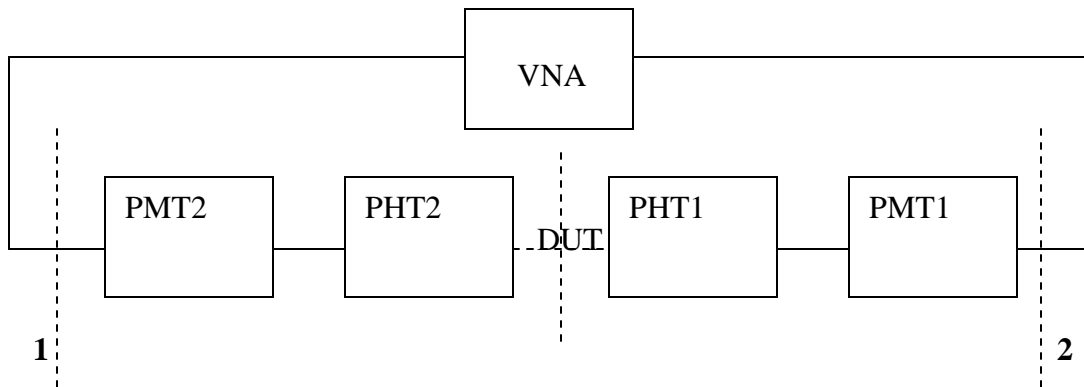


IN-SITU CALIBRATION PROCEDURE FOR 2 PHT AND 2 PMT TUNERS IN THE SETUP



IMPORTANT: VNA should be calibrated in 1-2 reference plane !

- 1) All four tuners are initialized and the resonators of the harmonic tuners are out → in order to have 50 Ohm line (tuners can also be tuned to 50 Ohm)
- 2) TRL calibration is applied from WinNoise software (WinCCMT→Measure→Noise or WinCCMT→Utilities→Manual Tune). In WinNoise the option TRL/TRM (meas) should be activate from Calibration→Components menu. After CONA and CONB files are created in the directory that is specified in WinCCMT→File→Configure→Directories , Calculation should be done with specifying the calibration type (TRL) and options (Short or open). After that, verification must be run.
- 3) Calibration of the T1 is de-embed type with de-embedding CONC in the Input section. When doing that, resonators of the PHTs are out. Options 2f0 and 3f0 together with the Prematch calibration option must be checked in Calibration→Tuner→Tuner Calibration→More window.
- 4) Calibration of PHT1: → resonators are in, calibration is de-embed with CONA de-embed in the Input section (resonators of the PHT2 are out, tuners are initialized).
- 5) Calibration of T2 is de-embed with CONC de-embed in the Output section. Resonators of both PHT tuners are taken out. Options 2f0 and 3f0 together with Prematch calibration option are checked.
- 6) Calibration of the PHT2 is de-embed type with CONB de-embed in the Output Section. Resonators are in for PHT2, out for PHT1.

Calibrated files will be put in the directory specified in:
WinCCMT→File→Configure→Directories→Tuner Cal
Those files should be integrated in the Load Pull setup
(WinCCMT→Measure→Passive Load Pull→Start→Load Setup).