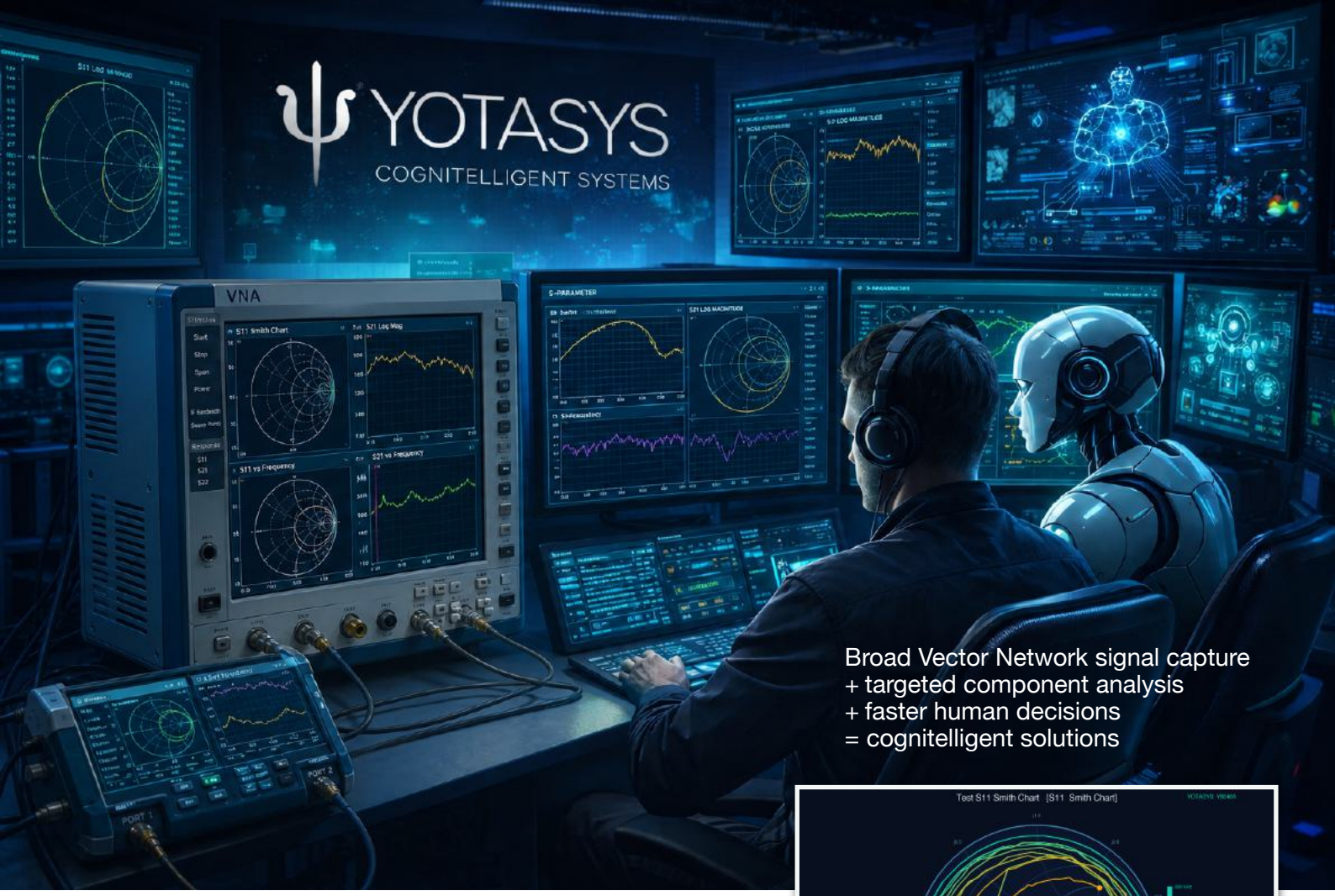

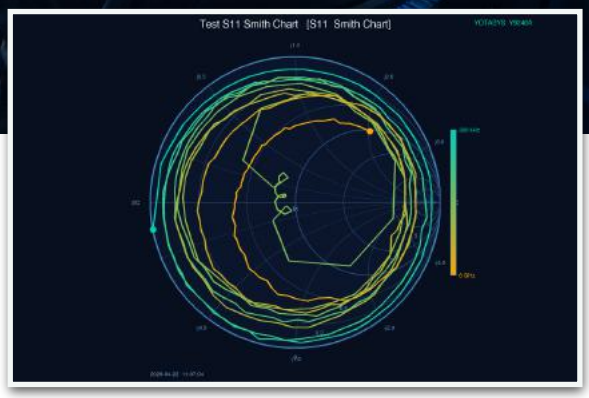

Product Leaflet V1.0E

Y9246A Agentic Vector Network Analyzer Server

Welcome to the next evolution in RF component and cables, adapter and filter characterization: the Y9246A Agentic Server brings the power of artificial intelligence directly to your vector network analyzer workflows, supporting the full Anritsu ShockLine series including the MS46121A/B, MS46122A/B, MS46322A/B, MS46522A/B, and MS46524A/B. Rather than navigating complex calibration menus, configuring sweep parameters, and manually interpreting S-parameter plots, you simply describe what you want — in plain language. The Y9246A handles the rest: instrument setup, calibration, measurement, analysis, and professional report generation.

Key Topics

- Performing guided SOLT calibration sequences with step-by-step instructions
- Measuring return loss, insertion loss, VSWR, phase, and group delay
- Executing full 2-port S-parameter sweeps (S11, S21, S12, S22 simultaneously)
- Applying limit lines and performing automated pass/fail testing
- Generating Smith charts, XY trace plots, and professional PDF measurement reports
- Exporting data to Touchstone (.s2p), CSV, and screenshot formats
- Saving and recalling complete instrument states and calibration files
- Adapting measurement strategies based on initial results

Sample commands at the prompt

- "Measure the return loss of my LTE antenna from 700 MHz to 2.7 GHz and tell me where it is best matched"
- "Perform a full S-parameter sweep from 1 to 6 GHz and generate a detailed PDF report"
- "Run a SOLT calibration on ports 1 and 2 and guide me through each step"

- "Measure the insertion loss of this bandpass filter — does it meet the –3 dB passband spec from 2.4 to 2.5 GHz?"
- "Plot the S11 on a Smith chart and find the frequency closest to 50 ohms"
- "Measure VSWR of my antenna at 1800 MHz and flag anything above 2:1"
- "Save the S21 and S11 traces as a Touchstone .s2p file for use in my simulation tool"
- "Sweep 100 MHz to 3 GHz with 1001 points and 1 kHz IFBW — apply 10× averaging and autoscale the result"

General setup

The Y9246A is an MCP Server for Claude or local LLM's. It communicates with Anritsu ShockLine VNAs via SCPI over TCP — either directly over Ethernet to the VNA IP address, or via USB through the ShockLine Windows application (which exposes a local TCP socket at 127.0.0.1:5001). No additional hardware options are required. Licenses are instrument serial-number bound and are available as time-limited or perpetual.

MS46121A/B - MS46122A/B - MS46522A/B
Anritsu ShockLine Vector Network Analyzer
(options)

Laptop / PC
Anritsu Shockline Software
Claude Desktop
Y9460A Server

Minimal setup

The Y9246A requires the following easy installations:

- PC or Laptop with Windows 11 or Apple MacBook with MacOS 14.x (or higher)
- Installation of Claude Desktop (see www.claude.com/download) with PRO version recommended
- Installation of Y9246A Agentic Vector Network Analyzer Server and License file (from SN of instrument)
- Modification of Claude Desktop configuration (see claude_desktop_config.json)

More information such as User Manual and Prompt Library will be provided upon purchase of license.

Information and contact

For more information and the newest data sheet releases go to our website or contact us via email. Please ask us for trial license or quotation.

Disclaimer

The use of Y9246A software requires the acceptance of the YOTASYS EULA Y9200A software agreement.

The specifications and instructions for our customers in this document reflect the product engineering level at the time of manufacturing. Please consider the valid data sheet release at a time. For questions please contact the YOTASYS customer service. YOTASYS AG accepts no liability for damages resulting from unprofessional installation or application or misuse for a purpose. This disclaimer also includes damages to third parties. It is the customer's responsibility to check the delivered products and immediately notify YOTASYS AG of detected faults. It is also the customer's responsibility to test the delivered product on its applicability for the intended purpose. YOTASYS AG will accept no liability or responsibility for their products if a product or a YOTASYS system is combined or used together with third-party products, i.e. products from other companies than YOTASYS AG. Jurisdiction in all legal disputes concerning product liability has the courts of the canton of Bern/Switzerland. Swiss law applies.