THE RELATIONSHIP BETWEEN THE SPEECH INTELLIGIBILITY OF A MALE VOICE AND THE BACKGROUND NOISE LEVEL

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Abstract

The objective of this final project is to know the relationship between the speech intelligibility of a male voice and the background noise level. Method used is a play of words contained in the special test PB Word list, with background noise type white noise, pink noise and brown noise at 20 people. The conclusion is the value generated for the speech intelligibility Leq 70 dB using a type of background noise type brown noise (56.7% -93.75%) was higher than white noise (34.75 % -84.5%) and pink noise (45.75% - 92.25%). Speech to Noise Ratio +5dB doesn’t affecting the result of SI by using background noise type brown noise, pink noise and white noise.

Key Word : Speech Intelligibility, PB. Word List, Background Noise, Leq speech, SNR