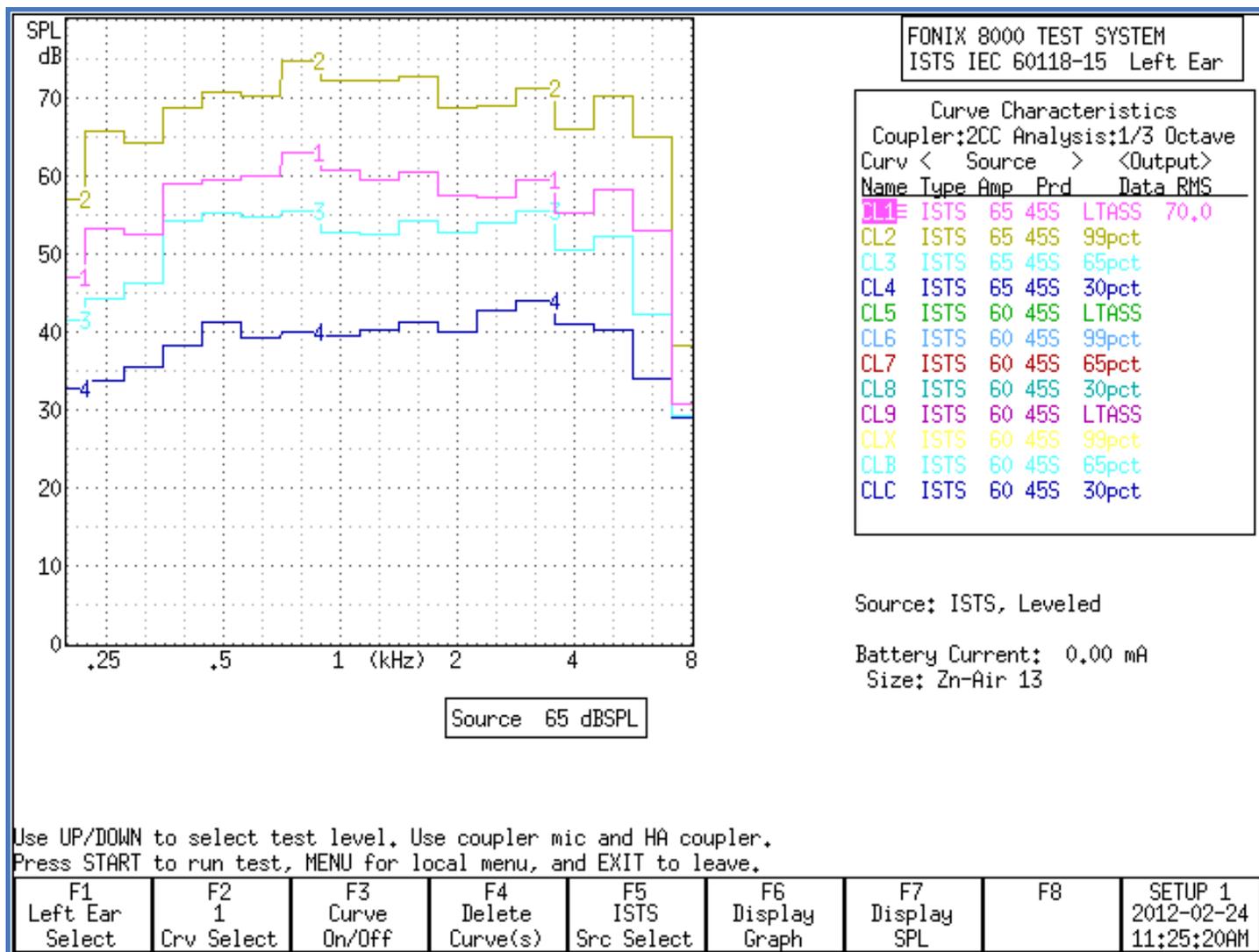


# Updates to the FONIX 8000 Hearing Aid Test System

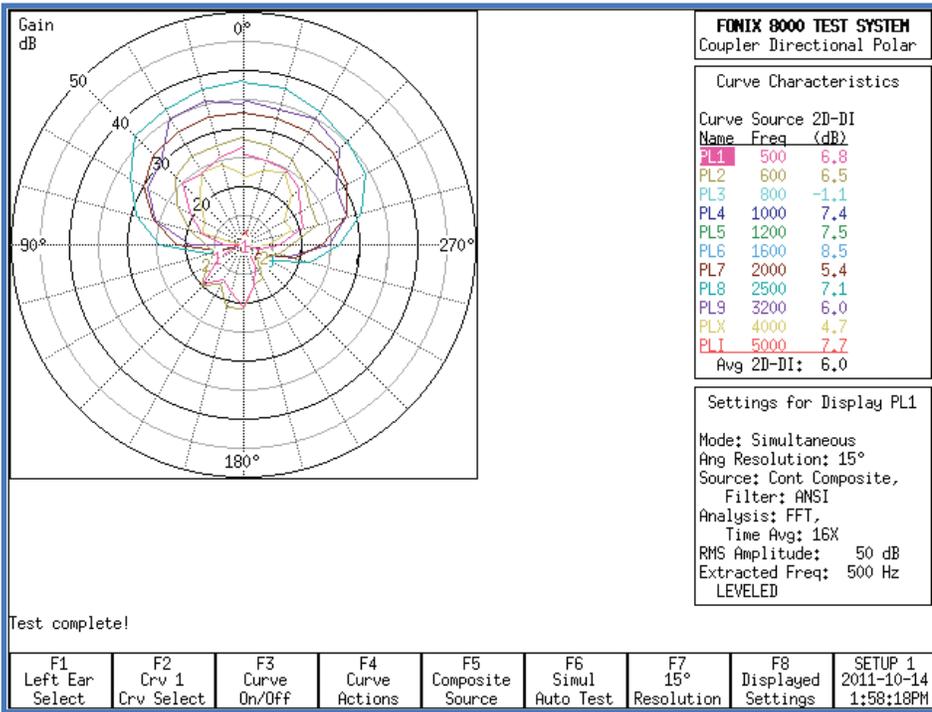


## The NEW ISTS Option

The ISTS is part of a new way of performing coupler measurements on advanced digital hearing aids, representing a major departure from the traditional ANSI method of evaluating hearing aid performance.

The ISTS test is based upon the upcoming IEC 60118-15 standard (so new that it hasn't actually been published yet!). Third octave analysis

is performed on the hearing aid response to the standardized speech-like signal for a choice of 10, 20, or 45 seconds (actual test times are slightly longer). When the test is complete, the results are displayed as the long-term speech spectrum (LTASS), and the 30%, 65%, and 99% of the distribution of sound pressure level. Many of the top minds in the hearing health industry put their heads together to come up with this unique test!



curves are available in the Polar Plot test screen.

### Separate Polar Plot and Coupler Directional Test Screens

Two different types of directional tests were previously available in the Coupler Directional test screen: The Polar Plot test and the Directional Difference test. The Polar Plot test displays a 360° graph of the response of the hearing aid at a specified frequency. The Directional Difference test displayed a more conventional frequency graph that showed the difference between the hearing aid's “front” response and its “back” response. Both tests were displayed in the

### Improved Coupler Directional Testing

The release of the Coupler Directional Test Screen was met with great enthusiasm across the Hearing Health Industry. Finally an accurate coupler measurement for directional hearing aids was available to the clinical market. As with any new feature, our customers requested a few changes to improve an already great test. We are pleased to announce this update!

#### Directionality Index

The two-dimensional directionality index (2D/DI) according to ANSI S3.35-2010 has been added for each curve as well as the average 2D/DI for all eleven possible curves. These values will help you quantify the directionality of the hearing aid.

#### Updated Frequencies

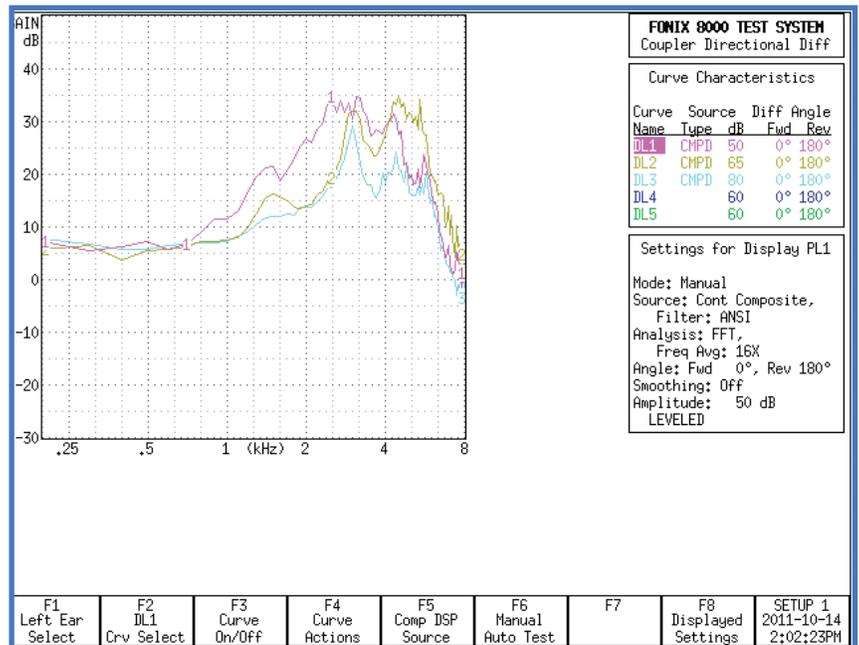
You still have your choice of frequencies to use when calculating directionality, but now the default frequencies are those specified by the ANSI S3.35-2010 standard (or the closest 100 Hz interval).

#### More Curves

The previous version of the Coupler Directional test screen was limited to five curves. Now eleven

Coupler Directional screen.

In version 2.20 of the FONIX 8000 Hearing Aid Test System, these tests have been split into two entirely separate screens. This both improves the ease of use of both types of measurements and gives us more functionality.



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