

Anritsu Enhances IMD Measurement Capability in VectorStar VNAs

— *IMDView Headlines Advances that Simplify Measurement Setup and Improve Efficiency for Engineers Conducting IMD Measurements on Amplifiers* —

Morgan Hill, CA – May 12, 2015 – Anritsu Company introduces Intermodulation Distortion (IMD) options for its VectorStar® platform that expand the measurement capability of the VNA family to meet the needs of design and production engineers who must conduct highly accurate and efficient IMD measurements on their amplifier designs. Included in the enhancements is the new **IMDView** software that creates an advanced, easy to use graphical user interface (GUI) that simplifies complex IMD measurements and allows for more thorough IMD evaluation.

An Internal RF Combiner/Switch option for VectorStar has also been introduced that provides single connection IMD measurements without the need to re-cable the measurement setup. This is an extremely useful capability, as it reduces setup and measurement time and improves overall accuracy by reducing concatenation errors of multiple calibrations and system setups.

IMDView provides a wide range of tools so engineers have greater confidence in their amplifier designs. Multiple channels and traces allow for the simultaneous display of IMD swept frequency and IMD CW performance under different operating conditions. **IMDView** also has a unique ability to modify key parameters while monitoring the effects, so engineers can quickly determine optimum performance capabilities without switching between configuration panels to view results. The software also tracks the frequency bands of interest, as well as the power levels required of the two tones. During power calibration, the software automatically switches the paths to provide calibrated tones at the DUT input.

With the enhancements, VectorStar is the only VNA platform that can offer engineers three different IMD setups and the ability to upgrade to any of the configurations. **IMDView** is a software option that simplifies the setup of traces for IMD parameters such as TOI, IM products, and power calibrations. Adding an Internal Second Source option simplifies establishing the second source and reduces setup time by eliminating the need to locate the proper source. The aforementioned Internal RF Combiner/Switch option provides the capability to alternate between S-parameter and IMD measurements without reconnecting the setup. In addition to saving time, it improves overall accuracy by eliminating multiple calibrations and concatenation errors.

The Vector**Star** NLTL-based receiver provides exceptional linearity while maintaining very low noise floors, even at millimeter-wave (mmWave) frequencies. Vector**Star** provides receiver IP3 performance in the +35 dBm range and delivers excellent performance – even at narrow tone deltas. Vector**Star** also has the fastest sweep speed in its class, for more accurate IMD measurements.

Broadband VNA Solution

IMD**View** can be used with the Vector**Star** ME7838x broadband system to establish an easy to configure accurate mmWave IMD measurement solution that dramatically reduces setup and calibration time. It provides a calibrated 1mm test port for easy conversion to on-wafer measurements or to waveguide ports for waveguide DUTs. IMD**View** automatically sets up the frequencies and power levels to configure the 3743A mmWave modules for two-tone operation and the receiver for the different IMD responses. The software also provides internal controls of frequency and power during the required IMD power calibrations, providing calibrated power to the DUT's 1mm, coplanar, or waveguide input port.

About Anritsu

[Anritsu Company](#) is the United States subsidiary of Anritsu Corporation, a global provider of innovative communications test and measurement solutions for more than 110 years. Anritsu provides solutions for existing and next-generation wired and wireless communication systems and operators. Anritsu products include wireless, optical, microwave/RF, and digital instruments as well as operations support systems for R&D, manufacturing, installation, and maintenance. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. With offices throughout the world, Anritsu sells in over 90 countries with approximately 4,000 employees.

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