

13.2 Pulse Measurement Settings

13.2.1 Pulse Measurement

Off: Source and Receivers are NOT pulsed

Standard Pulse: With pulsed RF, the SNA can be configured to sweep in frequency, power sweep, and CW time.

Pulse Profile: Pulse profile measurements provides a time domain (CW frequency) view of the pulse envelope.

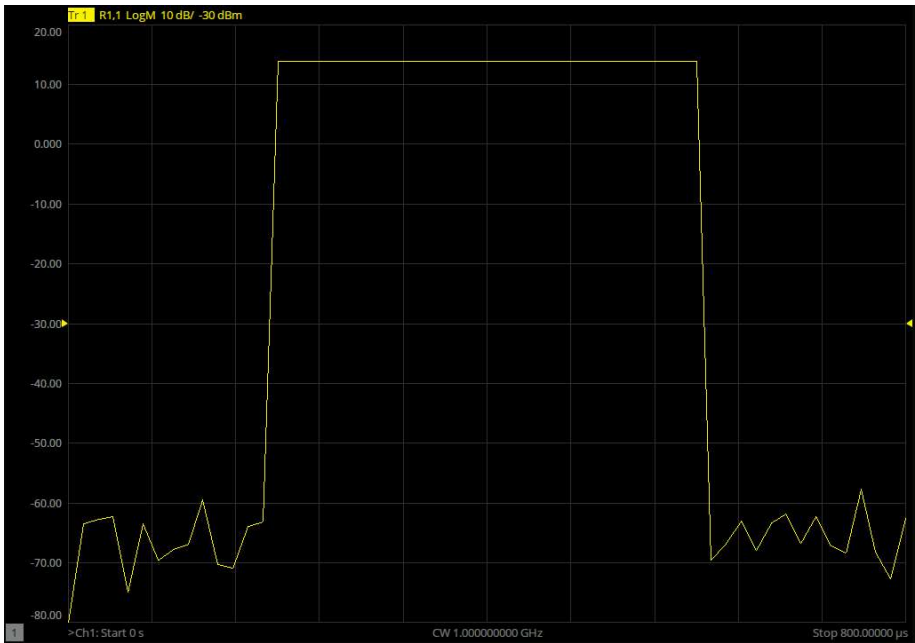
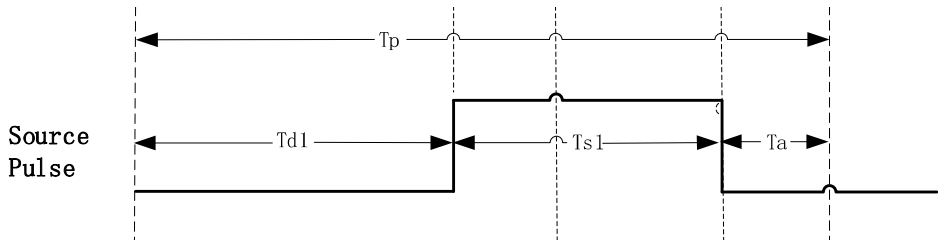


Figure 13-2 Profile Pulse

13.2.2 Pulse Timing



Pulse Width: Sets the width of the source pulse (Ts1).

Pulse Period: The time to make one complete pulse (T_p).

Pulse Frequency: The reciprocal of Period ($1/\text{Period}$).

Pulse Delay: The delay between the start of the pulse and the generation of the pulse (T_{d1}).

13.2.3 Properties

RF&IF Path Gain: Click to launch the [RF&IF Path Gain dialog](#).

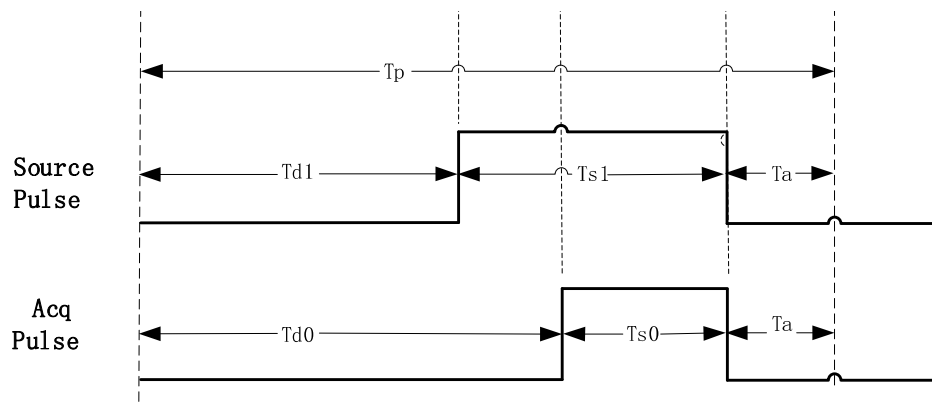
Autoselect Profile Sweep Time: This function is enabled only in pulse profile mode. When checked, only the source pulse width can be set. The pulse period is automatically set to 2 times the pulse width, and the pulse signal is placed in the middle of the whole signal. This allows you to see a complete pulse in the center of the screen.

Number of Points:

- Standard Pulse: Sets the number of data points for the measurement.
- Pulse Profile: Disable the number setting function, only for display.

IFBW: Select the IFBW for the measurement. The value of IFBW in Profile mode is affected by pulse width and pulse period.

13.2.4 Measurement Timing



Measurement Delay:

- Standard Pulse: Receiver delay (T_{d0}).
- Pulse Profile: Disabled and has no practical significance.

Measurement Width: Receiver pulse width (T_{s0}), whose value depends on the selected IFBW value.

Pulse Trigger Source: Set the pulse trigger source.

Autoselect Width and Delay: This function is enabled only in Standard mode. When checked, only pulse period and pulse frequency can be set, and the source pulse width can be adjusted to approximately 75% of the pulse period, with 20% delay. This leaves approximately 5% of the source pulse ON after the acquisition is completed.

13.3 RF&IF Path Gain dialog

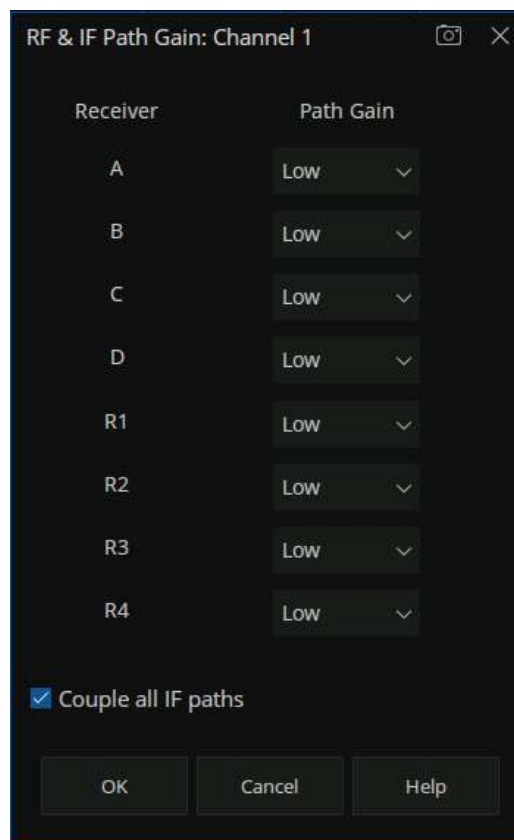


Figure 13-3 RF&IF Path Gain dialog

Receiver: Choose the receiver to be set.

Path Gain:

- Low: The minimum attenuation mode, the average noise level is lower.
- Medium: The medium attenuation mode, the average noise level is normal.
- High: The maximum attenuation mode, the average noise level is higher.

Couple all paths: Check to make the same setting for all receivers.