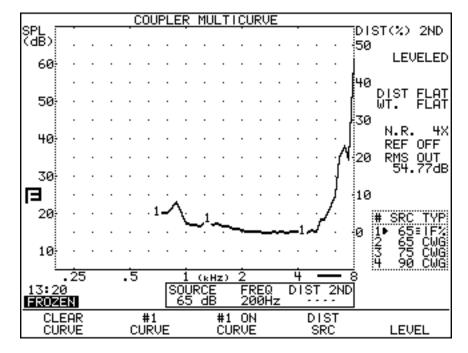
## **Intermodulation Distortion**

Intermodulation (IM) distortion is a measurement of how the aid distorts an input signal containing more than one frequency. Since all speech contains multiple frequencies, this can tell you how much the aid will distort speech. All aids can distort; even the components of digital aids can eventually wear out and go bad—use this test to show your patient when the aid needs to be repaired or replaced!

Here's how it works: The IM Distortion Test on the FP35 analyzer presents two tones at a time to the hearing aid and looks across the frequency band for additional amplitude components that the aid might have created through distortion. Any components found are displayed on the FP35's screen as a percentage of the total signal, letting you see how much the aid is distorting at the frequencies at which the two original tones were presented.



The IM Distortion test can be performed automatically so that it sweeps through the entire available frequency spectrum, giving you a clear, easy-to-understand picture of the distortion characteristics of the aid.

Power users can adjust the distance between the two tones in the test and manually control which frequencies are measured.

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