 GHz with Ethernet/USB, direct ASCII commands and integrated web interface.





## Manual Impedance Tuners

Manual slide-screw impedance tuners are available in bands between 400 MHz and 50 GHz.

## Test & Measurement Instrument Amplifiers

Best-in-class amplifiers based on state-of-the-art GaN PA modules with high continuous power, high linearity, with models covering frequencies between 700 MHz and 50 GHz and powers between 1W and 100W.



## Test & Measurement Accessories

Test and measurement accessories including low-loss couplers, high-power pulsed bias-tees, multiplexers, fixtures, downconverters and more.





# 02

## **PRECISION CALIBRATION SOLUTIONS**

Maury Microwave offers the widest range of Vector Network Analyzer (VNA) and noise receiver calibration solutions including coaxial and waveguide calibration kits and standards between DC and 67 GHz.



## Coaxial Calibration Kits & Standards

Fixed-load SOLT, sliding-load SOLT and TRL calibration kits and standards between DC and 67 GHz.

## Waveguide Calibration Kits and Standards

SSLT and TRL calibration kits and standards from WR284 to WR22.



## Noise Receiver Calibration

Cryogenic, ambient and thermal noise calibration systems for the highest-accuracy calibration of noise receivers.

# 03

## INTERCONNECT SOLUTIONS

As the strongest chain is only as good as its weakest link, so is the most advanced measurement influenced by the smallest interconnect. Maury Microwave offers calibration-grade metrology, precision and lab interconnect solutions including cable assemblies, adapters and more.

Maury's interconnect solutions are color-coded to save connection time, eliminate costly damage due to mating of incompatible connectors and easily identify cutoff frequency within a setup.





## StabilityPlus™ Microwave/RF Cable Assemblies

Best-in-class phase- and amplitude-stability with flexure. Ideal for calibrated measurements when using VNA and high-sensitivity receivers. Available up to 67 GHz, with options for low-profile and phase-matched sets.

## Test Port Cable Assemblies

Dedicated NMD connectors, lowest VSWR, highest amplitude and phase stability, highest crush resistance, for VNA measurement applications.



## StabilityBench™ Microwave/RF Cable Assemblies

Best-in-class lab assembly offers low VSWR, low insertion loss, high phase- and amplitude-stability at an incredible value. Available up to 26.5 GHz with SMA and Type-N connectors.





## Metrology Adapters

Calibration-grade metrology coaxial and waveguide adapters offer lowest VSWR and best performance.

## ColorConnect<sup>™</sup> Precision Adapters

ColorConnect<sup>™</sup> Precision Adapters have been designed for lab and field use where quality, performance, ease-of-identification and ease-of-use are critical.



## Test Essentials<sup>™</sup> Lab Adapters

Test Essentials<sup>™</sup> Lab Adapters have been designed for daily use in microwave/RF labs and production facilities and offer one of the industry's best price/performance ratios.



## ColorConnect™ Precision Attenuators

AT-series of fixed coaxial attenuators are used to reduce the power of a RF, MW or mmW signal without distorting its signal quality/waveform.

## Gage Kits

Connector gage kits provide an easy to use, direct reading, self-checking, and accurate way to measure the critical linear interface dimensions of most coaxial connectors.



## Torque Wrenches

Torque wrenches are recommended for tightening coaxial connectors in order to obtain optimum repeatability and prolong connector life.



## KEY FACTS



### 61 Years Old

Maury Microwave continues to be a stable company since its founding in 1957.



### Brand Name

Maury Microwave is a valuable globally-recognized brand synonymous with quality and trust.



### Quality Compliance

Maury Microwave has been ISO9001 certified since 2001 and AS9100 certified since 2009.



### Primed For Growth

Maury Microwave continues to expand its offerings by leveraging its expertise and customer list to penetrate into new applications, industries and markets.



### Vertically Integrated

Maury Microwave integrates R&D, design, manufacturing, calibration and repair, warehousing and shipping from its office in Ontario, California.



### Worldwide Support

Maury Microwave has R&D and support offices in USA, the Netherlands, Russia and China and representative sales offices in 40 countries worldwide.

## OUR ROLES

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### Advisor

Leverage Maury's vast measurement and modeling experience to advise solutions that address customer challenges.



### Integrator

Integrate Maury's hardware and software with instruments, probe stations and components to assemble best-in-class solutions.



### Validator

Take ownership of system performance; validate accuracy, repeatability and overall performance of turnkey solutions.



### Trainer

Train customers on best-usage practices and tips-and-tricks to achieve first-pass success.



### Coach

Coach and support customers as their requirements evolve.

## STRATEGIC PARTNERS



### Anteverta-mw

Anteverta-mw is a pioneer of large signal device characterization methodologies and systems, and high efficiency/linearity PA design. Anteverta's patented IP allows non-50Ω characterization at speeds up to 100x faster than traditional systems, and is unique in its capability of wideband impedance control for realistic modulated signals.

Anteverta microwave was launched in March 2010 as a spin-off from the Delft University of Technology in The Netherlands.



### AMCAD Engineering

AMCAD Engineering, based in Limoges, France, is a worldwide leader in the field of transistor modeling. With an emphasis on GaN, and LDMOS technologies, AMCAD provides turnkey modeling solutions including the world's most advanced pulsed IV systems and model extraction software in conjunction with Maury Microwave. AMCAD's multi-disciplinary and highly-skilled team of engineers and scientists continuously innovate compact and behavioral model extraction methodologies, hardware and software, and provide modeling and design services to its customers.



### Keysight Technologies

Keysight Technologies' (formerly Agilent Technologies) electronic measurement products provide standard and customized electronic measurement instruments and systems, monitoring, management and optimization tools for communications networks and services, software design tools and related services that are used in the design, development, manufacture, installation, deployment and operation of electronics equipment and communications networks and services.

# BENEFITS OF WORKING WITH MAURY

—  
Always a win-win relationship.

## Best-In-Class Solutions

Maury Microwave innovates for best-in-class solutions. Our solutions are proven, highly capable, with the highest accuracy and flexibility in order to help you succeed better and faster.

## Expertise

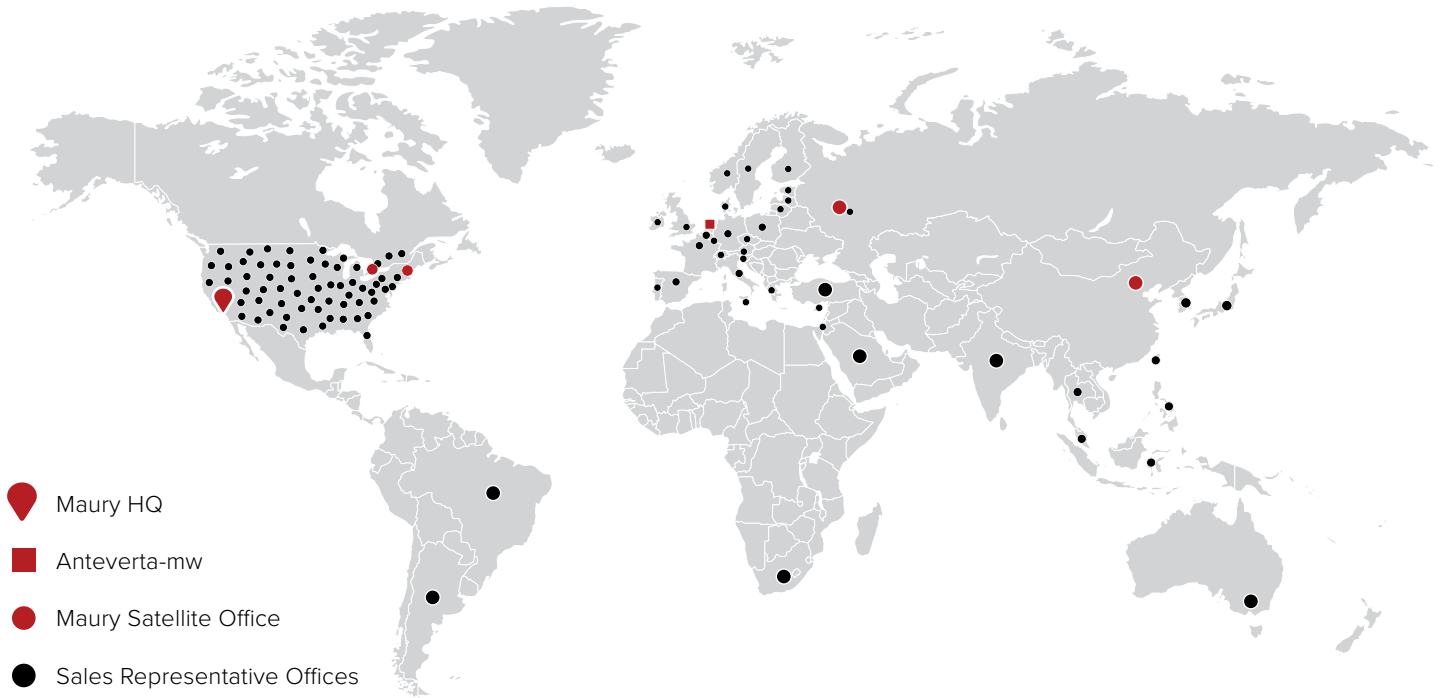
We are calibration, measurement and modeling experts. Our team has been involved with calibration methodologies and standards since the invention of the VNA. Our engineers come from industry with decades of experience in hands-on measurement techniques and best practices. Our experts are at the forefront of model development and extraction.

## Trust

Maury Microwave is committed to honesty; we tell it like it is. We'll bend over backwards to earn your trust and business and we won't sugarcoat or misrepresent our capabilities.

{ Empower We commit to build long-term partnerships based on respect and trust. We commit to understand your needs and meet your objectives now and in the future. We empower you. }

## Where You Can Find Us





Empire Blvd

N Archibald Ave

Inland Empire Blvd

**Maury  
Microwave  
Corporation**




55A




San Bernardino Fwy

10




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### Social Media

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THANK  
YOU!



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