

Sample Champion - Application note # 14

Log Squared and Cumulative Energy Plot

The loudspeaker Impulse Response can be viewed also in other useful ways by means of the Room Acoustics plugin.

Figure 1 shows a typical loudspeaker Impulse Response.

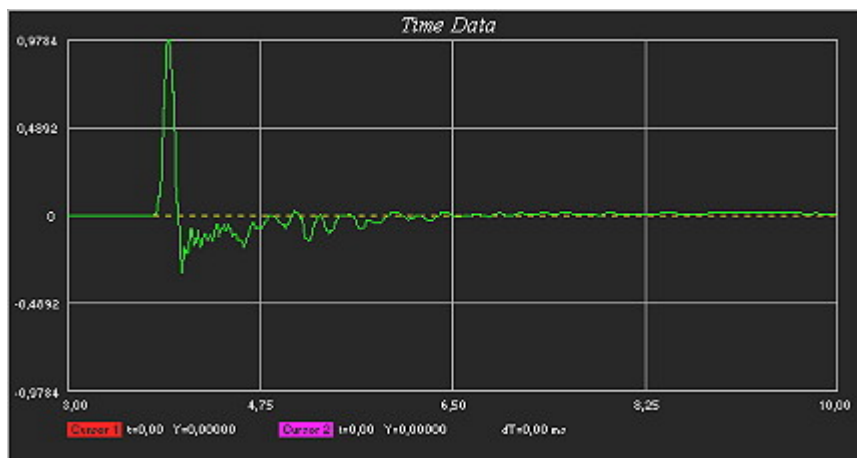


Figure 1 - Loudspeaker Impulse Response

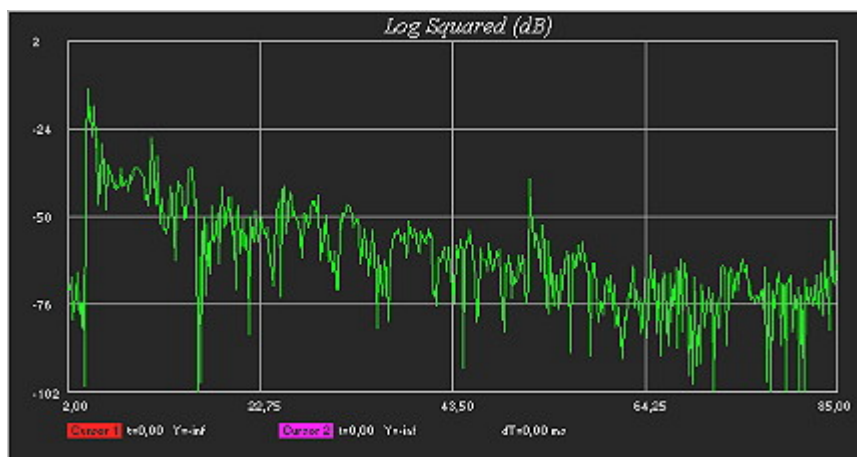


Figure 2 - Loudspeaker Log Squared Plot

Figure 2 shows the Log Squared Plot of the data in Figure 1. This plot is obtained by computing the logarithm of squared time data.

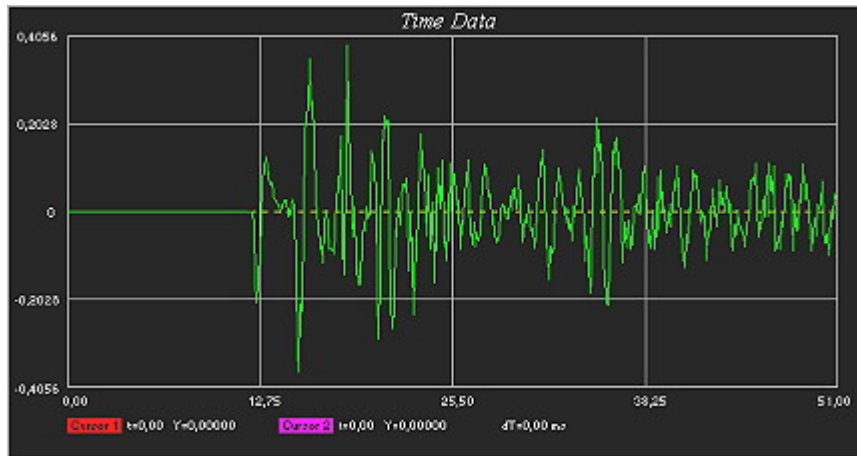


Figure 3 - Room Impulse Response

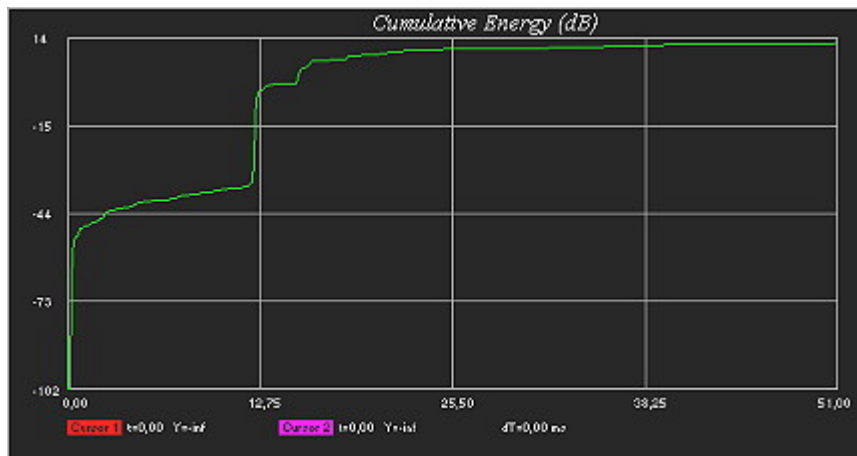


Figure 4 - Loudspeaker Cumulative Energy Plot

Figure 3 shows the beginning of a Room Impulse Response. Figure 4 shows the Cumulative Energy Plot of the data in Figure 3. This plot is obtained by computing the integral of squared time data.

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