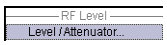
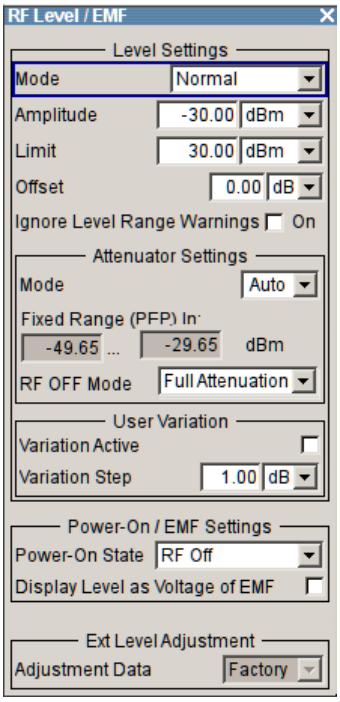
4.3.5.2 RF Level Dialog



Access:

► Select "RF > config... > RF Level > Level/Attenuator".



The offset-free level, level offset and level limit are set in the top section of the dialog. The attenuator mode is set in the "Attenuator Settings" section.
In section "User Variation", you can determine the step size for adjusting the level with the rotary knob (with "Variation Active On").
The power-on behavior of the instrument and the level display in the display header are set in the "Power-On / EMF Settings" section (see Chapter 4.3.5.3, "Power-On/EMF Settings", on page 153).

The remote commands required to define the settings are described in Chapter 6.13.12, "SOURce:POWer Subsystem", on page 382.

Level Settings

The offset-free level, attenuation mode, level offset and level limit are set in the top section of the dialog.

If you have the instrument equipped with a harmonic filter, you can also configure the filter.

RF Mode
Selects the level mode for signal output.

This function allows you, to optimize the RF output signal for applications, where improved harmonic suppression or a low Signal-to-Noise ratio is required.

Note: The modes "Low Distortion" and "Low Noise", for improving harmonic suppression or the S/N ratio require that an attenuator is fitted.

"Normal" The generator provides an RF output signal with high signal to noise ratio as well as low distortion, according to the data sheet.

"LOW Noise" This setting forces the generator to optimize the signal to noise ratio.

"LOW Distortion" The generator reduces distortion (harmonics) of the RF signal.

Remote command:
`[:SOURce<hw>]:POWer:LMODe` on page 387

Amplitude
Sets the RF level of the RF output connector.

The level entered and displayed here corresponds to the level at the RF output, that means any offset entry is not considered.

Note: Suppressed values in the status bar

For security concerns or certain operating modes, you can hide the frequency and level display in the status bar.

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  The display has been disabled for security reasons.
  See:
  – Annotation Frequency
  – Annotation Amplitude
- ---.--

  The display is disabled when list mode is running, see "State - List Mode" on page 194.

Remote command:
`[:SOURce<hw>]:POWer:POWer` on page 388
Note: The SCPI command `[:SOURce<hw>]:POWer[:LEVel][:IMMediate][:AMPLitude]` sets the level of the "Level" display, that is the level containing offset.

Limit - RF Level
Sets an upper limit for the RF output power.

You can use it to protect your DUT from damage due to high input power. If you enter an RF level above this value, the instrument limits the output power to this specified value, and generates a warning message.

However, the level indication in the status bar is not affected.

Note: The limit value is always effective, regardless of whether you work with "NRP Power Control" or not.
The value is not affected by an instrument preset ([PRESET] key), `*RST` and the "Save/Recall" function. It is influenced only by the Factory Preset and the factory value is equal to maximum level.

Remote command:
`[:SOURce<hw>]:POWer:LIMit[:AMPLitude]` on page 386