

Agilent PN 8590-6

Sorting Signals Using Multiple Markers, Marker Tables and Peak Tables

Product Note

Locate, identify, and record signals with measurement aids in Agilent Technologies 8590 C/E/L-series spectrum analyzers

Marker and peak signal features are useful measurement aids in a spectrum display because they immediately locate a signal, and record its amplitude and frequency or time. The 8590 C/E/L-series spectrum analyzers offer two marker features and a peak sorting function to help you with your measurements:

- Multiple markers—up to four markers on the display
- Marker table—a second screen window with a list of markers
- Peaks table—a second screen window with peak signals listed by specified criteria

Multiple markers

In some measurements, you may want to keep track of several points on a signal trace. The multiple markers feature allows you to set up to four markers on a trace. Use [Peak Search] and [Next Peak], or tune using the keypad or knob for each marker. You can set the marker units to dBm, dBmV, dBuV, or watts. For time interval measurements, set the marker to read frequency, time, interval or inverse interval. Multiple markers are valuable for keeping track of component response in scalar measurements.

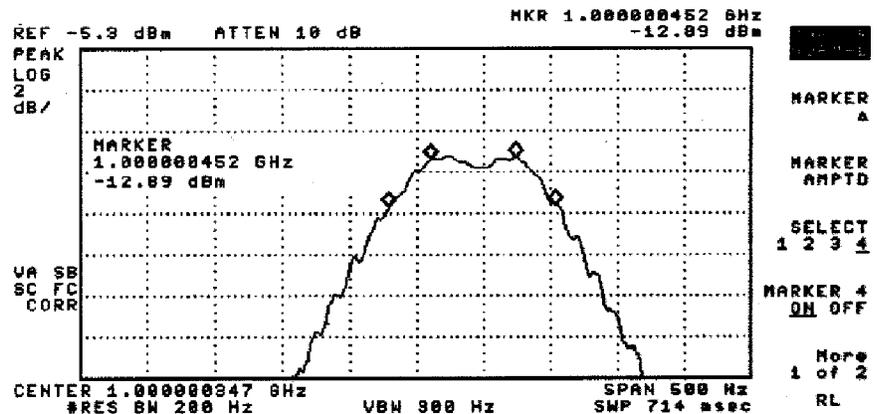


Figure 1. Characterizing a filter response is simple using the multiple markers feature.

Marker tables

View the frequency and amplitude of multiple markers by pressing [MK TABLE ON]. All the markers on the display will be annotated in a window below the trace. Each can be set for a time, period, inverse period, or frequency readout. You can measure pulse repetition rates, rise and fall times, and periods, all at the same time.

Peak tables

Often you would like to have the analyzer sort signals without having to mark them yourself. You can do this with the peaks table function. Simply set the criteria, such as peak criteria equals 6 dB, and press [PK TABLE ON]. The top 10 signal responses will be listed in a table beneath the spectral display. You can sort signals by

frequency or amplitude, and read out only those signals above a display line. Signals from components, such as oscillators and mixers, or from surveillance are automatically collected and recorded. The display can be copied to a printer.

Repeatable and convenient

Spectrum analyzer one-button measurements are repeatable, giving you confidence in the measurement of signals or components over time, temperature and calibration variations. You can select continuous sweep to see changes as they happen, or single sweep to get snapshots of the spectra.



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Ordering information

Compatible Agilent spectrum analyzers

- 8590L
- 8591C
- 8591E
- 8592L
- 8693E
- 8594E
- 8595E
- 8596E

Required configuration

Standard, no options required

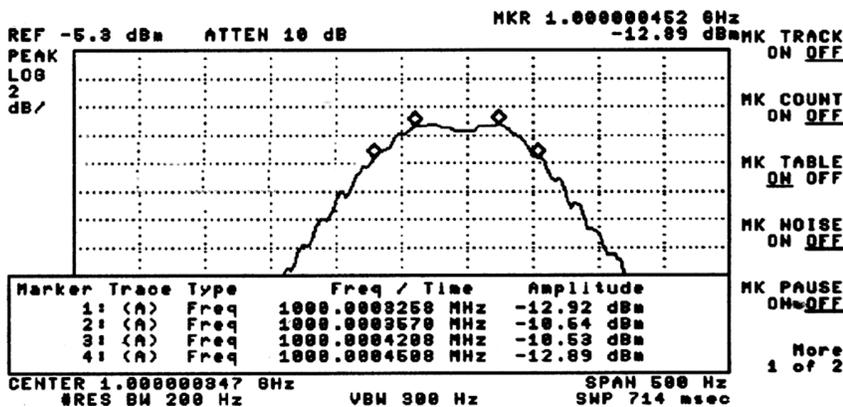


Figure 2. Test data can be printed at the press of a key after using the Market Table feature.

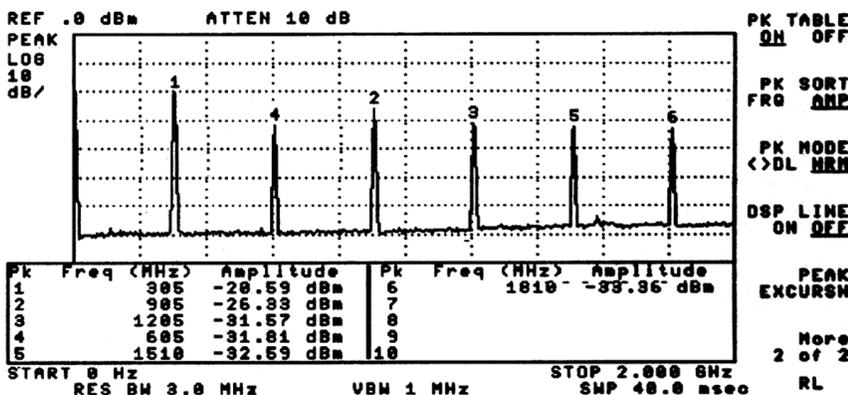


Figure 3. The Peak Table feature marks and lists the signals using your selection criteria.

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