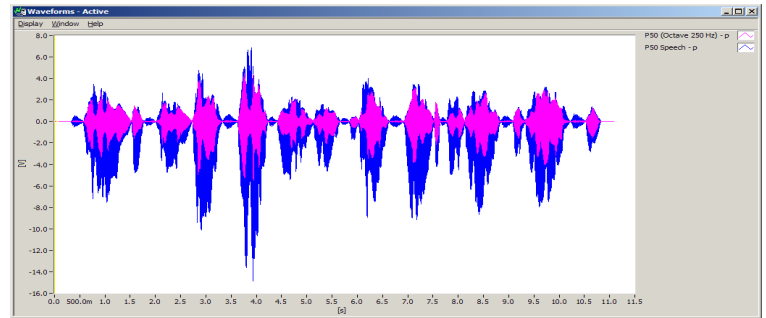




## SoundCheck® 10.1 New Features

### Standard Waveform Filter

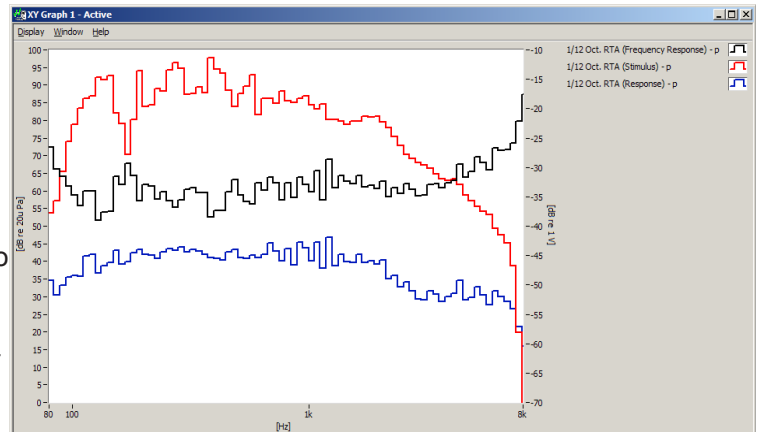
In addition to the Arbitrary waveform filters (introduced in SoundCheck 10.0), a selection of Standard Waveform filters are now also available, including Butterworth high-pass, low-pass, band-pass and band-stop filters. These standard filters are useful for conditioning stimulus and response waveforms when you are making time domain measurements, or for band pass analysis in the time domain (e.g. speech intelligibility or attack and release testing). The arbitrary filters are often used for telephony and hearing aid applications and can also be used when you need to listen to the processed time signal for subjective evaluation. Both the Arbitrary and Standard waveform filters require SoundCheck module 2032: Waveform Filter.



Standard Waveform Filter

### RTA Analysis Algorithm

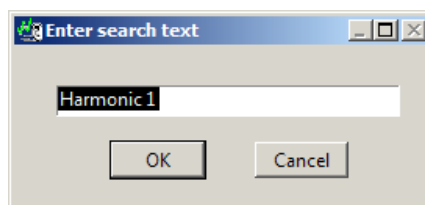
In addition to calculating the RTA spectrum of the response waveform, the RTA analysis algorithm now allows the option to calculate the spectrum of the stimulus as well as the overall frequency response (comparing the response to the stimulus). This is useful when analyzing non-stationary signals, for example speech signals in telephony where compensation needs to be made for a non-flat stimulus.



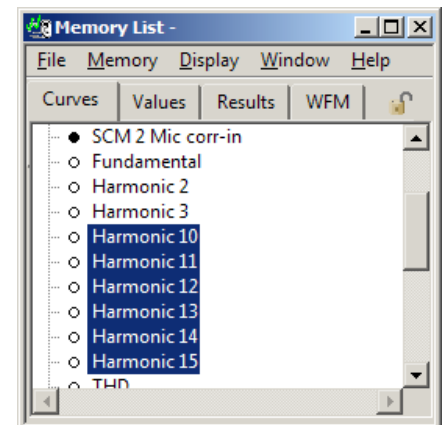
RTA Analysis Algorithm

### Memory List Search

The memory list now has a search function (shortcut key Ctrl+F) feature to find and highlight all items which match a search string. Advanced searching through the use of regular expressions is also possible as described in the context sensitive help window of the search string. This is particularly useful when the memory list contains a large number of curves such as in production line applications.



Memory List Search





## SoundCheck® 10.1 New Features (cont.)

### Zwicker Loudness Spectrum

The Zwicker Loudness feature (introduced in SoundCheck 10.0) has been extended with a new option to output the Loudness Spectrum to the Memory List. The units for the X-axis are selectable between Hz and Bark scale. The loudness spectrum allows the user to determine which frequencies are responsible for the loudness, and is useful for analysis of telephone ring tones.

### Serial Number or Annotation in Memory List

The 'Protect' and 'Autoprotect' features in the Memory List now append the serial number to the protected curve name. This offers a quick and easy way to annotate data by typing a comment into the serial number field.

### Show Memory List on Opening Sequence

The sequence configuration dialog has a new feature which will show the memory list when the sequence is opened. This is convenient and useful for debugging sequences.

### Improved CLEAR (Perceptual Rub & Buzz) Algorithm

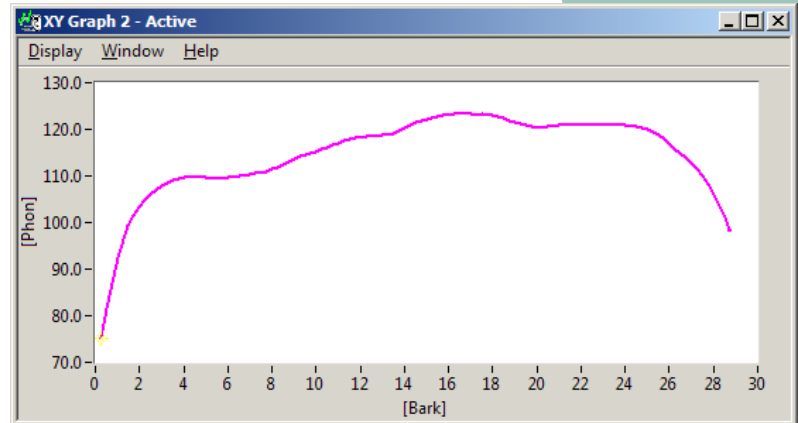
Minor upgrades to the CLEAR Perceptual Rub & Buzz algorithm offer a lower variance and therefore less susceptibility to noise.

### More Flexible Attack and Release Algorithm

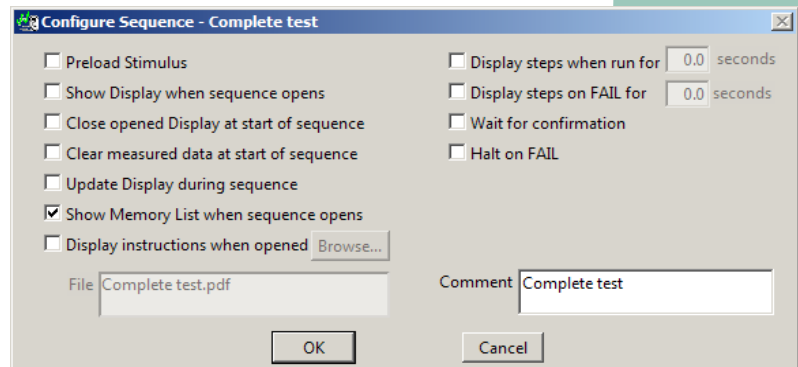
The filtering steps in the Attack and Release algorithm (used for measurement of automatic gain control in telephony and hearing aids) have been separated out from the algorithm so that they may be user-defined. This offers more control to the user and increases the range of applications.

### Improved Support for ASIO

LynxTwo ASIO driver now works on Windows XP, Windows 7-32, and Windows 7-64. CardDeluxe ASIO driver now works on Windows 7-32 bit. It does not yet work on Windows 7-64.



Zwicker Loudness Spectrum



Show Memory List on Open Sequence