

# Handheld IF Output

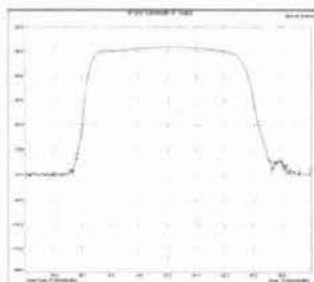
## IF Output for Spectrum Master MS2723B/4B

### IF Output Option

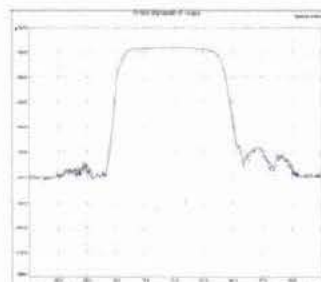
The IF Output option allows a signal to be processed in the IF rather than using the standard processing provided in the instrument.

Option 89 provides an IF signal at a center frequency of 37.8 MHz out of a BNC female connector when the instrument span is set to zero.

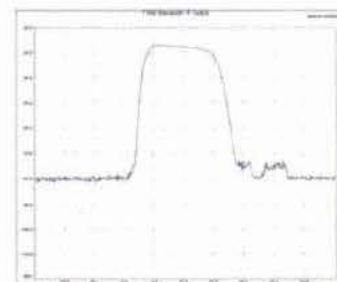
The user can select the three fixed IF bandwidths shown below in addition to some extra narrower bandwidths that are selected by using the RBW selection process. We expect that most users will be interested in the widest bandwidth and will use the narrower bandwidths infrequently, if at all. The output level of the IF signal is approximately -25 dBm for a full-scale signal on the spectrum analyzer's display.



16 MHz IF Bandwidth



10 MHz IF Bandwidth



7 MHz IF Bandwidth



# Handheld I/Q Capture

## Capture non-standard waveforms on BTS and Spectrum Master handhelds

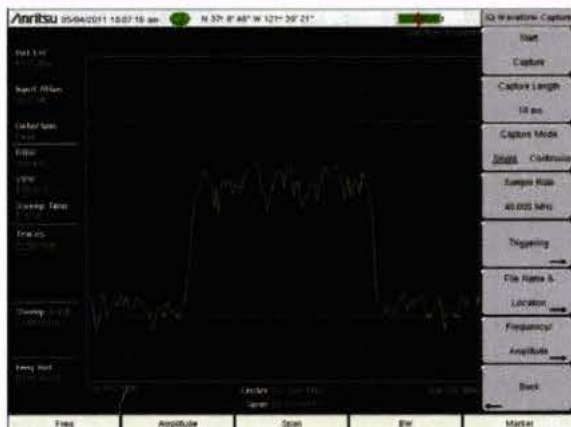
### I/Q Waveform Capture

- Up to 32 MHz instantaneous bandwidth for wideband signal capture
- Up to 43 GHz input signal frequency
- Up to 800 ms signal capture length
- Externally triggered capture with programmable delay
- 25 kHz to 40 MHz sample rate
- Output data compatible with MATLAB and other analysis software



### Applications Include

- Capture of non-supported signal standard waveforms for post-analysis
- Capture and post-analysis of signals with advanced modulation schemes
- Capture of supported signal standard waveforms for analysis beyond our measurement suite offering
- Remote capture of intermittent signals
- Technical surveillance countermeasures



**IQ Waveform Capture menu**



**Sample Rate and Bandwidth Selection**