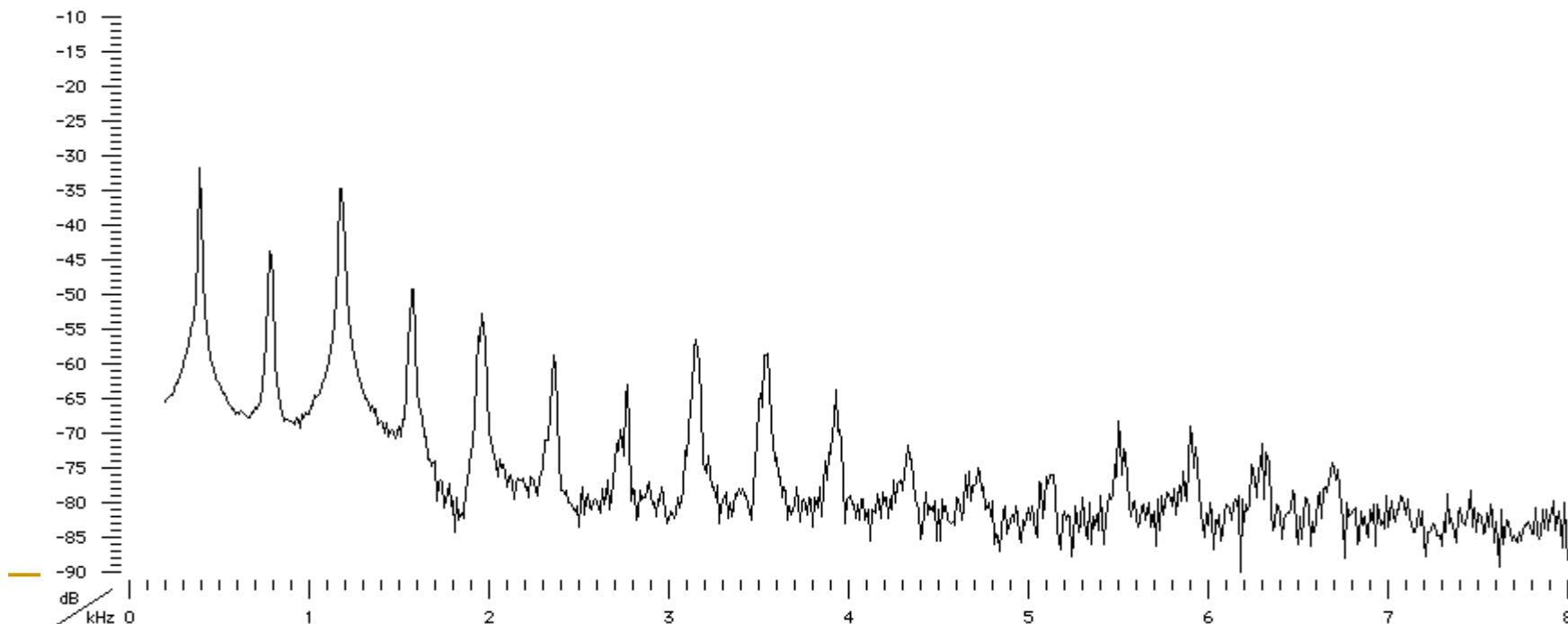


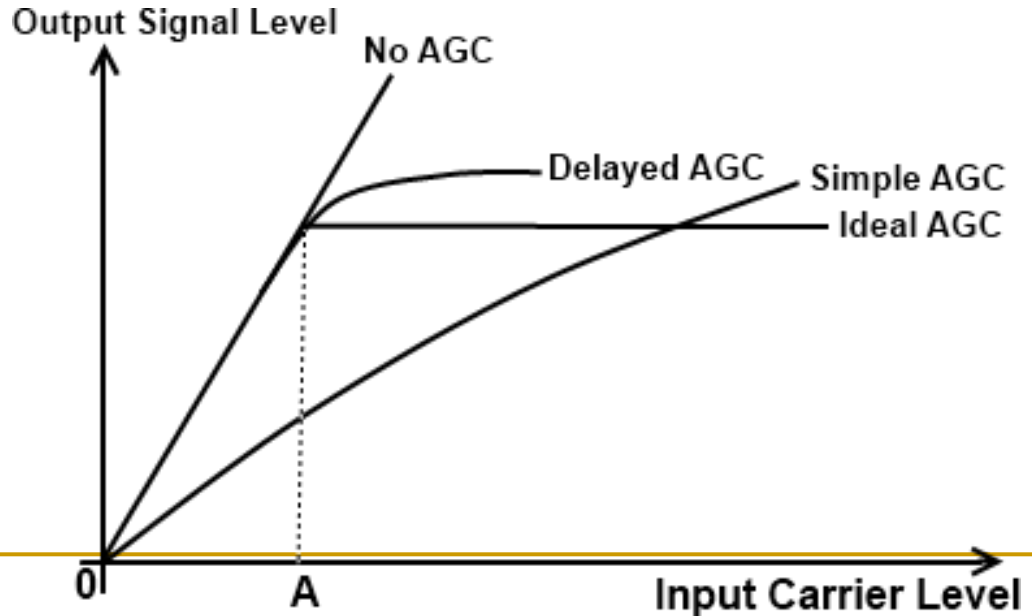
Pre Emphasis & De Emphasis

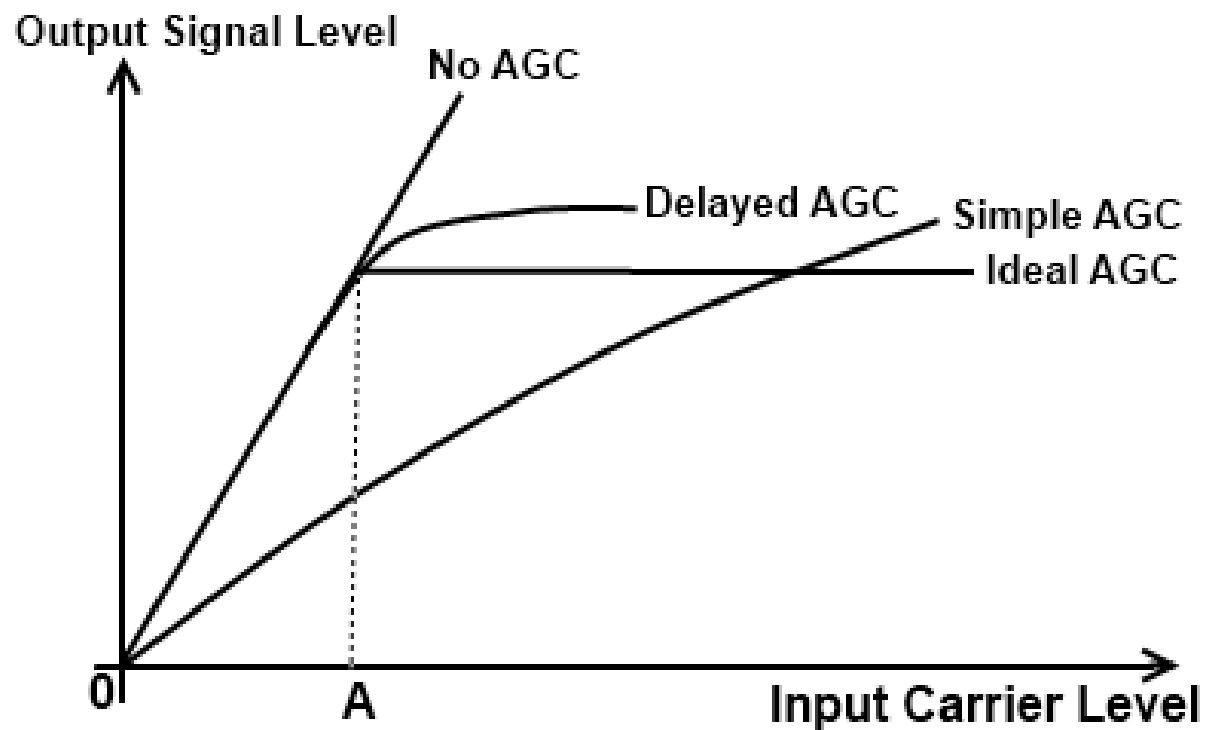
Spectrum of Voice Signal



Automatic Gain Control (AGC)

AGC or AVC (Automatic Volume Control) is a system by means of which the overall gain of radio receiver is varied automatically with the variations in the strength of received signals, to maintain the output constant.





PRE-EMPHASIS:

Pre-emphasis refers to boosting the relative amplitudes of the modulating voltage for higher audio frequencies from 2 KHz to approximately 15 KHz.

DE-EMPHASIS:

De-emphasis means attenuating those frequencies by the amount by which they are boosted.

Pre-emphasis is done at the transmitter and the de-emphasis is done in the receiver. The purpose is to improve the signal-to-noise ratio for FM reception.

Design a Pre-Emphasis & De-Emphasis for boosting a signals having frequency greater than 3KHz
