How to enable Log frequency scaling with the SSA3000X

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The Siglent SSA3000X spectrum analyzer can be configured to display amplitude and frequency with logarithmic (log) scaling.

Vertical (amplitude) scaling on a spectrum analyzer is typically shown in log scaling with dBm as units as a default.

The Horizontal (frequency) scaling is typically linear, but some applications prefer log frequency scaling.

To enable log frequency scaling:

1. Press Span on the front panel

2. Set the X-Scale value to Log

To remotely activate the log scaling, send the following SCPI command:

:DISPlay:WINDow:TRACe:X[:SCALe]:SPACing <LOGarithmic/LINear>

- LOG sets logarithmic
- LIN sets linear

To query the current horizontal scaling, send the following:

:DISPlay:WINDow:TRACe:X[:SCALe]:SPACing?

Figures 1 and 2 on the following page show how the change in scale will alter the displayed data and grid lines.

Figure 1: Screenshot of an SSA3000X with linear horizontal scaling.

Figure 2: Screenshot of an SSA3000X with log horizontal scaling.

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