Tech Note: Using the Excel Macro "ATE demo"

This application note provides instructions to set up and use the ATE demo that can be downloaded as a zip archive from our homepage.

Requirements

The following components must be installed as described:

- **VISA shared components**: Install the PNT GUI and check the option to ***install USB drivers***. This automatically installs the required VISA drivers.
- **AP Comm COM lib:** The BNC communication COM-library is necessary to access the drivers from within VBA. Unzip the archive that was downloaded. In the folder ***AP Comm COM lib*** run the file ***register_AP_COMM_COM.bat*** administrative rights (right click, then select ***Run as administrator***). The batch file will automatically register the library, which is located in the same folder. Refer to Figure 1 below.
- **Microsoft Excel:** Installed on the computer.

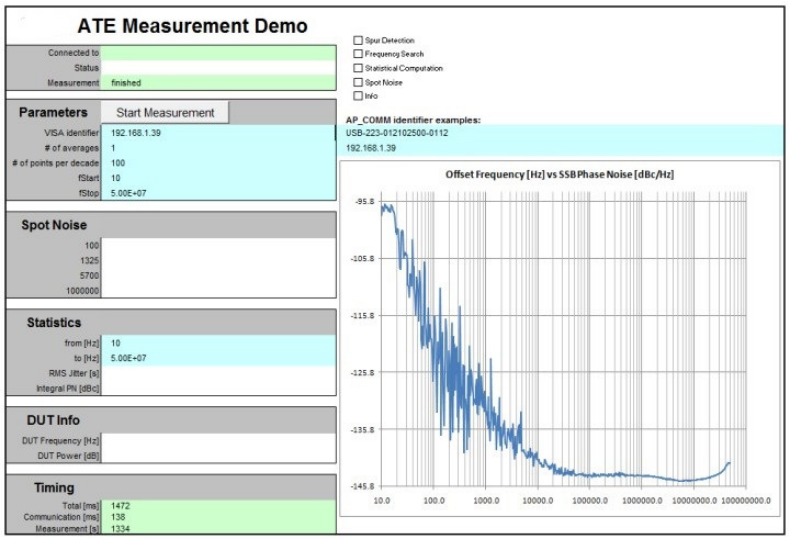

Figure 1:

Using the Macro

1. Double click ***ATE demo.xls***. If macros are not enabled by default, a message will notify you that the Macro in this file has been disabled. Enable it again. **Note:** You can also configure Excel to always accept macros.
2. After startup, the basic user interface is displayed. The blue background cells are user inputs.
3. Set the VISA identifier.
    - If the PNT is connected over Ethernet, the VISA identifier is the IP.
    - For USB connections, the VISA identifier will be 'USB-<serial>' as shown in the first example on the right.
4. To start the measurement, click the measurement button.

Note: To optimize for speed, some of the measurement stages can be turned off. Keep in mind that the frequency search has to be activated for the first measurement of a newly connected DUT.