

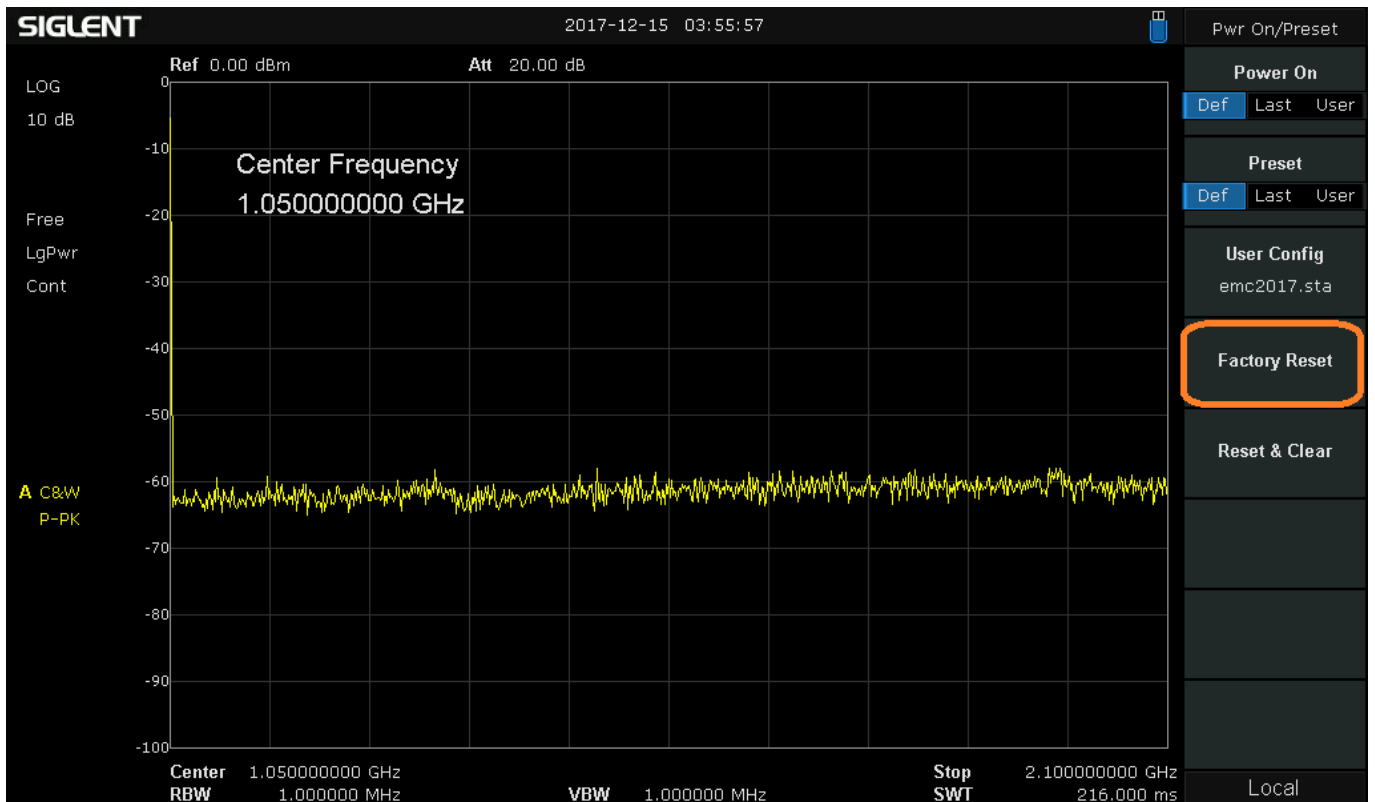
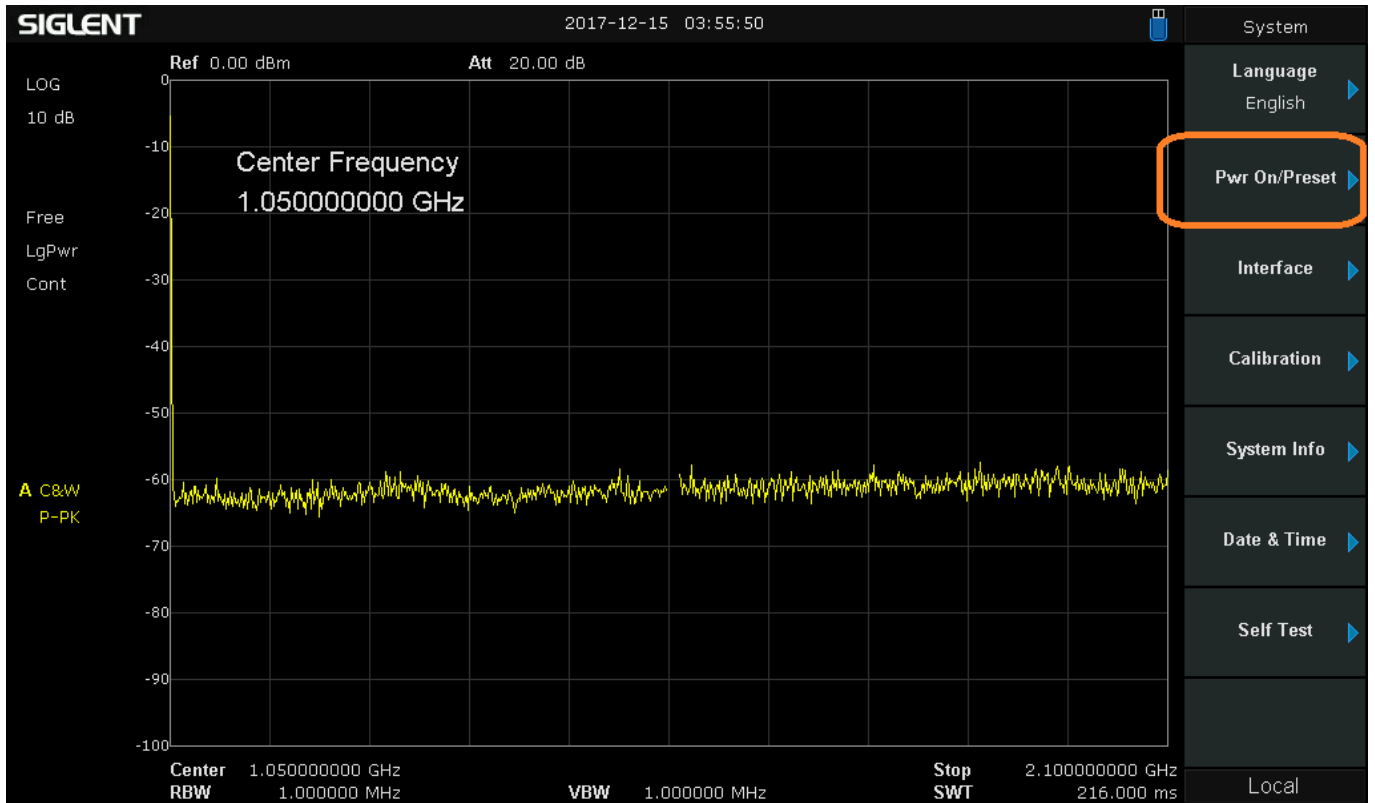
Tracking Generator and Reflection Bridge/VSWR Troubleshooting

January 23, 2018

Here are some common options for trouble with tracking generator/Reflection bridge/VSWR measurements

1. Set the instrument to factory defaults by pressing SYSTEM > PWR ON/Preset > Factory Reset





2. Is the TG working properly?

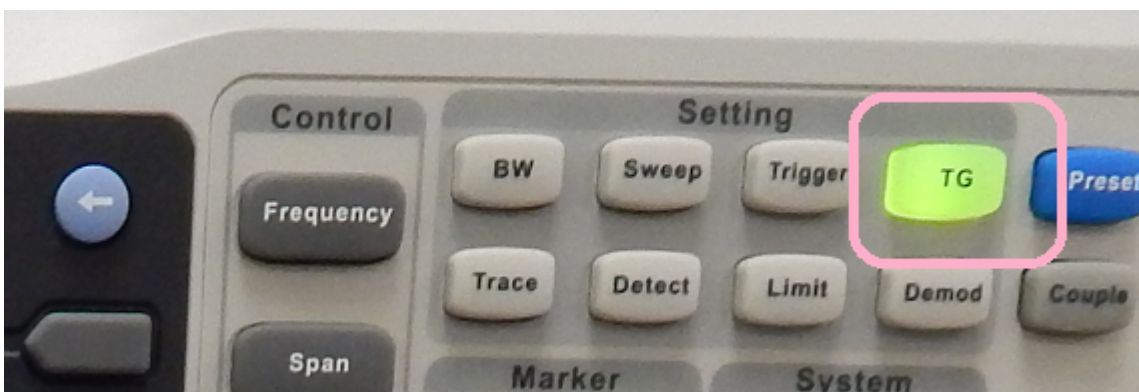
- Are the center conductor contacts very close to one another? No gaps and no broken/missing petals on the inner gold contacts?

Here is a good TG output connector:



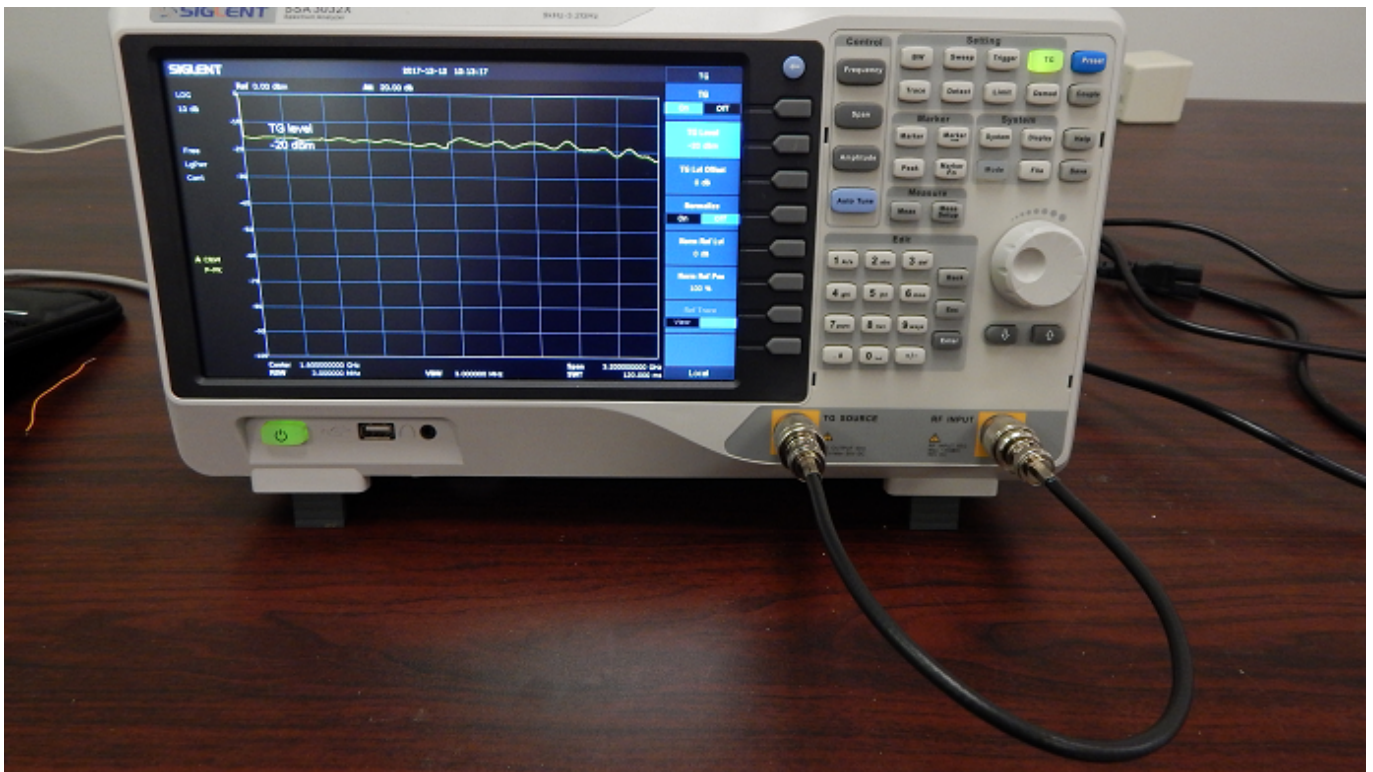
3. Are the connections on the adapter also unbroken and unobstructed?

4. Is the TG output enabled? This is indicated by an illuminated TG button on the front panel:



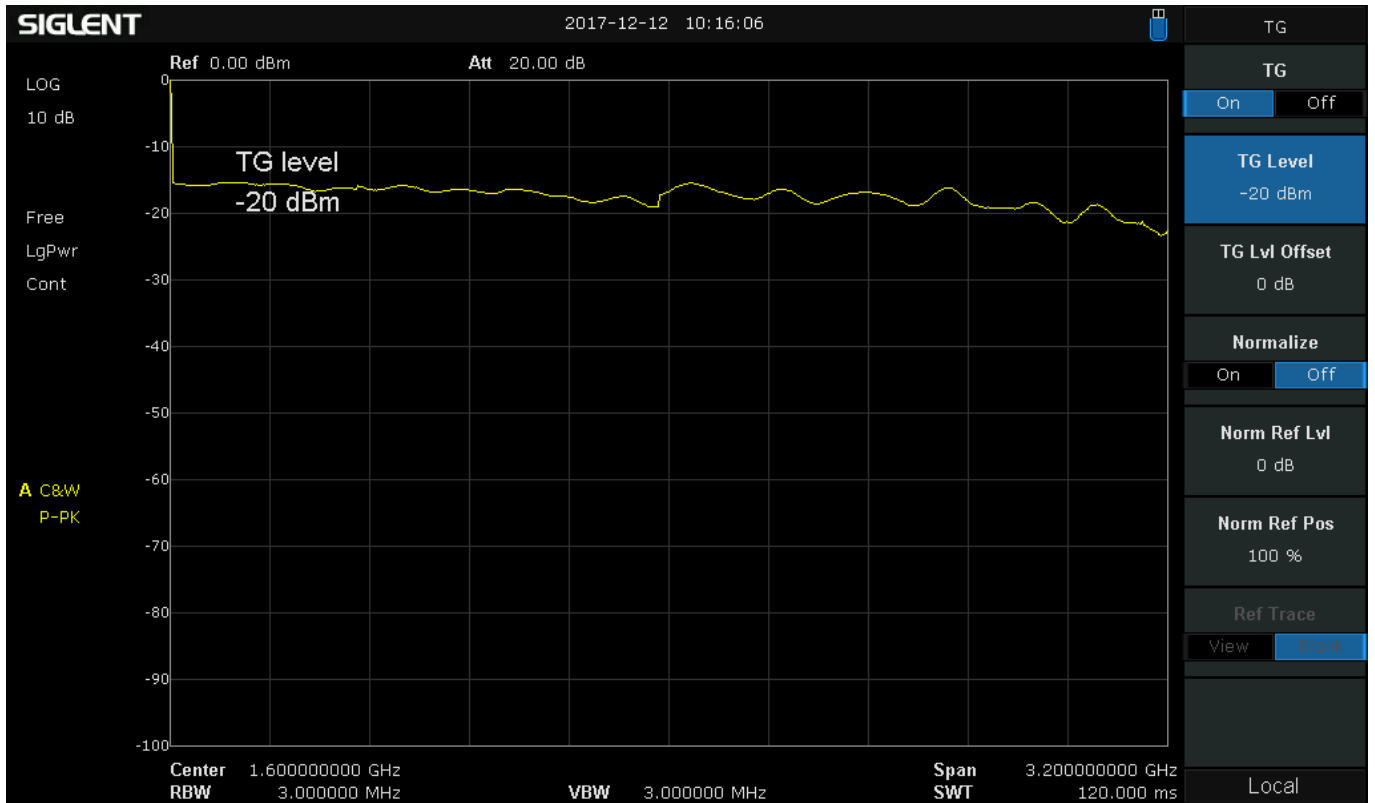
5. Does the TG level meet specifications when read directly by the analyzer?

Connect a cable from the TG output to the RF input and enable the TG:



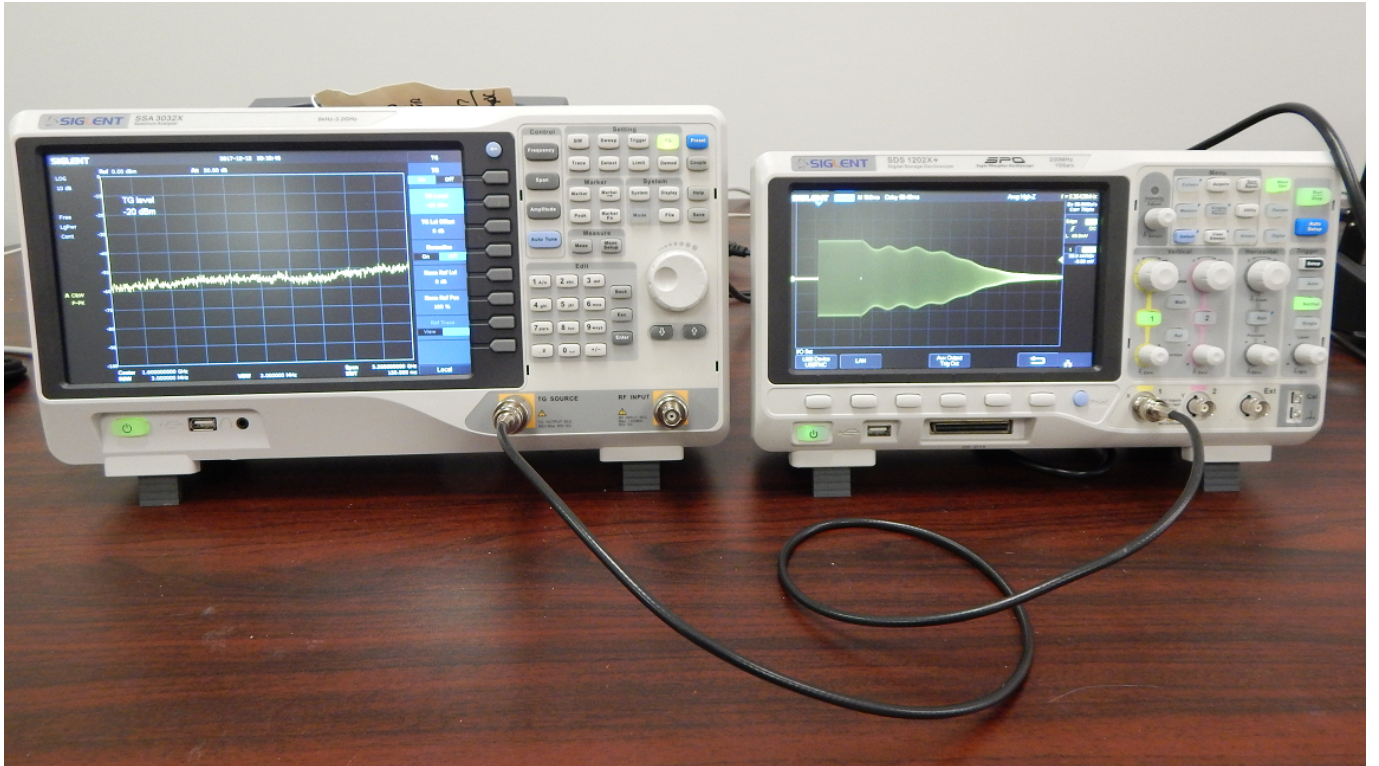
The average output should be equivalent to the setpoint and the flatness should be within 3dB of that setpoint. If not, there is likely an issue with the TG, RF input, Cable, or connectors.

Here, the TG is ON, and is set to -20 dBm (TG Level)..



NOTE: There may be additional losses due to cable type, age, connectors, and any adapters that are in the signal chain.

6. You can also check the TG output with an oscilloscope





North American Headquarters

SIGLENT Technologies NA
6557 Cochran Rd Solon, Ohio 44139
Tel: 440-398-5800
Toll Free: 877-515-5551
Fax: 440-399-1211
info@siglent.com
www.siglentamerica.com/

European Sales Offices

SIGLENT TECHNOLOGIES GERMANY GmbH
Staetzlinger Str. 70
86165 Augsburg, Germany
Tel: +49(0)-821-666 0 111 0
Fax: +49(0)-821-666 0 111 22
info-eu@siglent.com
www.siglenteu.com

Asian Headquarters

SIGLENT TECHNOLOGIES CO., LTD.
Blog No.4 & No.5, Antongda Industrial Zone,
3rd Liuxian Road, Bao'an District,
Shenzhen, 518101, China.
Tel: + 86 755 3661 5186
Fax: + 86 755 3359 1582
sales@siglent.com
www.siglent.com/ens